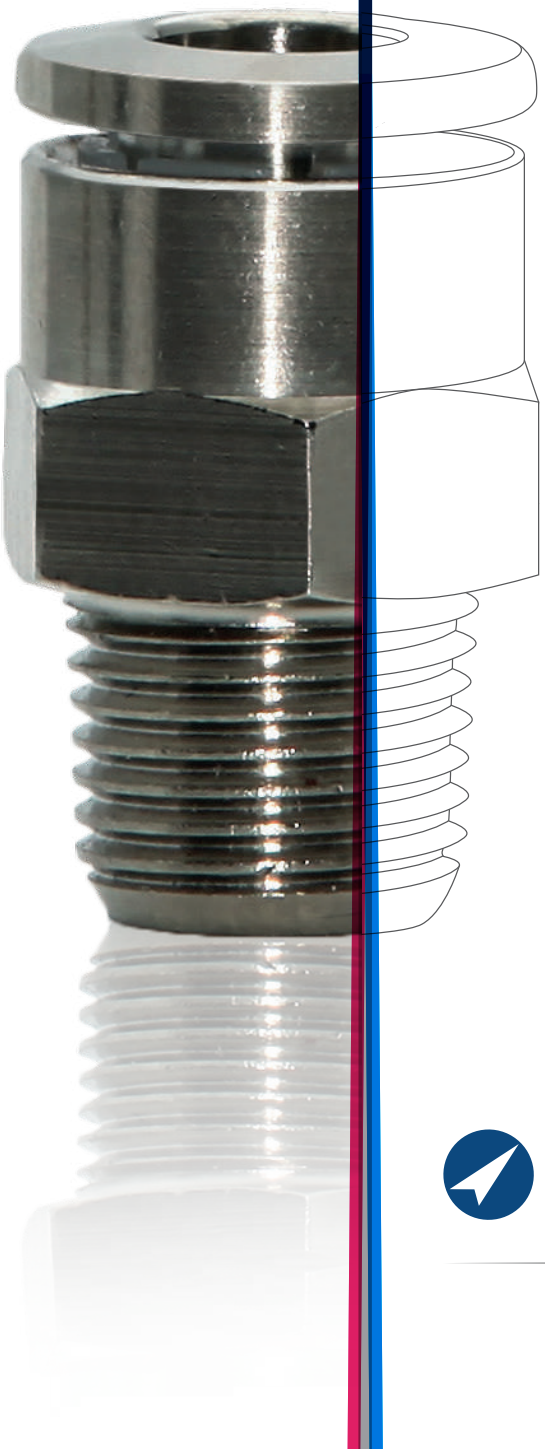
TierreFittings®

INDUSTRIAL AUTOMATION • HYGIENIC&FOOD • FOOD&BEVERAGE

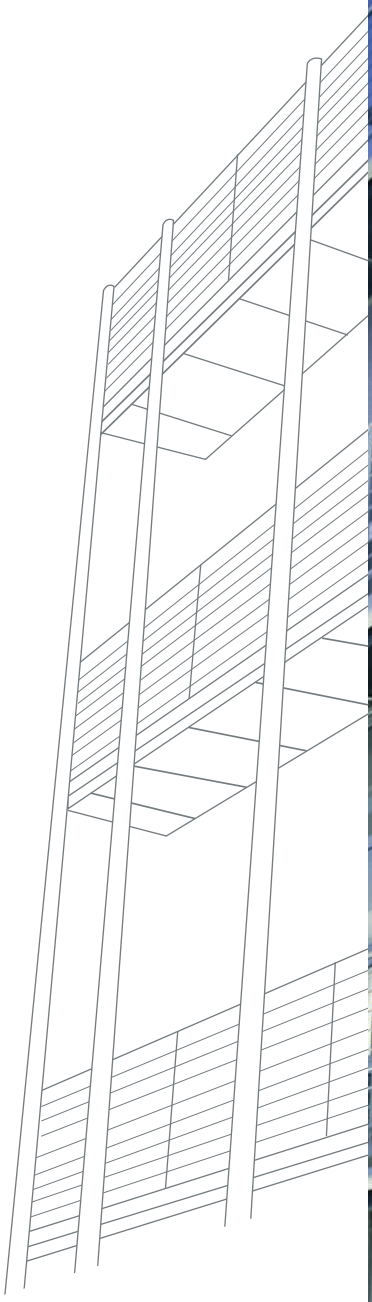


TierreGroup®

20 Anniversario
1998 - 2018

TierreFittings®

INDUSTRIAL AUTOMATION
HYGIENIC&FOOD
FOOD&BEVERAGE



TierreGroup®

INDUSTRIAL AUTOMATION
HYGIENIC&FOOD FOOD&BEVERAGE

NET.Fit®

TierreFittings®

INOX.Fit®

F-Line®







COMPANY PROFILE

VALUES COME FIRST

Before products, before solutions, before every trading issue for Tierre Group values come first. Every activity is based on and inspired by values. **Our business vision relies on our staff fairness, reliability, honesty, respect and professionalism.**





DESIGN & PRODUCTION

Our new production plant in Brescia, heart of Tierre Group transformation, is the most important investment for the 20 years of our company.

The full design and manufacture of the components of our main products ranges is the key to Tierre Group success. The ability to offer customized solutions for every specific need, together with the constant technical search on the materials allows Tierre Group to achieve production efficiency and performances of an absolute level for all the products.





360-DEGREE EFFICIENCY

Production efficiency for the manufacturing costs optimization and a proper management of the warehouse stock are strategic elements which allows Tierre Group to respond better to the challenges the market offers.

Thanks to the development of a dynamic and innovative management system, our company is able to reduce to a minimum the products shipment times and to ensure an immediate answer, almost a just-in-time delivery.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

assofluid





INVESTMENTS AND INNOVATION
THINKING ABOUT THE FUTURE

Investing today for growing tomorrow. Following this belief Tierre Group has always invested extensive resources in the technological innovation, which has become a key element of our activities. Thanks to the innovative management system and the new automatic vertical storage to which the fi rst one is connected, we are able to speed up the time of orders preparation, better manage the materials and ensure the products safety.

Also our Web Site is an advanced tool that allows us to offer an even more structured service to the customer. The investments in the professional growth of our employees, through the use of dedicated Educational tools, complete the picture of what Tierre Group offers.



INDEX

PUSH-IN FITTINGS **1**

PLASTIC PUSH-IN FITTINGS 3
COMPACT PUSH-IN FITTINGS CDC PNEUMATICS 41
BRASS PUSH-IN FITTINGS 51
BRASS PUSH-IN FITTINGS WITH T.E.A. SURFACE TREATMENT 63
PLASTIC PUSH-IN FITTINGS FOR HIGH PERFORMANCE 69
PUSH-IN FITTINGS INOX AISI 316 83

CARTRIDGES **93**

CDC PNUMATICS CARTRIDGES 95
FLUIDFIT CARTRIDGES 97

FUNCTION FITTINGS **99**

FLOW REGULATORS 101
FLOW REGULATORS WITH PILOT CHECK VALVES 119
EXHAUST VALVES 123
MANUAL VALVES 131
STOP FITTINGS 145
CHECK VALVES 151

PUSH-ON FITTINGS **163**

ACETAL RESIN PUSH-ON FITTINGS 165
BRASS PUSH-ON FITTINGS 169
POLYPROPYLENE PUSH-ON FITTINGS 183
PVDF PUSH-ON FITTINGS 191
PUSH-ON FITTINGS INOX AISI 316 199

COMPRESSION FITTINGS **205**

BRASS UNIVERSAL COMPRESSION FITTINGS 207
YELLOW BRASS COMPRESSION FITTINGS 215
BRASS COMPRESSION FITTINGS 227
COMPRESSION FITTINGS INOX AISI 316 DIN 2353 235

BARB CONNECTORS 243

POLYPROPYLENE BARB CONNECTORS 245
BRASS BARB CONNECTORS 251
HDPE BARB CONNECTORS 257
NYLON BARB CONNECTORS 261
PVDF BARB CONNECTORS 275
BARB CONNECTOR INOX AISI 316 285
CLAMPS 287

STANDARD FITTINGS 293

MICROCAST FITTINGS 295
BRASS STANDARD FITTINGS 303
BAYONED JOINT FITTINGS AND ACCESSORIES 319
NYLON STANDARD FITTINGS 327
PVDF STANDARD FITTINGS 337
STANDARD FITTINGS INOX AISI 316 343
DISTRIBUTION MANIFOLDS 351
DISTRIBUTION MANIFOLDS INOX AISI 304 355
SILENCERS 357

ACCESSORIES 365

PRESSURE GAUGES 367
TANKS 377
SEALING FOR THREADED ELEMENTS 381

PLASTIC QUICK COUPLINGS 391

PLASTIC QUICK COUPLINGS 393
ACETAL RESIN QUICK COUPLINGS 397

QUICK COUPLING FOR COMPRESSED AIR 405

MINI SERIES 407
TIERRE UNIVERSAL SERIES 413
USA SERIES 419
SWISS SERIES 423
GERMANY SERIES 427
ITALY SERIES 433
LARGE ITALY SERIES 439
JAPAN SERIES 443

QUICK COUPLINGS FOR FLUIDS 449

CD-12 453
CD-25 459
CD-25N / CD-25S SAFETY 463
CD-50 469
CD-100 473
CD-150 477
ACLD UNIDIRECTIONAL CHECK VALVES 483
FLUID-10N / FLUID-10S SAFETY 487
FLUID-10N-X 493
FLUID-20N 499
FLUID-30 505
FLUID-210N / FLUID-210S SAFETY 509
MICRO 515
MINI 519
MINI-DO 525
EUROSTANDARD 531
EUROSTANDARD - DO 539
EUROFLUID 545
Q-10S SAFETY 549
IRT28 SAFETY 555
CRHL12 559
CRM-55 565

AIR GUNS 571

CAF AIR GUNS 573
CB AIR GUNS BIG FLOWRATE 575
PSF ALUMINIUM AIR GUNS 577
CPA PLASTIC AIR BLOW GUN WITH BRASS INSERTION 581
UGPT-7 BLOW COMPRESSED AIR 585
SAFETY CPOH AIR BLOW GUN OSHA COMPLIANT 587

INDUSTRIAL VALVES 589

BRASS BALL VALVES 591
SAFETY VALVE 617
INOX BALL VALVES 621

SOLENOID VALVES **635**

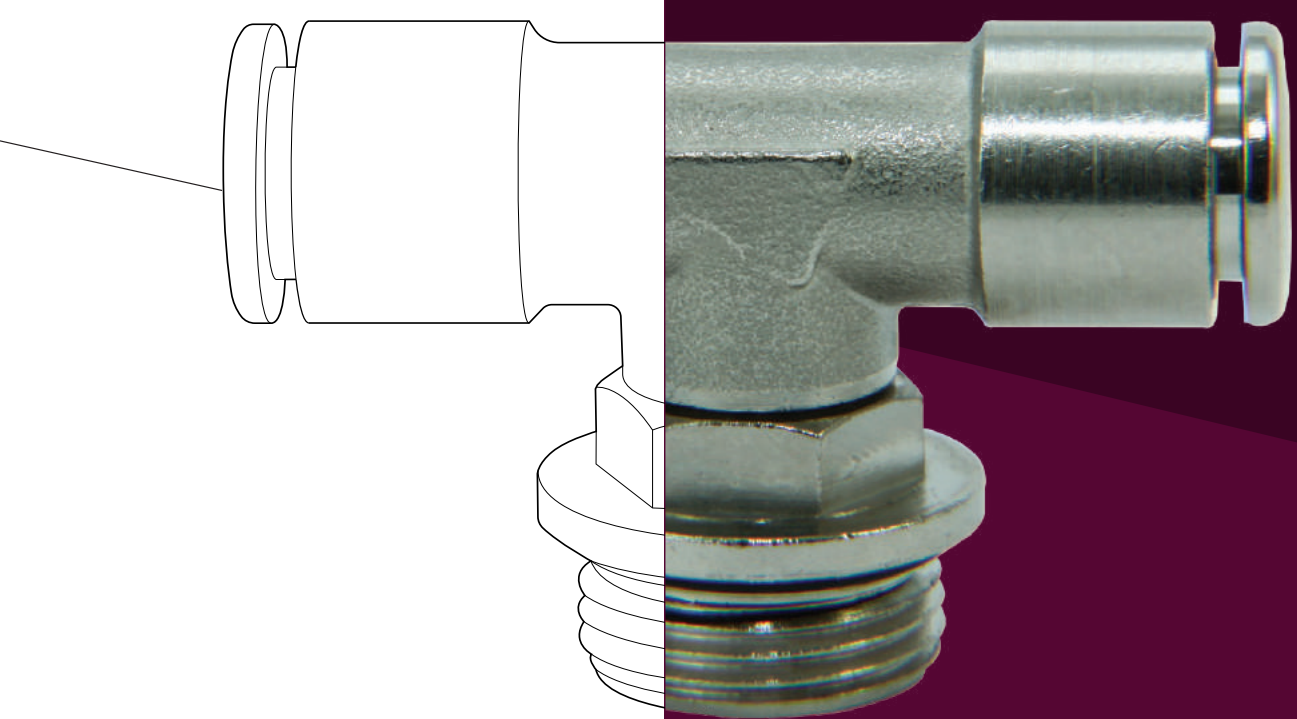
NYLON SOLENOID VALVES 637
SOLENOID VALVES INOX AISI 316L 645

TUBES **651**

POLYURETHANE TUBE ON POLYESTER BASIS 653
HIGH QUALITY POLYURETHANE TUBE ON POLYESTER BASIS 657
POLYURETHANE TUBE ON POLYETHER BASIS FDA 661
ANTISTATIC POLYURETHANE TUBE 665
ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID 667
ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID FOR HEAVY DUTIES 671
ANTISPARKLING POLYURETHANE TUBE DIN 5510-2 675
POLYAMMIDE TUBE PA12 677
POLYETHYLENE TUBE 681
PTFE TUBE 685
FEP TUBE 689
SILICON TUBE 693
PVC TRANSPARENT TUBE 695
PVC WIRED TUBE 697
POLYURETHANE TUBE WITH INTERNAL PVC NON-TOXIC COATING 699
PVC TUBE WITH REIFORCEMENT IN POLYESTER FIBER 701
FLEXLOCK TUBE 703
COILED TUBE AND ACCESSORIES 705
SELF FASTENING TUBE 713
AIR DISTRIBUTION 719
GENERAL CHEMICAL TABLE 725

ALPHANUMERIC INDEX **731**

PUSH-IN FITTINGS



TECHNICAL INDEX



P. 3 /
PLASTIC PUSH-IN FITTINGS



P. 41 /
COMPACT PUSH-IN FITTINGS
CDC PNEUMATICS



P. 51 /
BRASS PUSH-IN FITTINGS



P. 63 /
BRASS PUSH-IN FITTINGS
WITH T.E.A. SURFACE TREATMENT



P. 69 /
PLASTIC PUSH-IN FITTINGS
FOR HIGH PERFORMANCE



P. 83 /
PUSH-IN FITTINGS
INOX AISI 316

PLASTIC PUSH-IN FITTINGS

PLUS

COMPLETE RANGE
thanks to a 20-years experience in the market.

HIGHEST LEVEL OF PERFORMANCES
working pressure up to 16 bar, increased of working temperature.

PLASTIC STEM SYSTEM to allow the connection with different kind of fittings.

MADE BY TOP QUALITY TECNOPOLYMERS to guarantee long-lasting components.

100% LEAK-PROOF TESTED

SILICON FREE MATERIALS

IN COMPLIANCE WITH ISO 14743

SUITABLE FOR VACUUM APPLICATIONS

STATIC GRIPPING SYSTEM in order to stop all the movements of the tube when inserted, granting a leak-proof connection

Every fitting is **STUDIED TO GUARANTEE THE MAXIMUM POSSIBLE FLOW RATE** accordingly to the diameter of the tube and to the thread


p. 8 / **WTRC-R**


p. 8 / **WTRC-G**


p. 9 / **WTRC-N**


p. 9 / **WTROC-R**


p. 10 / **WTROC-G**


p. 10 / **WTROC-N**


p. 11 / **WTRCF-G**


p. 11 / **WTRCF-N**


p. 12 / **WTRMF-G**


p. 12 / **WTRMF-N**


p. 13 / **WTRMM**


p. 13 / **WTRMM-N**


p. 13 / **WTRSL-R**


p. 14 / **WTRSL-G**


p. 14 / **WTRL-R**


p. 15 / **WTRL-G**


p. 16 / **WTRL-N**


p. 16 / **WTRLL-R**


p. 17 / **WTRLL-G**


p. 17 / **WTRLL-N**


p. 18 / **WTRLH-R**


p. 18 / **WTRLH-G**


p. 19 / **WTRLH-N**


p. 19 / **WTRLF-G**


p. 20 / **WTRLF-N**


p. 20 / **WTRLM**


p. 20 / **WTRH-R**


p. 21 / **WTRH-G**


p. 21 / **WTRH-N**


p. 22 / **WTRHF-R**


p. 22 / **WTRHF-G**


p. 23 / **WTRHF-N**


p. 23 / **WTRT-R**


p. 24 / **WTRT-G**


p. 25 / **WTRT-N**


p. 25 / **WTRST-R**


p. 26 / **WTRST-G**


p. 26 / **WTRST-N**


p. 27 / **WTRWT-R**


p. 27 / **WTRWT-G**


p. 28 / **WTRWT-N**


p. 28 / **WTRKD-R**


p. 28 / **WTRKD-G**


p. 29 / **WTRKD-N**


p. 29 / **WTRUC**


p. 29 / **WTRUC-N**


p. 30 / **WTRG**


p. 30 / **WTRG-N**


p. 30 / **WTRUL**


p. 31 / **WTRUL-N**


p. 31 / **WTRUT**


p. 31 / **WTRUT-N**


p. 31 / **WTRGT**


p. 32 / **WTRGT-N**



p. 32 / **WTRY**



p. 32 / **WTRY-N**



p. 32 / **WTRW**



p. 33 / **WTRW-N**



p. 33 / **WTRZA**



p. 33 / **WTRZA-N**



p. 33 / **WTRK**



p. 34 / **WTRK-N**



p. 34 / **WTRKG**



p. 34 / **WTRKG-N**



p. 34 / **WTRGJ**



p. 35 / **WTRGJ-N**



p. 35 / **WTRLJ**



p. 35 / **WTRLJ-N**



p. 35 / **WTRLGJ**



p. 36 / **WTRLGJ-N**



p. 36 / **WTRYJ**



p. 36 / **WTRYJ-N**



p. 36 / **WTRWJ**



p. 37 / **WTRWJ-N**



p. 37 / **WTRKJ**



p. 37 / **WTRKJ-N**



p. 37 / **WTRPF**



p. 38 / **WTRIJ**



p. 38 / **WTRIJ-N**



p. 38 / **WTRIG**



p. 38 / **WTRIG-N**



p. 39 / **WTRP**



p. 39 / **WTRP-N**



p. 39 / **WTRUC-PRD**

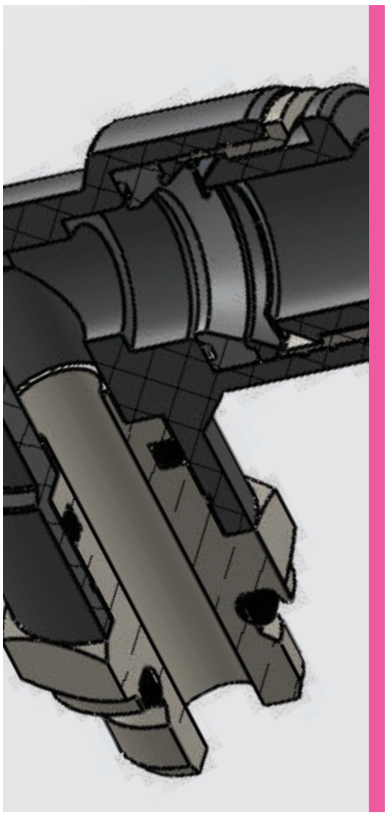


p. 39 / **WTRCV**



p. 39 / **TR**





-20°C ÷ 80°C

Working pressure:
16 Bar
Negative pressure:
-750 mmHg

Compressed air & vacuum

Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5, M6, M7
NPT from N1/8" to N1/2"
UNF 10-32

Polyamide PA,
Polyurethane PU,
Polyethylene PE

Body: Nickel plated brass
and high performance PBT
Release Sleeve: Acetal resin POM
Cartridge: Nickel plated zinc
Lock claw: Stainless steel AISI 301
Back Ring: POM
O'ring: NBR silicon Free
V-Seal: NBR silicon Free

REACH

Products in compliance with
the directive 2002/95/EC

RoHS2

Products in compliance with
the directive 2011/65/EU

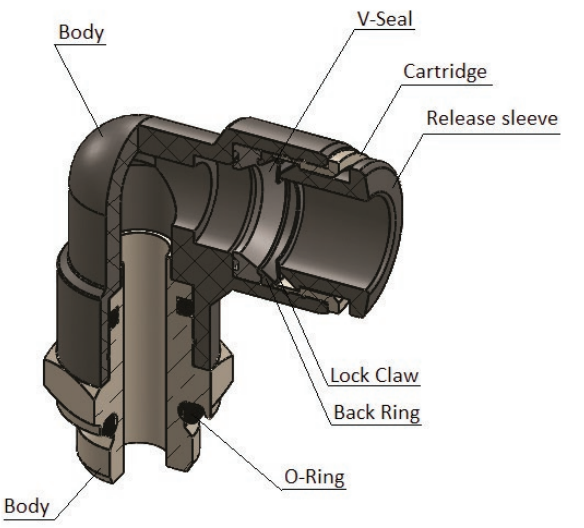
INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

CONSTRUCTION MATERIALS



TOLERANCE TUBE

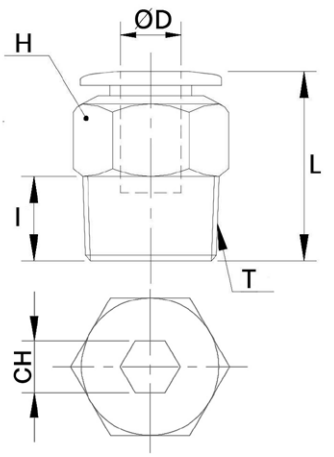
TUBES Ø	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm	Ø 14 mm	Ø 16 mm
TOLERANCES (MM)	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15	± 0,15	± 0,15

TUBES Ø	Ø 5/32	Ø 3/16	Ø 1/4	Ø 5/16	Ø 3/8	Ø 1/2
TOLERANCES (INCH)	± 0,003	± 0,003	± 0,003	± 0,003	± 0,005	± 0,005

WTRC-R

Male connector with internal hexagon BSPT thread nickel plated



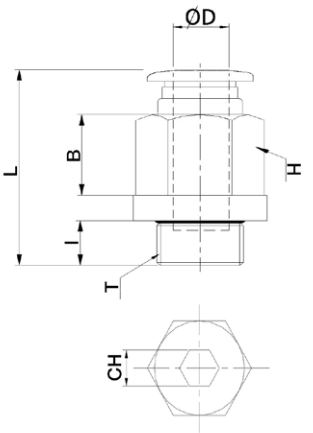


CODE	ØD	T	I	L	CH	H	GR.
WTRC04R01	4	R1/8"	7,0	19,3	3,0	10	6,2
WTRC04R02	4	R1/4"	9,5	17,9	3,0	14	9,8
WTRC06R01	6	R1/8"	7,0	20,4	4,0	12	6,9
WTRC06R02	6	R1/4"	9,5	22,7	4,0	14	13,3
WTRC06R03	6	R3/8"	10,5	20,7	4,0	17	19,9
WTRC06R04	6	R1/2"	13,5	24,7	4,0	21	39,8
WTRC08R01	8	R1/8"	7,0	25,4	5,0	14	10,0
WTRC08R02	8	R1/4"	9,5	24,9	6,0	14	11,9
WTRC08R03	8	R3/8"	10,5	21,9	6,0	17	17,5
WTRC08R04	8	R1/2"	13,5	25,9	6,0	21	37,6
WTRC10R01	10	R1/8"	7,0	27,7	5,0	17	16,4
WTRC10R02	10	R1/4"	9,5	29,5	6,0	17	18,6
WTRC10R03	10	R3/8"	10,5	27,0	8,0	17	20,7
WTRC10R04	10	R1/2"	13,5	25,3	8,0	21	34,6
WTRC12R02	12	R1/4"	9,5	32,9	6,0	20	24,5
WTRC12R03	12	R3/8"	10,5	29,9	8,0	20	25,3
WTRC12R04	12	R1/2"	13,5	32,9	8,0	21	41,0
WTRC16R03	16	R3/8"	10,5	37,6	8,0	24	42,0
WTRC16R04	16	R1/2"	13,5	35,6	10,0	24	42,1

WTRC-G

Male connector with internal hexagon BSPP & metric thread nickel plated



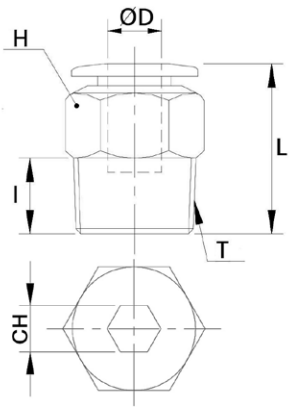


CODE	ØD	T	I	L	B	CH	H	GR.
WTRC04M5	4	M5X0,8	3,8	20,1	10,5	2,0	10	5,7
WTRC04M6	4	M6X1	4,5	20,8	10,5	2,5	10	6,1
WTRC04M7	4	M7X1	4,5	20,8	10,5	3,0	10	6,9
WTRC04G01	4	G1/8"	5,0	19,3	7,4	3,0	10	7,4
WTRC04G02	4	G1/4"	5,8	16,6	3,9	3,0	10	9,4
WTRC06M5	6	M5X0,8	3,8	21,2	10,5	2,0	12	7,4
WTRC06M6	6	M6X1	4,5	21,7	10,5	2,5	12	7,0
WTRC06M7	6	M7X1	4,5	21,9	10,5	3,0	12	7,2
WTRC06G01	6	G1/8"	5,0	19,9	6,7	4,0	12	7,5
WTRC06G02	6	G1/4"	5,8	20,4	6,4	4,0	12	10,8
WTRC06G03	6	G3/8"	6,8	20,0	4,5	4,0	12	17,0
WTRC06G04	6	G1/2"	8,0	21,7	4,5	4,0	12	27,5
WTRC08G01	8	G1/8"	5,0	24,4	11,1	5,0	14	11,7
WTRC08G02	8	G1/4"	5,8	22,2	7,0	6,0	14	11,1
WTRC08G03	8	G3/8"	6,8	21,2	4,5	6,0	14	15,7
WTRC08G04	8	G1/2"	8,0	22,9	4,5	6,0	14	27,0
WTRC10G01	10	G1/8"	5,0	26,3	11,0	5,0	17	15,9
WTRC10G02	10	G1/4"	5,8	27,5	13,9	6,0	17	20,4
WTRC10G03	10	G3/8"	6,8	25,0	8,9	8,0	17	20,6
WTRC10G04	10	G1/2"	8,0	22,7	4,9	8,0	17	28,5
WTRC12G02	12	G1/4"	5,8	31,2	12,0	6,0	20	26,3
WTRC12G03	12	G3/8"	6,8	28,2	11,0	8,0	20	24,3
WTRC12G04	12	G1/2"	8,0	28,9	9,5	8,0	20	33,3
WTRC14G03	14	G3/8"	6,8	31,8	13,0	8,0	21	30,0
WTRC14G04	14	G1/2"	8,0	29,5	10,0	10,0	24	20,0
WTRC16G03	16	G3/8"	6,8	34,9	14,5	8,0	24	42,0
WTRC16G04	16	G1/2"	8,0	36,1	18,0	10,0	24	50,7

WTRC-N

Male connector with internal hexagon NPT & UNF thread nickel plated



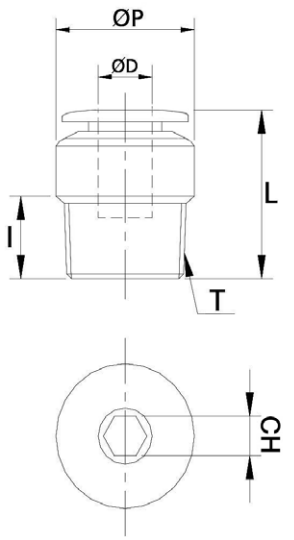


CODE	ØD	T	I	L	CH	H	LB
WTRC532UF1032	5/32	UNF 10-32	0,149	0,799	0,093	0,437	0,012
WTRC532N01	5/32	N1/8"	0,295	0,779	0,093	0,437	0,013
WTRC532N02	5/32	N1/4"	0,413	0,744	0,093	0,562	0,021
WTRC316UF1032	3/16	UNF 10-32	0,149	0,822	0,093	0,437	0,014
WTRC316N01	3/16	N1/8"	0,295	0,811	0,156	0,437	0,027
WTRC316N02	3/16	N1/4"	0,413	0,933	0,156	0,562	0,041
WTRC316N03	3/16	N3/8"	0,433	0,834	0,156	0,578	0,083
WTRC1-4UF1032	1/4	UNF 10-32	0,149	0,834	0,093	0,5	0,015
WTRC1-4N01	1/4	N1/8"	0,295	0,822	0,156	0,5	0,029
WTRC1-4N02	1/4	N1/4"	0,413	0,933	0,156	0,562	0,043
WTRC1-4N03	1/4	N3/8"	0,433	0,834	0,156	0,685	0,087
WTRC516N01	5/16	N1/8"	0,295	1,019	0,187	0,562	0,022
WTRC516N02	5/16	N1/4"	0,143	1,019	0,218	0,562	0,026
WTRC516N03	5/16	N3/8"	0,433	0,881	0,218	0,685	0,038
WTRC38N01	3/8	N1/8"	0,295	1,110	0,187	0,685	0,036
WTRC38N02	3/8	N1/4"	0,413	1,200	0,218	0,685	0,041
WTRC38N03	3/8	N3/8"	0,433	1,011	0,312	0,685	0,045
WTRC38N04	3/8	N1/2"	0,551	1,015	0,312	0,874	0,076
WTRC1-2N02	1/2	N1/4"	0,413	1,334	0,250	0,874	0,054
WTRC1-2N03	1/2	N3/8"	0,433	1,196	0,312	0,874	0,055
WTRC1-2N04	1/2	N1/2"	0,551	1,314	0,312	0,874	0,090

WTROC-R

Male connector with internal hexagon BSPT thread nickel plated



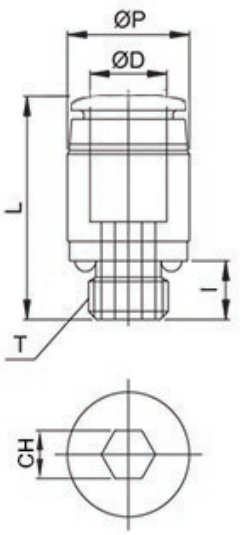


CODE	ØD	T	I	L	ØP	CH	H	GR.
WTROC04R01	4	R1/8"	7,0	19,3	10	3,0	3,0	5,6
WTROC04R02	4	R1/4"	9,5	17,9	14	3,0	3,0	11,2
WTROC06R01	6	R1/8"	7,0	20,4	12	4,0	4,0	6,3
WTROC06R02	6	R1/4"	9,5	22,7	14	4,0	4,0	12,5
WTROC06R03	6	R3/8"	10,5	20,7	17	4,0	4,0	19,0
WTROC08R01	8	R1/8"	7,0	25,4	14	5,0	5,0	10,2
WTROC08R02	8	R1/4"	9,5	24,9	14	6,0	6,0	13,1
WTROC08R03	8	R3/8"	10,5	21,9	17	6,0	6,0	17,3
WTROC08R04	8	R1/2"	13,5	25,9	21	6,0	6,0	37,9
WTROC10R01	10	R1/8"	7,0	27,7	17	5,0	5,0	20,8
WTROC10R02	10	R1/4"	9,5	29,5	17	6,0	6,0	22,5
WTROC10R03	10	R3/8"	10,5	27,0	17	8,0	8,0	22,6
WTROC10R04	10	R1/2"	13,5	25,3	21	8,0	8,0	34,0
WTROC12R02	12	R1/4"	9,5	32,9	20	6,0	6,0	21,5
WTROC12R03	12	R3/8"	10,5	29,9	20	8,0	8,0	22,2
WTROC12R04	12	R1/2"	13,5	32,9	21	8,0	8,0	37,3

WTROC-G

Male connector with internal hexagon metric thread nickel plated



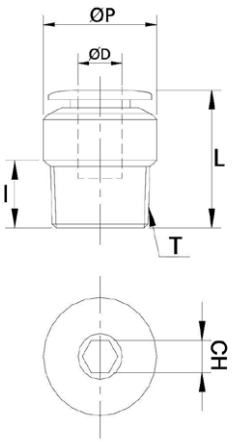


CODE	ØD	T	I	L	ØP	CH	GR.
WTROC04M5	4	M5X0,8	3,8	20,1	10	2,0	5,2
WTROC04M6	4	M6X1	4,5	20,8	10	2,0	5,6
WTROC06M5	6	M5X0,8	3,8	21,0	12	2,0	6,8
WTROC06M6	6	M6X1	4,5	21,7	12	2,0	7,2

WTROC-N

Male connector with internal hexagon NPT & UNF thread nickel plated



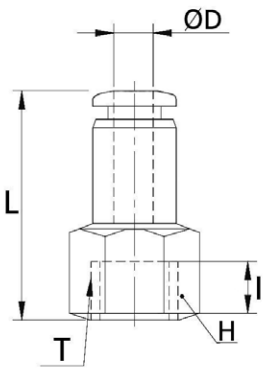


CODE	ØD	T	I	L	CH	H	LB
WTROC532UF1032	5/32	UNF 10-32	0,149	0,799	0,093	0,393	0,011
WTROC532N01	5/32	N1/8"	0,295	0,779	0,093	0,393	0,012
WTROC1-4UF1032	1/4	UNF 10-32	0,149	0,834	0,093	0,472	0,013
WTROC1-4N01	1/4	N1/8"	0,295	0,822	0,156	0,472	0,014
WTROC1-4N02	1/4	N1/4"	0,413	0,933	0,156	0,551	0,027
WTROC516N01	5/16	N1/8"	0,295	1,019	0,187	0,551	0,022
WTROC516N02	5/16	N1/4"	0,413	1,019	0,218	0,551	0,028
WTROC516N03	5/16	N3/8"	0,433	0,881	0,218	0,669	0,038
WTROC38N02	3/8	N1/4"	0,413	1,200	0,218	0,669	0,049
WTROC38N03	3/8	N3/8"	0,433	1,011	0,312	0,669	0,049
WTROC38N04	3/8	N1/2"	0,551	1,015	0,312	0,826	0,074
WTROC1-2N02	1/2	N1/4"	0,413	1,334	0,250	0,826	0,047
WTROC1-2N03	1/2	N3/8"	0,433	1,196	0,312	0,826	0,048
WTROC1-2N04	1/2	N1/2"	0,551	1,314	0,313	0,826	0,082

WTRCF-G

Female connector BSPP thread nickel plated



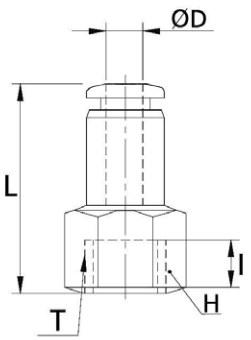


CODE	ØD	T	I	L	H	GR.
WTRCF04G01	4	G1/8"	7,0	22,3	14	12,5
WTRCF04G02	4	G1/4"	9,0	25,3	17	18,0
WTRCF06G01	6	G1/8"	7,0	24,4	14	15,0
WTRCF06G02	6	G1/4"	9,0	26,4	17	19,3
WTRCF06G03	6	G3/8"	10,0	27,4	19	26,3
WTRCF08G01	8	G1/8"	7,0	25,9	14	15,8
WTRCF08G02	8	G1/4"	9,0	27,9	17	19,4
WTRCF08G03	8	G3/8"	10,0	28,9	19	18,4
WTRCF08G04	8	G1/2"	12,0	30,9	24	32,8
WTRCF10G01	10	G1/8"	7,0	27,7	17	28,5
WTRCF10G02	10	G1/4"	9,0	29,7	17	27,0
WTRCF10G03	10	G3/8"	10,0	30,7	19	24,6
WTRCF10G04	10	G1/2"	12,0	32,7	24	38,5
WTRCF12G02	12	G1/4"	9,0	32,9	20	44,2
WTRCF12G03	12	G3/8"	10,0	33,9	20	35,9
WTRCF12G04	12	G1/2"	12,0	35,9	24	34,2

WTRCF-N

Female connector NPT thread nickel plated



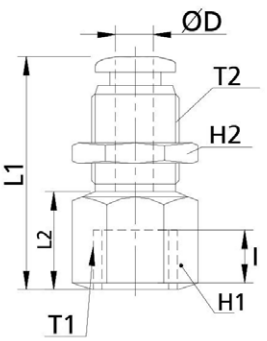


CODE	ØD	T	I	L	H	LB
WTRCF532N01	5/32	N1/8"	0,295	0,937	0,562	0,027
WTRCF532N02	5/32	N1/4"	0,413	1,055	0,685	0,039
WTRCF316N01	3/16	N1/8"	0,295	0,960	0,562	0,031
WTRCF316N02	3/16	N1/4"	0,413	1,078	0,685	0,040
WTRCF1-4N01	1/4	N1/8"	0,295	0,980	0,562	0,033
WTRCF1-4N02	1/4	N1/4"	0,413	1,098	0,685	0,042
WTRCF516N01	5/16	N1/8"	0,295	1,039	0,562	0,034
WTRCF516N02	5/16	N1/4"	0,413	1,157	0,685	0,042
WTRCF516N03	5/16	N3/8"	0,433	1,177	0,874	0,040
WTRCF38N02	3/8	N1/4"	0,413	1,228	0,685	0,059
WTRCF38N03	3/8	N3/8"	0,433	1,248	0,874	0,054
WTRCF1-2N02	1/2	N1/4"	0,413	1,354	0,874	0,097
WTRCF1-2N03	1/2	N3/8"	0,433	1,374	0,874	0,079

WTRMF-G

Bulkhead female connector BSPP thread nickel plated



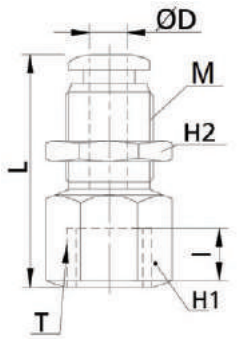


CODE	ØD	T1	T2	I	H1	H2	L1	L2	GR.
WTRMF04G01	4	G1/8"	M12X1	7,0	14	14	23,3	9,5	15,5
WTRMF04G02	4	G1/4"	M12X1	9,0	17	14	25,4	11,6	20,4
WTRMF06G01	6	G1/8"	M14X1	7,0	17	17	24,2	7,0	26,3
WTRMF06G02	6	G1/4"	M14X1	9,0	17	17	29,2	12,0	26,5
WTRMF06G03	6	G3/8"	M14X1	10,0	19	17	30,2	13,0	35,1
WTRMF08G01	8	G1/8"	M16X1	7,0	19	19	27,4	5,0	32,0
WTRMF08G02	8	G1/4"	M16X1	9,0	19	19	34,4	12,0	42,4
WTRMF08G03	8	G3/8"	M16X1	10,0	19	19	34,4	13,0	42,4
WTRMF08G04	8	G1/2"	M16X1	12,0	24	19	36,4	15,0	47,7
WTRMF10G01	10	G1/8"	M20X1	7,0	21	24	28,4	7,7	52,8
WTRMF10G02	10	G1/4"	M20X1	9,0	21	24	30,4	9,7	53,5
WTRMF10G03	10	G3/8"	M20X1	10,0	21	24	33,7	13,0	53,8
WTRMF10G04	10	G1/2"	M20X1	12,0	24	24	35,7	15,0	58,8
WTRMF12G02	12	G1/4"	M22X1	9,0	24	27	33,5	9,1	68,2
WTRMF12G03	12	G3/8"	M22X1	10,0	24	27	34,4	10,0	62,7
WTRMF12G04	12	G1/2"	M22X1	12,0	24	27	39,4	15,0	62,3

WTRMF-N

Bulkhead female connector NPT thread nickel plated



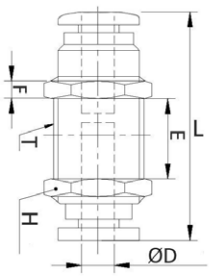


CODE	ØD	T	M	I	H1	H2	L	LB
WTRMF532N01	5/32	N1/8"	M12X1	0,295	0,562	0,562	0,937	0,034
WTRMF316N02	3/16	N1/4"	M14X1	0,413	0,685	0,685	1,196	0,055
WTRMF1-4N01	1/4	N1/8"	M14X1	0,295	0,685	0,685	0,972	0,057
WTRMF1-4N02	1/4	N1/4"	M14X1	0,413	0,685	0,685	1,196	0,058
WTRMF516N01	5/16	N1/8"	M16X1	0,295	0,685	0,748	1,098	0,070
WTRMF516N02	5/16	N1/4"	M16X1	0,413	0,748	0,748	1,413	0,093
WTRMF516N03	5/16	N3/8"	M16X1	0,433	0,748	0,748	1,393	0,093
WTRMF38N02	3/8	N1/4"	M20X1	0,413	0,874	0,874	1,255	0,117
WTRMF38N03	3/8	N3/8"	M20X1	0,0433	0,874	0,874	1,366	0,118
WTRMF1-2N03	1/2	N3/8"	M22X1	0,433	1	1	1,393	0,138
WTRMF1-2N04	1/2	N1/2"	M22X1	0,551	1	1	1,629	0,137

WTRMM

Bulkhead connector nickel plated



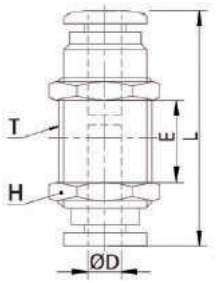


CODE	ØD	T	E	L	F	H	GR.
WTRMM0400	4	M12X1	9,7	30,1	3,5	14	15,4
WTRMM0600	6	M14X1	7,5	31,8	4,0	17	21,4
WTRMM0800	8	M16X1	6,8	35,3	4,5	19	26,8
WTRMM1000	10	M20X1	11,5	39,0	5,0	24	52,7
WTRMM1200	12	M22X1	12,8	45,3	5,0	27	59,8

WTRMM-N

Bulkhead connector nickel plated



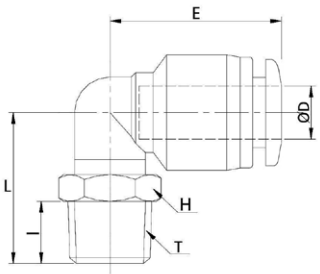


CODE	ØD	T	E	L	H	LB
WTRMM532	5/32	M12X1	0,381	1,185	0,562	0,034
WTRMM316	3/16	M14X1	0,295	1,251	0,685	0,045
WTRMM1-4	1/4	M14X1	0,295	1,251	0,685	0,047
WTRMM516	5/16	M16X1	0,267	1,389	0,748	0,059
WTRMM38	3/8	M20X1	0,350	1,433	0,874	0,116
WTRMM1-2	1/2	M22X1	0,503	1,783	1	0,131

WTRSL-R

Short swivel male elbow BSPT thread nickel plated



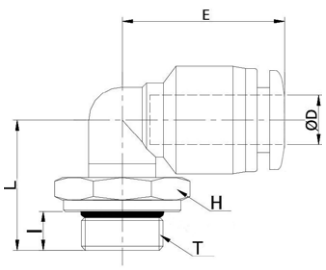


CODE	ØD	T	I	L	E	H	GR.
WTRSL04R01	4	R1/8"	7,0	16,0	17,5	10,0	5,8
WTRSL04R02	4	R1/4"	9,5	19,5	17,5	14,0	6,3
WTRSL06R01	6	R1/8"	7,0	17,0	19,0	10,0	6,4
WTRSL06R02	6	R1/4"	9,5	20,5	19,0	14,0	12,4
WTRSL06R03	6	R3/8"	10,5	22,0	19,0	17,0	14,2
WTRSL06R04	6	R1/2"	13,5	25,5	19,0	21,0	17,3
WTRSL08R01	8	R1/8"	7,0	21,3	22,8	12,0	11,5
WTRSL08R02	8	R1/4"	9,5	21,5	22,8	14,0	13,3
WTRSL08R03	8	R3/8"	10,5	23,0	22,8	17,0	20,3
WTRSL08R04	8	R1/2"	13,5	26,5	22,8	21,0	21,9
WTRSL10R01	10	R1/8"	7,0	25,5	26,3	14,0	15,4
WTRSL10R02	10	R1/4"	9,5	26,0	26,3	14,0	18,4
WTRSL10R03	10	R3/8"	10,5	25,0	26,3	17,0	21,9
WTRSL10R04	10	R1/2"	13,5	28,5	26,3	21,0	24,8
WTRSL12R02	12	R1/4"	9,5	29,5	29,6	17,0	33,6
WTRSL12R03	12	R3/8"	10,5	26,5	29,6	17,0	36,2
WTRSL12R04	12	R1/2"	13,5	30,0	29,6	21,0	39,5

WTRSL-G

Short swivel male elbow BSPP & metric thread nickel plated



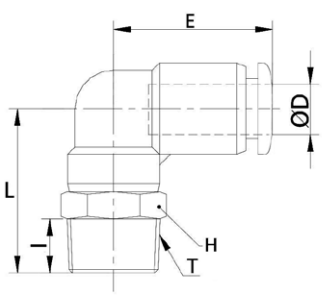


CODE	ØD	T	I	L	E	H	GR.
WTRSL04M5	4	M5X0,8	3,8	15,3	17,5	8,0	5,2
WTRSL04M7	4	M7X1	4,5	17,0	17,5	10,0	6,1
WTRSL04G01	4	G1/8"	4,8	14,8	17,5	14,0	7,6
WTRSL04G02	4	G1/4"	5,5	16,0	17,5	17,0	11,3
WTRSL06M5	6	M5X0,8	3,8	15,3	19,0	8,0	5,8
WTRSL06M7	7	M7X1	4,5	17,0	19,0	10	6,7
WTRSL06G01	6	G1/8"	4,8	15,8	19,0	14,0	8,3
WTRSL06G02	6	G1/4"	5,5	17,0	19,0	17,0	13,3
WTRSL06G03	6	G3/8"	6,5	18,5	19,0	20,0	16,8
WTRSL06G04	6	G1/2"	7,5	19,5	19,0	24,0	20,1
WTRSL08G01	8	G1/8"	4,8	20,0	22,8	14,0	11,9
WTRSL08G02	8	G1/4"	5,5	18,0	22,8	17,0	13,8
WTRSL08G03	8	G3/8"	6,5	19,5	22,8	20,0	21,2
WTRSL08G04	8	G1/2"	7,5	20,5	22,8	24,0	23,9
WTRSL10G01	10	G1/8"	4,8	24,3	26,3	14,0	21,3
WTRSL10G02	10	G1/4"	5,5	23,1	26,3	17,0	24,3
WTRSL10G03	10	G3/8"	6,5	21,5	26,3	20,0	27,6
WTRSL10G04	10	G1/2"	7,5	22,5	26,3	24,0	31,2
WTRSL12G02	12	G1/4"	5,5	26,5	29,6	17,0	33,8
WTRSL12G03	12	G3/8"	6,5	23,0	29,6	20,0	35,6
WTRSL12G04	12	G1/2"	7,5	24,0	29,6	24,0	39,8

WTRL-R

Swivel male elbow BSPT thread nickel plated



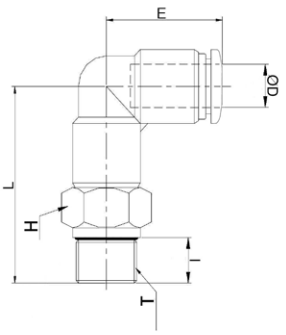


CODE	ØD	T	I	L	E	H	GR.
WTRL04R01	4	R1/8"	7,0	23,5	17,5	10	8,1
WTRL04R02	4	R1/4"	9,5	27,0	17,5	14	13,9
WTRL06R01	6	R1/8"	7,0	25,2	19,0	12	11,5
WTRL06R02	6	R1/4"	9,5	28,2	19,0	14	16,5
WTRL06R03	6	R3/8"	10,5	29,7	19,0	17	22,6
WTRL06R04	6	R1/2"	13,5	33,2	19,0	21	35,9
WTRL08R01	8	R1/8"	7,0	26,5	22,8	14	17,6
WTRL08R02	8	R1/4"	9,5	29,0	22,8	14	17,7
WTRL08R03	8	R3/8"	10,5	30,5	22,8	17	25,3
WTRL08R04	8	R1/2"	13,5	34,0	22,8	21	38,2
WTRL10R01	10	R1/8"	7,0	29,5	26,3	17	30,7
WTRL10R02	10	R1/4"	9,5	32,0	26,3	17	31,4
WTRL10R03	10	R3/8"	10,5	33,0	26,3	17	30,8
WTRL10R04	10	R1/2"	13,5	36,5	26,3	21	47,3
WTRL12R02	12	R1/4"	9,5	35,5	29,6	20	44,3
WTRL12R03	12	R3/8"	10,5	36,5	29,6	20	46,7
WTRL12R04	12	R1/2"	13,5	39,5	29,6	21	51,2
WTRL14R03	14	R3/8"	10,5	41,5	31,7	24	53,0
WTRL14R04	14	R1/2"	13,5	45,5	31,7	24	62,0
WTRL16R03	16	R3/8"	10,5	43,0	33,0	24	67,6
WTRL16R04	16	R1/2"	13,5	46,0	33,0	24	72,8

WTRL-G

Swivel male elbow BSPP & metric thread nickel plated



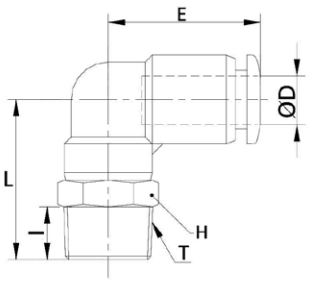


CODE	ØD	T	I	L	E	H	GR.
WTRL04M5	4	M5X0,8	3,8	17,3	17,5	8	5,1
WTRL04M6	4	M6X1	4,5	18,0	17,5	8	5,3
WTRL04G01	4	G1/8"	5,0	24,0	17,5	14	11,8
WTRL04G02	4	G1/4"	5,8	25,3	17,5	17	17,9
WTRL06M5	6	M5X0,8	3,8	17,3	19,0	8	5,8
WTRL06M6	6	M6X1	4,5	18,0	19,0	8	6,0
WTRL06G01	6	G1/8"	5,0	25,2	19,0	14	14,6
WTRL06G02	6	G1/4"	5,8	26,5	19,0	17	17,5
WTRL06G03	6	G3/8"	6,8	28,0	19,0	20	24,4
WTRL06G04	6	G1/2"	8,0	29,2	19,0	24	38,4
WTRL08G01	8	G1/8"	5,0	26,0	22,8	14	17,5
WTRL08G02	8	G1/4"	5,8	27,3	22,8	17	20,5
WTRL08G03	8	G3/8"	6,8	28,8	22,8	20	26,6
WTRL08G04	8	G1/2"	8,0	30,0	22,8	24	36,8
WTRL10G01	10	G1/8"	5,0	29,0	26,3	17	31,2
WTRL10G02	10	G1/4"	5,8	29,8	26,3	17	30,5
WTRL10G03	10	G3/8"	6,8	31,3	26,3	20	34,6
WTRL10G04	10	G1/2"	8,0	33,5	26,3	24	47,3
WTRL12G02	12	G1/4"	5,8	33,8	29,6	20	43,9
WTRL12G03	12	G3/8"	6,8	34,8	29,6	20	44,5
WTRL12G04	12	G1/2"	8,0	36,5	29,6	24	51,8
WTRL14G03	14	G3/8"	6,8	39,8	31,7	24	52,0
WTRL14G04	14	G1/2"	8,0	41,5	31,7	24	61,0
WTRL16G03	16	G3/8"	6,8	40,8	33,0	24	64,0
WTRL16G04	16	G1/2"	8,0	42,0	33,0	24	66,5

WTRL-N

Swivel male elbow NPT & UNF thread nickel plated



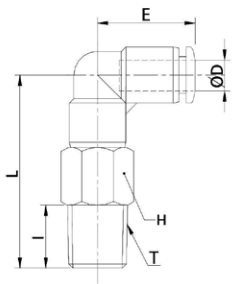


CODE	ØD	T	I	L	E	H	LB
WTRL532UF1032	5/32	UNF 10-32	0,149	0,681	0,688	0,314	0,016
WTRL532N01	5/32	N1/8"	0,295	0,944	0,688	0,437	0,017
WTRL532N02	5/32	N1/4"	0,413	1,102	0,688	0,562	0,030
WTRL316UF1032	3/16	UNF 10-32	0,149	0,866	0,700	0,437	0,016
WTRL316N01	3/16	N1/8"	0,295	0,964	0,700	0,437	0,025
WTRL316N02	3/16	N1/4"	0,413	1,102	0,700	0,562	0,034
WTRL316N03	3/16	N3/8"	0,433	1,141	0,700	0,685	0,047
WTRL1-4UF1032	1/4	UNF 10-32	0,149	0,681	0,748	0,314	0,024
WTRL1-4N01	1/4	N1/8"	0,295	1,011	0,748	0,5	0,025
WTRL1-4N02	1/4	N1/4"	0,413	1,149	0,748	0,562	0,036
WTRL1-4N03	1/4	N3/8"	0,433	1,188	0,748	0,685	0,049
WTRL516N01	5/16	N1/8"	0,295	1,062	0,897	0,562	0,038
WTRL516N02	5/16	N1/4"	0,413	1,181	0,897	0,562	0,039
WTRL516N03	5/16	N3/8"	0,433	1,220	0,897	0,685	0,055
WTRL38N01	3/8	N1/8"	0,295	1,181	1,035	0,685	0,067
WTRL38N02	3/8	N1/4"	0,413	1,299	1,035	0,685	0,069
WTRL38N03	3/8	N3/8"	0,433	1,318	1,035	0,685	0,067
WTRL38N04	3/8	N1/2"	0,551	1,456	1,035	0,874	0,104
WTRL1-2N02	1/2	N1/4"	0,413	1,437	1,165	0,874	0,097
WTRL1-2N03	1/2	N3/8"	0,433	1,456	1,165	0,874	0,102
WTRL1-2N04	1/2	N1/2"	0,551	1,574	1,165	0,874	0,112

WTRLL-R

Long swivel male elbow BSPT thread nickel plated



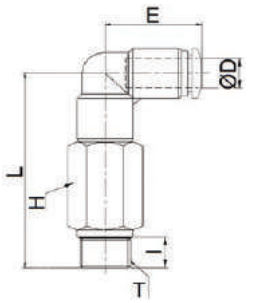


CODE	ØD	T	I	L	E	H	GR.
WTRLL04R01	4	R1/8"	7,0	35,5	17,5	10,0	14,2
WTRLL04R02	4	R1/4"	9,5	39,0	17,5	14,0	26,2
WTRLL06R01	6	R1/8"	7,0	39,2	19,0	12,0	22,0
WTRLL06R02	6	R1/4"	9,5	42,2	19,0	14,0	29,2
WTRLL06R03	6	R3/8"	10,5	43,7	19,0	17,0	39,4
WTRLL06R04	6	R1/2"	13,5	47,2	19,0	21,0	62,9
WTRLL08R01	8	R1/8"	7,0	41,8	22,8	14,0	34,6
WTRLL08R02	8	R1/4"	9,5	44,3	22,8	14,0	33,1
WTRLL08R03	8	R3/8"	10,5	45,8	22,8	17,0	45,6
WTRLL08R04	8	R1/2"	13,5	49,3	22,8	21,0	70,1
WTRLL10R01	10	R1/8"	7,0	49,5	26,3	17,0	61,2
WTRLL10R02	10	R1/4"	9,5	52,0	26,3	17,0	62,5
WTRLL10R03	10	R3/8"	10,5	53,0	26,3	17,0	56,7
WTRLL10R04	10	R1/2"	13,5	56,5	26,3	21,0	87,2
WTRLL12R02	12	R1/4"	9,5	58,5	29,6	20,0	86,7
WTRLL12R03	12	R3/8"	10,5	59,5	29,6	20,0	100,7
WTRLL12R04	12	R1/2"	13,5	62,5	29,6	21,0	89,7

WTRLL-G

Long swivel male elbow BSPP & metric thread nickel plated



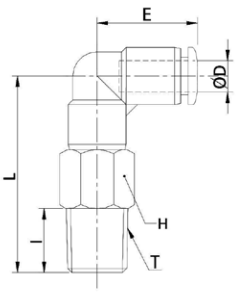


CODE	ØD	T	I	L	E	H	GR.
WTRLL04M5	4	M5X0,8	3,8	29,3	17,5	8,0	10,4
WTRLL04M6	4	M6X1	4,5	30,0	17,5	8,0	10,8
WTRLL04G01	4	G1/8"	5,0	36,0	17,5	14,0	25,9
WTRLL04G02	4	G1/4"	5,8	37,3	17,5	17,0	26,6
WTRLL06M5	6	M5X0,8	3,8	31,3	19,0	8,0	11,4
WTRLL06M6	6	M6X1	4,5	32,0	19,0	8,0	11,8
WTRLL06G01	6	G1/8"	5,0	39,2	19,0	14,0	30,5
WTRLL06G02	6	G1/4"	5,8	40,5	19,0	17,0	43,3
WTRLL06G03	6	G3/8"	6,8	42,0	19,0	20,0	57,0
WTRLL06G04	6	G1/2"	8,0	43,2	19,0	24,0	91,5
WTRLL08G01	8	G1/8"	5,0	41,3	22,8	14,0	35,4
WTRLL08G02	8	G1/4"	5,8	42,6	22,8	17,0	48,0
WTRLL08G03	8	G3/8"	6,8	44,1	22,8	20,0	60,3
WTRLL08G04	8	G1/2"	8,0	45,3	22,8	24,0	93,7
WTRLL10G01	10	G1/8"	5,0	49,0	26,3	17,0	61,8
WTRLL10G02	10	G1/4"	5,8	49,8	26,3	17,0	68,7
WTRLL10G03	10	G3/8"	6,8	51,3	26,3	20,0	78,7
WTRLL10G04	10	G1/2"	8,0	53,5	26,3	24,0	105,8
WTRLL12G02	12	G1/4"	5,8	56,8	29,6	20,0	98,1
WTRLL12G03	12	G3/8"	6,8	57,8	29,6	20,0	101,9
WTRLL12G04	12	G1/2"	8,0	59,5	29,6	24,0	124,3

WTRLL-N

Long swivel male elbow NPT & UNF thread nickel plated



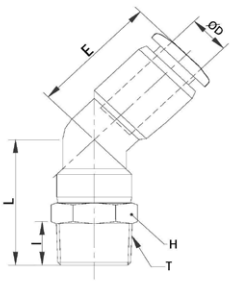


CODE	ØD	T	A	B	E	H	LB
WTRLL532UF1032	5/32	UNF 10-32	0,149	1,318	0,688	0,437	0,029
WTRLL532N01	5/32	N1/8"	0,295	1,417	0,688	0,437	0,031
WTRLL316N01	3/16	N1/8"	0,295	1,417	0,700	0,437	0,046
WTRLL316N02	3/16	N1/4"	0,413	1,555	0,700	0,562	0,061
WTRLL316N03	3/16	N3/8"	0,433	1,594	0,700	0,685	0,082
WTRLL1-4N01	1/4	N1/8"	0,295	1,562	0,748	0,5	0,048
WTRLL1-4N02	1/4	N1/4"	0,413	1,700	0,748	0,562	0,064
WTRLL1-4N03	1/4	N3/8"	0,433	1,740	0,748	0,685	0,086
WTRLL516N01	5/16	N1/8"	0,295	1,665	0,897	0,562	0,076
WTRLL516N02	5/16	N1/4"	0,413	1,783	0,897	0,562	0,073
WTRLL516N03	5/16	N3/8"	0,433	1,822	0,897	0,685	0,100
WTRLL38N02	3/8	N1/4"	0,413	2,047	1,035	0,685	0,137
WTRLL38N03	3/8	N3/8"	0,433	2,106	1,035	0,685	0,125
WTRLL38N04	3/8	N1/2"	0,551	2,244	1,035	0,874	0,192
WTRLL1-2N02	1/2	N1/4"	0,413	2,342	1,165	0,874	0,191
WTRLL1-2N03	1/2	N3/8"	0,433	2,362	1,165	0,874	0,222
WTRLL1-2N04	1/2	N1/2"	0,551	2,480	1,165	0,874	0,197

WTRLH-R

Swivel male elbow 45° BSPT thread nickel plated



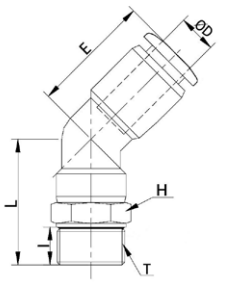


CODE	ØD	T	I	L	E	H	GR.
WTRLH04R01	4	R1/8"	7,0	22,2	16,2	10	8,0
WTRLH04R02	4	R1/4"	9,5	25,7	16,2	14	13,8
WTRLH06R01	6	R1/8"	7,0	23,9	17,7	12	11,0
WTRLH06R02	6	R1/4"	9,5	26,9	17,7	14	16,0
WTRLH06R03	6	R3/8"	10,5	28,4	17,7	17	22,2
WTRLH06R04	6	R1/2"	13,5	31,9	17,7	21	35,4
WTRLH08R01	8	R1/8"	7,0	27,1	20,9	14	17,3
WTRLH08R02	8	R1/4"	9,5	29,6	20,9	14	17,4
WTRLH08R03	8	R3/8"	10,5	31,1	20,9	17	25,0
WTRLH08R04	8	R1/2"	13,5	34,6	20,9	21	37,9
WTRLH10R01	10	R1/8"	7,0	29,7	22,2	17	30,0
WTRLH10R02	10	R1/4"	9,5	32,2	22,2	17	30,7
WTRLH10R03	10	R3/8"	10,5	33,2	22,2	17	30,1
WTRLH10R04	10	R1/2"	13,5	36,7	22,2	21	46,6
WTRLH12R02	12	R1/4"	9,5	35,2	26,3	21	42,6
WTRLH12R03	12	R3/8"	10,5	36,2	26,3	21	45,0
WTRLH12R04	12	R1/2"	13,5	39,2	26,3	21	49,5

WTRLH-G

Swivel male elbow 45° BSPP & metric thread nickel plated



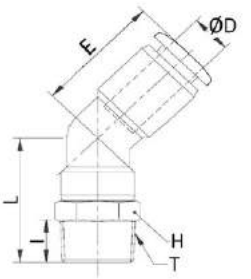


CODE	ØD	T	I	L	E	H	GR.
WTRLH04M5	4	M5X0,8	3,8	20,0	16,2	10	8,1
WTRLH04M6	4	M6X1	4,5	20,7	16,2	10	8,3
WTRLH04G01	4	G1/8"	5,0	22,7	16,2	14	11,7
WTRLH04G02	4	G1/4"	5,8	24,0	16,2	17	17,8
WTRLH06M5	6	M5X0,8	3,8	21,7	17,7	12	10,8
WTRLH06M6	6	M6X1	4,5	22,4	17,7	12	11,5
WTRLH06G01	6	G1/8"	5,0	23,9	17,7	14	14,2
WTRLH06G02	6	G1/4"	5,8	25,2	17,7	17	17,5
WTRLH06G03	6	G3/8"	6,8	26,7	17,7	20	24,0
WTRLH06G04	6	G1/2"	8,0	27,9	17,7	24	38,0
WTRLH08G01	8	G1/8"	5,0	26,6	20,9	14	17,2
WTRLH08G02	8	G1/4"	5,8	27,9	20,9	17	20,2
WTRLH08G03	8	G3/8"	6,8	29,4	20,9	20	26,3
WTRLH08G04	8	G1/2"	8,0	30,6	20,9	24	36,5
WTRLH10G01	10	G1/8"	5,0	29,2	22,2	17	30,6
WTRLH10G02	10	G1/4"	5,8	30,0	22,2	17	29,9
WTRLH10G03	10	G3/8"	6,8	31,5	22,2	20	34,0
WTRLH10G04	10	G1/2"	8,0	33,7	22,2	24	46,7
WTRLH12G02	12	G1/4"	5,8	33,5	26,3	21	42,4
WTRLH12G03	12	G3/8"	6,8	34,5	26,3	21	43,0
WTRLH12G04	12	G1/2"	8,0	36,2	26,3	24	50,3

WTRLH-N

Swivel male elbow 45° NPT & UNF thread nickel plated



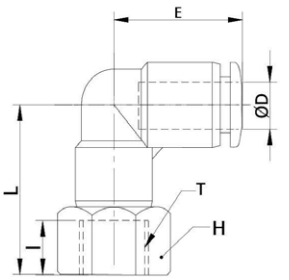


CODE	ØD	T	I	L	E	H	LB
WTRLH532UF1032	5/32	UNF 10-32	0,149	0,814	0,637	0,437	0,016
WTRLH532N01	5/32	N1/8"	0,295	0,893	0,637	0,437	0,017
WTRLH532N02	5/32	N1/4"	0,413	1,051	0,637	0,562	0,030
WTRLH316UF1032	3/16	UNF 10-32	0,149	0,814	0,649	0,437	0,023
WTRLH316N01	3/16	N1/8"	0,295	0,913	0,649	0,437	0,024
WTRLH316N02	3/16	N1/4"	0,413	1,051	0,649	0,562	0,033
WTRLH316N03	3/16	N3/8"	0,433	1,090	0,649	0,685	0,046
WTRLH1-4UF1032	1/4	UNF 10-32	0,149	0,909	0,696	0,5	0,023
WTRLH1-4N01	1/4	N1/8"	0,295	0,960	0,696	0,5	0,024
WTRLH1-4N02	1/4	N1/4"	0,413	1,097	0,696	0,562	0,035
WTRLH1-4N03	1/4	N3/8"	0,433	1,137	0,696	0,685	0,049
WTRLH516N01	5/16	N1/8"	0,295	0,295	0,822	0,562	0,038
WTRLH516N02	5/16	N1/4"	0,413	0,413	0,822	0,562	0,038
WTRLH516N03	5/16	N3/8"	0,433	0,433	0,822	0,685	0,055
WTRLH38N01	3/8	N1/8"	0,295	1,118	0,874	0,685	0,066
WTRLH38N02	3/8	N1/4"	0,413	1,307	0,874	0,685	0,067
WTRLH38N03	3/8	N3/8"	0,433	1,326	0,874	0,685	0,066
WTRLH38N04	3/8	N1/2"	0,551	1,464	0,874	0,874	0,102
WTRLH1-2N02	1/2	N1/4"	0,413	1,425	1,035	0,874	0,093
WTRLH1-2N03	1/2	N3/8"	0,433	1,444	1,035	0,874	0,99
WTRLH1-2N04	1/2	N1/2"	0,551	1,562	1,035	0,874	0,109

WTRLF-G

Swivel female elbow BSPP & metric thread nickel plated



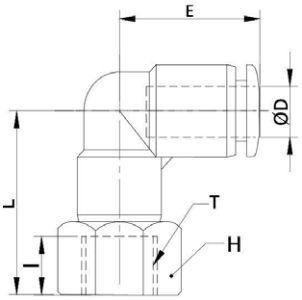


CODE	ØD	T	I	L	E	H	GR.
WTRLF04M5	4	M5X0,8	4,5	19,5	17,5	10,0	7,4
WTRLF04M6	4	M6X1	5,0	20,0	17,5	10,0	7,2
WTRLF04G01	4	G1/8"	7,0	23,0	17,5	14,0	13,9
WTRLF04G02	4	G1/4"	9,0	25,0	17,5	17,0	18,2
WTRLF06M5	6	M5X0,8	4,5	20,7	19,0	12,0	10,6
WTRLF06M6	6	M6X1	5,0	21,2	19,0	12,0	10,4
WTRLF06G01	6	G1/8"	7,0	24,4	19,0	14,0	16,4
WTRLF06G02	6	G1/4"	9,0	26,4	19,0	17,0	21,3
WTRLF06G03	6	G3/8"	10,0	27,7	19,0	19,0	30,0
WTRLF08G01	8	G1/8"	7,0	24,8	22,8	14,0	19,4
WTRLF08G02	8	G1/4"	9,0	27,0	22,8	17,0	24,1
WTRLF08G03	8	G3/8"	10,0	28,5	22,8	19,0	32,4
WTRLF08G04	8	G1/2"	12,0	30,5	22,8	24,0	41,6
WTRLF10G01	10	G1/8"	7,0	23,0	26,3	17,0	27,7
WTRLF10G02	10	G1/4"	9,0	29,5	26,3	17,0	33,8
WTRLF10G03	10	G3/8"	10,0	31,0	26,3	19,0	34,3
WTRLF10G04	10	G1/2"	12,0	33,5	26,3	24,0	51,2
WTRLF12G02	12	G1/4"	9,0	26,0	29,6	21,0	36,7
WTRLF12G03	12	G3/8"	10,0	34,0	29,6	21,0	49,2
WTRLF12G04	12	G1/2"	12,0	36,5	29,6	24,0	54,7

WTRLF-N

Swivel female elbow NPT thread nickel plated



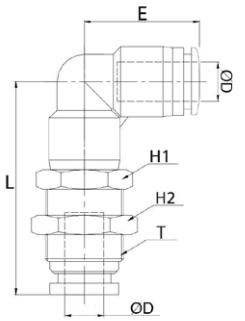


CODE	ØD	T	I	L	E	H	LB
WTRLF532N01	5/32	N1/8"	0,295	0,925	0,688	0,562	0,030
WTRLF316N01	3/16	N1/8"	0,295	0,937	0,700	0,562	0,034
WTRLF316N02	3/16	N1/4"	0,413	1,043	0,700	0,685	0,044
WTRLF1-4N01	1/4	N1/8"	0,295	0,980	0,748	0,562	0,036
WTRLF1-4N02	1/4	N1/4"	0,413	1,098	0,748	0,685	0,047
WTRLF516N01	5/16	N1/8"	0,295	0,984	0,897	0,562	0,042
WTRLF516N02	5/16	N1/4"	0,413	1,122	0,897	0,685	0,053
WTRLF516N03	5/16	N3/8"	0,433	1,161	0,897	0,874	0,071
WTRLF38N02	3/8	N1/4"	0,413	1,220	1,035	0,685	0,074
WTRLF38N03	3/8	N3/8"	0,433	1,240	1,035	0,874	0,075
WTRLF1-2N03	1/2	N3/8"	0,433	1,358	1,165	0,874	0,108
WTRLF1-2N04	1/2	N1/2"	0,551	1,476	1,165	1	0,120

WTRLM

Bulkhead elbow nickel plated



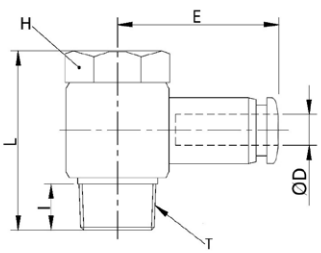


CODE	ØD	T	L	E	H1	H2	GR.
WTRLM04	4	M12X1	28,5	17,5	14	14	15,0
WTRLM06	6	M14X1	34,1	19,0	17	17	27,2
WTRLM08	8	M16X1	43,4	22,8	17	19	38,0
WTRLM10	10	M20X1	45,5	26,3	21	24	55,0
WTRLM12	12	M22X1	51,6	29,6	24	27	85,0

WTRH-R

Swivel male banjo elbow BSPT thread nickel plated



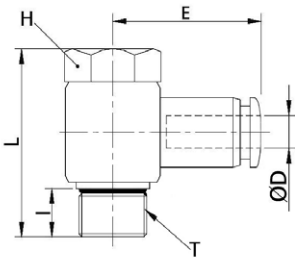


CODE	ØD	T	I	L	E	H	GR.
WTRH04R01	4	R1/8"	7,0	23,0	22,3	10	10,5
WTRH04R02	4	R1/4"	9,5	26,3	24,05	14	21,9
WTRH06R01	6	R1/8"	7,0	23,0	23,1	10	11,0
WTRH06R02	6	R1/4"	9,5	26,3	25,1	14	22,5
WTRH06R03	6	R3/8"	10,5	31,9	26,8	19	37,8
WTRH08R01	8	R1/8"	7,0	23,0	25,6	10	11,8
WTRH08R02	8	R1/4"	9,5	26,3	28,6	14	23,3
WTRH08R03	8	R3/8"	10,5	31,9	29,6	19	38,4
WTRH08R04	8	R1/2"	13,5	38,6	32,6	24	75,4
WTRH10R02	10	R1/4"	9,5	26,3	31,0	14	26,7
WTRH10R03	10	R3/8"	10,5	31,9	31,6	19	41,8
WTRH10R04	10	R1/2"	13,5	38,6	34,6	24	78,8
WTRH12R02	12	R1/4"	9,5	26,3	33,5	14	28,2
WTRH12R03	12	R3/8"	10,5	31,9	35,6	19	43,4
WTRH12R04	12	R1/2"	13,5	38,6	36,6	24	80,3

WTRH-G

Swivel male banjo elbow BSPP & metric thread nickel plated



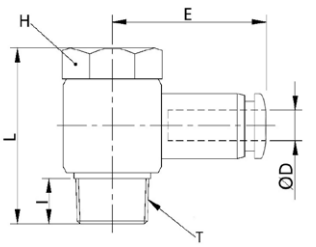


CODE	ØD	T	I	L	E	H	GR.
WTRH04M5	4	M5X0,8	4,0	18,0	20,0	8	6,6
WTRH04M6	4	M6X1	4,5	18,5	20,0	8	11,8
WTRH04G01	4	G1/8"	5,0	22,5	22,3	10	11,5
WTRH06M5	6	M5X0,8	4,0	18,0	21,9	8	7,2
WTRH06M6	6	M6X1	4,5	18,5	21,9	8	12,4
WTRH06G01	6	G1/8"	5,0	22,5	23,1	10	12,0
WTRH06G02	6	G1/4"	5,8	26,2	25,15	14	23,0
WTRH08G01	8	G1/8"	5,0	22,5	25,6	10	12,8
WTRH08G02	8	G1/4"	5,8	26,2	28,65	14	23,8
WTRH08G03	8	G3/8"	6,8	31,7	29,6	19	40,9
WTRH10G02	10	G1/4"	5,8	26,2	31,05	14	27,2
WTRH10G03	10	G3/8"	6,8	31,7	31,6	19	44,3
WTRH12G03	12	G3/8"	6,8	31,7	35,6	19	45,9
WTRH12G04	12	G1/2"	8,0	37,1	36,6	24	79,3

WTRH-N

Swivel male banjo elbow NPT & UNF thread nickel plated



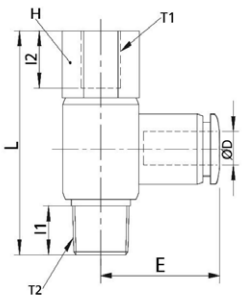


CODE	ØD	T	I	L	E	H	LB
WTRH532UF1032	5/32	UNF 10-32	0,149	0,700	0,787	0,314	0,022
WTRH532N01	5/32	N1/8"	0,295	0,925	0,877	0,437	0,023
WTRH316UF1032	3/16	UNF 10-32	0,149	0,700	0,799	0,314	0,023
WTRH316N01	3/16	N1/8"	0,295	0,925	0,889	0,437	0,024
WTRH316N02	3/16	N1/4"	0,413	1,074	0,956	0,562	0,049
WTRH1-4N01	1/4	N1/8"	0,295	0,295	0,909	0,437	0,024
WTRH1-4N02	1/4	N1/4"	0,413	1,074	0,988	0,562	0,049
WTRH516N01	5/16	N1/8"	0,295	0,925	1,007	0,437	0,026
WTRH516N02	5/16	N1/4"	0,413	1,074	1,125	0,562	0,051
WTRH516N03	5/16	N3/8"	0,433	1,275	1,165	0,748	0,084
WTRH38N02	3/8	N1/4"	0,413	1,074	1,220	0,562	0,058
WTRH38N03	3/8	N3/8"	0,433	1,275	1,244	0,748	0,092
WTRH1-2N03	1/2	N3/8"	0,433	1,275	1,401	0,748	0,095
WTRH1-2N04	1/2	N1/2"	0,551	1,539	1,440	1	0,177

WTRHF-R

Swivel female banjo elbow BSPT thread nickel plated



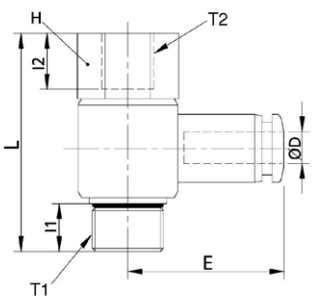


CODE	ØD	T1	T2	I1	I2	H	L	E	GR.
WTRHF04R01	4	G1/8"	R1/8"	7,0	7,0	14	29,0	22,3	16,4
WTRHF04R02	4	G1/4"	R1/4"	9,5	9,0	17	33,3	24,1	27,4
WTRHF06R01	6	G1/8"	R1/8"	7,0	7,0	14	29,0	23,1	17,0
WTRHF06R02	6	G1/4"	R1/4"	9,5	9,0	17	33,3	25,1	28,0
WTRHF06R03	6	G3/8"	R3/8"	10,5	10,0	19	39,9	26,8	44,8
WTRHF08R01	8	G1/8"	R1/8"	7,0	7,0	14	29,0	25,6	17,8
WTRHF08R02	8	G1/4"	R1/4"	9,5	9,0	17	33,3	28,6	28,8
WTRHF08R03	8	G3/8"	R3/8"	10,5	10,0	19	39,9	29,6	45,4
WTRHF08R04	8	G1/2"	R1/2"	13,5	12,0	24	46,5	32,6	71,9
WTRHF10R02	10	G1/4"	R1/4"	9,5	9,0	17	33,3	31,0	32,2
WTRHF10R03	10	G3/8"	R3/8"	10,5	10,0	19	39,9	31,6	48,8
WTRHF10R04	10	G1/2"	R1/2"	13,5	12,0	24	46,5	34,6	75,3
WTRHF12R02	12	G1/4"	R1/4"	9,5	9,0	17	33,3	33,5	33,7
WTRHF12R03	12	G3/8"	R3/8"	10,5	10,0	19	39,9	35,6	50,4
WTRHF12R04	12	G1/2"	R1/2"	13,5	12,0	24	46,5	36,6	76,8

WTRHF-G

Swivel female banjo elbow BSPP & metric thread nickel plated



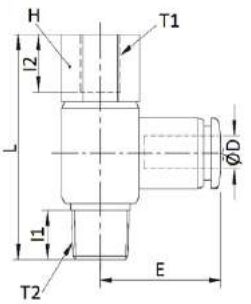


CODE	ØD	T1	T2	I1	I2	H	L	E	GR.
WTRHF04M5	4	M5X0,8	M5X0,8	4,0	5,5	10	20,5	20,0	8,3
WTRHF04M6	4	M6X1	M6X1	4,5	6,0	10	21,0	20,0	8,3
WTRHF04G01	4	G1/8"	G1/8"	5,5	7,0	14	30,0	22,3	18,4
WTRHF06M5	6	M5X0,8	M5X0,8	4,0	5,5	10	20,5	21,9	8,9
WTRHF06M6	6	M6X1	M6X1	4,5	6,0	10	21,0	21,9	8,9
WTRHF06G01	6	G1/8"	G1/8"	5,5	7,0	14	30,0	23,1	19,0
WTRHF06G02	6	G1/4"	G1/4"	6,5	9,0	17	33,7	25,1	30,5
WTRHF08G01	8	G1/8"	G1/8"	5,5	7,0	14	30,0	25,6	19,8
WTRHF08G02	8	G1/4"	G1/4"	6,5	9,0	17	33,7	28,6	31,3
WTRHF08G03	8	G3/8"	G3/8"	7,5	10,0	19	39,7	29,6	47,9
WTRHF10G02	10	G1/4"	G1/4"	6,5	9,0	17	33,7	31,1	34,7
WTRHF10G03	10	G3/8"	G3/8"	7,5	10,0	19	39,7	31,6	51,3
WTRHF12G03	12	G3/8"	G3/8"	7,5	10,0	19	39,7	35,6	52,9
WTRHF12G04	12	G1/2"	G1/2"	9,0	12,0	24	45,0	36,6	77,3

WTRHF-N

Swivel female banjo elbow NPT & UNF thread nickel plated



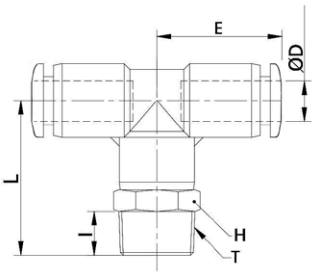


CODE	ØD	T1	T2	I1	I2	H	B	E	LB
WTRHF532UF1032	5/32	UNF 10-32	UNF 10-32	0,149	0,216	0,437	0,767	0,787	0,034
WTRHF532N01	5/32	N1/8"	N1/8"	0,295	0,295	0,562	1,181	0,877	0,036
WTRHF316UF1032	3/16	UNF 10-32	UNF 10-32	0,149	0,216	0,437	0,767	0,799	0,035
WTRHF316N01	3/16	N1/8"	N1/8"	0,295	0,295	0,562	1,181	0,889	0,037
WTRHF316N02	3/16	N1/4"	N1/4"	0,413	0,413	0,685	1,409	0,956	0,061
WTRHF1-4N01	1/4	N1/8"	N1/8"	0,295	0,295	0,562	1,181	0,909	0,037
WTRHF1-4N02	1/4	N1/4"	N1/4"	0,413	0,413	0,685	1,409	0,988	0,061
WTRHF516N01	5/16	N1/8"	N1/8"	0,295	0,295	0,562	1,181	1,007	0,039
WTRHF516N02	5/16	N1/4"	N1/4"	0,413	0,413	0,685	1,409	1,125	0,063
WTRHF516N03	5/16	N3/8"	N3/8"	0,433	0,433	0,874	1,610	1,165	0,100
WTRHF38N02	3/8	N1/4"	N1/4"	0,413	0,413	0,685	1,409	1,220	0,070
WTRHF38N03	3/8	N3/8"	N3/8"	0,433	0,433	0,874	1,610	1,244	0,107
WTRHF1-2N03	1/2	N3/8"	N3/8"	0,433	0,433	0,874	1,610	1,401	0,111
WTRHF1-2N04	1/2	N1/2"	N1/2"	0,551	0,551	1	1,929	1,440	0,170

WTRT-R

Swivel male central tee BSPT thread nickel plated



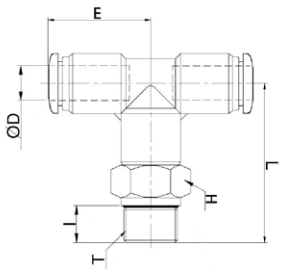


CODE	ØD	T	I	L	E	H	GR.
WTRT04R01	4	R1/8"	7,0	24,5	18,5	10	10,5
WTRT04R02	4	R1/4"	9,5	28,0	18,5	14	16,3
WTRT06R01	6	R1/8"	7,0	25,5	19,3	12	14,1
WTRT06R02	6	R1/4"	9,5	28,5	19,3	14	19,1
WTRT06R03	6	R3/8"	10,5	30,0	19,3	17	25,2
WTRT06R04	6	R1/2"	13,5	33,5	19,3	21	38,5
WTRT08R01	8	R1/8"	7,0	29,0	22,75	14	20,9
WTRT08R02	8	R1/4"	9,5	31,45	22,75	14	21,0
WTRT08R03	8	R3/8"	10,5	32,95	22,75	17	28,6
WTRT08R04	8	R1/2"	13,5	36,45	22,75	21	41,5
WTRT10R01	10	R1/8"	7,0	34,5	27,0	17	37,9
WTRT10R02	10	R1/4"	9,5	37,0	27,0	17	38,6
WTRT10R03	10	R3/8"	10,5	38,0	27,0	17	38,0
WTRT10R04	10	R1/2"	13,5	41,5	27,0	21	54,5
WTRT12R02	12	R1/4"	9,5	38,5	29,6	20	52,8
WTRT12R03	12	R3/8"	10,5	39,5	29,6	20	55,2
WTRT12R04	12	R1/2"	13,5	42,5	29,6	21	59,7
WTRT16R03	16	R3/8"	10,5	43,0	33,0	24	81,0
WTRT16R04	16	R1/2"	13,5	46,0	33,0	24	85,5

WTRT-G

Swivel male central tee BSPP & metric thread nickel plated



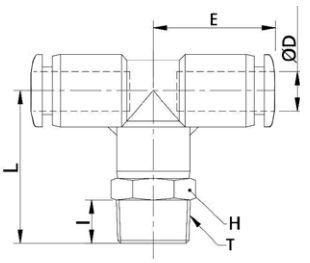


CODE	ØD	T	I	L	E	H	GR.
WTRT04M5	4	M5X0,8	3,8	22,3	18,5	10	10,6
WTRT04M6	4	M6X1	4,5	23,0	18,5	10	10,8
WTRT04G01	4	G1/8"	5,0	25,0	18,5	14	14,2
WTRT04G02	4	G1/4"	5,8	26,3	18,5	17	20,3
WTRT06M5	6	M5X0,8	3,8	23,3	19,3	12	13,9
WTRT06M6	6	M6X1	4,5	24,0	19,3	12	14,6
WTRT06G01	6	G1/8"	5,0	25,5	19,3	14	17,2
WTRT06G02	6	G1/4"	5,8	26,8	19,3	17	20,5
WTRT06G03	6	G3/8"	6,8	28,3	19,3	20	27,0
WTRT06G04	6	G1/2"	8,0	29,5	19,3	24	41,0
WTRT08G01	8	G1/8"	5,0	28,45	22,75	14	20,8
WTRT08G02	8	G1/4"	5,8	29,75	22,75	17	23,8
WTRT08G03	8	G3/8"	6,8	31,25	22,75	20	29,9
WTRT08G04	8	G1/2"	8,0	32,45	22,75	24	40,1
WTRT10G01	10	G1/8"	5,0	34,0	27,0	17	38,4
WTRT10G02	10	G1/4"	5,8	34,8	27,0	17	37,7
WTRT10G03	10	G3/8"	6,8	36,3	27,0	20	41,8
WTRT10G04	10	G1/2"	8,0	38,5	27,0	24	54,5
WTRT12G02	12	G1/4"	5,8	36,8	29,6	21	52,4
WTRT12G03	12	G3/8"	6,8	37,8	29,6	21	53,0
WTRT12G04	12	G1/2"	8,0	39,5	29,6	24	60,3
WTRT14G03	14	G3/8"	6,8	39,8	31,7	21	61,0
WTRT14G04	14	G1/2"	8,0	41,5	31,7	24	69,0
WTRT16G03	16	G3/8"	6,8	40,8	33,0	24	76,6
WTRT16G04	16	G1/2"	8,0	42,0	33,0	24	79,4

WTRT-N

Swivel male central tee NPT & UNF thread nickel plated



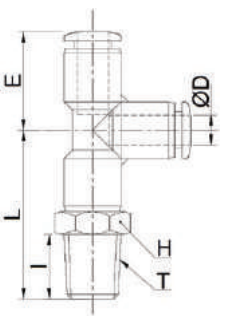


CODE	ØD	T	I	L	E	H	LB
WTRT532UF1032	5/32	UNF 10-32	0,149	0,905	0,728	0,437	0,022
WTRT532N01	5/32	N1/8"	0,295	0,984	0,728	0,437	0,023
WTRT532N02	5/32	N1/4"	0,413	1,141	0,728	0,562	0,036
WTRT316UF1032	3/16	UNF 10-32	0,149	0,905	0,740	0,437	0,028
WTRT316N01	3/16	N1/8"	0,295	1,003	0,740	0,437	0,029
WTRT316N02	3/16	N1/4"	0,413	1,141	0,740	0,562	0,040
WTRT316N03	3/16	N3/8"	0,433	1,181	0,740	0,685	0,052
WTRT1-4UF1032	1/4	UNF 10-32	0,149	0,972	0,759	0,5	0,029
WTRT1-4N01	1/4	N1/8"	0,295	1,023	0,759	0,5	0,031
WTRT1-4N02	1/4	N1/4"	0,413	1,161	0,759	0,562	0,042
WTRT1-4N03	1/4	N3/8"	0,433	1,200	0,759	0,685	0,055
WTRT516N01	5/16	N1/8"	0,295	1,159	0,895	0,562	0,046
WTRT516N02	5/16	N1/4"	0,413	1,277	0,895	0,562	0,046
WTRT516N03	5/16	N3/8"	0,433	1,316	0,895	0,685	0,063
WTRT38N01	3/8	N1/8"	0,295	1,377	1,062	0,685	0,083
WTRT38N02	3/8	N1/4"	0,413	1,496	1,062	0,685	0,085
WTRT38N03	3/8	N3/8"	0,433	1,515	1,062	0,685	0,083
WTRT38N04	3/8	N1/2"	0,551	1,653	1,062	0,874	0,120
WTRT1-2N02	1/2	N1/4"	0,413	1,555	1,165	0,874	0,116
WTRT1-2N03	1/2	N3/8"	0,433	1,574	1,165	0,874	0,121
WTRT1-2N04	1/2	N1/2"	0,551	1,692	1,165	0,874	0,131

WTRST-R

Swivel lateral male tee BSPT thread nickel plated



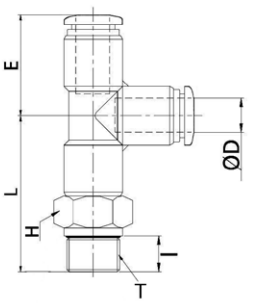


CODE	ØD	T	I	L	E	H	GR.
WTRST04R01	4	R1/8"	7,0	24,5	18,5	10	10,5
WTRST04R02	4	R1/4"	9,5	28,0	18,5	14	16,3
WTRST06R01	6	R1/8"	7,0	25,5	19,3	12	14,1
WTRST06R02	6	R1/4"	9,5	28,5	19,3	14	19,1
WTRST06R03	6	R3/8"	10,5	30,0	19,3	17	25,2
WTRST06R04	6	R1/2"	13,5	33,5	19,3	21	38,5
WTRST08R01	8	R1/8"	7,0	29,0	22,75	14	20,9
WTRST08R02	8	R1/4"	9,5	31,45	22,75	14	21,0
WTRST08R03	8	R3/8"	10,5	32,95	22,75	17	28,6
WTRST08R04	8	R1/2"	13,5	36,45	22,75	21	41,5
WTRST10R01	10	R1/8"	7,0	34,5	27,0	17	37,9
WTRST10R02	10	R1/4"	9,5	37,0	27,0	17	38,6
WTRST10R03	10	R3/8"	10,5	38,0	27,0	17	38,0
WTRST10R04	10	R1/2"	13,5	41,5	27,0	21	54,5
WTRST12R02	12	R1/4"	9,5	38,5	29,6	20	52,8
WTRST12R03	12	R3/8"	10,5	39,5	29,6	20	55,2
WTRST12R04	12	R1/2"	13,5	42,5	29,6	21	59,7

WTRST-G

Swivel male lateral tee BSPP & metric thread nickel plated



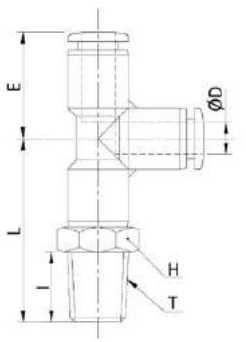


CODE	ØD	T	I	L	E	H	GR.
WTRST04M5	4	M5X0,8	3,8	22,3	18,5	10	10,6
WTRST04M6	4	M6X1	4,5	23,0	18,5	10	10,8
WTRST04G01	4	G1/8"	5,0	25,0	18,5	14	14,2
WTRST04G02	4	G1/4"	5,8	26,3	18,5	17	20,3
WTRST06M5	6	M5X0,8	3,8	23,3	19,3	12	13,9
WTRST06M6	6	M6X1	4,5	24,0	19,3	12	14,6
WTRST06G01	6	G1/8"	5,0	25,5	19,3	14	17,2
WTRST06G02	6	G1/4"	5,8	26,8	19,3	17	20,5
WTRST06G03	6	G3/8"	6,8	28,3	19,3	20	27,0
WTRST06G04	6	G1/2"	8,0	29,5	19,3	24	41,0
WTRST08G01	8	G1/8"	5,0	28,45	22,75	14	20,8
WTRST08G02	8	G1/4"	5,8	29,75	22,75	17	23,8
WTRST08G03	8	G3/8"	6,8	31,25	22,75	20	29,9
WTRST08G04	8	G1/2"	8,0	32,45	22,75	24	40,1
WTRST10G01	10	G1/8"	5,0	34,0	27,0	17	38,4
WTRST10G02	10	G1/4"	5,8	34,8	27,0	17	37,7
WTRST10G03	10	G3/8"	6,8	36,3	27,0	20	41,8
WTRST10G04	10	G1/2"	8,0	38,5	27,0	24	54,5
WTRST12G02	12	G1/4"	5,8	36,8	29,6	21	52,4
WTRST12R03	12	G3/8"	6,8	37,8	29,6	21	53,0
WTRST12G04	12	G1/2"	8,0	39,5	29,6	24	60,3

WTRST-N

Swivel lateral male tee NPT & UNF nickel plated



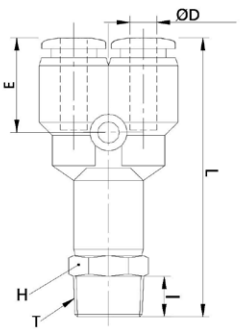


CODE	ØD	T	I	L	E	H	LB
WTRST532UF1032	5/32	UNF 10-32	0,149	0,905	0,728	0,437	0,022
WTRST532N01	5/32	N1/8"	0,295	0,984	0,728	0,437	0,023
WTRST532N02	5/32	N1/4"	0,413	1,141	0,728	0,562	0,036
WTRST316UF1032	3/16	UNF 10-32	0,149	0,905	0,740	0,437	0,029
WTRST316N01	3/16	N1/8"	0,295	1,003	0,740	0,437	0,031
WTRST316N02	3/16	N1/4"	0,413	1,141	0,740	0,562	0,040
WTRST316N03	3/16	N3/8"	0,433	1,181	0,740	0,685	0,052
WTRST1-4UF1032	1/4	UNF 10-32	0,149	0,972	0,759	0,5	0,031
WTRST1-4N01	1/4	N1/8"	0,295	1,023	0,759	0,5	0,032
WTRST1-4N02	1/4	N1/4"	0,413	1,161	0,759	0,562	0,042
WTRST1-4N03	1/4	N3/8"	0,433	1,200	0,759	0,685	0,055
WTRST516N01	5/16	N1/8"	0,295	1,159	0,895	0,562	0,046
WTRST516N02	5/16	N1/4"	0,413	1,277	0,895	0,562	0,046
WTRST516N03	5/16	N3/8"	0,433	1,316	0,895	0,685	0,063
WTRST38N01	3/8	N1/8"	0,295	1,377	1,062	0,685	0,083
WTRST38N02	3/8	N1/4"	0,413	1,496	1,062	0,685	0,085
WTRST38N03	3/8	N3/8"	0,433	1,515	1,062	0,685	0,083
WTRST38N04	3/8	N1/2"	0,551	1,653	1,062	0,874	0,120
WTRST1-2N02	1/2	N1/4"	0,413	1,555	1,165	0,874	0,116
WTRST1-2N03	1/2	N3/8"	0,433	1,574	1,165	0,874	0,121
WTRST1-2N04	1/2	N1/2"	0,551	1,692	1,165	0,874	0,131

WTRWT-R

Swivel male Y BSPT thread nickel plated



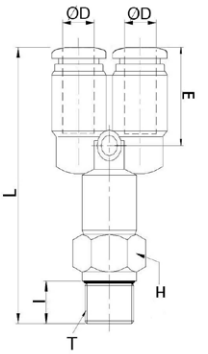


CODE	ØD	T	I	L	E	H	GR.
WTRWT04R01	4	R1/8"	7,0	41,5	14,0	10	10,7
WTRWT04R02	4	R1/4"	9,5	45,0	14,0	14	16,6
WTRWT06R01	6	R1/8"	7,0	43,3	14,8	12	14,6
WTRWT06R02	6	R1/4"	9,5	46,3	14,8	14	19,6
WTRWT06R03	6	R3/8"	10,5	47,8	14,8	17	25,8
WTRWT06R04	6	R1/2"	13,5	51,3	14,8	21	39,0
WTRWT08R01	8	R1/8"	7,0	46,6	18,2	14	21,0
WTRWT08R02	8	R1/4"	9,5	49,1	18,2	14	21,1
WTRWT08R03	8	R3/8"	10,5	50,6	18,2	17	28,7
WTRWT08R04	8	R1/2"	13,5	54,1	18,2	21	41,6
WTRWT10R01	10	R1/8"	7,0	54,6	19,5	17	38,3
WTRWT10R02	10	R1/4"	9,5	57,1	19,5	17	39,0
WTRWT10R03	10	R3/8"	10,5	58,1	19,5	17	38,4
WTRWT10R04	10	R1/2"	13,5	61,6	19,5	21	54,9
WTRWT12R02	12	R1/4"	9,5	62,1	21,6	21	53,6
WTRWT12R03	12	R3/8"	10,5	63,1	21,6	21	46,0
WTRWT12R04	12	R1/2"	13,5	66,1	21,6	21	60,5

WTRWT-G

Swivel male Y BSPP & metric thread nickel plated



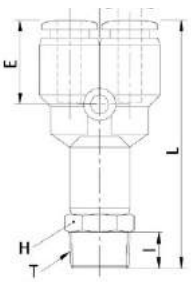


CODE	ØD	T	I	L	E	H	GR.
WTRWT04M5	4	M5X0,8	4,0	18,0	14,0	10	10,8
WTRWT04M6	4	M6X1	4,5	18,5	14,0	10	11,0
WTRWT04G01	4	G1/8"	5,0	42,0	14,0	14	14,5
WTRWT04G02	4	G1/4"	5,8	43,3	14,0	17	20,6
WTRWT06M5	6	M5X0,8	4,0	41,1	14,8	12	14,5
WTRWT06M6	6	M6X1	4,5	41,8	14,8	12	15,1
WTRWT06G01	6	G1/8"	5,0	43,3	14,8	14	17,7
WTRWT06G02	6	G1/4"	5,8	44,6	14,8	17	21,0
WTRWT06G03	6	G3/8"	6,8	46,1	14,8	20	27,5
WTRWT06G04	6	G1/2"	8,0	47,3	14,8	24	41,5
WTRWT08G01	8	G1/8"	5,0	46,1	18,2	14	20,9
WTRWT08G02	8	G1/4"	5,8	47,4	18,2	17	23,9
WTRWT08G03	8	G3/8"	6,8	48,9	18,2	20	30,0
WTRWT08G04	8	G1/2"	8,0	50,1	18,2	24	40,2
WTRWT10G01	10	G1/8"	5,0	54,1	19,5	17	38,8
WTRWT10G02	10	G1/4"	5,8	54,9	19,5	17	38,1
WTRWT10G03	10	G3/8"	6,8	56,4	19,5	20	42,2
WTRWT10G04	10	G1/2"	8,0	58,6	19,5	24	54,9
WTRWT12G02	12	G1/4"	5,8	60,4	21,6	21	53,2
WTRWT12G03	12	G3/8"	6,8	61,4	21,6	21	53,8
WTRWT12G04	12	G1/2"	8,0	63,1	21,6	24	61,1

WTRWT-N

Swivel male Y NPT & UNF thread nickel plated



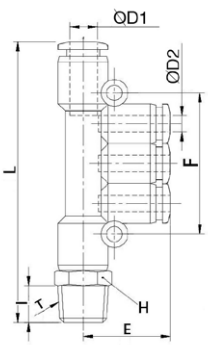


CODE	ØD	T	I	L	E	H	LB
WTRWT532UF1032	5/32	UNF 10-32	0,149	1,574	0,551	0,437	0,022
WTRWT532N01	5/32	N1/8"	0,295	1,653	0,551	0,437	0,023
WTRWT532N02	5/32	N1/4"	0,413	1,811	0,551	0,562	0,036
WTRWT316UF1032	3/16	UNF 10-32	0,149	1,586	0,562	0,437	0,030
WTRWT316N01	3/16	N1/8"	0,295	0,593	0,562	0,437	0,032
WTRWT316N02	3/16	N1/4"	0,413	1,822	0,562	0,562	0,041
WTRWT316N03	3/16	N3/8"	0,433	1,862	0,562	0,685	0,054
WTRWT1-4UF1032	1/4	UNF 10-32	0,149	1,673	0,582	0,5	0,031
WTRWT1-4N01	1/4	N1/8"	0,295	1,724	0,582	0,5	0,032
WTRWT1-4N02	1/4	N1/4"	0,413	1,862	0,582	0,562	0,043
WTRWT1-4N03	1/4	N3/8"	0,433	1,901	0,582	0,685	0,056
WTRWT516N01	5/16	N1/8"	0,295	1,854	0,716	0,562	0,046
WTRWT516N02	5/16	N1/4"	0,413	1,972	0,716	0,562	0,046
WTRWT516N03	5/16	N3/8"	0,433	2,011	0,716	0,685	0,063
WTRWT38N01	3/8	N1/8"	0,295	2,169	0,767	0,685	0,084
WTRWT38N02	3/8	N1/4"	0,413	2,287	0,767	0,685	0,085
WTRWT38N03	3/8	N3/8"	0,433	2,307	0,767	0,685	0,084
WTRWT38N04	3/8	N1/2"	0,551	2,444	0,767	0,874	0,121
WTRWT1-2N02	1/2	N1/4"	0,413	2,484	0,850	0,874	0,118
WTRWT1-2N03	1/2	N3/8"	0,433	2,503	0,850	0,874	0,101
WTRWT1-2N04	1/2	N1/2"	0,551	2,622	0,850	0,874	0,133

WTRKD-R

Swivel multi-tee lateral male connector BSPT thread nickel plated



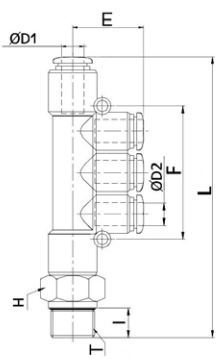


CODE	ØD1	ØD2	T	E	F	L	I	H	GR.
WTRKD0604R01	6	4	R1/8"	19,0	36	63,8	7,0	12	17,4
WTRKD0804R02	8	4	R1/4"	20,0	42	71,3	9,5	14	23,1
WTRKD0806R02	8	6	R1/4"	20,3	42	71,3	9,5	14	24,2
WTRKD1008R03	10	8	R3/8"	24,3	48	91,0	10,5	17	40,2

WTRKD-G

Swivel multi-tee lateral male connector BSPP thread nickel plated



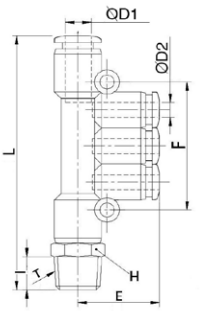


CODE	ØD1	ØD2	T	E	F	L	I	H	GR.
WTRKD0604G01	6	4	G1/8"	19,0	36	63,8	5,0	14	20,5
WTRKD0804G02	8	4	G1/4"	20,0	42	69,6	5,8	17	26,0
WTRKD0806G02	8	6	G1/4"	20,3	42	69,6	5,8	17	27,0
WTRKD1008G03	10	8	G3/8"	24,3	48	89,3	6,8	20	44,0

WTRKD-N

Swivel multi-tee lateral male connector NPT thread nickel plated



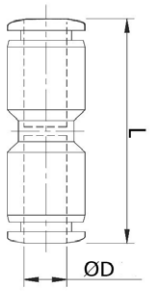


CODE	ØD1	ØD2	H	T	E	F	L	I	LB
WTRKD316-532N01	3/16	5/32	0,437	N1/8"	0,748	1,417	2,531	0,295	0,036
WTRKD1-4-532N01	1/4	5/32	0,5	N1/8"	0,748	1,417	2,531	0,295	0,048
WTRKD516-532N02	5/16	5/32	0,562	N1/4"	0,787	1,653	2,846	0,413	0,050
WTRKD516-316N02	5/16	3/16	0,562	N1/4"	0,799	1,653	2,846	0,413	0,050
WTRKD516-1-4N02	5/16	1/4	0,562	N1/4"	0,799	1,653	2,846	0,413	0,053
WTRKD38-516N03	3/8	5/16	0,685	N3/8"	0,956	1,889	3,602	0,433	0,088

WTRUC

Union connector



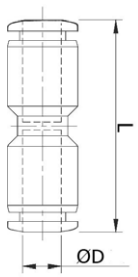


CODE	ØD	L	GR.
WTRUC0400	4	33,0	4,2
WTRUC0500	5	35,2	5,0
WTRUC0600	6	35,2	5,2
WTRUC0700	7	39,1	7,0
WTRUC0800	8	39,1	6,8
WTRUC0900	9	45,2	14,0
WTRUC1000	10	45,2	14,0
WTRUC1100	11	49,2	17,0
WTRUC1200	12	49,2	16,4
WTRUC1400	14	48,4	18,0
WTRUC1500	15	51,0	25,0
WTRUC1600	16	51,0	24,5

WTRUC-N

Union connector



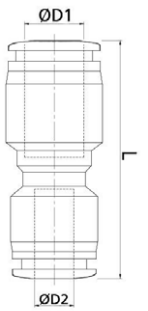


CODE	ØD	L	LB
WTRUC532	5/32	1,299	0,009
WTRUC316	3/16	1,322	0,010
WTRUC1-4	1/4	1,385	0,011
WTRUC516	5/16	1,539	0,014
WTRUC38	3/8	1,779	0,030
WTRUC1-2	1/2	1,937	0,036

WTRG

Reduced union connector



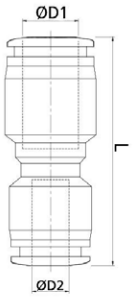


CODE	ØD1	ØD2	L	GR.
WTRG0604	6	4	33,6	5,2
WTRG0805	8	5	35,5	6,0
WTRG0806	8	6	36,1	6,8
WTRG1007	10	7	41,8	10,0
WTRG1008	10	8	41,8	12,7
WTRG1207	12	7	46,9	13,0
WTRG1208	12	8	46,9	14,1
WTRG1210	12	10	46,1	16,6
WTRG1410	14	10	46,7	17,0
WTRG1412	14	12	48,3	17,0
WTRG1610	16	10	48,5	24,3
WTRG1612	16	12	50,1	26,0
WTRG1614	16	14	50	28,0

WTRG-N

Reduced union connector



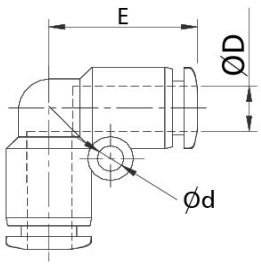


CODE	ØD1	ØD2	L	LB
WTRG316-532	3/16	5/32	1,311	0,014
WTRG1-4-532	1/4	5/32	1,374	0,010
WTRG1-4-316	1/4	3/16	1,385	0,011
WTRG516-1-4	5/16	1/4	1,519	0,014
WTRG38-516	3/8	5/16	1,862	0,027
WTRG1-2-38	1/2	3/8	1,925	0,036

WTRUL

Union elbow



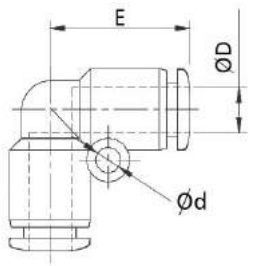


CODE	ØD	ØD	E	GR.
WTRUL0400	4	3,2	17,5	4,2
WTRUL0600	6	3,2	19,0	5,5
WTRUL0800	8	3,2	22,8	7,3
WTRUL1000	10	4,2	26,3	14,3
WTRUL1200	12	4,3	29,6	18,2
WTRUL1400	14	5,1	31,7	23,0
WTRUL1600	16	5,1	33,0	27,0

WTRUL-N

Union elbow



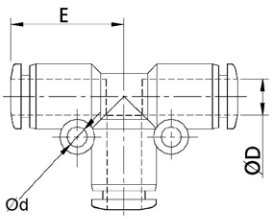


CODE	ØD	Ød	E	LB
WTRUL532	5/32	0,125	0,688	0,009
WTRUL316	3/16	0,125	0,700	0,011
WTRUL1-4	1/4	0,125	0,748	0,012
WTRUL516	5/16	0,125	0,897	0,016
WTRUL38	3/8	0,165	1,035	0,031
WTRUL1-2	1/2	0,169	1,165	0,040

WTRUT

Union tee



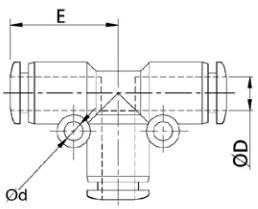


CODE	ØD	Ød	E	GR.
WTRUT0400	4	3,2	18,5	6,5
WTRUT0600	6	3,2	19,3	8,1
WTRUT0800	8	3,2	22,75	10,6
WTRUT1000	10	4,2	27,0	21,4
WTRUT1200	12	4,3	29,6	26,7
WTRUT1400	14	5,1	31,7	31,0
WTRUT1600	16	5,1	33,0	39,7

WTRUT-N

Union tee



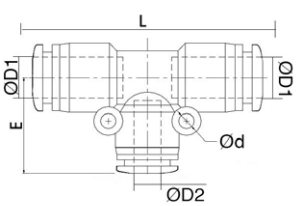


CODE	ØD	Ød	E	LB
WTRUT532	5/32	0,125	0,728	0,014
WTRUT316	3/16	0,125	0,740	0,016
WTRUT1-4	1/4	0,125	0,759	0,017
WTRUT516	5/16	0,125	0,895	0,023
WTRUT38	3/8	0,165	1,062	0,047
WTRUT1-2	1/2	0,169	1,165	0,058

WTRGT

Reduced union tee



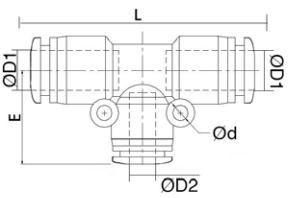


CODE	ØD1	ØD2	Ød	E	L	GR.
WTRGT0604	6	4	3,2	19,5	38,6	8,1
WTRGT0806	8	6	3,2	20,3	45,5	10,6
WTRGT1008	10	8	4,2	24,8	54,0	20,2
WTRGT1210	12	10	4,2	28,5	59,2	26,9
WTRGT1612	16	12	5,1	32,1	66,0	41,9

WTRGT-N

Reduced union tee



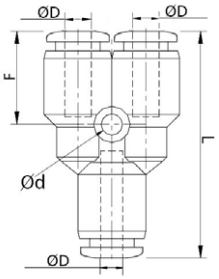


CODE	ØD1	ØD2	ØD	L	E	LB
WTRGT1-4-532	1/4	5/32	0,125	1,518	0,748	0,016
WTRGT516-1-4	5/16	1/4	0,125	1,79	0,877	0,023
WTRGT38-516	3/8	5/16	0,125	2,124	1,094	0,044
WTRGT1-2-38	1/2	3/8	0,165	2,33	1,153	0,059

WTRY

Union Y



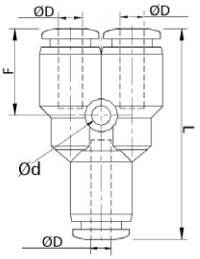


CODE	ØD	Ød	L	F	GR.
WTRY0400	4	3,2	35,5	14,0	6,8
WTRY0600	6	3,2	37,1	14,8	8,6
WTRY0800	8	3,2	40,4	18,2	10,7
WTRY1000	10	4,2	47,1	19,5	21,8
WTRY1200	12	4,2	53,2	21,6	27,5
WTRY1600	16	5,1	61,0	23,5	33,5

WTRY-N

Union Y



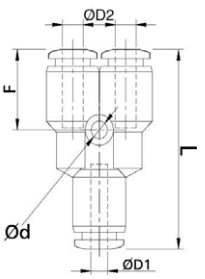


CODE	ØD	Ød	L	F	LB
WTRY532	5/32	0,125	1,397	0,551	0,014
WTRY316	3/16	0,125	1,421	0,562	0,018
WTRY1-4	1/4	0,125	1,460	0,582	0,019
WTRY516	5/16	0,125	1,590	0,716	0,023
WTRY38	3/8	0,165	1,854	0,767	0,048
WTRY1-2	1/2	0,165	2,094	0,850	0,060

WTRW

Reduced union Y



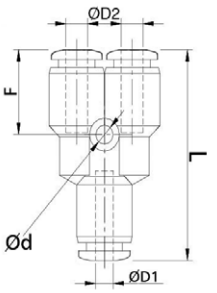


CODE	ØD1	ØD2	Ød	L	F	GR.
WTRW0604	6	4	3,2	36,8	14,5	9,2
WTRW0806	8	6	3,2	39,9	17,7	11,4
WTRW1008	10	8	4,2	47,9	20,3	21,8
WTRW1210	12	10	4,2	51,6	20,0	29,3

WTRW-N

Reduced union Y



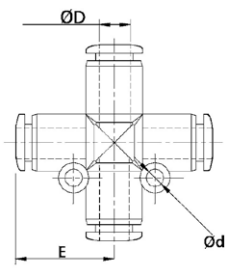


CODE	ØD1	ØD2	Ød	L	F	LB
WTRW316-532	3/16	5/32	0,125	1,409	0,551	0,019
WTRW1-4-532	1/4	5/32	0,125	1,448	0,570	0,020
WTRW1-4-316	1/4	3/16	0,125	1,460	0,582	0,021
WTRW516-1-4	5/16	1/4	0,125	1,570	0,696	0,025
WTRW38-516	3/8	5/16	0,165	1,885	0,799	0,048
WTRW1-2-38	1/2	3/8	0,165	2,031	0,787	0,064

WTRZA

Union cross



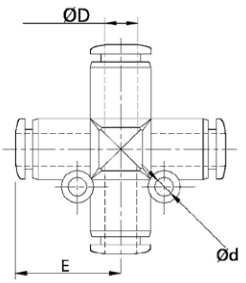


CODE	ØD	Ød	E	GR.
WTRZA0400	4	3,2	17,5	8,0
WTRZA0600	6	3,2	19,3	10,2
WTRZA0800	8	3,2	22,75	13,6
WTRZA1000	10	4,2	27,0	28,2
WTRZA1200	12	4,3	29,6	34,2

WTRZA-N

Union cross



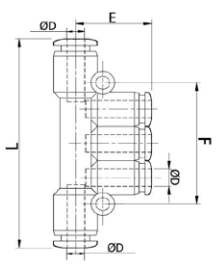


CODE	ØD	Ød	E	LB
WTRZA532	5/32	0,125	0,688	0,017
WTRZA316	3/16	0,125	0,700	0,021
WTRZA1-4	1/4	0,125	0,759	0,022
WTRZA516	5/16	0,125	0,895	0,029
WTRZA38	3/8	0,165	1,062	0,062
WTRZA1-2	1/2	0,169	1,165	0,075

WTRK

Union multi tee



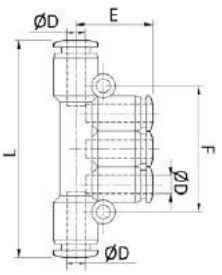


CODE	ØD	F	E	L	GR.
WTRK04	4	36	19	57,0	13,0
WTRK06	6	42	20,3	61,6	17,0
WTRK08	8	48	24,3	81,6	22,0

WTRK-N

Union multi tee



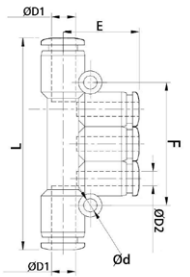


CODE	ØD	F	E	L	LB
WTRK532	5/32	1,417	0,748	2,244	0,028
WTRK316	3/16	1,417	0,759	2,267	0,035
WTRK1-4	1/4	1,653	0,799	2,425	0,037
WTRK516	5/16	1,889	0,956	3,173	0,048

WTRKG

Reduced union multi tee



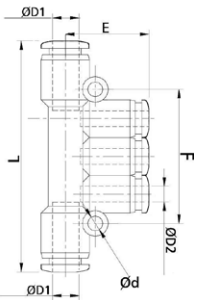


CODE	ØD1	ØD2	ØD	E	F	L	GR.
WTRKG0604	6	4	3,2	19,0	36	57,6	13,0
WTRKG0804	8	4	3,2	20,0	42	62,6	16,0
WTRKG0806	8	6	3,2	20,3	42	62,6	16,6
WTRKG1006	10	6	4,2	23,8	48	80,0	28,0
WTRKG1008	10	8	4,2	24,3	48	80,0	30,8

WTRKG-N

Reduced union multi tee



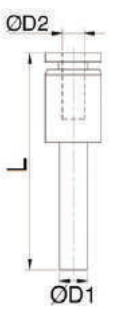


CODE	ØD1	ØD2	E	F	L	LB
WTRKG316-532	3/16	5/32	0,748	1,417	2,267	0,027
WTRKG1-4-532	1/4	5/32	0,748	1,417	2,267	0,028
WTRKG516-532	5/16	5/32	0,787	1,653	2,464	0,035
WTRKG516-1-4	5/16	1/4	0,799	1,653	2,464	0,036
WTRKG38-1-4	3/8	1/4	0,937	1,889	3,149	0,061
WTRKG38-516	3/8	5/16	0,956	1,889	3,149	0,067

WTRGJ

Reducer



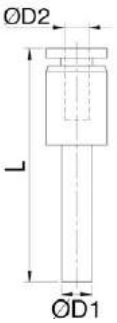


CODE	ØD1	ØD2	L	GR.
WTRGJ0604	6	4	39,5	1,4
WTRGJ0804	8	4	41,5	2,7
WTRGJ0806	8	6	41,8	2,0
WTRGJ1006	10	6	46,8	3,8
WTRGJ1008	10	8	47,3	2,8
WTRGJ1206	12	6	51,8	7,7
WTRGJ1208	12	8	52,3	6,4
WTRGJ1210	12	10	51,5	4,2

WTRGJ-N

Reducer



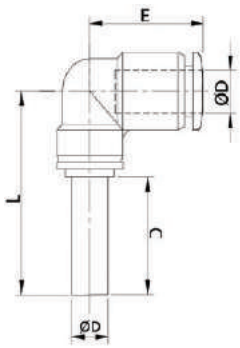


CODE	ØD1	ØD2	L	IB
WTRGJ1-4-532	1/4	5/32	1,555	0,003
WTRGJ516-532	5/16	5/32	1,633	0,005
WTRGJ516-1-4	5/16	1/4	1,645	0,004
WTRGJ38-1-4	3/8	1/4	1,830	0,008
WTRGJ38-516	3/8	5/16	1,830	0,006
WTRGJ1-2-1-4	1/2	1/4	2,039	0,016
WTRGJ1-2-516	1/2	5/16	2,059	0,014
WTRGJ1-2-38	1/2	3/8	2,027	0,009

WTRLJ

Elbow with stem



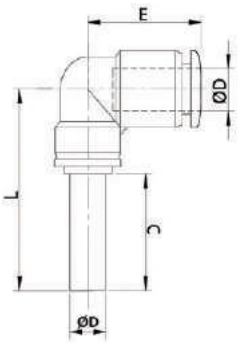


CODE	ØD	C	E	L	GR.
WTRLJ0400	4	16,0	17,5	33,0	6,5
WTRLJ0600	6	18,0	19,0	36,2	8,1
WTRLJ0800	8	21,0	22,8	40,0	10,6
WTRLJ1000	10	24,0	26,3	46,5	21,4
WTRLJ1200	12	26,0	29,6	51,5	26,7

WTRLJ-N

Elbow with stem



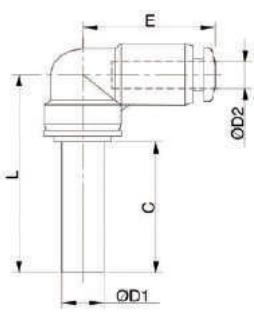


CODE	ØD	L	E	LB
WTRLJ532	5/32	1,299	0,688	0,014
WTRLJ316	3/16	1,299	0,700	0,016
WTRLJ1-4	1/4	1,425	0,748	0,017
WTRLJ516	5/16	1,673	0,897	0,023
WTRLJ38	3/8	2	1,035	0,047
WTRLJ1-2	1/2	2,145	1,165	0,058

WTRLGJ

Reduced elbow with stem



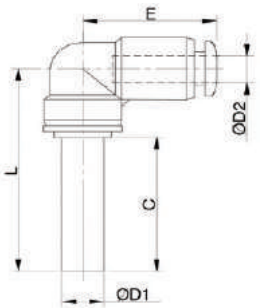


CODE	ØD1	ØD2	E	C	L	GR.
WTRLGJ0604	6	4	17,5	18,0	35,0	8,7
WTRLGJ0806	8	6	19,0	21,0	39,2	13,7
WTRLGJ1008	10	8	22,8	24,0	44,0	19,4
WTRLGJ1210	12	10	26,3	26,0	48,5	34,6

WTRLGJ-N

Reduced elbow with stem



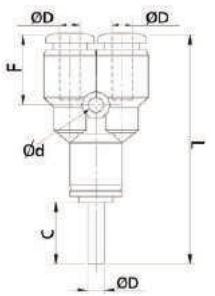


CODE	ØD1	ØD2	L	E	LB
WTRLGJ316-532	3/16	5/32	1,299	0,688	0,018
WTRLGJ1-4-532	1/4	5/32	1,377	0,688	0,019
WTRLGJ1-4-316	1/4	3/16	1,377	0,688	0,020
WTRLGJ516-1-4	5/16	1/4	1,543	0,748	0,030
WTRLGJ38-516	3/8	5/16	1,673	0,897	0,042
WTRLGJ1-2-38	1/2	3/8	2,078	1,035	0,076

WTRYJ

Union Y with stem



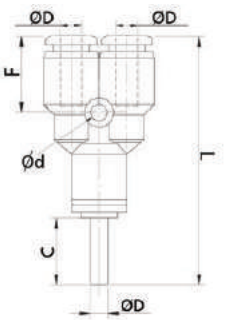


CODE	ØD	Ød	L	F	C	GR.
WTRYJ0400	4	3,2	51,0	14,0	16,0	10,2
WTRYJ0600	6	3,2	54,3	14,8	18,0	14,4
WTRYJ0800	8	3,2	60,1	18,2	21,0	20,4
WTRYJ1000	10	4,2	71,6	19,5	24,0	38,1
WTRYJ1200	12	4,2	78,1	21,6	26,0	49,9

WTRYJ-N

Union Y with stem



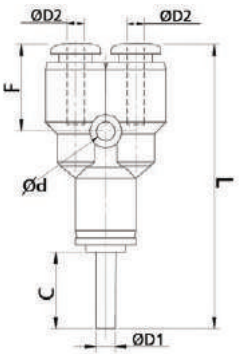


CODE	ØD	ØD	L	F	LB
WTRYJ532	5/32	0,125	2,007	0,551	0,022
WTRYJ316	3/16	0,125	2,019	0,562	0,030
WTRYJ1-4	1/4	0,125	2,137	0,582	0,031
WTRYJ516	5/16	0,125	2,366	0,716	0,044
WTRYJ38	3/8	0,165	2,818	0,767	0,083
WTRYJ1-2	1/2	0,165	3,074	0,850	0,11

WTRWJ

Reduced union Y with stem



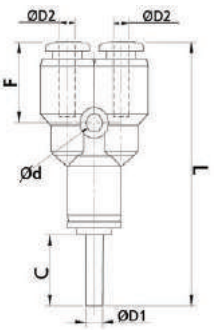


CODE	ØD1	ØD2	Ød	L	F	C	GR.
WTRWJ0604	6	4	3,2	53,0	14,0	18,0	14,5
WTRWJ0806	8	6	3,2	57,3	14,8	21,0	20,4
WTRWJ1008	10	8	4,2	64,1	18,2	24,0	35,5
WTRWJ1210	12	10	4,2	73,6	19,5	26,0	50,5

WTRWJ-N

Reduced union Y with stem



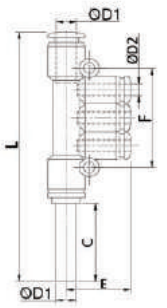


CODE	ØD1	ØD2	ØD	L	F	LB
WTRWJ1-4-532	1/4	5/32	0,125	2,086	0,551	0,031
WTRWJ516-1-4	5/16	1/4	0,125	2,255	0,582	0,044
WTRWJ38-516	3/8	5/16	0,165	2,523	0,716	0,078
WTRWJ1-2-38	1/2	3/8	0,165	2,897	0,767	0,111

WTRKJ

Multi-tee union with lateral stem



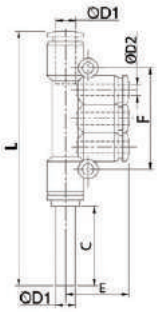


CODE	ØD1	ØD2	E	F	C	L	GR.
WTRKJ0604	6	4	19,0	36	18	74,8	4,2
WTRKJ0804	8	4	20,0	42	21	82,3	5,5
WTRKJ0806	8	6	20,3	42	21	82,3	7,3
WTRKJ1006	10	6	23,8	48	24	104,5	14,3
WTRKJ1008	10	8	24,3	48	24	104,5	18,2

WTRKJ-N

Multi-tee union with lateral stem



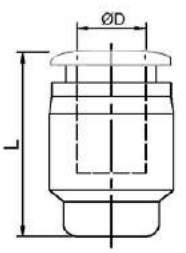


CODE	ØD1	ØD2	E	F	L	LB
WTRKJ316-532	3/16	5/32	0,748	1,417	2,866	0,008
WTRKJ1-4-532	1/4	5/32	0,748	1,417	2,944	0,009
WTRKJ516-532	5/16	5/32	0,787	1,653	3,240	0,012
WTRKJ516-1-4	5/16	1/4	0,799	1,653	3,240	0,016
WTRKJ38-1-4	3/8	1/4	0,937	1,889	4,114	0,031
WTRKJ38-516	3/8	5/16	0,956	1,889	4,115	0,040

WTRPF

Female plug





CODE	ØD	L	GR.
WTRPF04	4	17,5	2,6
WTRPF05	5	17,5	3,1
WTRPF06	6	17,5	3,7
WTRPF07	7	20,8	3,8
WTRPF08	8	20,8	4,2
WTRPF10	10	25,3	5,5
WTRPF12	12	25,6	9,3
WTRPF14	14	25,7	12,4
WTRPF15	15	27,0	15,3
WTRPF16	16	27,0	17,1

WTRIJ

Junction





CODE	ØD	L	GR.
WTRIJ04	4	35	0,4
WTRIJ06	6	37	0,8
WTRIJ08	8	41	1,2
WTRIJ10	10	51	2,7
WTRIJ12	12	54	3,5
WTRIJ16	16	58	5,3

WTRIJ-N

Junction



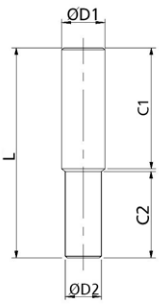


CODE	ØD	L	LB
WTRIJ532	5/32	1,377	0,0008
WTRIJ316	3/16	1,377	0,016
WTRIJ1-4	1/4	1,456	0,001
WTRIJ516	5/16	1,614	0,002
WTRIJ38	3/8	2,007	0,005
WTRIJ1-2	1/2	2,125	0,007

WTRIG

Reduced junction



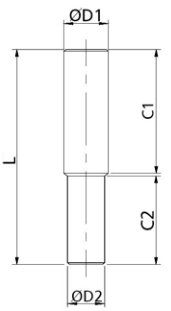


CODE	ØD1	ØD2	C1	C2	L	GR.
WTRIG0604	6	4	18	17	36	0,6
WTRIG0806	8	6	20	18	39	1,0
WTRIG1008	10	8	25	20	46	1,9
WTRIG1210	12	10	27	26	54	3,2
WTRIG1612	16	12	28	28	56	4,8

WTRIG-N

Reduced junction



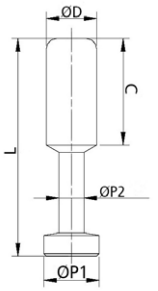


CODE	ØD1	ØD2	C1	C2	L	LB
WTRIG316-532	3/16	5/32	0,708	0,669	1,417	0,001
WTRIG1-4-532	1/4	5/32	0,708	0,669	1,417	0,001
WTRIG1-4-316	1/4	3/16	0,708	0,669	1,417	0,001
WTRIG516-1-4	5/16	1/4	0,787	0,708	1,535	0,002
WTRIG38-516	3/8	5/16	0,984	0,787	1,811	0,004
WTRIG1-2-38	1/2	3/8	1,062	1,023	2,125	0,007

WTRP

Male plug



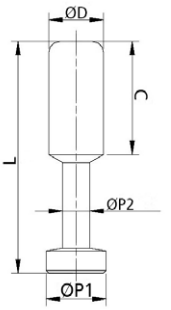


CODE	ØD	L	ØP1	ØP2	C	GR.
WTRP04	4	28	5,0	3,0	15,0	0,4
WTRP06	6	33	7,0	3,0	17,0	0,8
WTRP08	8	37	9,0	4,0	18,0	1,3
WTRP10	10	42	11,0	5,0	20,5	2,2
WTRP12	12	44	13,0	6,0	23,0	3,1

WTRP-N

Male plug



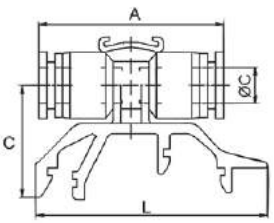


CODE	ØD	L	ØP1	ØP2	C	LB
WTRP532	5/32	1,102	0,196	0,118	0,590	0,0008
WTRP316	3/16	1,102	0,196	0,118	0,590	0,0016
WTRP1-4	1/4	1,299	0,275	0,118	0,669	0,0017
WTRP516	5/16	1,456	0,354	0,157	0,708	0,0028
WTRP38	3/8	1,653	0,433	0,196	0,807	0,0048
WTRP1-2	1/2	1,732	0,511	0,236	0,905	0,0068

WTRUC-PRD

Union connector for DIN profile ⌊ o Ω





CODE	ØD	A	L	C	GR.
WTRUC-PRD04	4	34,6	45,0	22,0	8,0
WTRUC-PRD06	6	35,2	45,0	22,0	8,0
WTRUC-PRD08	8	39,1	45,0	22,7	10,0
WTRUC-PRD10	10	45,2	45,0	24,7	17,0

WTRCV

Applicable sleeve

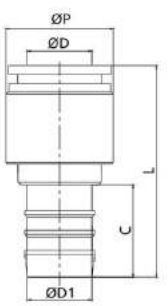


CODE	ØD						GR.
WTRCV04	4	WTRCV04BL	WTRCV04RO	WTRCV04BO	WTRCV04GL	WTRCV04VD	0,10
WTRCV06	6	WTRCV06BL	WTRCV06RO	WTRCV06BO	WTRCV06GL	WTRCV06VD	0,14

TR

Push-in fittings with barb connector





CODE	ØD	ØD1	ØP	C	L	GR.
TR1213P	12	1/2	20,0	10,8	40,8	24,0



COMPACT PUSH-IN FITTINGS
CDC PNEUMATICS

PLUS

REDUCED DIMENSIONS
to be easily used in narrow spaces.

AVAILABLE ALSO FOR TUBING DIAM. 3 MM

OVAL LOCKING COLLET
to improve disconnection operations.

STATIC GRIPPING SYSTEM in order to stop all the movements of the tube when inserted, granting a leak-proof connection.

SILICON FREE MATERIALS

MADE BY TOP QUALITY TECNOPOLYMERS to guarantee long-lasting components.



p. 44 / **PC-C-R**



p. 44 / **PC-C-G**



p. 44 / **POC-C-R**



p. 45 / **POC-C-M**



p. 45 / **PCF-C-M**



p. 45 / **PMM-C**



p. 46 / **PL-C-R**



p. 46 / **PL-C-G**



p. 46 / **PLL-C-R**



p. 47 / **PLL-C-M**



p. 47 / **PT-C-R**



p. 47 / **PT-C-M**



p. 48 / **PST-C-R**



p. 48 / **PST-C-M**



p. 48 / **PUC-C**



p. 49 / **PG-C**



p. 49 / **PUL-C**



p. 49 /**PUT-C**



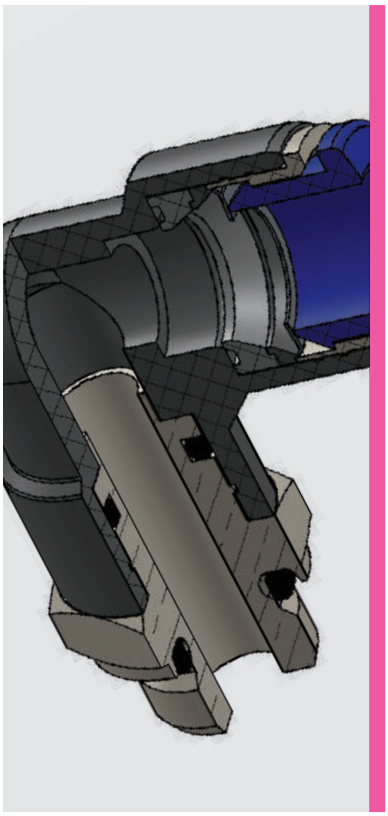
p. 50 / **PY-C**



p. 50 / **PW-C**



p. 50 / **PGJ-C**



0°C ÷ 60°C

Working pressure:
10 Bar
Negative pressure:
-750 mmHg

Compressed air & vacuum

Taper gas BSPT ISO 7 R1/8"
Parallel gas BSPP ISO 228 G1/8"
Metric ISO 262 M3, M5, M6

Polyamide, Polyurethane

Body:
PBT and nickel plated brass
Collar:
Nickel plated brass
Release sleeve:
POM
Lock claw:
Stainless steel AISI 301
Back ring:
POM
V-Seal / O-Ring:
NBR Silicon free

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

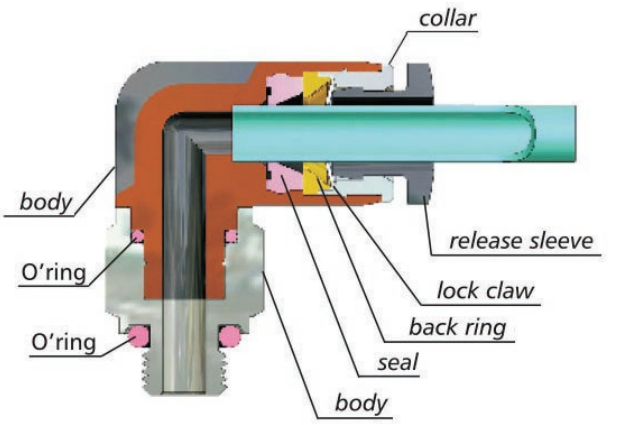
INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

CONSTRUCTION MATERIALS



TOLERANCE TUBE

TUBES Ø	Ø 3 mm	Ø 4 mm	Ø 6 mm
TOLERANCES (MM)	± 0,1	± 0,1	± 0,1

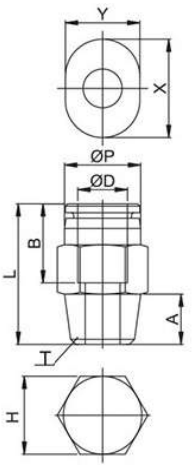
INSERTION TUBE

DIAMETER TUBES Ø	Ø 3 mm	Ø 4 mm	Ø 6 mm
TUBES INSERTION LENGHT (MM)	11.2	11.7	12.7

PC-C-R

Compact male connector BSPT thread nickel plated



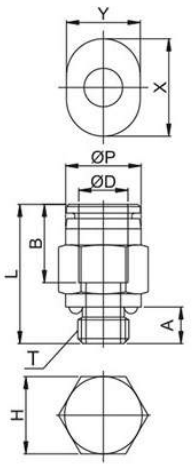


CODE	ØD	ØP	T	L	A	B	H	X	Y	DN	GR.
PC-C04R01	4	8,0	R1/8"	16,7	8,0	11,7	10	10,4	8,2	3,0	6,0
PC-C06R01	6	10,0	R1/8"	18,9	8,0	12,7	10	12,4	10,2	5,0	7,0

PC-C-G

Compact male connector BSPP & metric thread nickel plated



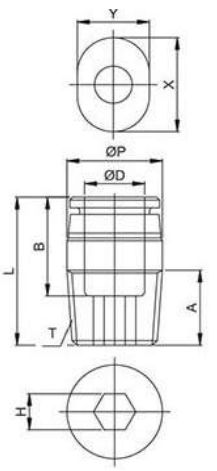


CODE	ØD	ØP	T	L	A	B	H	X	Y	DN	GR.
PC-C03M3	3	7,0	M3X0,5P	16,1	3,0	11,2	7	9,2	7,2	1,5	3,0
PC-C03M5	3	7,2	M5X0,8P	16,3	3,6	11,2	8	9,2	7,2	2,0	4,0
PC-C03M6	3	7,2	M6X1,0P	16,3	4,1	11,2	8	9,2	7,2	2,0	4,0
PC-C04M3	4	8,0	M3X0,5P	16,8	3,0	11,7	8	10,4	8,2	1,5	4,0
PC-C04M5	4	8,0	M5X0,8P	17,1	3,6	11,7	8	10,4	8,2	2,5	4,0
PC-C04M6	4	8,0	M6X1,0P	17,7	4,1	11,7	8	10,4	8,2	3,0	4,0
PC-C04G01	4	8,3	G1/8"	17,4	5,0	11,7	12	10,4	8,2	3,0	8,0
PC-C06M5	6	10,0	M5X0,8P	18,6	3,6	12,7	10	12,4	10,2	2,5	5,0
PC-C06M6	6	10,0	M6X1,0P	18,9	4,1	12,7	10	12,4	10,2	3,0	6,0
PC-C06G01	6	10,3	G1/8"	17,9	5,0	12,7	12	12,4	10,2	5,0	9,0

POC-C-R

Compact male connector internal hexagon BSPT thread nickel plated



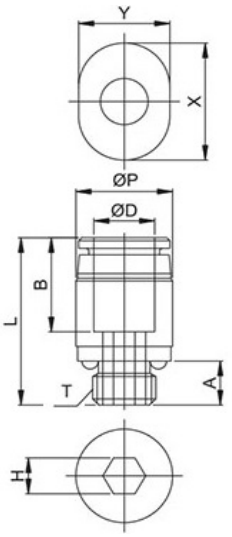


CODE	ØD	ØP	T	L	A	B	H	X	Y	DN	GR.
POC-C04R01	4	10	R1/8"	15,7	8,0	11,7	3	10,4	8,2	3,0	5,0
POC-C06R01	6	10	R1/8"	18,9	8,0	12,7	4	12,4	10,2	4,0	6,0

POC-C-M

Compact male connector internal hexagon metric thread nickel plated



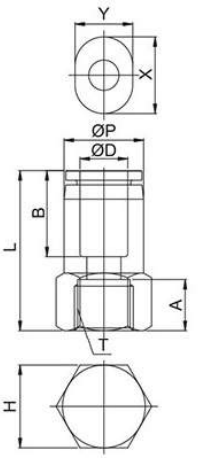


CODE	ØD	ØP	T	L	A	B	H	X	Y	DN	GR.
POC-C03M3	3	7	M3X0,5P	16,1	3,0	11,2	1,5	9,2	7,2	1,5	2,0
POC-C03M5	3	7	M5X0,8P	16,3	3,6	11,2	2,0	9,2	7,2	2,0	2,0
POC-C03M6	3	8	M6X1,0P	16,7	4,1	11,2	2,0	9,2	7,2	2,0	4,0
POC-C04M3	4	8	M3X0,5P	16,8	3,0	11,7	1,5	10,4	8,2	1,5	3,0
POC-C04M5	4	8	M5X0,8P	16,9	3,6	11,7	2,5	10,4	8,2	2,5	4,0
POC-C04M6	4	8	M6X1,0P	17,2	4,1	11,7	3,0	10,4	8,2	3,0	4,0
POC-C06M5	6	10	M5X0,8P	18,6	3,6	12,7	2,5	12,4	10,2	2,5	5,0
POC-C06M6	6	10	M6X1,0P	18,6	4,1	12,7	3,0	12,4	10,2	3,0	5,0

PCF-C-M

Compact female connector metric thread nickel plated



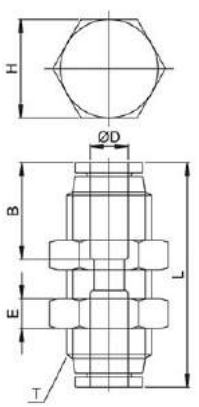


CODE	ØD	ØP	T	L	A	B	H	X	Y	DN	GR.
PCF-C03M3	3	7,5	M3X0,5P	16,2	4,0	11,2	8	9,2	7,2	2,5	2,0
PCF-C03M5	3	7,5	M5X0,8P	18,7	6,0	11,2	8	9,2	7,2	2,5	2,0
PCF-C03M6	3	7,5	M6X1,0P	18,7	6,0	11,2	8	9,2	7,2	2,5	2,4
PCF-C04M3	4	8,0	M3X0,5P	17,7	4,0	11,7	8	10,4	8,2	2,5	3,0
PCF-C04M5	4	8,0	M5X0,8P	19,2	6,0	11,7	8	10,4	8,2	3,0	4,0
PCF-C04M6	4	8,0	M6X1,0P	19,2	6,0	11,7	8	10,4	8,2	3,0	4,0
PCF-C06M5	6	10,0	M5X0,8P	19,7	6,0	12,7	10	12,4	10,2	4,0	5,0
PCF-C06M6	6	10,0	M6X1,0P	19,7	6,0	12,7	10	12,4	10,2	4,0	5,0

PMM-C

Compact bulkhead connector nickel plated



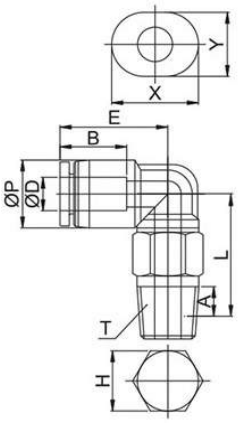


CODE	ØD	T	L	E	B	H	DN	GR.
PMM-C03	3	M8X0,75P	23,4	2,0	11,2	10	2,0	6,0
PMM-C04	4	M10X1,0P	24,3	3,5	11,7	12	3,0	10,0
PMM-C06	6	M12X1,0P	26,9	4,0	12,7	14	5,0	14,0

PL-C-R

Compact swivel male elbow BSPT thread nickel plated



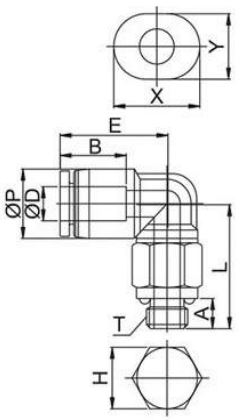


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PL-C04R01	4	8,7	R1/8"	16,4	14,6	8,0	11,8	10	10,4	8,2	3,0	7,0
PL-C06R01	6	10,8	R1/8"	17,4	15,5	8,0	12,8	10	12,4	10,2	3,0	7,0

PL-C-G

Compact swivel male elbow BSPP & metric thread nickel plated



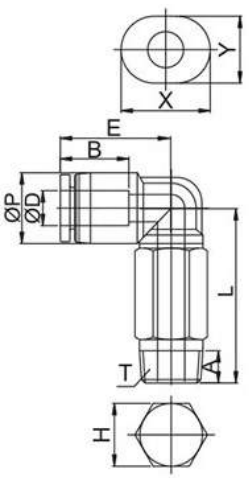


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PL-C03M3	3	7,6	M3X0,5P	14,7	13,5	3,0	11,3	8	9,2	7,2	1,5	4,0
PL-C03M5	3	7,6	M5X0,8P	15,3	13,5	3,6	11,3	8	9,2	7,2	2,5	4,0
PL-C03M6	3	7,6	M6X1,0P	15,8	13,5	4,1	11,3	8	9,2	7,2	2,5	4,0
PL-C04M3	4	8,7	M3X0,5P	15,3	14,6	3,0	11,8	8	10,4	8,2	1,5	4,0
PL-C04M5	4	8,7	M5X0,8P	15,9	14,6	3,6	11,8	8	10,4	8,2	2,5	4,0
PL-C04M6	4	8,7	M6X1,0P	16,4	14,6	4,1	11,8	8	10,4	8,2	3,0	4,0
PL-C04G01	4	8,7	G1/8"	14,4	14,6	4,5	11,8	14	10,4	8,2	3,0	7,0
PL-C06M5	6	10,8	M5X0,8P	16,9	15,5	3,6	12,9	8	12,4	10,2	2,5	4,0
PL-C06M6	6	10,8	M6X1,0P	17,4	15,5	4,1	12,9	8	12,4	10,2	3,0	5,0
PL-C06G01	6	10,8	G1/8"	15,4	15,5	4,5	12,9	14	12,4	10,2	3,0	6,0

PLL-C-R

Compact long swivel male elbow BSPT thread nickel plated



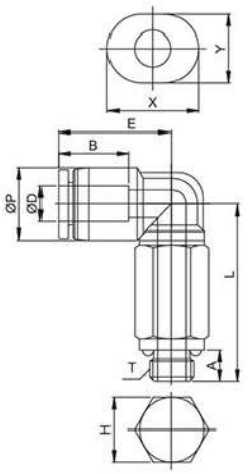


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PLL-C04R01	4	8,7	R1/8"	29,4	14,6	8,0	11,8	10	10,4	8,2	3,0	13,0
PLL-C06R01	6	10,8	R1/8"	32,4	15,5	8,0	12,8	10	12,4	10,2	3,0	14,0

PLL-C-M

Compact long swivel male elbow metric thread nickel plated



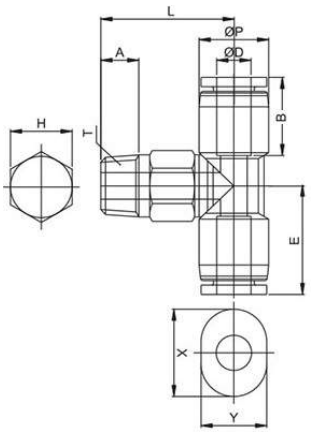


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PLL-C03M3	3	7,5	M3X0,5P	21,8	13,5	3,0	11,3	8	9,2	7,2	1,5	6,0
PLL-C03M5	3	7,5	M5X0,8P	23,9	13,5	3,6	11,3	8	9,2	7,2	2,5	7,0
PLL-C03M6	3	7,5	M6X1,0P	24,4	13,5	4,1	11,3	8	9,2	7,2	2,5	7,0
PLL-C04M3	4	8,7	M3X0,5P	24,9	14,6	3,0	11,8	8	10,4	8,2	1,5	8,0
PLL-C04M5	4	8,7	M5X0,8P	25,5	14,6	3,6	11,8	8	10,4	8,2	2,5	8,0
PLL-C04M6	4	8,7	M6X1,0P	26,0	14,6	4,1	11,8	8	10,4	8,2	2,5	8,0
PLL-C06M5	6	10,8	M5X0,8P	28,4	15,5	3,6	12,8	8	12,4	10,2	2,5	9,0
PLL-C06M6	6	10,8	M6X1,0P	28,9	15,5	4,1	12,8	8	12,4	10,2	2,5	9,0

PT-C-R

Compact swivel male central tee BSPT thread nickel plated



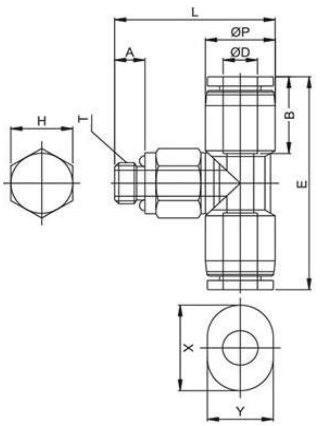


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PT-C04R01	4	8,7	R1/8"	16,4	15,1	8,0	11,8	10	10,4	8,2	3,0	7,0
PT-C06R01	6	10,8	R1/8"	17,4	16,0	8,0	12,8	10	12,4	10,2	3,0	9,0

PT-C-M

Compact swivel male central tee metric thread nickel plated



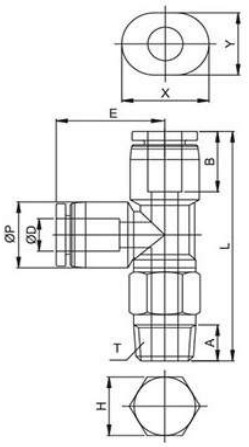


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PT-C03M3	3	7,6	M3X0,5P	14,7	14,5	3,0	11,3	8	9,2	7,2	1,5	4,0
PT-C03M5	3	7,6	M5X0,8P	15,3	14,5	3,6	11,3	8	9,2	7,2	2,5	5,0
PT-C03M6	3	7,6	M6X1,0P	15,8	14,5	4,1	11,3	8	9,2	7,2	2,5	5,0
PT-C04M3	4	8,7	M3X0,5P	15,3	15,1	3,0	11,8	8	10,4	8,2	1,5	5,0
PT-C04M5	4	8,7	M5X0,8P	15,9	15,1	3,6	11,8	8	10,4	8,2	2,5	5,0
PT-C04M6	4	8,7	M6X1,0P	16,4	15,1	4,1	11,8	8	10,4	8,2	3,0	6,0
PT-C06M5	6	10,8	M5X0,8P	16,9	16,0	3,6	12,8	8	12,4	10,2	2,5	7,0
PT-C06M6	6	10,8	M6X1,0P	17,4	16,0	4,1	12,8	8	12,4	10,2	3,0	7,0

PST-C-R

Compact swivel lateral male tee BSPT thread nickel plated



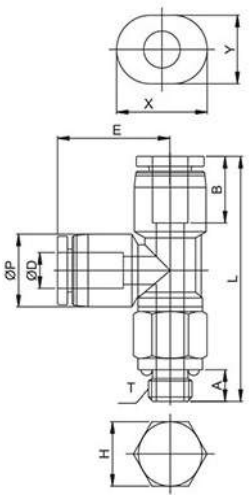


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PST-C04R01	4	8,7	R1/8"	30,9	14,6	8,0	11,8	10	10,4	8,2	3,0	9,0
PST-C06R01	6	10,8	R1/8"	33,9	16,5	8,0	12,8	10	12,4	10,2	3,0	10,0

PST-C-M

Compact swivel lateral male tee metric thread nickel plated



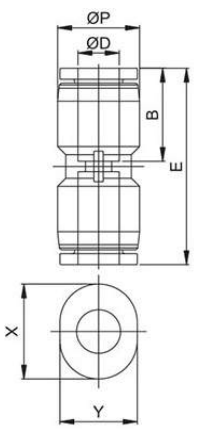


CODE	ØD	ØP	T	L	E	A	B	H	X	Y	DN	GR.
PST-C03M3	3	7,6	M3X0,5P	28,3	13,6	3,0	11,3	8	9,2	7,2	1,5	4,0
PST-C03M5	3	7,6	M5X0,8P	28,9	13,6	3,6	11,3	8	9,2	7,2	2,5	5,0
PST-C03M6	3	7,6	M6X1,0P	29,4	13,6	4,1	11,3	8	9,2	7,2	2,5	5,0
PST-C04M3	4	8,7	M3X0,5P	29,8	14,6	3,0	11,8	8	10,4	8,2	1,5	5,0
PST-C04M5	4	8,7	M5X0,8P	30,4	14,6	3,6	11,8	8	10,4	8,2	2,5	6,0
PST-C04M6	4	8,7	M6X1,0P	30,9	14,6	4,1	11,8	8	10,4	8,2	3,0	6,0
PST-C06M5	6	10,8	M5X0,8P	33,4	16,5	3,6	12,8	8	12,4	10,2	2,5	7,0
PST-C06M6	6	10,8	M6X1,0P	33,9	16,5	4,1	12,8	8	12,4	10,2	3,0	7,0

PUC-C

Compact union connector



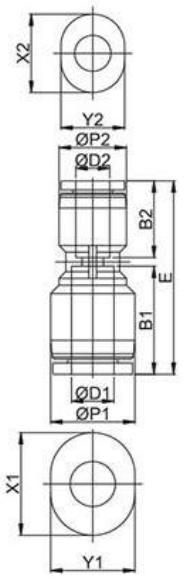


CODE	ØD	ØP	E	B	X	Y	DN	GR.
PUC-C03	3	7,5	23,8	11,4	9,2	7,2	2,4	3,0
PUC-C04	4	8,4	24,5	11,8	10,4	8,2	3,0	3,0
PUC-C06	6	10,6	26,8	12,9	12,4	10,2	4,0	3,0

PG-C

Compact reduced union connector



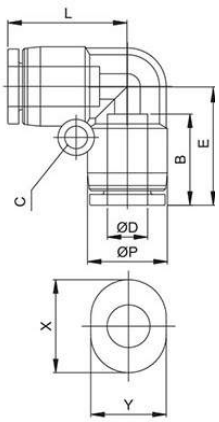


CODE	ØD1	ØD2	ØP1	ØP2	E	B1	B2	X1	Y1	X2	Y2	DN	GR.
PG-C0403	4	3	8,4	7,5	24,2	11,8	11,4	10,4	8,2	9,2	7,2	2,4	3,0
PG-C0603	6	3	10,6	7,5	26,3	12,9	11,4	12,4	10,2	9,2	7,2	2,5	3,0
PG-C0604	6	4	10,6	8,4	26,6	12,9	11,8	12,4	10,2	10,4	8,2	3,0	3,0

PUL-C

Compact union elbow



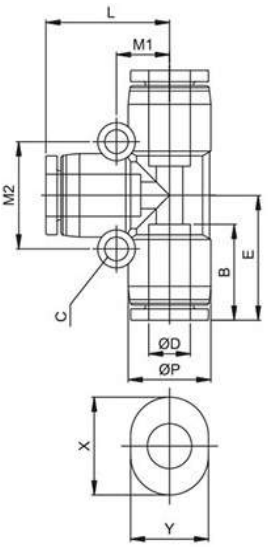


CODE	ØD	ØP	L	E	ØC	B	X	Y	DN	GR.
PUL-C03	3	7,5	17,3	17,3	3,2	11,4	9,2	7,2	2,4	2,0
PUL-C04	4	8,4	18,7	18,7	3,2	11,8	10,4	8,2	3,0	3,0
PUL-C06	6	10,6	21,9	21,9	3,2	12,9	12,4	10,2	4,0	3,0

PUT-C

Compact union tee



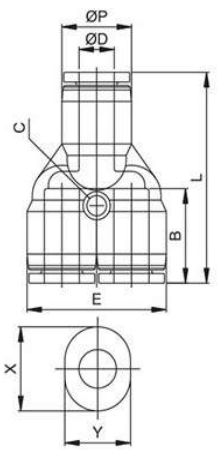


CODE	ØD	ØP	L	E	ØC	B	M1	M2	X	Y	DN	GR.
PUT-C03	3	7,5	17,3	27,2	3,2	11,4	5,3	10,7	9,2	7,2	2,4	3,0
PUT-C04	4	8,4	18,7	28,9	3,2	11,8	5,8	11,6	10,4	8,2	3,0	3,0
PUT-C06	6	10,6	21,9	33,2	3,2	12,9	6,9	13,8	12,4	10,2	4,0	6,0

PY-C

Compact union Y



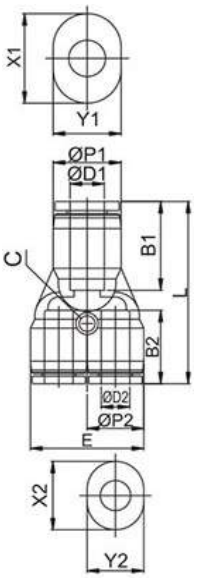


CODE	ØD	ØP	L	E	ØC	B	X	Y	DN	GR.
PY-C03	3	7,6	27,0	15,2	3,2	11,4	9,2	7,2	2,4	3,0
PY-C04	4	8,7	28,0	17,4	3,2	11,8	10,4	8,2	3,0	5,0
PY-C06	6	10,8	30,8	21,6	3,2	12,9	12,4	10,2	4,0	6,0

PW-C

Compact reduced union Y



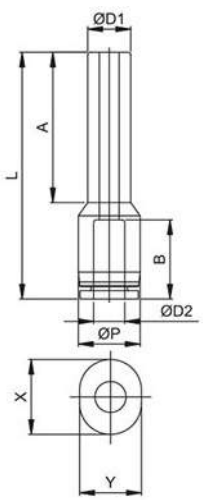


CODE	ØD1	ØD2	ØP1	ØP2	L	E	ØC	B1	B2	X1	X2	Y1	Y2	DN	GR.
PW-C0403	3	3	8,7	7,6	27,6	15,2	3,2	11,8	11,4	10,4	8,2	9,2	7,2	2,0	3,0
PW-C0603	6	3	10,8	7,6	28,8	15,2	3,2	12,9	11,4	12,4	10,2	9,2	7,2	2,4	4,0
PW-C0604	6	4	10,8	8,7	29,1	17,4	3,2	12,9	11,8	12,4	10,2	10,4	8,2	3,0	5,0

PGJ-C

Compact reducer





CODE	ØD1	ØD2	ØP	L	A	B	X	Y	DN	GR.
PGJ-C0403	4	3	7,6	30,5	18,0	11,4	9,2	7,2	2,4	1,0
PGJ-C0603	6	3	7,6	32,1	21,6	11,4	9,2	7,2	2,4	2,0
PGJ-C0604	6	4	8,4	33,7	21,8	11,8	10,4	8,2	3,0	3,0

BRASS PUSH-IN FITTINGS

PLUS

HIGH PERFORMANCE FITTINGS, easy to be used.

STRONG but also compact in order to ensure the maximum assembling flexibility.

SILICON FREE MATERIALS.

IN COMPLIANCE WITH ISO 14743.

COMPLETE RANGE suitable to be used with different kind of tubing.

ELECTROLYTIC NICKEL PLATING to ensure the maximum lasting in time.

SUITABLE WITH VACUUM APPLICATIONS.

STATIC GRIPPING SYSTEM in order to stop all the movements of the tube when inserted, granting **A LEAK-PROOF CONNECTION.**

Every fitting is **STUDIED TO GUARANTEE THE MAXIMUM POSSIBLE FLOW RATE** accordingly to the diameter of the tube and of the thread.

O-RING WITH ENLARGED SECTION to improve the gripping and the resistance to vibrations and lateral movements of the tube.

N



p. 54 / **OTRC-R**



p. 54 / **OTRC-G**



p. 55 / **OTRC-N**



p. 55 / **OTROC-N**



p. 55 / **OTRMM**



p. 56 / **OTRME**



p. 56 / **OTRL-R**



p. 56 / **OTRL-G**



p. 57 / **OTRL-N**



p. 57 / **OTRT-R**



p. 58 / **OTRT-G**



p. 58 / **OTRT-N**



p. 59 / **OTA-G**



p. 59 / **OTRUC**



p. 59 / **OTRUC-N**



p. 60 / **OTRUL**



p. 60 / **OTRUL-N**



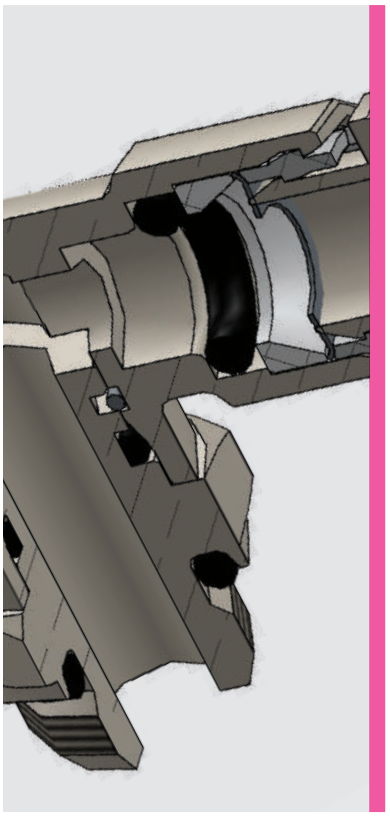
p. 60 / **OTRUT**



p. 60 / **OTRUT-N**



p. 61 / **OTRGJ**



-20°C ÷ 80°C

Working pressure:
16 Bar
Negative pressure:
-750 mmHg

Compressed air and vacuum.

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5 and M6
NPT ANSI B 1.20.1
from N1/8" to N1/2"
UNF ANSI B 1.1 10-32 UF

Polyamide, Polyurethane

Body: nickel plated brass
UNI EN 12164 CW614N & UNI
EN 12164 CW617N
Collar: POM
Collet (sleeve): nickel plated brass
UNI EN 12164 CW614N
Seals: NBR silicon free
Lock claw: AISI 301 stainless steel
Back ring: PBT
Retaining ring for swivel systems:
AISI 302 stainless steel

REACH Products in compliance with the directive 2002/95/EC

RoHS2 Products in compliance with the directive 2011/65/EU

SILICON FREE

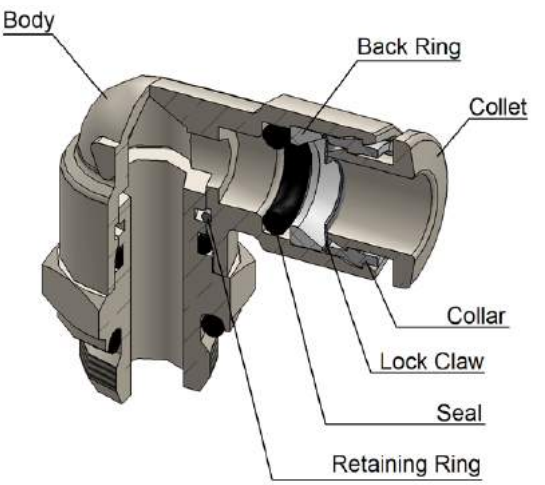
INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

CONSTRUCTION MATERIALS



TOLERANCE TUBE

TUBES Ø	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm
TOLERANCES (mm)	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15

INSERTION TUBE

DIAMETER TUBES Ø	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm
TUBES INSERTION LENGHT (mm)	14	15,5	17,5	19	21

TOLERANCE TUBE

TUBES Ø	Ø 5/32	Ø 5/16	Ø 1/4	Ø 3/8	Ø 1/2
TOLERANCES (INCH)	±0,003	±0,003	±0,003	±0,005	±0,005

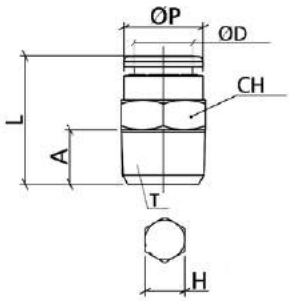
INSERTION TUBE

DIAMETER TUBES Ø	Ø 5/32	Ø 5/16	Ø 1/4	Ø 3/8	Ø 1/2
TUBES INSERTION LENGHT (INCH)	0,551	0,688	0,629	0,728	0,846

OTRC-R

Male connector internal hexagonal BSPT thread nickel plated



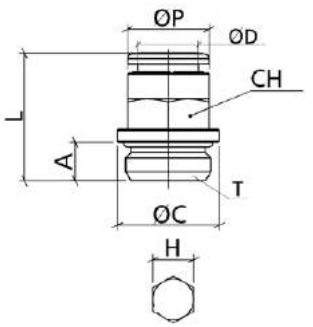


CODE	ØD	T	ØP	A	L	CH	H
OTRC04R01	4	R1/8"	10	8	18,5	10	3
OTRC04R02	4	R1/4"	10	10	20	14	3
OTRC06R01	6	R1/8"	12	8	21	12	4
OTRC06R02	6	R1/4"	12	10	20	14	4
OTRC08R01	8	R1/8"	14	8	26	14	5
OTRC08R02	8	R1/4"	14	10	24	14	6
OTRC08R03	8	R3/8"	14	11	22	17	6
OTRC10R02	10	R1/4"	16	10	31	16	6
OTRC10R03	10	R3/8"	16	11	26	17	8
OTRC10R04	10	R1/2"	16	14	26,5	22	8
OTRC12R02	12	R1/4"	19	10	33	19	6
OTRC12R03	12	R3/8"	19	11	29,5	19	10
OTRC12R04	12	R1/2"	19	14	27	22	10

OTRC-G

Male connector internal hexagonal BSPP & metric thread nickel plated



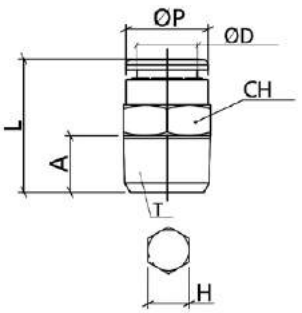


CODE	ØD	T	ØC	ØP	A	L	CH	H
OTRC04M5	4	M5X0,8	7	10	4	19	9	2,5
OTRC04G01	4	G1/8"	14	10	5,5	18	10	3
OTRC04G02	4	G1/4"	16	10	6,5	18	10	3
OTRC06M5	6	M5X0,8	7	12	4	21	11	2,5
OTRC06G01	6	G1/8"	14	12	5,5	19,5	12	4
OTRC06G02	6	G1/4"	16	12	6,5	19,5	12	4
OTRC08G01	8	G1/8"	14	14	5,5	24,5	14	5
OTRC08G02	8	G1/4"	16	14	6,5	21,5	14	6
OTRC08G03	8	G3/8"	20	14	7,5	21,5	14	6
OTRC10G02	10	G1/4"	16	16	6,5	27,5	16	6
OTRC10G03	10	G3/8"	20	16	7,5	25	16	8
OTRC10G04	10	G1/2"	25	16	9	25	16	8
OTRC12G02	12	G1/4"	16	19	6,5	30	19	6
OTRC12G03	12	G3/8"	22	19	7,5	29,5	19	10
OTRC12G04	12	G1/2"	25	19	9	28	19	10

OTRC-N

Male connector internal hexagonal NPT thread nickel plated



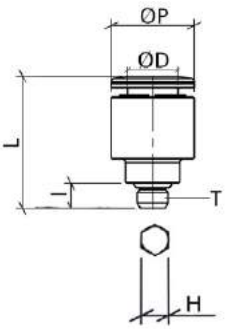


CODE	ØD	T	ØP	A	L	CH	H
OTRC532N01	5/32"	N1/8"	0,393	0,334	0,748	7/16"	1/8"
OTRC532N02	5/32"	N1/4"	0,393	0,413	0,787	9/16"	1/8"
OTRC1-4N01	1/4"	N1/8"	0,511	0,334	0,885	1/2"	3/16"
OTRC1-4N02	1/4"	N1/4"	0,511	0,413	0,885	9/16"	3/16"
OTRC516N01	5/16"	N1/8"	0,551	0,334	1,062	9/16"	3/16"
OTRC516N02	5/16"	N1/4"	0,551	0,413	1,003	9/16"	1/4"
OTRC516N03	5/16"	N3/8"	0,551	0,452	0,925	11/16"	1/4"
OTRC38N01	3/8"	N1/8"	0,629	0,334	1,122	11/16"	3/16"
OTRC38N02	3/8"	N1/4"	0,629	0,413	1,181	11/16"	1/4"
OTRC38N03	3/8"	N3/8"	0,629	0,452	1,003	11/16"	5/16"
OTRC38N04	3/8"	N1/2"	0,629	0,570	1,043	7/8"	5/16"
OTRC1-2N02	1/2"	N1/4"	0,748	0,413	1,318	7/8"	1/4"
OTRC1-2N03	1/2"	N3/8"	0,748	0,452	1,338	7/8"	3/8"
OTRC1-2N04	1/2"	N1/2"	0,748	0,570	1,181	7/8"	3/8"

OTROC-N

Male connector internal hexagon UNF thread nickel plated



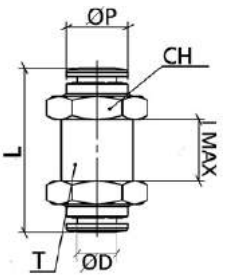


CODE	ØD	T	ØP	I	L	H
OTROC532UF1032	5/32"	UNF 10-32	0,393	0,157	0,748	3/32"
OTROC1-4UF1032	1/4"	UNF 10-32	0,511	0,157	0,846	3/32"

OTRMM

Bulkhead connector nickel plated



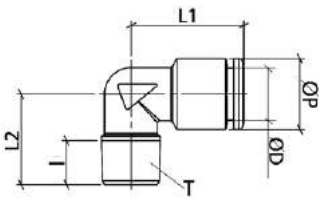


CODE	ØD	T	ØP	L	I MAX	CH
OTRMM04	4	M12X1	10	34	15	16
OTRMM06	6	M14X1	12	32	12	17
OTRMM08	8	M16X1	14	36,5	16	19
OTRMM10	10	M20X1	16	43	19	24
OTRMM12	12	M22X1,5	19	44	20	25

OTRME

Male elbow BSPT thread nickel plated



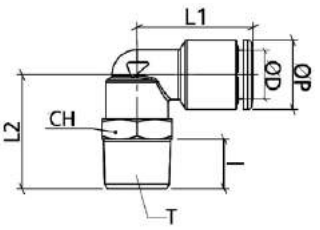


CODE	ØD	T	ØP	I	L1	L2
OTRME04R01	4	R1/8"	10	8	18	15,5
OTRME06R01	6	R1/8"	12	8	19,5	15,5
OTRME06R02	6	R1/4"	12	10	20,5	19,25
OTRME08R01	8	R1/8"	14	8	22,5	16,5
OTRME08R02	8	R1/4"	14	10	22,5	19,25
OTRME10R02	10	R1/4"	16	10	25,5	20,5

OTRL-R

Swivel male elbow BSPT thread nickel plated



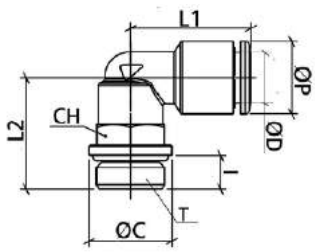


CODE	ØD	T	ØP	I	L1	L2	CH
OTRL04R01	4	R1/8"	10	8	19,5	20,5	13
OTRL04R02	4	R1/4"	10	10	19,5	23	14
OTRL06R01	6	R1/8"	12	8	21	20,5	13
OTRL06R02	6	R1/4"	12	10	21	23	14
OTRL08R01	8	R1/8"	14	8	23	20,5	13
OTRL08R02	8	R1/4"	14	10	23	23	14
OTRL08R03	8	R3/8"	14	11	23	24,5	17
OTRL10R02	10	R1/4"	16	10	26	25,5	16
OTRL10R03	10	R3/8"	16	11	26	27	17
OTRL10R04	10	R1/2"	16	14	26	30	22
OTRL12R02	12	R1/4"	19	10	31	28	20
OTRL12R03	12	R3/8"	19	11	31	28,5	20
OTRL12R04	12	R1/2"	19	14	31	31,5	22

OTRL-G

Swivel male elbow BSPP & metric nickel plated



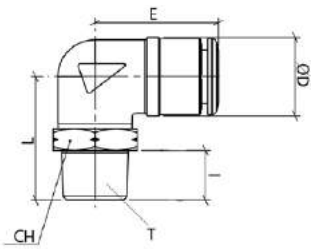


CODE	ØD	T	ØP	ØC	I	L1	L2	CH
OTRL04M5	4	M5X0,8	10	7	4	18	15	8
OTRL04G01	4	G1/8"	10	13	5,5	19,5	19	13
OTRL04G02	4	G1/4"	10	16	6,5	19,5	21,5	13
OTRL06M5	6	M5X0,8	12	7	4	19,5	16	8
OTRL06G01	6	G1/8"	12	13	5,5	21	19	13
OTRL06G02	6	G1/4"	12	16	6,5	21	21,5	13
OTRL08G01	8	G1/8"	14	13	5,5	23	19	13
OTRL08G02	8	G1/4"	14	16	6,5	23	21,5	13
OTRL08G03	8	G3/8"	14	20	7,5	23	23	13
OTRL10G02	10	G1/4"	16	16	6,5	26	23	16
OTRL10G03	10	G3/8"	16	20	7,5	26	26	16
OTRL10G04	10	G1/2"	16	25	9	26	27,5	16
OTRL12G02	12	G1/4"	19	16	6,5	31	25,5	20
OTRL12G03	12	G3/8"	19	20	7,5	31	26,5	20
OTRL12G04	12	G1/2"	19	25	9	31	29	20

OTRL-N

Swivel male elbow NPT & UNF thread nickel plated



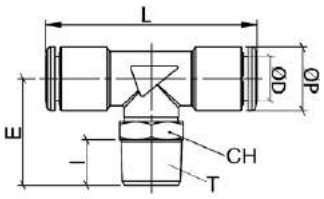


CODE	ØD	T	E	I	L	CH
OTRL532UF1032	5/32"	UNF 10/32	0,708	0,157	0,590	3/8"
OTRL532N01	5/32"	N1/8"	0,767	0,334	0,826	9/16"
OTRL532N02	5/32"	N1/4"	0,767	0,413	0,925	9/16"
OTRL1-4N01	1/4"	N1/8"	0,826	0,334	0,826	9/16"
OTRL1-4N02	1/4"	N1/4"	0,857	0,413	0,925	9/16"
OTRL516N01	5/16"	N1/8"	0,905	0,334	0,826	9/16"
OTRL516N02	5/16"	N1/4"	0,905	0,413	0,925	9/16"
OTRL516N03	5/16"	N3/8"	0,905	0,452	0,984	11/16"
OTRL38N01	3/8"	N1/8"	1,003	0,334	0,944	11/16"
OTRL38N02	3/8"	N1/4"	1,003	0,413	1,023	11/16"
OTRL38N03	3/8"	N3/8"	1,023	0,452	1,082	11/16"
OTRL38N04	3/8"	N1/2"	1,003	0,570	1,200	7/8"
OTRL1-2N02	1/2"	N1/4"	1,220	0,413	1,122	7/8"
OTRL1-2N03	1/2"	N3/8"	1,220	0,452	1,161	7/8"
OTRL1-2N04	1/2"	N1/2"	1,220	0,570	1,279	7/8"

OTRT-R

Swivel male tee BSPT thread nickel plated



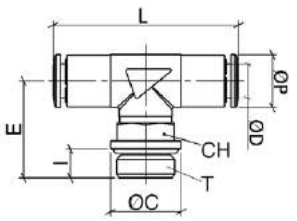


CODE	ØD	T	ØP	I	E	L	CH
OTRT04R01	4	R1/8"	10	8	21	39	13
OTRT04R02	4	R1/4"	10	10	23,5	39	14
OTRT06R01	6	R1/8"	12	8	21	42	13
OTRT06R02	6	R1/4"	12	10	23,5	42	14
OTRT08R01	8	R1/8"	14	8	21	46,5	13
OTRT08R02	8	R1/4"	14	10	23,5	46,5	14
OTRT08R03	8	R3/8"	14	11	25	46,5	17
OTRT10R02	10	R1/4"	16	10	25,5	52	16
OTRT10R03	10	R3/8"	16	11	27	52	17
OTRT10R04	10	R1/2"	16	14	30	52	22
OTRT12R02	12	R1/4"	19	10	28	62	20
OTRT12R03	12	R3/8"	19	11	28,5	62	20
OTRT12R04	12	R1/2"	19	14	31,5	62	22

OTRT-G

Swivel male tee BSPP & metric thread nickel plated



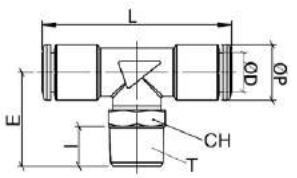


CODE	ØD	T	ØP	I	E	L	CH
OTRT04M5	4	M5X0,8	10	4	17	32	8
OTRT04G01	4	G1/8"	10	5,5	19,5	39	13
OTRT04G02	4	G1/4"	10	6,5	22	39	13
OTRT06M5	6	M5X0,8	12	4	17	40	8
OTRT06G01	6	G1/8"	12	5,5	19,5	42	13
OTRT06G02	6	G1/4"	12	6,5	22	42	13
OTRT08G01	8	G1/8"	14	5,5	19,5	46,5	13
OTRT08G02	8	G1/4"	14	6,5	22	46,5	13
OTRT08G03	8	G3/8"	14	7,5	23,5	46,5	13
OTRT10G02	10	G1/4"	16	6,5	23	52	16
OTRT10G03	10	G3/8"	16	7,5	26	52	16
OTRT10G04	10	G1/2"	16	9	27,5	52	16
OTRT12G02	12	G1/4"	19	6,5	25,5	62	20
OTRT12G03	12	G3/8"	19	7,5	26,5	62	20
OTRT12G04	12	G1/2"	19	9	29	62	20

OTRT-N

Swivel male tee NPT & UNF thread nickel plated



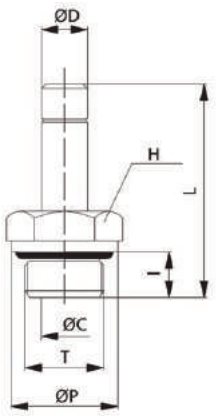


CODE	ØD	T	ØP	CH	I	E	L
OTRT532UF1032	5/32"	UNF 10-32	0,393	3/8"	0,157	0,669	1,259
OTRT532N01	5/32"	N1/8"	0,393	9/16"	0,334	0,846	1,535
OTRT532N02	5/32"	N1/4"	0,393	9/16"	0,413	0,944	1,535
OTRT1-4N01	1/4"	N1/8"	0,551	9/16"	0,334	0,846	1,673
OTRT1-4N02	1/4"	N1/4"	0,551	9/16"	0,413	0,944	1,673
OTRT516N01	5/16"	N1/8"	0,551	9/16"	0,334	0,846	1,830
OTRT516N02	5/16"	N1/4"	0,551	9/16"	0,413	0,944	1,830
OTRT38N02	3/8"	N1/4"	0,649	11/16"	0,413	1,023	2,027
OTRT38N03	3/8"	N3/8"	0,649	11/16"	0,452	1,082	2,027
OTRT1-2N02	1/2"	N1/4"	0,767	7/8"	0,413	1,122	2,440
OTRT1-2N03	1/2"	N3/8"	0,767	7/8"	0,452	1,161	2,440

OTA-G

Stem adapter BSPP & metric thread nickel plated



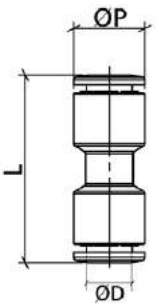


CODE	ØD	T	DN	ØP	ØC	I	L	H	GR.
OTA04M5	4	M5	2,0	8,0	2,0	4,0	24,5	8	3,0
OTA04M7	4	M7	2,0	-	4,0	6,0	26,0	10	5,0
OTA04G01	4	G1/8"	2,0	13,0	6,0	6,0	28,0	13	10,0
OTA04G02	4	G1/4"	2,0	16,0	7,5	8,0	30,0	13	11,0
OTA06M5	6	M5	2,6	8,0	2,6	4,0	26,0	8	5,0
OTA04M7	6	M7	4,0	-	4,0	6,0	28,0	10	7,0
OTA06G01	6	G1/8"	4,0	13,0	6,0	6,0	29,5	13	9,0
OTA06G02	6	G1/4"	4,0	16,0	7,5	8,0	32,0	13	13,0
OTA08G01	8	G1/8"	6,0	13,0	6,0	6,0	31,0	13	10,0
OTA08G02	8	G1/4"	6,0	16,0	7,5	8,0	33,5	13	13,0
OTA08G03	8	G3/8"	6,0	20,0	9,0	9,0	35,5	13	21,0
OTA10G01	10	G1/8"	6,0	13,0	6,0	6,0	35,5	13	17,0
OTA10G02	10	G1/4"	8,0	16,0	8,0	8,0	38,0	13	15,0
OTA10G03	10	G3/8"	8,0	20,0	8,0	9,0	41,0	13	26,0
OTA12G02	12	G1/4"	8,0	16,0	8,0	8,0	39,0	13	22,0
OTA12G03	12	G3/8"	10,0	20,0	11,0	9,0	42,0	13	22,0
OTA12G04	12	G1/2"	10,0	24,0	13,0	11,0	44,0	16	35,0
OTA14G03	14	G3/8"	12,0	20,0	12,0	9,0	44,5	16	23,0
OTA14G04	14	G1/2"	12,0	24,0	13,0	11,0	46,5	16	33,0

OTRUC

Union connector nickel plated



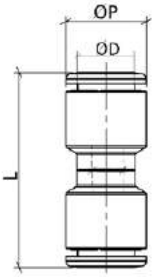


CODE	ØD	ØP	L
OTRUC04-532	4	10	29
OTRUC0600	6	12	32
OTRUC08-516	8	14	35,5
OTRUC1000	10	16	39,5
OTRUC1200	12	19	44

OTRUC-N

Union connector nickel plated



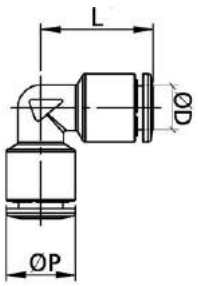


CODE	ØD	ØP	L
OTRUC04-532	5/32"	0,393	1,141
OTRUC1-4	1/4"	0,511	1,299
OTRUC08-516	5/16"	0,551	1,397
OTRUC38	3/8"	0,629	1,515
OTRUC1-2	1/2"	0,748	1,732

OTRUL

Union elbow nickel plated



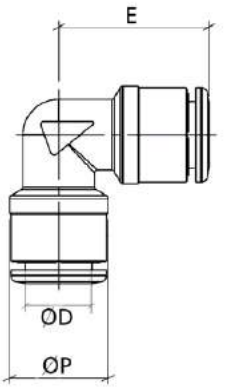


CODE	ØD	ØP	L
OTRUL04-532	4	10	18
OTRUL0600	6	12	19,5
OTRUL08-516	8	14	22,5
OTRUL1000	10	16	25,5
OTRUL1200	12	19	29

OTRUL-N

Union elbow nickel plated

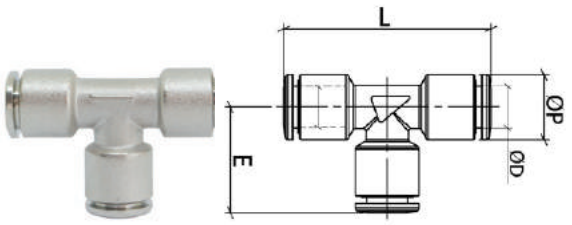




CODE	ØD	ØP	E
OTRUL04-532	5/32"	0,393	0,708
OTRUL1-4	1/4"	0,551	0,826
OTRUL08-516	5/16"	0,551	0,885
OTRUL38	3/8"	0,649	0,984
OTRUL1-2	1/2"	0,767	1,122

OTRUT

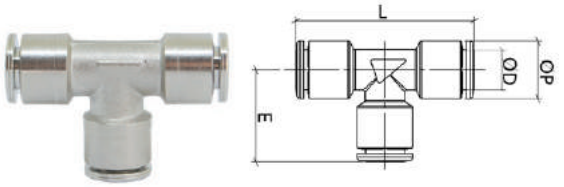
Union tee nickel plated



CODE	ØD	ØP	E	L
OTRUT04-532	4	10	18	36
OTRUT0600	6	12	19,5	39
OTRUT08-516	8	14	22,5	45
OTRUT1000	10	16	25,5	51
OTRUT1200	12	19	29	58

OTRUT-N

Union tee nickel plated

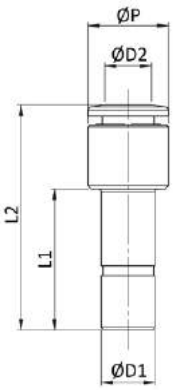


CODE	ØD	ØP	E	L
OTRUT04-532	5/32"	0,393	0,708	1,417
OTRUT1-4	1/4"	0,551	0,826	1,633
OTRUT08-516	5/16"	0,551	0,885	1,771
OTRUT38	3/8"	0,649	0,984	1,988
OTRUT1-2	1/2"	0,767	1,122	2,263

OTRGJ

Stem reduction nickel plated





CODE	ØD1	ØD2	ØP	L1	L2
OTRGJ0604	6	4	10	19,50	31
OTRGJ0806	8	6	12	21,50	34,50
OTRGJ1008	10	8	14	22,50	36,50
OTRGJ1210	12	10	16	25,0	40,50



BRASS PUSH-IN FITTINGS WITH T.E.A. SURFACE TREATMENT

PLUS

- HIGH CORROSION AND CHEMICAL RESISTANCE
- SURFACE FINISHING TREATMENT (T.E.A.)
- STUDIED TO GUARANTEE RELIABILITY AND HIGH MECHANICAL EFFICIENCY
- EXTREMELY SOLID AS THEY ARE IN METAL
- VACUUM RESISTANCE



p. 66 / **HFC-G**



p. 66 / **HFCF**



p. 66 / **HFMM**



p. 67 / **HFL-G**



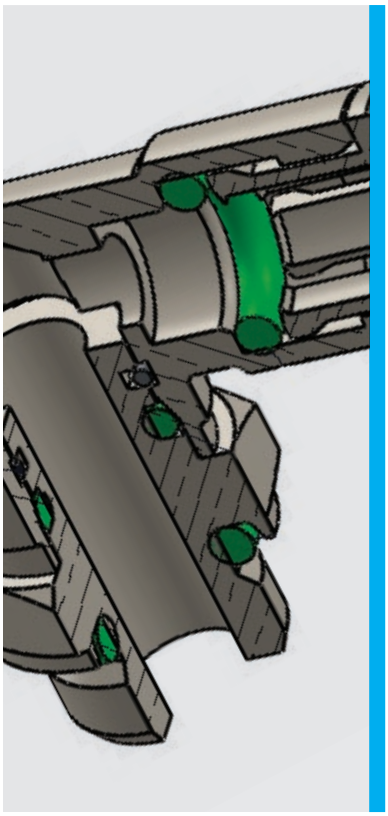
p. 67 / **HFUC**



p. 67 / **HFUL**



p. 67 / **HFUT**



-20°C ÷ 150°C

Working pressure:
16 Bar
Negative pressure:
-750 mmHg

Compressed air, vacuum and fluids compatible with the construction materials.

Parallel gas BSPP ISO 228 from G1/8" to G1/2"
Metric ISO 262 M5x0,8P

Polyethylene, Polyamide, Polyurethane,
PTFE - FEP

Body: brass UNI EN 12164 CW614N & UNI EN 12164 CW617N surface treatment T.E.A.
Collet: brass UNI EN 12164 CW614N surface treatment T.E.A.
Lock claw: brass UNI EN 12164 CW614N surface treatment T.E.A.
O-Ring: viton suitable for food contact
Retaining ring for swivel systems: AISI 302 stainless steel (1.4310)

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

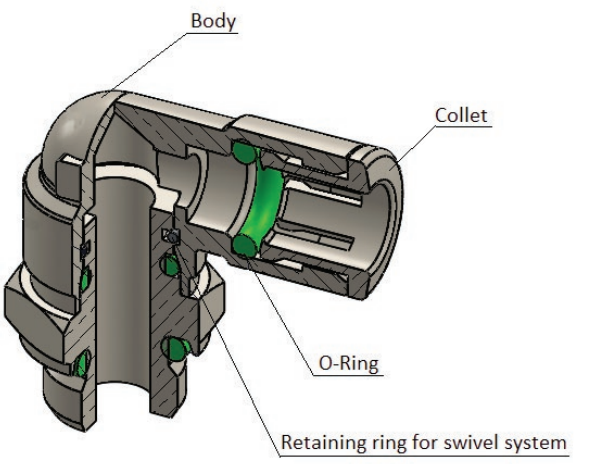
INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

CONSTRUCTION MATERIALS



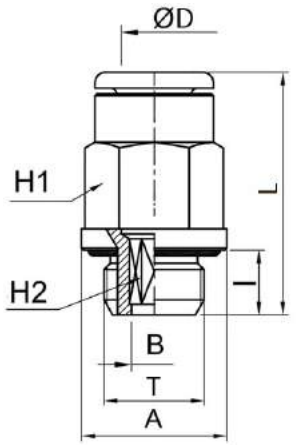
T.E.A® SURFACE TREATMENT

T.E.A® satisfies the most restrictive international standard limits for nickel transfer applied to human consumption of food like NSF51, NSF4, UNI10531 and 11460 for coffee machines and other "food zone"devices.
T.E.A® is a patented eco-friendly alloy finishing according to standard NSF51. T.E.A® is a registered trade mark owned by La Tecnogalvano - RuvecoLab division.

HFC-G

Male connector BSPP & metric with OR



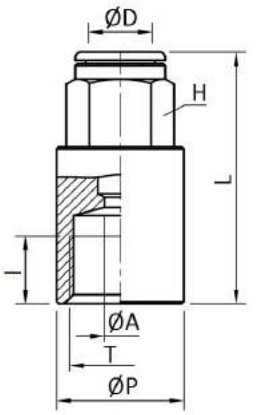


CODE	ØD	T	I	L	A	B	H1	H2	GR.
HFC04M5	4	M5X1	4	20	9	2,5	/	2,5	6,0
HFC04G01	4	G1/8"	6	20	13,5	2,5	9	2,5	9,0
HFC04G02	4	G1/4"	8	21	16	2,5	9	2,5	14,0
HFC06G01	6	G1/8"	6	22,5	13,5	4,2	11	4	12,0
HFC06G02	6	G1/4"	8	22,5	16	4,2	11	4	17,0
HFC08G01	8	G1/8"	6	25	14,5	5,2	13	5	14,0
HFC08G02	8	G1/4"	8	23,5	16	6,2	13	6	17,0
HFC08G03	8	G3/8"	8	24	21	6,2	13	6	24,0
HFC10G02	10	G1/4"	6,5	26,5	16	7,2	16	7	23,0
HFC10G03	10	G3/8"	7,5	28	21	8,3	16	8	30,0
HFC12G02	12	G1/4"	6,5	30,5	18	7,2	18	7	27,0
HFC12G03	12	G3/8"	9	31	21	10,2	18	10	31,0
HFC12G04	12	G1/2"	11	31,5	24	10,3	18	10	40,0

HFCF

Female connector BSPP



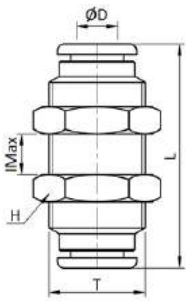


CODE	ØD	T	ØA	ØP	I	L	H1	GR.
HFCF04G01	4	1/8"	3	12	6,5	25	9	12,0
HFCF04G02	4	1/4"	3	16	10	28,5	9	25,0
HFCF06G01	6	1/8"	5	12	6,5	25	11	12,0
HFCF06G02	6	1/4"	5	16	10	29,5	11	22,0
HFCF08G01	8	1/8"	7	12	6,5	26	13	14,0
HFCF08G02	8	1/4"	7	16	10	30,5	13	25,0

HFMM

Bulkhead connector

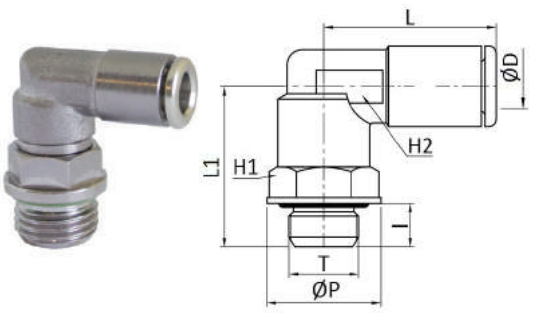




CODE	ØD	L	T	I MAX	H	GR.
HFMM0400	4	30,5	M10X1	8	13	11,0
HFMM0600	6	31,5	M14X1	8	17	22,0
HFMM0800	8	34	M16X1	10	18	35,0

HFL-G

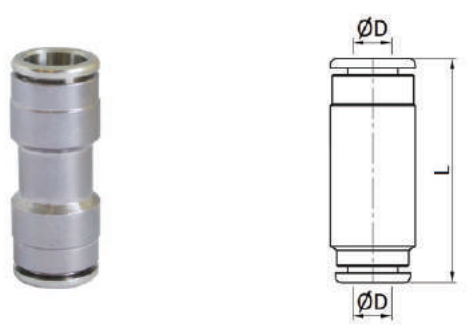
Swivel male elbow BSPP & metric with OR



CODE	ØD	T	I	ØP	L	L1	H1	H2	GR.
HFL04M5	4	M5X1	4	9	18,5	16,5	9	9	11,0
HFL04G01	4	G1/8"	6	13	20	21	13	10	18,0
HFL04G02	4	G1/4"	8	16	20	25	13	10	24,0
HFL06G01	6	G1/8"	6	13	20,5	21	13	10	21,0
HFL06G02	6	G1/4"	8	16	20,5	25	13	10	25,0
HFL08G01	8	G1/8"	6	13	22	21	13	10	22,0
HFL08G02	8	G1/4"	8	16	22	25	13	10	26,0
HFL10G02	10	G1/4"	8	16	25	25,5	16	14	32,0
HFL10G03	10	G3/8"	9	19,8	25	29,5	16	14	58,0

HFUC

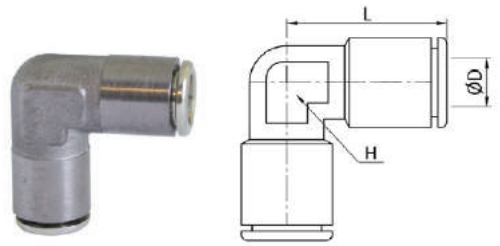
Union connector



CODE	ØD	L	GR.
HFUC0400	4	30,5	11,0
HFUC0600	6	31,5	21,0
HFUC0800	8	34	31,0
HFUC1000	10	36,5	33,0
HFUC1200	12	44	46,0

HFUL

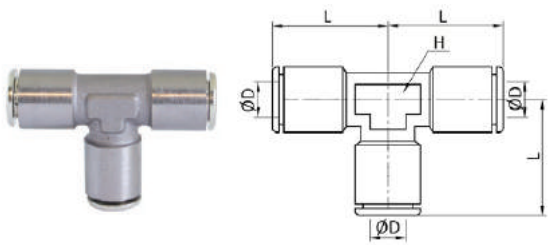
Union elbow



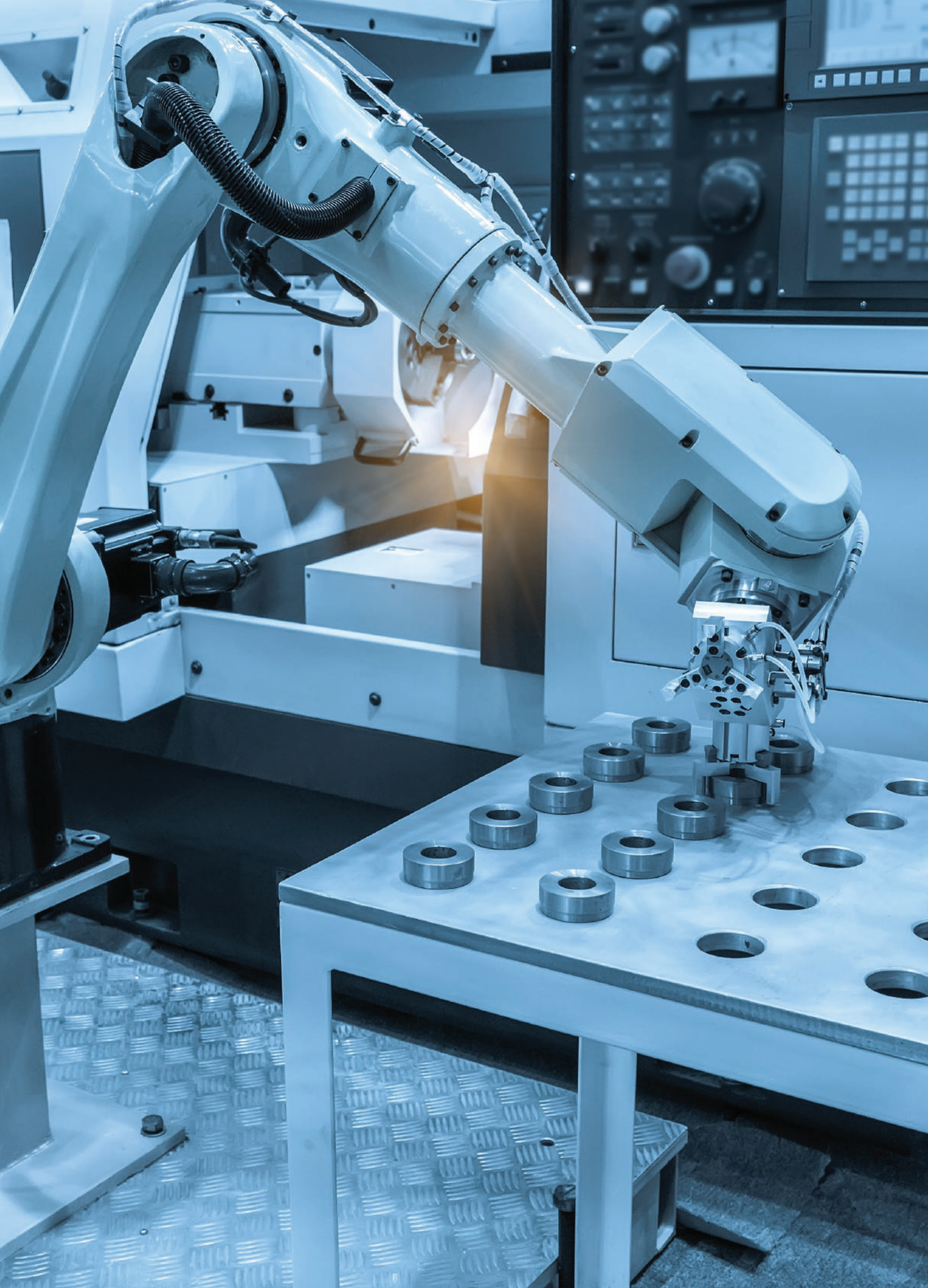
CODE	ØD	L	H	GR.
HFUL0400	4	18	9	10,0
HFUL0600	6	19,5	9	14,0
HFUL0800	8	22,5	12	20,0
HFUL1000	10	23,5	13	26,0
HFUL1200	12	28	17	36,0

HFUT

Union tee



CODE	ØD	L	H	GR.
HFUT0400	4	18	9	13,0
HFUT0600	6	19,5	9	19,0
HFUT0800	8	22,5	12	28,0
HFUT1000	10	23,5	13	38,0
HFUT1200	12	28	17	50,0



PLASTIC PUSH-IN FITTINGS FOR HIGH PERFORMANCE

PLUS

SUITABLE FOR CONTACT WITH POTABLE WATER AND FOOD.

STUDIED TO ENSURE A COMPLETE PASSAGE and to keep the characteristics of the fluids unchanged.

DYNAMIC GRIPPING SYSTEM to be used with the food fluids.

EPDM SEALING in order to guarantee a long duration in time.

GREAT CHEMICAL AND MECHANICAL RESISTANCE even at high temperature.

CAN BE USED WITH AIR EVEN AT VERY LOW TEMPERATURES.

SAFETY CLIPS TO AVOID ACCIDENTAL DISCONNECTIONS and for a perfect working even in case of extreme applications.



p. 73 / **HPC-R**



p. 73 / **HPC-G**



p. 74 / **HCF-G**



p. 74 / **HMM**



p. 74 / **HPL-R**



p. 75 / **HRPL-R**



p. 75 / **HRPL-G**



p. 75 / **HRPT-R**



p. 75 / **HRPT-G**



p. 76 / **HRST-R**



p. 76 / **HRST-G**



p. 76 / **HRWT-R**



p. 76 / **HRWT-G**



p. 77 / **HCJ-R**



p. 77 / **HCJ-G**



p. 77 / **HUC**



p. 78 / **HUL**



p. 78 / **HUT**



p. 78 / **HUY**



p. 79 / **HZA**



p. 79 / **HPF**



p. 79 / **HGJ**



p. 80 / **HLJ**



p. 80 / **HCJB**



p. 80 / **HLJB**



p. 81 / **HPP**



p. 81 / **HCF-UNF**



p. 81 / **HCF-UNS**



p. 82 / **HCF-NH**



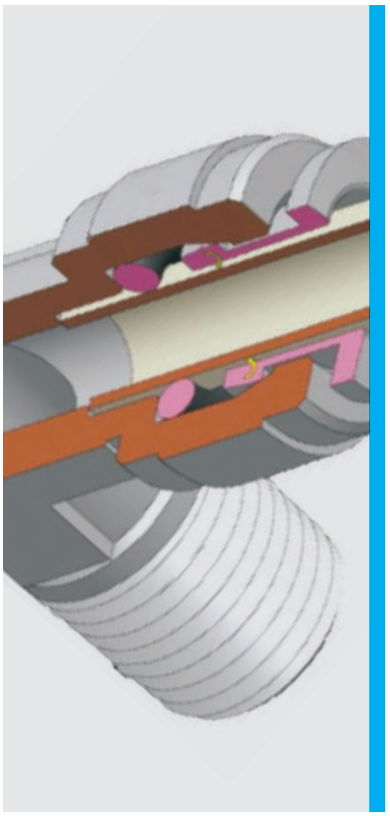
p. 82 / **HCBB**



p. 82 / **HCP**



p. 82 / **HUFF**



Dry air: -20°C ÷ 98°
Air & fluids: 1°C ÷ 98°C
(see the table)

20 Bar - 750 mmHg
(depending from the tubes and temperature applied)

Water, beverages, vacuum, compressed air, selected gases, liquids and fluis compatible with the construction materials.

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G3/4"
UNF 7/16" - 20
UNS 7/16" - 24
NH 3/4

Polyethylene, Polyamide, Polyurethane, PTFE- FEP
Soft metal tubes:
brass, copper and mild steel
Hard metal tubes:
please contact our tecnica department for stainless steel and other hard materials tubes use

Body: POM
Gripping Collet: POM + AISI 301
O-Ring: EPDM suitable for food contact

REACH
Products in compliance with the directive 2002/95/EC

EC1935

RoHS2
Products in compliance with the directive 2011/65/EU

NSF
NSF51-NSF61

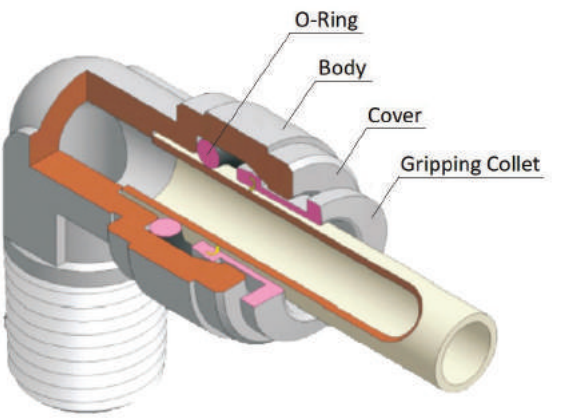
DM174

ACS

WORKING PRESSURE AND TEMPERATURE

Ø / °C	-20 °C	1 °C*	25 °C*	70 °C*	98 °C*
4 mm	0 ↔ 8 Bar With dry air only	20 Bar	20 Bar	16 Bar	10 Bar
6 mm		20 Bar	20 Bar	16 Bar	10 Bar
8 mm		20 Bar	20 Bar	16 Bar	10 Bar
10 mm		16 Bar	16 Bar	14 Bar	10 Bar
12 mm		14 Bar	14 Bar	8 Bar	6 Bar
15 mm		14 Bar	14 Bar	8 Bar	6 Bar
22 mm		14 Bar	14 Bar	8 Bar	6 Bar

CONSTRUCTION MATERIALS



MAX TORQUE

THREADS	1/8	1/4	3/8	1/2	3/4
MAX TORQUE	1,5 Nm	1,5 Nm	3,0 Nm	3,0 Nm	4,0 Nm

INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

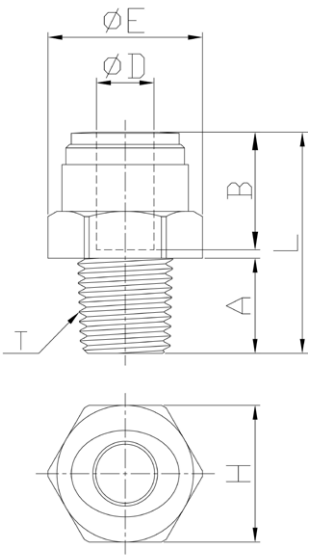
INSERTION TUBE

DIAMETER TUBES Ø	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm	Ø 15 mm	Ø 22 mm
TUBES INSERTION LENGHT (mm)	14,7	16,1	17,5	20,1	24,7	29,4	33,8

HPC-R

Male connector BSPT



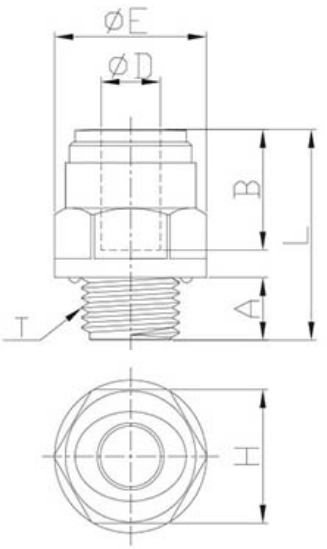


CODE	ØD	T	A	B	ØE	H	L	GR.
HPC04R01W	4	R1/8"	9,1	14,7	18,5	17	26,0	4,1
HPC06R01W	6	R1/8"	9,1	16,1	18,5	17	26,2	3,9
HPC06R02W	6	R1/4"	13,1	16,1	18,5	17	26,7	4,2
HPC06R03W	6	R3/8"	13,5	16,1	21,0	19	26,6	5,9
HPC08R01W	8	R1/8"	9,1	17,5	21,0	19	28,1	5,2
HPC08R02W	8	R1/4"	13,1	17,5	21,0	19	30,6	5,8
HPC08R03W	8	R3/8"	13,5	17,5	21,0	19	27,0	5,7
HPC10R03W	10	R3/8"	13,5	20,1	23,2	21	28,8	6,7
HPC10R04W	10	R1/2"	16,3	20,1	24,4	22	32,1	9,6
HPC12R03W	12	R3/8"	13,5	24,7	26,5	24	32,2	8,9
HPC12R04W	12	R1/2"	16,3	24,7	26,5	24	34,3	11,0

HPC-G

Male connector BSPP



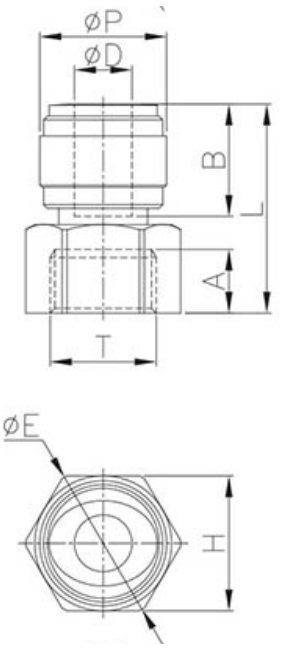


CODE	ØD	T	A	B	ØE	H	L	GR.
HPC04G01W	4	G1/8"	6,0	14,7	16,6	15	21,9	3,3
HPC04G02W	4	G1/4"	8,5	14,7	20,5	18	23,9	4,9
HPC06G01W	6	G1/8"	6,0	16,1	16,6	15	24,1	3,3
HPC06G02W	6	G1/4"	8,5	16,1	20,5	18	24,1	4,8
HPC08G01W	8	G1/8"	6,0	17,5	18,5	17	27,0	5,2
HPC08G02W	8	G1/4"	8,5	17,5	20,5	18	28,5	6,1
HPC08G03W	8	G3/8"	9,0	17,5	24,0	21	26,5	7,0
HPC08G04W	8	G1/2"	12,5	17,5	28,5	26	29,5	11,9
HPC10G02W	10	G1/4"	8,5	20,1	21,1	19	30,8	7,2
HPC10G03W	10	G3/8"	9,0	20,1	24,2	21	26,3	7,0
HPC10G04W	10	G1/2"	12,5	20,1	28,5	26	29,8	11,3
HPC12G03W	12	G3/8"	9,0	24,7	27,0	24	34,2	11,6
HPC12G04W	12	G1/2"	12,5	24,7	28,5	26	32,7	12,4
HPC15G04W	15	G1/2"	12,5	29,4	28,8	26	43,4	17,0
HPC15G06W	15	G3/4"	14,5	29,4	39,0	33	39,0	24,5
HPC22G06W	22	G3/4"	14,5	33,8	37,0	33	51,0	28,2

HCF-G

Female adapter BSPP



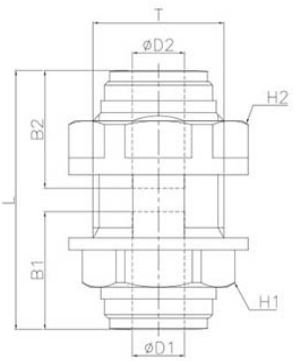


CODE	ØD	T	ØP	L	A	B	H	ØE	GR.
HCF04G01W	4	G1/8"	17,6	26,9	6,0	14,7	17	19,2	6,0
HCF06G01W	6	G1/8"	17,6	27,1	6,0	16,1	17	19,2	6,1
HCF06G02W	6	G1/4"	17,6	29,1	8,5	16,1	19	21,5	7,0
HCF06G03W	6	G3/8"	17,6	30,6	9,0	16,1	24	27,3	9,9
HCF08G01W	8	G1/8"	17,6	27,5	6,0	17,5	17	19,2	6,0
HCF08G02W	8	G1/4"	17,6	29,5	8,5	17,5	19	21,5	6,7
HCF08G03W	8	G3/8"	17,6	31,0	9,0	17,5	24	27,3	9,7
HCF08G04W	8	G1/2"	20,0	38,0	12,5	17,5	27	30,0	13,8
HCF08G06W	8	G3/4"	20,0	36,6	10,0	17,5	36,7	41,6	39,2
HCF10G02W	10	G1/4"	23,0	34,5	8,5	20,1	19	21,5	10,8
HCF10G03W	10	G3/8"	23,0	37,0	9,0	20,1	24	27,3	13,7
HCF10G04W	10	G1/2"	20,0	38,3	12,5	20,1	27	30,0	13,3
HCF10G06W	10	G3/4"	20,0	36,9	10,0	20,1	36,7	41,6	38,6
HCF12G02W	12	G1/4"	23,0	37,7	9,0	24,7	24	27,3	13,0
HCF12G03W	12	G3/8"	23,0	37,7	9,0	24,7	24	27,3	13,0
HCF12G04W	12	G1/2"	23,0	41,7	12,5	24,7	27	30,0	15,4
HCF15G06W	15	G3/4"	28,0	45,4	12,0	29,4	33	37,0	25,1

HMM

Bulkhead connector



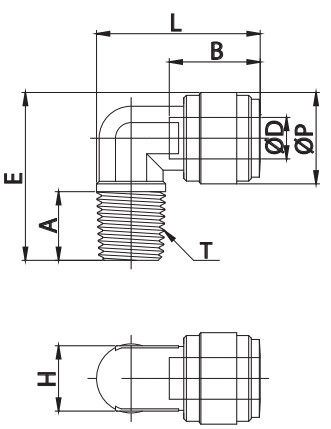


CODE	ØD1	ØD2	T	L	B1	B2	H1	H2	GR.
HMM0404W	4	4	M15X1,5P	32,4	14,7	14,7	17	18	6,9
HMM0604W	6	4	M17X1,5P	35,5	16,1	16,1	19	21	9,8
HMM0606W	6	6	M17X1,5P	35,7	16,1	16,1	19	21	9,6
HMM0806W	8	6	M20X1,75P	38,1	17,5	17,5	21	25,5	14,3
HMM0808W	8	8	M20X1,75P	38,5	17,5	17,5	21	25,5	14,0
HMM1010W	10	10	M24X1,75P	42,2	20,1	20,1	24	28,5	19,5
HMM1212W	12	12	M27X2,0P	51,4	24,7	24,7	27	31	28,2

HPL-R

Male elbow BSPT



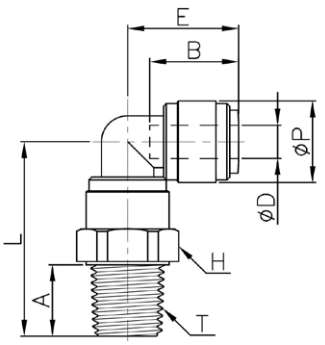


CODE	ØD	T	ØP	A	B	E	H	L	GR.
HPL04R01W	4	R1/8"	15,0	9,1	14,7	25,6	10	25,2	4,2
HPL06R01W	6	R1/8"	15,0	9,1	16,1	25,6	10	25,4	4,1
HPL06R02W	6	R1/4"	15,0	13,1	16,1	30,6	10	27,0	5,1
HPL06R03W	6	R3/8"	17,6	13,5	16,1	32,6	13	33,1	8,4
HPL08R02W	8	R1/4"	17,6	13,1	17,5	32,2	13	31,5	7,0
HPL08R03W	8	R3/8"	17,6	13,5	17,5	32,6	13	33,5	8,0
HPL10R02W	10	R1/4"	23,6	13,1	20,1	38,3	17	37,5	14,1
HPL10R03W	10	R3/8"	20,0	13,5	20,1	35,7	14	33,9	9,2
HPL12R02W	12	R1/4"	23,6	13,1	24,7	38,3	17	38,2	13,1
HPL12R03W	12	R3/8"	23,0	13,5	24,7	38,3	17,0	38,4	13,2
HPL12R04W	12	R1/2"	23,0	16,3	24,7	41,4	17,7	40,7	15,6

HRPL-R

Male swivel elbow BSPT



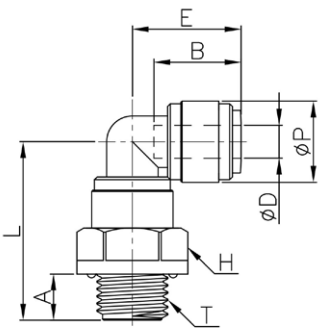


CODE	ØD	T	ØP	A	B	E	H	L	GR.
HRPL06R01W	6	R1/8"	15,0	9,1	16,1	20,1	17	31,7	7,2
HRPL06R01W	6	R1/4"	15,0	13,1	16,1	20,1	17	35,7	8,0
HRPL08R01W	8	R1/8"	17,6	9,1	17,5	21,9	19	33,4	9,9
HRPL08R02W	8	R1/4"	17,6	13,1	17,5	21,9	19	37,4	10,7
HRPL08R03W	8	R3/8"	17,6	13,5	17,5	21,9	19	37,8	11,4
HRPL10R03W	10	R3/8"	20,0	13,5	20,1	25,8	21	41,8	15,4

HRPL-G

Male swivel elbow BSPP



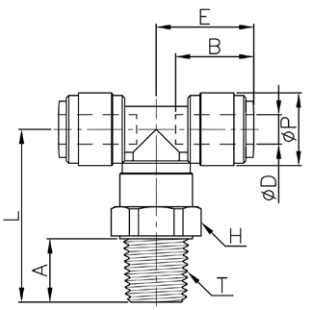


CODE	ØD	T	ØP	A	B	E	H	L	GR.
HRPL08G01W	8	G1/8"	17,6	6,0	17,5	21,9	18,0	31,9	10,4
HRPL08G02W	8	G1/4"	17,6	8,5	17,5	21,9	18,0	34,4	11,0
HRPL08G03W	8	G3/8"	17,6	9,0	17,5	21,9	22,0	34,9	12,8
HRPL10G02W	10	G1/4"	20,0	8,5	20,1	25,8	22,0	38,0	15,4
HRPL10G03W	10	G3/8"	20,0	9,0	20,1	25,8	22,0	38,5	15,8
HRPL10G04W	10	G1/2"	20,0	12,5	20,1	25,8	26,0	42,0	19,1
HRPL12G03W	12	G3/8"	23,0	9,0	24,7	31,7	26,0	43,7	23,2

HRPT-R

Male swivel tee BSPT



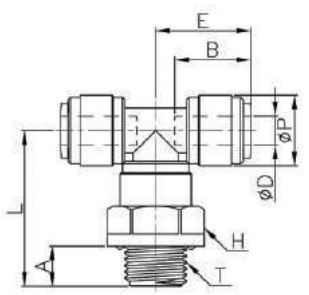


CODE	ØD	T	ØP	A	B	E	H	L	GR.
HRPT06R01W	6	R1/8"	15,0	9,1	16,1	20,1	17,0	31,7	9,3
HRPT06R02W	6	R1/4"	15,0	13,1	16,1	20,1	17,0	35,7	10,3
HRPT08R01W	8	R1/8"	17,6	9,1	17,5	21,9	19,0	33,4	13,1
HRPT08R02W	8	R1/4"	17,6	13,1	17,5	21,9	19,0	37,4	14,0
HRPT08R03W	8	R3/8"	17,6	13,5	17,5	21,9	19,0	37,8	14,6
HRPT10R03W	10	R3/8"	20,0	13,5	20,1	25,8	21,0	41,8	19,4

HRPT-G

Male swivel tee BSPP



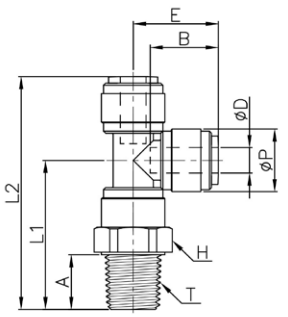


CODE	ØD	T	ØP	A	B	E	H	L	GR.
HRPT08G01W	8	G1/8"	17,6	6,0	17,5	21,9	18	31,9	13,4
HRPT08G02W	8	G1/4"	17,6	8,5	17,5	21,9	18	34,4	14,0
HRPT08G03W	8	G3/8"	17,6	9,0	17,5	21,9	22	34,9	15,8
HRPT10G02W	10	G1/4"	20,0	8,5	20,1	25,8	22	38,0	19,8
HRPT10G03W	10	G3/8"	20,0	9,0	20,1	25,8	22	38,5	20,2
HRPT10G04W	10	G1/2"	20,0	12,5	20,1	25,8	26	42,0	29,5
HRPT12G03W	12	G3/8"	23,0	9,0	24,7	31,7	26	43,7	30,0

HRST-R

Male swivel run tee BSPT



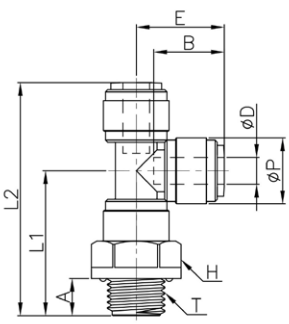


CODE	ØD	T	ØP	A	B	E	H	L1	L2	GR.
HRST06R01W	6	R1/8"	15,0	9,1	16,1	20,1	17	31,7	51,8	9,3
HRST06R02W	6	R1/4"	15,0	13,1	16,1	20,1	17	35,7	55,8	10,2
HRST08R01W	8	R1/8"	17,6	9,1	17,5	21,9	19	33,4	55,3	13,1
HRST08R02W	8	R1/4"	17,6	13,1	17,5	21,9	19	37,4	59,3	14,2
HRST08R03W	8	R3/8"	17,6	13,5	17,5	21,9	19	37,8	59,7	14,6
HRST10R03W	10	R3/8"	20,0	13,5	20,1	25,8	21	41,8	67,6	19,4

HRST-G

Male swivel run tee BSPP



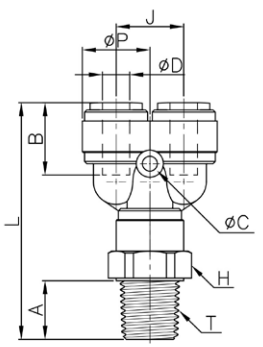


CODE	ØD	T	ØP	A	B	E	H	L1	L2	GR.
HRST08G01W	8	G1/8"	17,6	6,0	17,5	21,9	18,0	31,9	53,8	13,4
HRST08G02W	8	G1/4"	17,6	8,5	17,5	21,9	18,0	34,4	56,3	14,0
HRST08G03W	8	G3/8"	17,6	9,0	17,5	21,9	22,0	34,9	56,8	15,8
HRST10G02W	10	G1/4"	20,0	8,5	20,1	25,8	22,0	38,0	63,8	19,8
HRST10G03W	10	G3/8"	20,0	9,0	20,1	25,8	22,0	38,5	64,3	20,2
HRST10G04W	10	G1/2"	20,0	12,5	20,1	25,8	26,0	42,0	67,8	29,5
HRST12G03W	12	G3/8"	23,0	9,0	24,7	31,7	26,0	43,7	75,4	30,0

HRWT-R

Male swivel Y BSPT



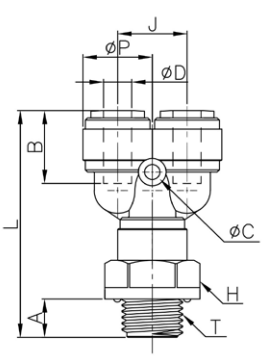


CODE	ØD	T	ØP	A	B	J	H	L	ØC	GR.
HRWT06R01W	6	R1/8"	15,5	9,1	16,1	15,5	17,0	50,4	3,3	11,6
HRWT06R02W	6	R1/4"	15,5	13,1	16,1	15,5	17,0	54,4	3,3	12,5
HRWT08R01W	8	R1/8"	17,6	9,1	17,5	17,6	19,0	52,5	4,5	14,0
HRWT08R02W	8	R1/4"	17,6	13,1	17,5	17,6	19,0	56,5	4,5	14,9
HRWT08R03W	8	R3/8"	17,6	13,5	17,5	17,6	19,0	56,9	4,5	15,5
HRWT10R03W	10	R3/8"	20,0	13,5	20,1	20,0	21,0	62,2	4,5	20,1

HRWT-G

Male swivel Y BSPP



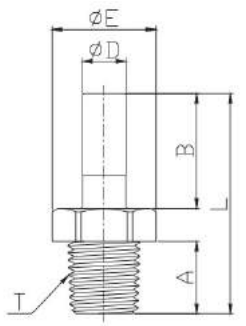


CODE	ØD	T	ØP	A	B	J	H	L	ØC	GR.
HRWT08G01W	8	G1/8"	17,6	6,0	17,5	17,6	18,0	51,0	4,5	13,9
HRWT08G02W	8	G1/4"	17,6	8,5	17,5	17,6	18,0	53,5	4,5	15,1
HRWT08G03W	8	G3/8"	17,6	9,0	17,5	17,6	22,0	54,0	4,5	16,8
HRWT10G02W	10	G1/4"	20,0	8,5	20,1	20,0	22,0	58,4	4,5	20,2
HRWT10G03W	10	G3/8"	20,0	9,0	20,1	20,0	22,0	58,9	4,5	21,6
HRWT10G04W	10	G1/2"	20,0	12,5	20,1	20,0	26,0	62,4	4,5	24,9
HRWT12G03W	12	G3/8"	23,0	9,0	24,7	23,0	26,0	68,4	4,5	33,1

HCJ-R

Stem adapter BSPT



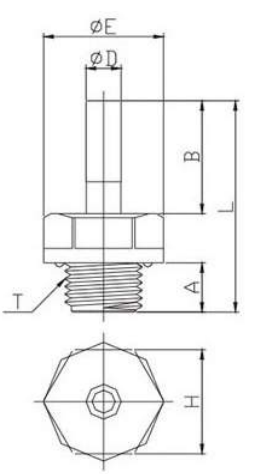


CODE	ØD	T	A	B	ØE	H	L	GR.
HCJ04R01W	4	R1/8"	9,1	18,0	14,4	13	33,1	1,8
HCJ04R02W	4	R1/4"	13,1	18,0	18,5	17	37,1	3,5
HCJ06R01W	6	R1/8"	9,1	19,5	14,4	13	34,6	2,0
HCJ06R02W	6	R1/4"	13,1	19,5	18,5	17	38,6	3,7
HCJ08R01W	8	R1/8"	9,1	21,0	14,4	13	36,1	2,2
HCJ08R02W	8	R1/4"	13,1	21,0	18,5	17	40,1	3,8
HCJ08R03W	8	R3/8"	13,5	21,0	23,0	21	40,5	5,3
HCJ10R02W	10	R1/4"	13,1	24,0	18,5	17	43,1	4,5
HCJ10R03W	10	R3/8"	13,5	24,0	23,0	21	44,0	6,1
HCJ10R04W	10	R1/2"	16,5	24,0	26,5	24	47,0	9,7
HCJ12R03W	12	R3/8"	13,5	28,0	23,0	21	48,0	6,8
HCJ12R04W	12	R1/2"	16,5	28,0	26,5	24	51,0	10,2

HCJ-G

Stem adapter BSPP



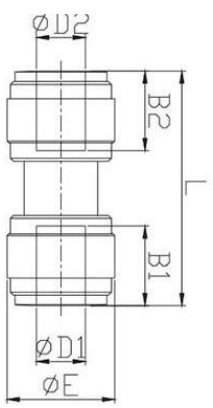


CODE	ØD	T	A	B	ØE	H	L	GR.
HCJ04G01W	4	G1/8"	6,0	18,0	16,6	15	32,5	2,7
HCJ04G02W	4	G1/4"	8,5	18,0	20,5	18	35,0	4,2
HCJ06G01W	6	G1/8"	6,0	19,5	16,6	15	34,0	2,8
HCJ06G02W	6	G1/4"	8,5	19,5	20,5	18	36,5	4,3
HCJ08G01W	8	G1/8"	6,0	21,0	16,6	15	35,5	3,0
HCJ08G02W	8	G1/4"	8,5	21,0	20,5	18	38,0	4,6
HCJ08G03W	8	G3/8"	9,0	21,0	24,2	22	38,5	6,2
HCJ10G02W	10	G1/4"	8,5	24,0	20,5	18	41,0	5,2
HCJ10G03W	10	G3/8"	9,0	24,0	24,2	22	41,5	6,8
HCJ10G04W	10	G1/2"	12,5	24,0	28,5	26	45,0	10,7
HCJ12G03W	12	G3/8"	9,0	28,0	24,2	22	45,5	7,3
HCJ12G04W	12	G1/2"	12,5	28,0	28,5	26	49,0	11,2
HCJ15G04W	15	G1/2"	12,5	36,0	28,8	26	57,0	13,8

HUC

Union connector



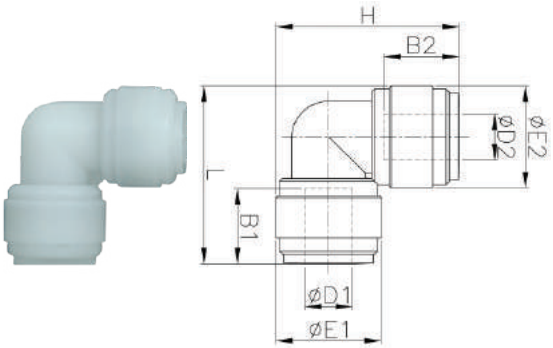


CODE	ØD1	ØD2	B1	B2	ØE	L	GR.
HUC0404W	4	4	14,7	14,7	13,2	31,8	3,8
HUC0606W	6	6	16,1	16,1	15,0	35,2	4,7
HUC0808W	8	8	17,5	17,5	17,6	38,2	6,9
HUC1010W	10	10	20,1	20,1	20,0	42,7	9,2
HUC1212W	12	12	24,7	24,7	23,0	52,4	14,4
HUC1515W	15	15	29,4	29,4	28,0	61,8	23,4
HUC2222W	22	22	33,8	33,8	35,5	70,6	37,7

HUC0604W	6	4	16,1	14,7	15,0	35,0	5,0
HUC0605W	6	5	16,1	14,9	15,0	35,1	5,0
HUC0806W	8	6	17,5	16,1	17,6	37,8	7,1
HUC1006W	10	6	20,1	16,1	20,0	42,0	9,8
HUC1008W	10	8	20,1	17,5	20,0	42,4	9,6
HUC1210W	12	10	24,7	20,1	23,0	51,7	15,0

HUL

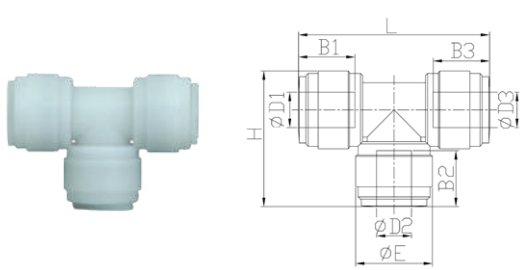
Union elbow



CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	GR.
HUL0404W	4	4	14,7	14,7	13,2	13,2	24,5	24,5	3,9
HUL0606W	6	6	16,1	16,1	15,0	15,0	27,6	27,6	5,1
HUL0808W	8	8	17,5	17,5	17,6	17,6	30,7	30,7	7,6
HUL1010W	10	10	20,1	20,1	20,0	20,0	35,8	35,8	10,2
HUL1212W	12	12	24,7	24,7	23,0	23,0	43,2	43,2	16,4
HUL1515W	15	15	29,4	29,4	28,0	28,0	52,2	52,2	27,4
HUL2222W	22	22	33,8	33,8	35,5	35,5	63,9	63,9	46,8
HUL0804W	8	4	17,5	14,7	17,6	13,2	28,3	29,7	5,9
HUL0806W	8	6	17,5	16,1	17,6	17,6	30,7	30,3	7,7
HUL1006W	10	6	20,1	16,1	23,0	17,6	37,8	36,1	12,6
HUL1008W	10	8	20,1	17,5	20,0	20,0	35,8	35,5	10,2
HUL1206W	12	6	24,7	16,1	23,0	17,6	38,5	36,1	12,0
HUL1208W	12	8	24,7	17,5	23,0	17,6	38,5	36,5	11,9
HUL1210W	12	10	24,7	20,1	23,0	23,0	43,2	42,5	17,3

HUT

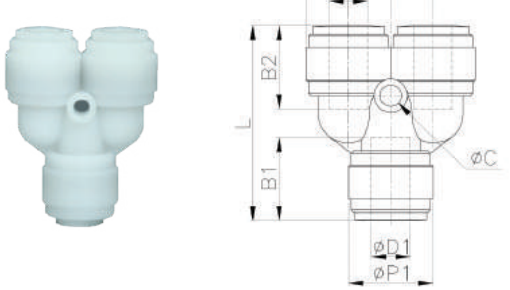
Union tee



CODE	ØD1	ØD2	ØD3	B1	B2	B3	ØE	H	L	GR.
HUT0404W	4	4	4	14,7	14,7	14,7	13,2	24,5	35,8	5,8
HUT0606W	6	6	6	16,1	16,1	16,1	15,0	27,6	40,2	7,3
HUT0808W	8	8	8	17,5	17,5	17,5	17,6	30,7	43,8	10,6
HUT1010W	10	10	10	20,1	20,1	20,1	20,0	35,8	51,6	14,6
HUT1212W	12	12	12	24,7	24,7	24,7	23,0	43,2	63,4	23,2
HUT1515W	15	15	15	29,4	29,4	29,4	28,0	52,2	76,4	38,2
HUT2222W	22	22	22	33,8	33,8	33,8	35,5	63,9	92,3	64,0
HUT100610W	10	6	10	20,1	16,1	20,1	15,0	35,1	51,6	15,3
HUT100806W	10	8	6	20,1	17,5	16,1	17,6	35,1	51,3	15,6
HUT121012W	12	10	12	24,7	20,1	24,7	20,0	42,5	63,4	24,2
HUT221222W	22	12	22	33,8	24,7	33,8	23,0	55,8	83,0	50,3
HUT221522W	22	15	22	33,8	29,4	33,8	28,0	61,0	87,0	57,1

HUY

Union Y

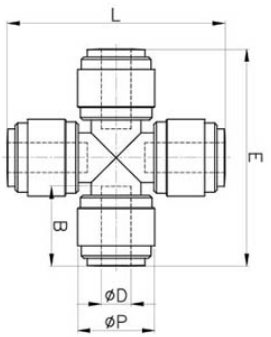


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L	J	ØC	GR.
HUY0404W	4	4	14,7	14,7	13,8	13,8	33,7	13,5	3,3	6,7
HUY0606W	6	6	16,1	16,1	15,5	15,5	38,8	15,5	3,3	9,2
HUY0808W	8	8	17,5	17,5	17,6	17,6	41,0	17,6	4,5	11,6
HUY1010W	10	10	20,1	20,1	20,0	20,0	46,2	20,0	4,5	16,0
HUY1212W	12	12	24,7	24,7	23,0	23,0	56,4	23,0	4,5	26,3
HUY1008W	10	8	20,1	17,5	20,0	20,0	45,9	20,0	4,5	16,8

HZA

Cross junction



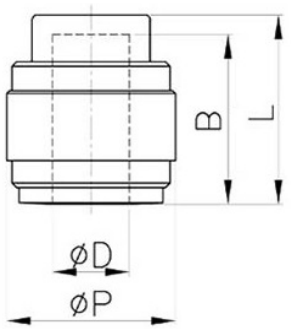


CODE	ØD	ØP	L	E	B	GR.
HZA0606W	6	15,5	43,8	43,8	16,1	9,7

HPF

Female plug



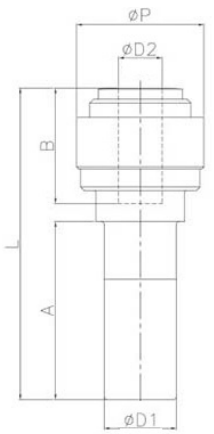


CODE	ØD	ØP	L	B	GR.
HPF06W	6	15,5	18,9	16,1	2,8
HPF08W	8	17,6	19,5	17,5	3,6
HPF10W	10	20,0	22,1	20,1	4,7
HPF12W	12	23,0	26,7	24,7	7,3
HPF15W	15	28,0	32,1	29,4	12,6
HPF22W	22	35,5	36,6	33,8	20,6

HGJ

Reducer



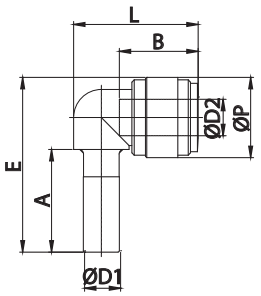


CODE	ØD1	ØD2	ØP	L	A	B	GR.
HGJ0604W	6	4	13,2	36,7	21,0	14,7	2,4
HGJ0804W	8	4	15,5	40,4	22,5	14,7	3,7
HGJ0806W	8	6	15,5	40,6	22,5	16,1	3,5
HGJ0810W	8	10	20,0	44,9	22,5	20,1	5,4
HGJ1006W	10	6	17,6	43,4	24,8	16,1	5,2
HGJ1008W	10	8	17,6	43,8	24,8	17,5	5,1
HGJ1208W	12	8	20,0	51,3	29,5	17,5	7,3
HGJ1210W	12	10	20,0	51,6	29,5	20,1	6,9
HGJ1510W	15	10	20,0	61,0	35,0	20,1	12,0
HGJ1512W	15	12	23,6	61,7	35,0	24,7	11,3

HLJ

Union elbow tube with stem



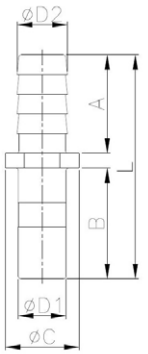


CODE	ØD1	ØD2	ØP	A	B	E	L	GR.
HLJ0404W	4	4	13,2	18,0	14,7	30,1	21,9	2,5
HLJ0606W	6	6	15,5	21,0	16,1	34,8	25,1	3,7
HLJ0808W	8	8	17,6	22,5	17,5	38,3	27,7	5,3
HLJ1010W	10	10	20,0	24,8	20,1	43,2	31,3	7,4
HLJ1212W	12	12	23,6	29,5	24,7	51,2	39,0	12,6
HLJ1515W	15	15	28,0	35,0	29,4	61,3	48,5	21,7
HLJ0608W	6	8	17,6	21,0	17,5	36,8	26,0	4,7
HLJ1006W	10	6	20,0	24,8	16,1	43,2	30,6	7,8
HLJ1008W	10	8	20,0	24,8	17,5	43,2	31,0	8,2

HCJB

Tube barb connector



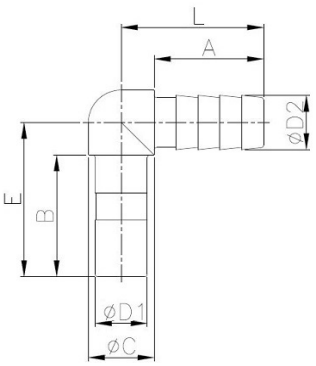


CODE	ØD1	ØD2	ØC	L	A	B	GR.
HCJB0604W	6	4	11,4	38,2	18,0	17,2	-
HCJB0606W	6	6	11,4	38,2	18,0	17,2	-
HCJB0806W	8	6	12,2	40,0	18,0	19,0	-
HCJB1006W	10	6	14,7	43,5	18,0	22,5	2,1
HCJB1008W	10	8	14,7	43,5	18,0	22,5	2,3

HLJB

Elbow tube barb connector



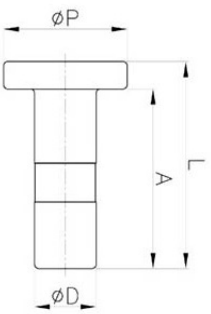


CODE	ØD1	ØD2	ØC	L	E	A	B	GR.
HLJB1006W	10	6	12,0	24,0	28,5	18,0	22,5	3,2
HLJB1008W	10	8	12,0	24,0	28,5	18,0	22,5	3,4

HPP

Male plug



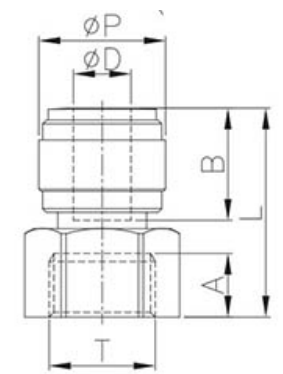


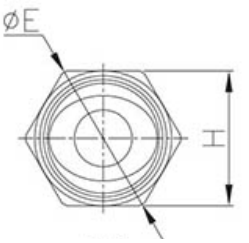
CODE	ØD	ØP	L	A	GR.
HPP04W	4	13	22,5	19,0	0,8
HPP06W	6	13	24,5	21,0	1,1
HPP08W	8	16	26,5	23,0	1,8
HPP10W	10	18	30,0	26,0	2,7
HPP12W	12	21	34,0	30,0	4,0
HPP15W	15	25	40,0	36,0	6,4
HPP22W	22	33	45,5	41,0	12,2

HCF-UNF

Female adapter UNF





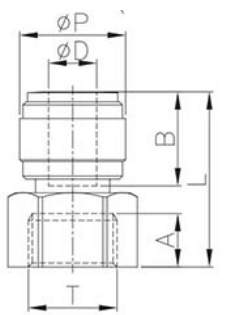


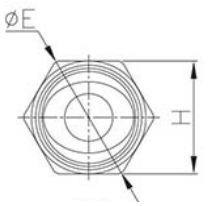
CODE	ØD	T (UNF)	ØP	L	A	B	H	ØE	GR.
HCF06-UNF7/16-20W	6	7/16-20	17,6	30,1	9,5	16,1	17	19	6,5
HCF08-UNF7/16-20W	8	7/16-20	17,6	30,5	9,5	17,5	17	19	6,5
HCF10-UNF7/16-20W	10	7/16-20	20,0	33,1	9,5	20,1	17	19	7,5

HCF-UNS

Female adapter UNS







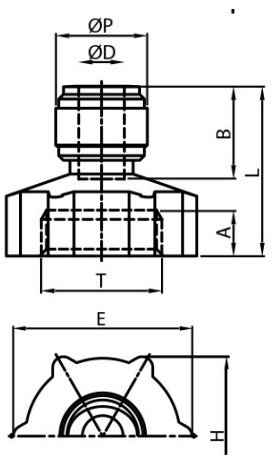
CODE	ØD	T (UNF)	ØP	L	A	B	H	ØE	GR.
HCF06-UNS7/16-24W	6	7/16-24	17,6	27,1	6,7	16,1	17	19	6,1
HCF08-UNS7/16-24W	8	7/16-24	17,6	27,5	6,7	17,5	17	19	6,1

HCF-NH

Female adapter NH



Brass thread

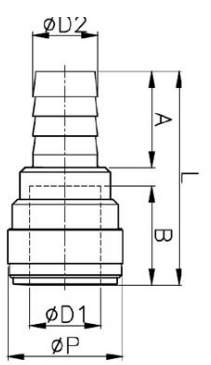


CODE	ØD	T (NH)	ØP	L	A	B	H	ØE	GR.
HCF06-NH06W	6	3/4	15,5	34,2	10,0	16,1	36,7	41,6	34,9
HCF08-NH06W	8	3/4	20,0	36,6	10,0	17,5	36,7	41,6	36,5
HCF10-NH06W	10	3/4	20,0	36,9	10,0	20,1	36,7	41,6	38,1

HCBB

Barb connector



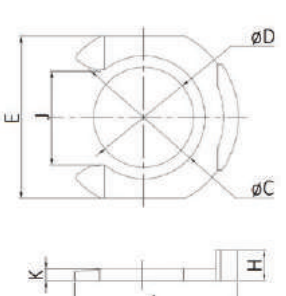


CODE	ØD1	ØD2	ØP	L	A	B	GR.
HCBB1210W	12	10	23,0	46,9	20,0	24,7	8,5
HCBB15-1/2W	15	1/2	28,0	54,2	22,3	29,4	14,0
HCBB22-1/2W	22	1/2	35,7	58,8	22,3	33,8	22,1
HCBB22-3/4W	22	3/4	35,7	66,5	30,0	33,8	25,7

HCP

Black locking Clip



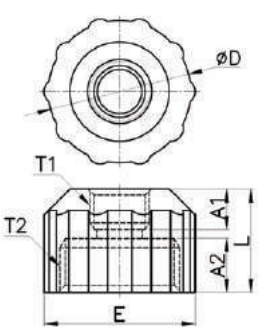


CODE	ØD	ØC	E	L	H	J	K	GR.
HCP04-5/32BK	04 - 5/32	6,2	10,2	11,0	2,8	4,3	1,1	0,09
HCP05-3/16BK	05 - 3/16	6,2	10,2	11,0	2,8	4,3	1,1	0,09
HCP06-1/4BK	06 - 1/4	8,0	11,6	11,6	3,1	6,4	1,3	0,12
HCP08-5/16BK	08 - 5/16	9,6	13,5	13,9	3,3	7,3	1,4	0,16
HCP10-3/8BK	10 - 3/8	11,8	16,0	16,4	3,4	9,2	1,4	0,23
HCP12-1/2BK	12 - 1/2	14,4	19,0	19,0	3,6	11,1	1,4	0,30
HCP15	15	17,0	22,5	22,6	3,6	13,1	1,4	0,45
HCP22	22	24,0	30,0	29,3	3,8	19,1	1,9	0,84

HUFF

Threaded reducer





CODE	T1	T2	ØD	A1	A2	L	E	GR.
HUFFG02-G06G	G1/4"	G3/4"	31,5	9,5	12,0	23,0	33,5	15,6
HUFFG03-G06G	G3/8"	G3/4"	31,5	9,5	12,0	23,0	33,5	14,5

PUSH-IN FITTINGS
INOX AISI 316

PLUS

- SUITABLE FOR CONTACT WITH POTABLE WATER AND FOOD.
- HIGH CHEMICAL AND CORROSION RESISTANCE
- SOLID AND RELIABLE TO BE USED FOR AGGRESSIVE APPLICATIONS
- COMPLETELY IN STAINLESS STEEL
- SPECIAL GREEN COLOR FKM SEALING, EASILY TO BE IDENTIFIED



p. 86 / **SXC-R**



p. 86 / **SXC-G**



p. 86 / **SXMM**



p. 87 / **SXME**



p. 87 / **SXL-R**



p. 88 / **SXL-G**



p. 88 / **SXT-R**



p. 89 / **SXT-G**



p. 89 / **SXST-R**



p. 90 / **SXTR**



p. 90 / **SXTA**



p. 90 / **SXUC**



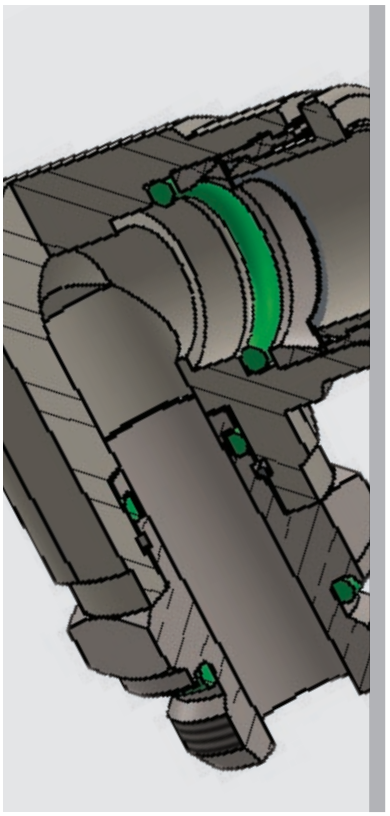
p. 91 / **SXUL**



p. 91 / **SXUT**



p. 91 / **SXGJ**



-20°C ÷ 150°C

Up to 20 Bar at 20°C

Compressed air, potable water and food fluids compatible with the construction materials.

Taper gas ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5x0,8P

Polyethylene, Polyamide, PTFE- FEP

Body: stainless steel AISI 316 ASTM A-479 for SXC, SXMM, SXUC, SXGJ, SXTR, stainless steel AISI 316 ASTM A-182 for all the other fittings

Collet:
stainless steel AISI 316

Lock claw:
stainless steel AISI 303

Seals:
viton

Retaining ring for swivel systems:
AISI 302 stainless steel (1.4310)

REACH Products in compliance with the directive 2002/95/EC

RoHS2 Products in compliance with the directive 2011/65/EU

DM174 EC1935

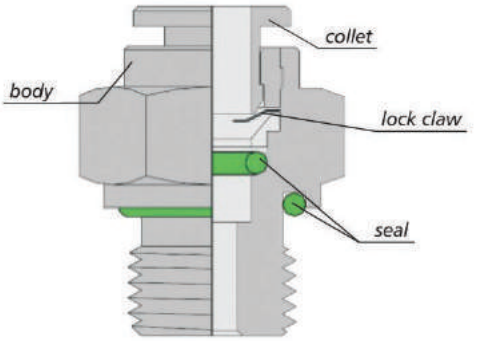
INSERTION OF THE TUBE INTO THE FITTING

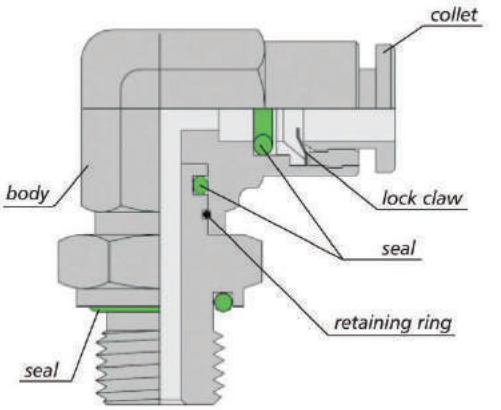
- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a paper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

CONSTRUCTION MATERIALS

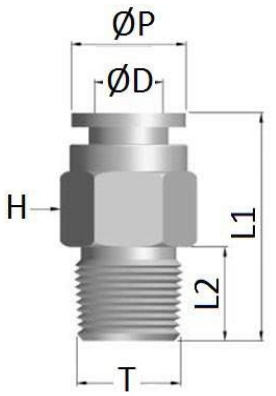




SXC-R

Male connector BSPT thread



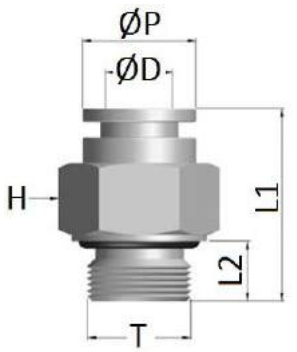


CODE	ØD	T	ØP	L1	L2	H	GR.
SXC04R01	4	R1/8"	10,0	22,6	7,5	11,0	10,0
SXC04R02	4	R1/4"	10,0	23,3	11,0	14,0	19,0
SXC06R01	6	R1/8"	12,4	23,3	7,5	13,0	13,0
SXC06R02	6	R1/4"	12,4	22,8	11,0	14,0	17,0
SXC08R01	8	R1/8"	14,0	26,3	7,5	14,0	16,0
SXC08R02	8	R1/4"	14,0	26,3	11,0	14,0	19,0
SXC08R03	8	R3/8"	14,0	24,3	11,5	17,0	33,0
SXC10R02	10	R1/4"	16,5	29,3	11,0	17,0	26,0
SXC10R03	10	R3/8"	16,5	26,8	11,5	17,0	28,0
SXC12R02	12	R1/4"	19,0	31,0	11,0	20,6	40,0
SXC12R03	12	R3/8"	19,0	28,2	11,5	20,6	42,0
SXC12R04	12	R1/2"	19,0	28,2	15,0	22,0	58,0
SXC14R04	14	R1/2"	21,8	32,2	15,0	22,0	54,0

SXC-G

Male connector BSPP & metric thread



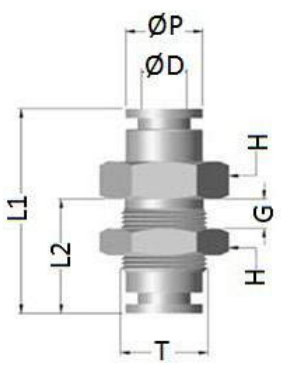


CODE	ØD	T	ØP	L1	L2	H	GR.
SXC04M5	4	M5	9,8	24,4	7,5	11,1	10,0
SXC04G01	4	G1/8"	9,8	22,6	8,0	14,2	17,0
SXC04G02	4	G1/4"	9,8	24,1	10,0	17,4	24,0
SXC06M5	6	M5	12,5	24,8	5,5	12,7	10,0
SXC06G01	6	G1/8"	12,5	24,6	8,0	14,2	16,0
SXC06G02	6	G1/4"	12,5	24,6	10,0	17,4	23,0
SXC08G01	8	G1/8"	14,2	27,6	8,0	14,2	17,0
SXC08G02	8	G1/4"	14,2	26,6	10,0	17,4	24,0
SXC08G03	8	G3/8"	14,2	26,7	10,0	20,6	37,0
SXC10G02	10	G1/4"	16,4	29,6	10,0	17,4	28,0
SXC10G03	10	G3/8"	16,4	26,8	10,0	20,6	35,0
SXC12G02	12	G1/4"	19,0	31,0	10,0	20,6	35,0
SXC12G03	12	G3/8"	19,0	31,0	10,0	20,6	40,0
SXC12G04	12	G1/2"	19,0	30,5	12,0	27,0	64,0
SXC14G04	14	G1/2"	21,8	31,5	12,0	27,0	103,0
SXC16G04	16	G1/2"	23,3	32,2	10,0	27,0	-

SXMM

Bulkhead connector

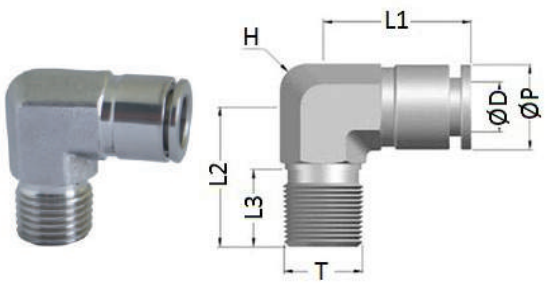




CODE	ØD	T	ØP	L1	L2	G	H	GR.
SXMM0400	4	M11X0,75	10,0	33,0	18,8	6	14	24,0
SXMM0600	6	M14X1	12,4	35,0	19,3	6	19	38,0
SXMM0800	8	M16X1	14,0	36,0	20,3	6	20,6	45,0
SXMM1000	10	M18X1	16,5	42,0	24,8	8	22	64,0
SXMM1200	12	M22X1,5	19,0	46,4	25,2	10	27	100,0
SXMM1400	14	M24X1,5	21,8	48,4	27,2	10	28,6	112,0
SXMM1600	16	M26X1,5	23,3	48,4	27,2	10	30	124,0

SXME

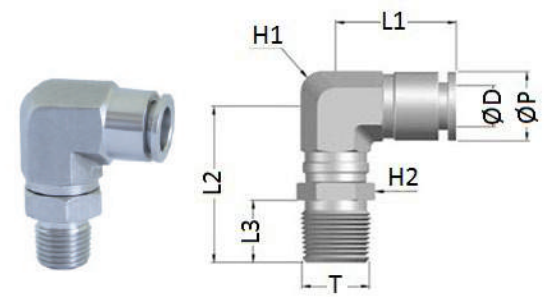
Male elbow BSPT thread



CODE	ØD	T	ØP	L1	L2	L3	H	GR.
SXME04R01	4	R1/8"	9,8	16,4	17,3	8,5	11,1	20,0
SXME04R02	4	R1/4"	9,8	18,0	23,5	12,5	14,2	45,0
SXME06R01	6	R1/8"	12,5	20,6	18,0	8,5	12,7	30,0
SXME06R02	6	R1/4"	12,5	21,4	23,5	12,5	14,2	42,0
SXME08R01	8	R1/8"	14,2	21,4	19,5	8,5	14,2	33,0
SXME08R02	8	R1/4"	14,2	21,4	23,5	12,5	14,2	39,0
SXME08R03	8	R3/8"	14,2	24,6	25,2	12,5	17,4	64,0
SXME10R02	10	R1/4"	16,4	24,6	25,2	12,5	17,4	88,0
SXME10R03	10	R3/8"	16,4	24,6	25,2	12,5	17,4	64,0
SXME12R02	12	R1/4"	19,0	25,6	26,9	12,5	20,6	82,0
SXME12R03	12	R3/8"	19,0	25,6	26,9	12,5	20,6	88,0
SXME12R04	12	R1/2"	19,0	25,6	30,9	16,5	20,6	127,0
SXME14R03	14	R3/8"	21,8	28,0	26,0	11,5	20,6	-
SXME14R04	14	R1/2"	21,8	28,0	29,5	15,0	20,6	-

SXL-R

Swivel male elbow BSPT thread

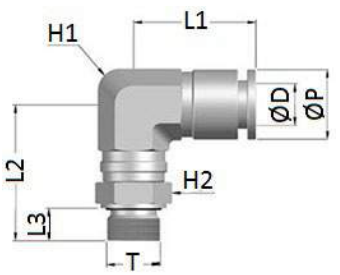


CODE	ØD	T	ØP	L1	L2	L3	H1	H2	GR.
SXL04R01	4	R1/8"	9,8	17,1	26,7	8,5	11,1	11,1	27,0
SXL04R02	4	R1/4"	9,8	17,1	29,8	12,5	11,1	14,2	38,0
SXL06R01	6	R1/8"	12,5	20,6	27,7	8,5	12,7	12,7	36,0
SXL06R02	6	R1/4"	12,5	20,6	30,7	12,5	12,7	14,2	42,0
SXL08R01	8	R1/8"	14,2	21,4	28,7	8,5	14,2	14,2	44,0
SXL08R02	8	R1/4"	14,2	21,4	32,7	12,5	14,2	14,2	48,0
SXL08R03	8	R3/8"	14,2	21,4	32,7	12,5	14,2	17,4	61,0
SXL10R02	10	R1/4"	16,4	24,6	33,9	12,5	17,4	17,4	72,0
SXL10R03	10	R3/8"	16,4	24,6	34,1	12,5	17,4	17,4	78,0
SXL12R02	12	R1/4"	19,0	25,6	37,3	12,5	20,6	20,6	105,0
SXL12R03	12	R3/8"	19,0	25,6	37,3	12,5	20,6	20,6	106,0
SXL12R04	12	R1/2"	19,0	25,6	39,8	16,5	20,6	22,2	124,0
SXL14R03	14	R3/8"	21,8	28,7	38,5	11,5	22,0	22,0	-
SXL14R04	14	R1/2"	21,8	27,5	42,6	16,5	22,2	22,2	151,0

SXL-G

Swivel male elbow BSPP & metric thread



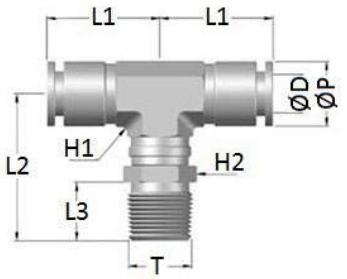


CODE	ØD	T	ØP	L1	L2	L3	H1	H2	GR.
SXL04M5	4	M5	9,8	17,1	26,5	7,5	11,1	11,1	27,0
SXL04G01	4	G1/8"	9,8	17,1	26,9	8,0	11,1	14,2	31,0
SXL04G02	4	G1/4"	9,8	17,1	28,9	10,0	11,1	17,4	41,0
SXL06M5	6	M5	12,5	20,6	25,8	5,5	12,7	12,7	27,0
SXL06G01	6	G1/8"	12,5	20,6	27,8	8,0	12,7	14,2	35,0
SXL06G02	6	G1/4"	12,5	20,6	30,0	10,0	12,7	17,4	45,0
SXL08G01	8	G1/8"	14,2	21,4	29,8	8,0	14,2	14,2	45,0
SXL08G02	8	G1/4"	14,2	21,4	32,0	10,0	14,2	17,4	53,0
SXL08G03	8	G3/8"	14,2	21,4	32,0	10,0	14,2	20,6	63,0
SXL10G02	10	G1/4"	16,4	24,6	33,1	10,0	17,4	17,4	75,0
SXL10G03	10	G3/8"	16,4	24,6	33,1	10,0	17,4	20,6	80,0
SXL12G02	12	G1/4"	19,0	25,6	35,3	10,0	20,6	19,0	103,0
SXL12G03	12	G3/8"	19,0	25,6	35,8	10,0	20,6	20,6	103,0
SXL12G04	12	G1/2"	19,0	25,6	38,8	12,0	20,6	27,0	132,0
SXL14G04	14	G1/2"	21,8	27,5	40,8	12,0	22,2	27,0	162,0
SXL16G04	16	G1/2"	23,3	30,0	39,6	10,0	24,0	27,0	-

SXT-R

Swivel male tee BSPT thread

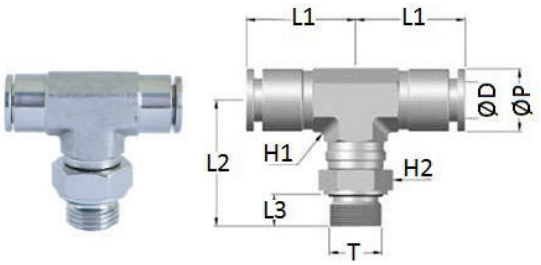




CODE	ØD	T	ØP	L1	L2	L3	H1	H2	GR.
SXT04R01	4	R1/8"	9,8	34,2	26,7	8,5	11,1	11,1	35,0
SXT04R02	4	R1/4"	9,8	34,2	29,8	12,5	11,1	14,2	48,0
SXT06R01	6	R1/8"	12,5	41,2	27,7	8,5	12,7	12,7	42,0
SXT06R02	6	R1/4"	12,5	41,2	30,7	12,5	12,7	14,2	48,0
SXT08R01	8	R1/8"	14,2	42,8	28,7	8,5	14,2	14,2	53,0
SXT08R02	8	R1/4"	14,2	42,8	32,7	12,5	14,2	14,2	59,0
SXT08R03	8	R3/8"	14,2	42,8	32,7	12,5	14,2	17,4	70,0
SXT10R02	10	R1/4"	16,4	49,2	33,9	12,5	17,4	17,4	86,0
SXT10R03	10	R3/8"	16,4	49,2	34,1	12,5	17,4	17,4	93,0
SXT12R02	12	R1/4"	19,0	51,2	37,3	12,5	20,6	20,6	123,0
SXT12R03	12	R3/8"	19,0	51,2	37,3	12,5	20,6	20,6	128,0
SXT12R04	12	R1/2"	19,0	51,2	39,8	16,5	20,6	22,2	145,0
SXT14R03	14	R3/8"	21,8	28,7	38,5	11,5	22,0	22,0	-
SXT14R04	14	R1/2"	21,8	28,7	42,2	15,0	22,0	22,0	-

SXT-G

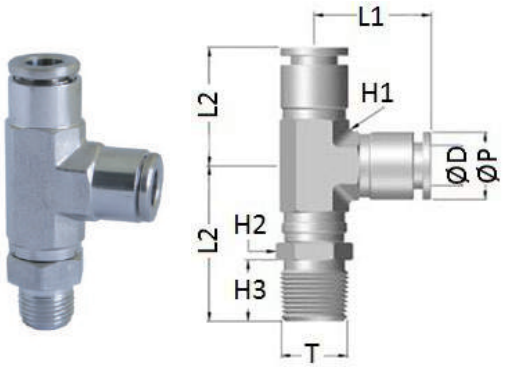
Swivel male tee BSPP & metric thread



CODE	ØD	T	ØP	L1	L2	L3	H1	H2	GR.
SXT04M5	4	M5	9,8	34,2	26,5	7,5	11,1	11,1	31,0
SXT04G01	4	G1/8"	9,8	34,2	26,9	8,0	11,1	14,2	36,0
SXT04G02	4	G1/4"	9,8	34,2	28,9	10,0	11,1	17,4	44,0
SXT06G01	6	G1/8"	12,5	41,2	27,8	8,0	12,7	14,2	45,0
SXT06G02	6	G1/4"	12,5	41,2	30,0	10,0	12,7	17,4	53,0
SXT08G01	8	G1/8"	14,2	42,8	29,8	8,0	14,2	14,2	53,0
SXT08G02	8	G1/4"	14,2	42,8	32,0	10,0	14,2	17,4	60,0
SXT08G03	8	G3/8"	14,2	42,8	32,0	10,0	14,2	20,6	72,0
SXT10G02	10	G1/4"	16,4	49,2	33,1	10,0	17,4	17,4	84,0
SXT10G03	10	G3/8"	16,4	49,2	33,1	10,0	17,4	20,6	91,0
SXT12G02	12	G1/4"	19,0	51,2	35,3	10,0	20,6	19,0	122,0
SXT12G03	12	G3/8"	19,0	51,2	35,8	10,0	20,6	20,6	129,0
SXT12G04	12	G1/2"	19,0	51,2	38,8	12,0	20,6	27,0	149,0
SXT14G03	14	G3/8"	21,8	28,7	35,4	7,5	22	22	156,0
SXT14G04	14	G1/2"	21,8	28,7	38,4	10,7	22	27	163,0
SXT16G04	16	G1/2"	23,3	30,0	39,6	10,0	24	27	169,0

SXST-R

Swivel lateral male tee BSPT thread

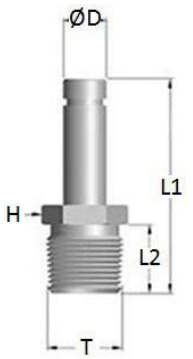


CODE	ØD	T	ØP	L1	L2	L3	H1	H2	GR.
SXST04M5	4	M5	10,0	20,3	24,0	5,0	10	11	26,0
SXST04R01	4	R1/8"	10,0	20,3	25,6	7,5	10	11	35,0
SXST04R02	4	R1/4"	10,0	20,3	29,3	11,0	10	14	48,0
SXST06R01	6	R1/8"	12,4	21,0	26,8	7,5	12	13	42,0
SXST06R02	6	R1/4"	12,4	21,0	30,5	11,0	12	14	48,0
SXST08R01	8	R1/8"	14,0	23,2	27,8	7,5	14	14	53,0
SXST08R02	8	R1/4"	14,0	23,2	31,5	11,0	14	14	59,0
SXST08R03	8	R3/8"	14,0	23,2	32,3	11,5	14	17	70,0
SXST10R02	10	R1/4"	16,5	24,3	33,0	11,0	16	16	86,0
SXST10R03	10	R3/8"	16,5	24,3	33,7	11,5	16	17	93,0
SXST12R02	12	R1/4"	19,0	26,7	35,0	11,0	19	19	123,0
SXST12R03	12	R3/8"	19,0	26,7	35,6	11,5	19	19	128,0
SXST12R04	12	R1/2"	19,0	26,7	39,4	15,0	19	22	145,0
SXST14R03	14	R3/8"	21,8	28,7	38,5	11,5	22	22	139,0
SXST14R04	14	R1/2"	21,8	28,7	42,2	15,0	22	22	151,0

SXTR

Adapter BSPT thread



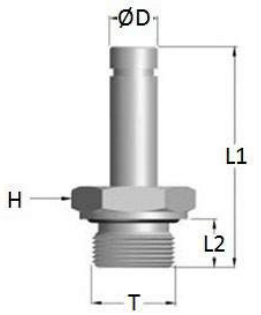


CODE	ØD	T	L1	L2	H	GR.
SXTR04R01	4	R1/8"	36,5	7,5	11	11,0
SXTR04R02	4	R1/4"	40,0	11,0	14	20,0
SXTR06R01	6	R1/8"	38,5	7,5	11	11,0
SXTR06R02	6	R1/4"	42,0	11,0	14	22,0
SXTR08R01	8	R1/8"	38,5	7,5	11	13,0
SXTR08R02	8	R1/4"	42,0	11,0	14	23,0
SXTR08R03	8	R3/8"	42,5	11,5	17	35,0
SXTR10R02	10	R1/4"	42,0	11,0	14	24,0
SXTR10R03	10	R3/8"	42,5	11,5	17	37,0
SXTR12R02	12	R1/4"	44,5	11,0	14	28,0
SXTR12R03	12	R3/8"	45,0	11,5	17	41,0
SXTR12R04	12	R1/2"	48,5	15,0	22	46,0
SXTR14R03	14	R3/8"	47,0	11,5	17	45,0
SXTR14R04	14	R1/2"	50,0	15,0	22	50,0

SXTA

Adapter BSPP & metric thread





CODE	ØD	T	L1	L2	H	GR.
SXTA04M5	4	M5	34,0	5,0	11	8,0
SXTA04G01	4	G1/8"	34,8	5,8	14	15,0
SXTA04G02	4	G1/4"	36,7	7,5	17	25,0
SXTA06G01	6	G1/8"	37,0	5,8	14	16,0
SXTA06G02	6	G1/4"	39,2	7,5	17	27,0
SXTA08G01	8	G1/8"	37,0	5,8	14	18,0
SXTA08G02	8	G1/4"	39,2	7,5	17	28,0
SXTA10G02	10	G1/4"	39,2	7,5	17	30,0
SXTA10G03	10	G3/8"	39,4	7,5	20,6	44,0
SXTA12G02	12	G1/4"	41,2	7,5	17	37,0
SXTA12G03	12	G3/8"	41,2	7,5	20,6	45,0
SXTA12G04	12	G1/2"	44,4	10,0	27	51,0
SXTA14G03	14	G3/8"	42,2	7,5	20,6	50,0
SXTA14G04	14	G1/2"	45,8	10,0	27	57,0
SXTA16G04	16	G1/2"	45,8	10,0	27	58,0

SXUC

Union connector

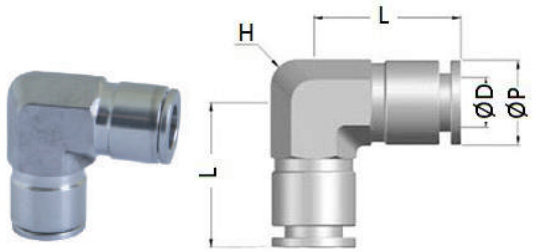




CODE	ØD	ØP	L	GR.
SXUC0400	4	10,0	34,6	14,0
SXUC0600	6	12,4	35,6	20,0
SXUC0800	8	14,0	35,6	21,0
SXUC1000	10	16,5	35,6	30,0
SXUC1200	12	19,0	38,8	40,0
SXUC1400	14	21,8	40,8	53,0
SXUC1600	16	23,3	40,8	61,0

SXUL

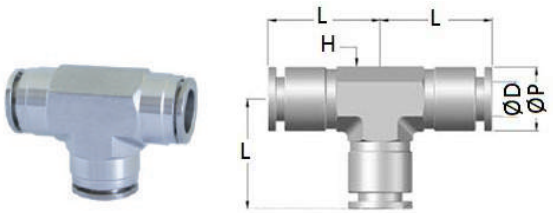
Union elbow



CODE	ØD	ØP	L	H	GR.
SXUL0400	4	10,0	20,3	10	21,0
SXUL0600	6	12,4	22,0	12	27,0
SXUL0800	8	14,0	23,2	14	35,0
SXUL1000	10	16,5	24,3	16	58,0
SXUL1200	12	19,5	26,7	19	83,0
SXUL1400	14	21,8	28,7	22	107,0
SXUL1600	16	23,3	30,0	24	119,0

SXUT

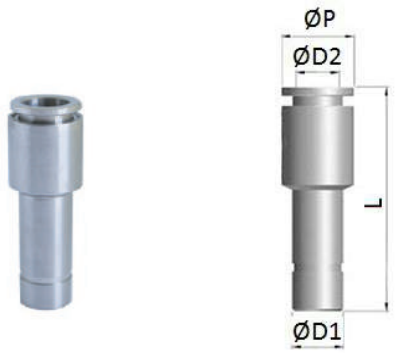
Union tee



CODE	ØD	ØP	L	H	GR.
SXUT0400	4	10,0	20,3	10	27,0
SXUT0600	6	12,4	22,0	12	37,0
SXUT0800	8	14,0	23,2	14	43,0
SXUT1000	10	16,5	24,3	16	68,0
SXUT1200	12	19,0	26,7	19	99,0
SXUT1400	14	21,8	28,7	22	129,0
SXUT1600	16	23,3	30,0	24	141,0

SXGJ

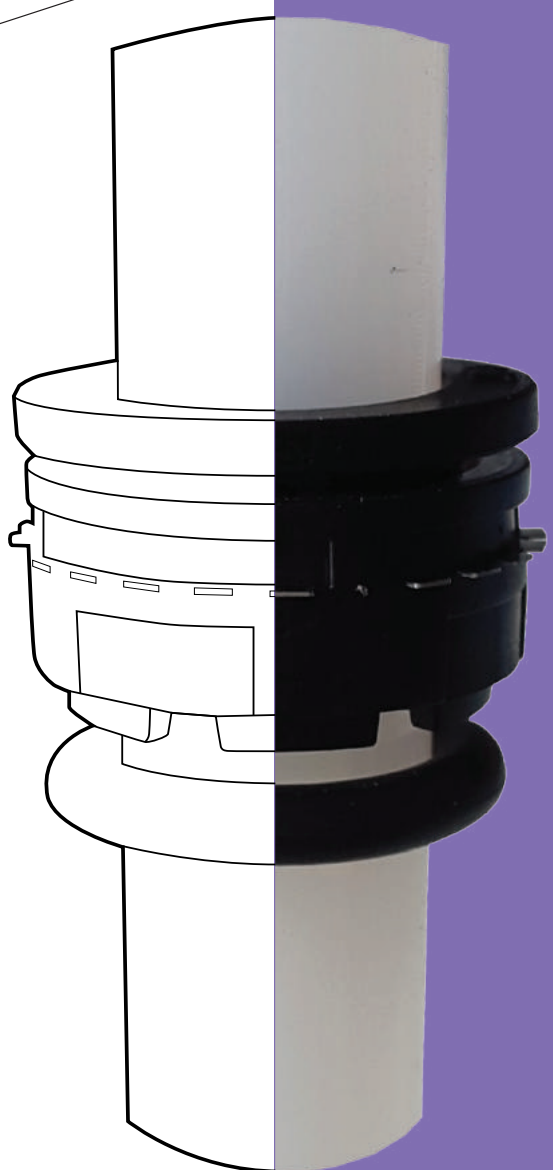
Reducer



CODE	ØD1	ØD2	ØP	L	GR.
SXGJ0604	6	4	10,0	41,8	11,0
SXGJ0804	8	4	10,0	41,8	14,0
SXGJ0806	8	6	12,4	41,8	17,0
SXGJ1006	10	6	12,4	42,8	23,0
SXGJ1008	10	8	14,0	42,8	23,0
SXGJ1208	12	8	14,0	45,8	31,0
SXGJ1210	12	10	16,5	46,3	31,0
SXGJ1412	14	12	19,0	47,8	40,0
SXGJ1612	16	12	19,0	47,8	46,0



CARTRIDGES





P. 95 /
CARTRIDGE CDC PNEUMATICS



P. 97 /
FLUIDFIT CARTRIDGES

TECHNICAL INDEX

CARTRIDGES
CDC
PNEUMATICS

PLUS

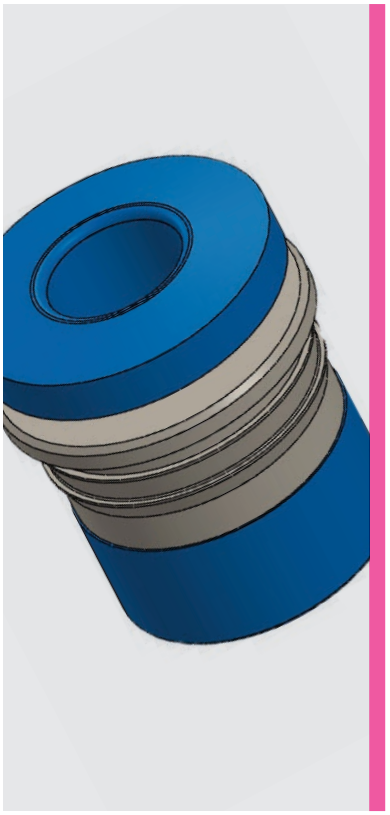
SAVING IN ASSEMBLING TIME THANKS TO THE DEDICATED SLOT

IMMEDIATE CONNECTION TO THE TUBE

FULL PASSAGE



p. 96 / **CAS**



0°C ÷ 60°C

Working pressure:
10 Bar
Negative pressure:
-750 mmHg

Compressed air

Polyamide, Polyurethane

Body: nickel plated brass
Lock claw: AISI 301 stainless steel
Seal: NBR
Collet: POM

REACH

Products in compliance with
the directive 2002/95/EC

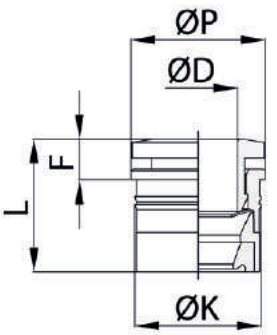
RoHS2

Products in compliance with
the directive 2011/65/EU

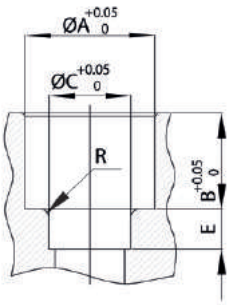
CAS

Cartridge





CODE	ØD	ØK	ØP	F	L	GR.
CAS04	4	9,0	10,0	3,55	11,25	1,0
CAS06	6	11,15	12,0	3,95	12,45	3,0
CAS08	8	13,25	14,0	4,30	13,90	4,0
CAS10	10	15,50	16,0	4,85	15,15	5,0
CAS12	12	17,80	19,0	5,0	17,40	7,0



CODE	ØA	ØC	B	E	R
CAS04	8,8	4,25	7,80	3,0	0,8
CAS06	10,9	6,25	8,60	3,5	0,8
CAS08	13,0	8,25	9,70	4,0	0,8
CAS10	15,2	10,25	10,45	4,5	1,0
CAS12	17,5	12,25	12,50	5,0	1,0

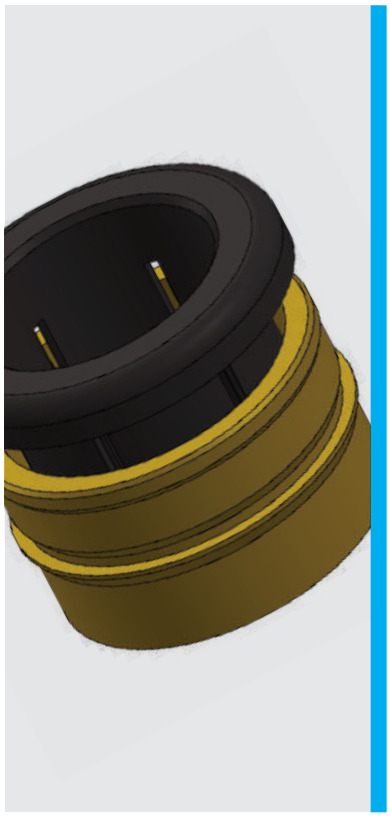
CARTRIDGES
FLUIDFIT

PLUS

SAVING IN ASSEMBLING TIME THANKS TO THE DEDICATED SLOT

IMMEDIATE CONNECTION TO THE TUBE

FULL PASSAGE



Dry air: -20°C ÷ 98°C
Air & fluids: 1°C÷ 98°C

Working pressure:
20 Bar
Negative pressure:
-750 mmHg

Water, beverages, vacuum compressed air, gases & liquids suitable with construction materials

Polyamide, Polyurethane, Polyethylene, PTFE, FEP

Body: brass
POM for HCAS-P
Collet/Lock claw: POM
Seal: EPDM

REACH

Products in compliance with the directive 2002/95/EC

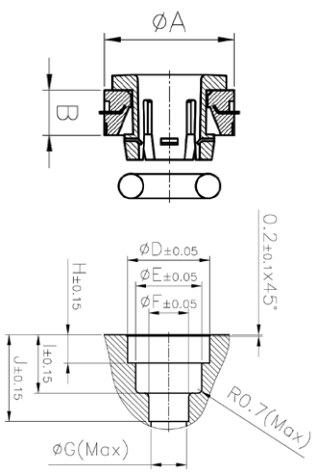
RoHS2

Products in compliance with the directive 2011/65/EU

HCAS-P

Plastic cartridge





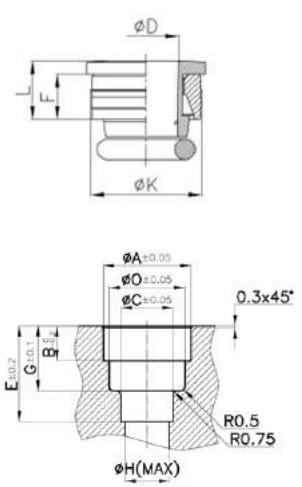
CODE	ØTUBE	ØA	B	GR.
HCAS-P 04	4	11,85	5,0	0,9
HCAS-P 06	6	13,30	4,6	1,4
HCAS-P 08	8	13,70	5,6	2,9
HCAS-P 10	10	15,90	6,9	3,2
HCAS-P 12	12	19,60	7,9	4,1

CODE	ØTUBE	ØD	ØE	ØF	ØG	H	I	J
HCAS-P 04	4	12,00	8,30	4,15	3,30	4,90	8,90	12,80
HCAS-P 06	6	13,40	10,00	6,15	5,30	4,60	9,80	14,00
HCAS-P 08	8	13,80	11,95	8,15	7,40	5,50	10,15	15,00
HCAS-P 10	10	16,05	14,00	10,15	9,20	6,90	11,80	18,20
HCAS-P 12	12	19,75	16,55	12,15	11,20	7,75	15,90	23,90

HCAS-H

Half cartridge





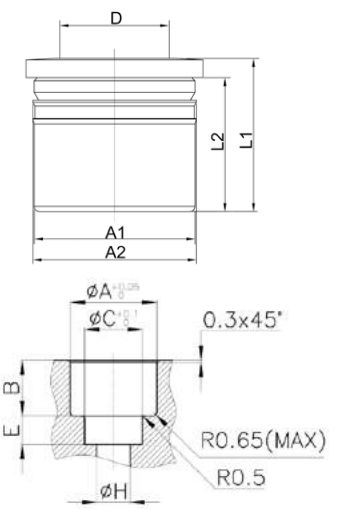
CODE	ØD	ØK	F	L	GR.
HCAS-H04	4	12,70	5,3	6,8	4,2
HCAS-H06	6	13,60	5,0	6,6	3,9
HCAS-H08	8	14,05	5,7	7,4	3,5
HCAS-H10	10	16,30	7,0	8,8	5,0
HCAS-H12	12	19,35	8,8	10,8	9,0

CODE	ØA	ØC	ØH	B	E
HCAS-H04	12,5	4,2	3,3	4,90	12,8
HCAS-H06	13,4	6,2	5	4,60	14,0
HCAS-H08	13,82	8,2	7	5,46	15,0
HCAS-H10	16,05	10,2	9	6,86	18,2
HCAS-H12	19,1	12,2	11	8,65	23,5

HCAS-F

Full cartridge

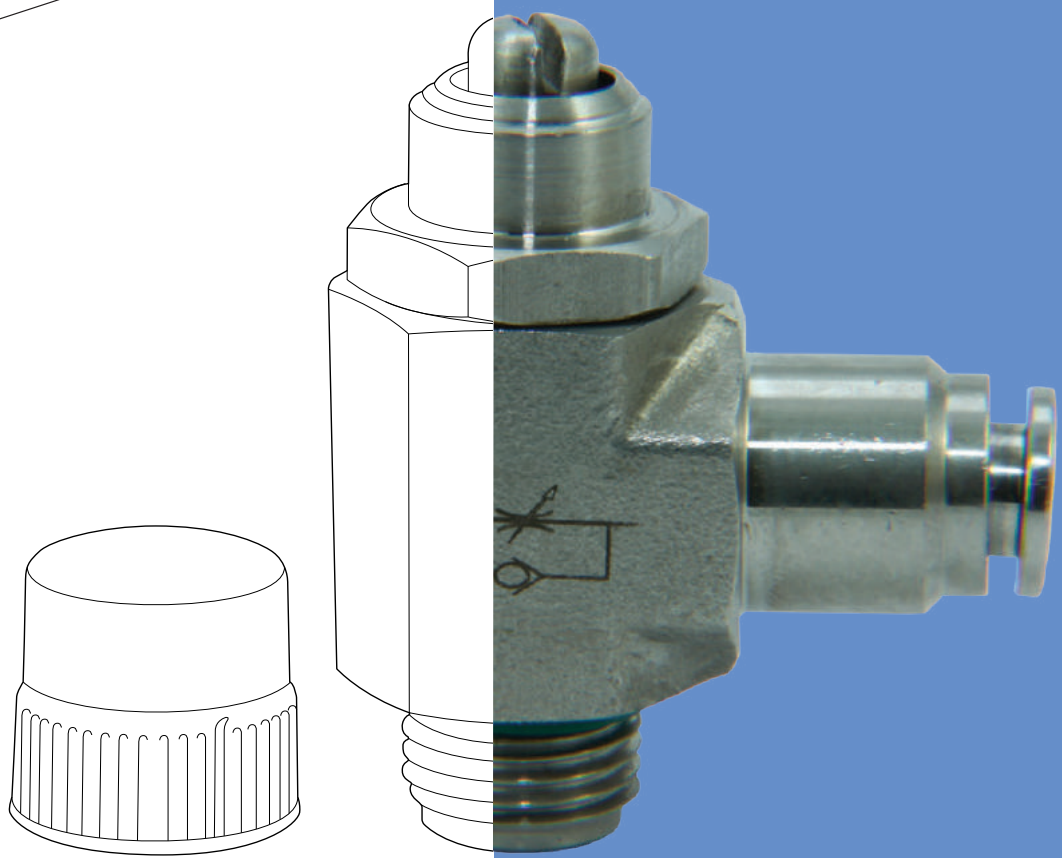




CODE	ØD	ØK	F	L	GR.
HCAS-F04	4	10,20	10,5	12,0	3,8
HCAS-F06	6	11,25	11,0	12,6	3,2
HCAS-F08	8	13,25	11,5	13,2	3,9
HCAS-F10	10	15,25	12,5	14,3	4,7
HCAS-F12	12	17,80	14,8	16,9	7,2

CODE	ØA	ØC	ØH	B	E
HCAS-F04	10,0	4,15	3,2	10,3	3,2
HCAS-F06	11,0	6,15	5,2	10,8	3,7
HCAS-F08	13,0	8,15	7,2	11,3	4,8
HCAS-F10	15,0	10,15	9,2	12,2	5,4
HCAS-F12	17,5	12,15	11,2	14,1	7,3

FUNCTION FITTINGS



TECHNICAL INDEX



P. 101 /
FLOW REGULATORS



P. 119 /
FLOW REGULATORS WITH PILOT CHECK VALVES



P. 123 /
EXHAUST VALVES



P. 131 /
MANUAL VALVES



P. 145 /
STOP FITTINGS



P. 151 /
CHECK VALVES

FUNCTION FITTINGS
FLOW REGULATORS

PLUS

WIDE SOLUTIONS ACCORDINGLY TO EVERY KIND OF APPLICATION

LARGE RANGE OF MATERIALS AVAILABLE

PRECISE REGULATION ABLE TO ENSURE THE HIGHEST ENERGY SAVING

OPTIMIZED DIMENSIONS & PERFORMANCES

PLASTIC FLOW REGULATORS


p. 104 / **WTRFR-R**


p. 104 / **WTRFR-R-IN**


p. 105 / **WTRFR-G**


p. 105 / **WTRFR-G-IN**


p. 106 / **WTRFR-N**


p. 106 / **WTRFR-N-IN**


p. 106 / **WTRNSF**


p. 107 / **WTRNSF-N**

BRASS FLOW REGULATORS


p. 108 / **OTSC-G**


p. 108 / **OTSC-G-IN**


p. 109 / **OTSC-G-D**


p. 109 / **OTSC-G-D-IN**


p. 109 / **OTSC-G-D-B**


p. 110 / **OTSC-G-DF**


p. 110 / **OTSC-G-DF-IN**


p. 110 / **OTSC-G-DF-B**

ALUMINUM FLAT FLOW REGULATORS


p. 111 / **ASF-B**


p. 111 / **ASF-U**

FLOW REGULATORS FOR HIGH PERFORMANCE


p. 113 / **HSTU**


p. 113 / **HSLU**


p. 113 / **HSTB**


p. 113 / **HSLB**

BRASS FLOW REGULATORS FOR POTABLE WATER


p. 114 / **HSF-B**

BANJO FLOW REGULATORS INOX AISI 316


p. 115 / **SXSC-D**


p. 115 / **SXSC-DF**

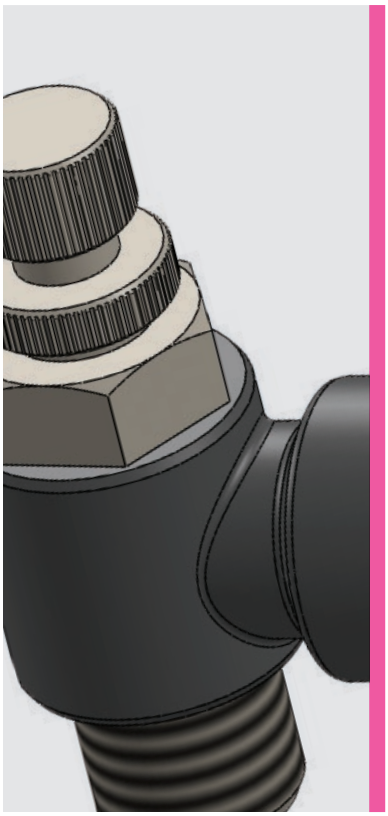
FLAT FLOW REGULATORS INOX AISI 316


p. 116 / **XSFC-U**


p. 116 / **XSFC-B**


p. 117 / **XSFC-U-N**


p. 117 / **XSFC-B-N**



-20°C ÷ 80°C

10 Bar

Compressed air

Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5
NPT from N1/8" to N1/2"
UNF 10-32

PA, PU, PE

Body: nickel plated brass
and high performance PBT
Lock nut: nickel plated brass
Sleeve: acetal resin POM
Lock claw: AISI 301 stainless steel
O'ring: NBR silicon free
Seal: NBR silicon free
Handle: brass
Collar: Zinc
Back Ring: POM

REACH

Products in compliance with
the directive 2002/95/EC

RoHS2

Products in compliance with
the directive 2011/65/EU

INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a prper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

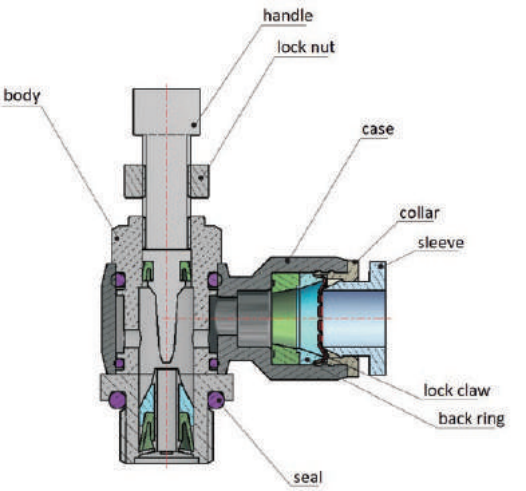
- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

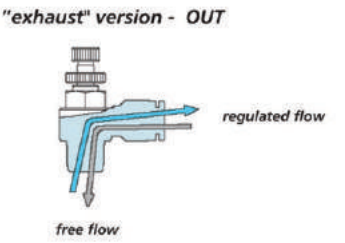
TOLERANCE TUBE

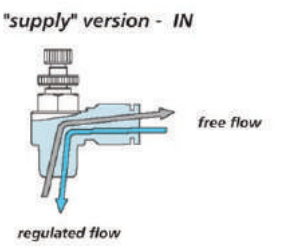
TUBES Ø	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm
TOLERANCES (mm)	±0,1	±0,1	±0,1	±0,15	±0,15

TUBES Ø	Ø 5/32	Ø 1/4	Ø 5/16	Ø 3/8	Ø 1/2
TOLERANCES (INCH)	± 0,003"	± 0,003"	± 0,003"	± 0,005"	± 0,005"

CONSTRUCTION MATERIALS



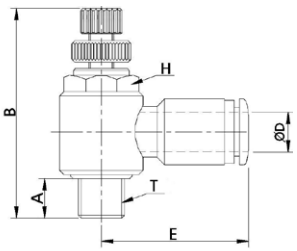


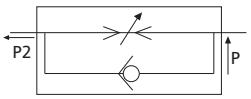


WTRFR-R

Banjo male elbow flow regulator BSPT thread unidirectional nickel plated with handle regulation





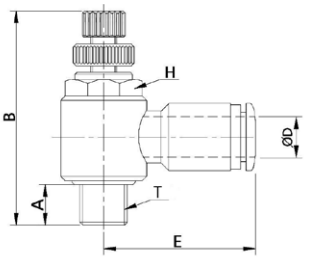


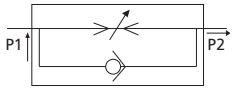
CODE	ØD	T	A	B	E	H	GR
WTRFR04R01	4	R1/8"	7,0	39,7	22,3	10	18,0
WTRFR04R02	4	R1/4"	9,5	46,4	24,1	14	35,9
WTRFR06R01	6	R1/8"	7,0	39,7	23,1	10	18,5
WTRFR06R02	6	R1/4"	9,5	46,4	25,1	14	36,5
WTRFR06R03	6	R3/8"	10,5	53,4	26,8	19	60,5
WTRFR06R04	6	R1/2"	13,5	57,9	29,8	24	92,7
WTRFR08R01	8	R1/8"	7,0	39,7	25,6	10	19,3
WTRFR08R02	8	R1/4"	9,5	46,4	28,6	14	37,3
WTRFR08R03	8	R3/8"	10,5	53,4	29,6	19	61,1
WTRFR08R04	8	R1/2"	13,5	57,9	32,6	24	93,4
WTRFR10R01	10	R1/8"	7,0	39,7	28,8	10	22,7
WTRFR10R02	10	R1/4"	9,5	46,4	31,0	14	40,7
WTRFR10R03	10	R3/8"	10,5	53,4	31,6	19	64,5
WTRFR10R04	10	R1/2"	13,5	57,9	34,6	24	96,8
WTRFR12R02	12	R1/4"	9,5	46,4	33,5	14	42,2
WTRFR12R03	12	R3/8"	10,5	53,4	35,6	19	66,1
WTRFR12R04	12	R1/2"	13,5	57,9	36,6	24	98,3

WTRFR-R-IN

Banjo male elbow flow regulator BSPT thread unidirectional nickel plated with handle regulation





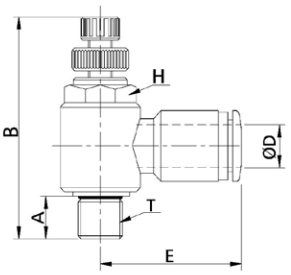


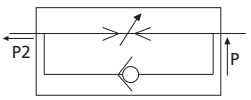
CODE	ØD	T	A	B	E	H	GR
WTRFR04R01-IN	4	R1/8"	7,0	39,7	22,3	10	18,0
WTRFR04R02-IN	4	R1/4"	9,5	46,4	24,1	14	35,9
WTRFR06R01-IN	6	R1/8"	7,0	39,7	23,1	10	18,5
WTRFR06R02-IN	6	R1/4"	9,5	46,4	25,1	14	36,5
WTRFR06R03-IN	6	R3/8"	10,5	53,4	26,8	19	60,5
WTRFR06R04-IN	6	R1/2"	13,5	57,9	29,8	24	92,7
WTRFR08R01-IN	8	R1/8"	7,0	39,7	25,6	10	19,3
WTRFR08R02-IN	8	R1/4"	9,5	46,4	28,6	14	37,3
WTRFR08R03-IN	8	R3/8"	10,5	53,4	29,6	19	61,1
WTRFR08R04-IN	8	R1/2"	13,5	57,9	32,6	24	93,4
WTRFR10R01-IN	10	R1/8"	7,0	39,7	28,8	10	22,7
WTRFR10R02-IN	10	R1/4"	9,5	46,4	31,0	14	40,7
WTRFR10R03-IN	10	R3/8"	10,5	53,4	31,6	19	64,5
WTRFR10R04-IN	10	R1/2"	13,5	57,9	34,6	24	96,8
WTRFR12R02-IN	12	R1/4"	9,5	46,4	33,5	14	42,2
WTRFR12R03-IN	12	R3/8"	10,5	53,4	35,6	19	66,1
WTRFR12R04-IN	12	R1/2"	13,5	57,9	36,6	24	98,3

WTRFR-G

Banjo male elbow flow regulator BSPP & metric thread unidirectional nickel plated with handle regulation





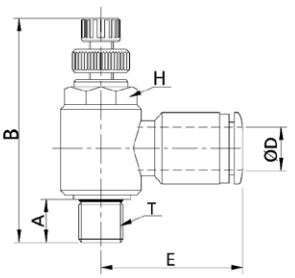


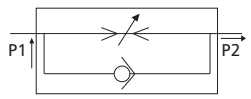
CODE	ØD	T	A	B	E	H	GR.
WTRFR04M5	4	M5X0,8	4,0	29,3	20,0	8	-
WTRFR04G01	4	G1/8"	5,8	39,7	22,3	10	18,0
WTRFR04G02	4	G1/4"	7,3	46,4	24,1	14	35,9
WTRFR06M5	6	M5X0,8	4,0	29,3	21,9	8	-
WTRFR06G01	6	G1/8"	5,8	39,7	23,1	10	18,5
WTRFR06G02	6	G1/4"	7,3	46,4	25,1	14	36,5
WTRFR06G03	6	G3/8"	8,5	53,4	26,8	19	60,5
WTRFR06G04	6	G1/2"	10,0	57,9	29,8	24	92,7
WTRFR08G01	8	G1/8"	5,8	39,7	25,6	10	19,3
WTRFR08G02	8	G1/4"	7,3	46,4	28,6	14	37,3
WTRFR08G03	8	G3/8"	8,5	53,4	29,6	19	61,1
WTRFR08G04	8	G1/2"	10,0	57,9	32,6	24	93,4
WTRFR10G01	10	G1/8"	5,8	39,7	28,8	10	22,7
WTRFR10G02	10	G1/4"	7,3	46,4	31,1	14	40,7
WTRFR10G03	10	G3/8"	8,5	53,4	31,6	19	64,5
WTRFR10G04	10	G1/2"	10,0	57,9	34,6	24	96,8
WTRFR12G02	12	G1/4"	7,3	46,4	33,5	14	42,2
WTRFR12G03	12	G3/8"	8,5	53,4	35,6	19	66,1
WTRFR12G04	12	G1/2"	10,0	57,9	36,6	24	98,3

WTRFR-G-IN

Banjo male elbow flow regulator BSPP & metric thread unidirectional nickel plated with handle regulation





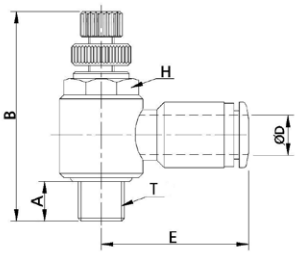


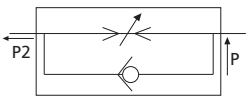
CODE	ØD	T	A	B	E	H	GR.
WTRFR04M5-IN	4	M5X0,8	4,0	29,3	20,0	8	-
WTRFR04G01-IN	4	G1/8"	5,8	39,7	22,3	10	18,0
WTRFR04G02-IN	4	G1/4"	7,3	46,4	24,1	14	35,9
WTRFR06M5-IN	6	M5X0,8	4,0	29,3	21,9	8	-
WTRFR06G01-IN	6	G1/8"	5,8	39,7	23,1	10	18,5
WTRFR06G02-IN	6	G1/4"	7,3	46,4	25,1	14	36,5
WTRFR06G03-IN	6	G3/8"	8,5	53,4	26,8	19	60,5
WTRFR06G04-IN	6	G1/2"	10,0	57,9	29,8	24	92,7
WTRFR08G01-IN	8	G1/8"	5,8	39,7	25,6	10	19,3
WTRFR08G02-IN	8	G1/4"	7,3	46,4	28,6	14	37,3
WTRFR08G03-IN	8	G3/8"	8,5	53,4	29,6	19	61,1
WTRFR08G04-IN	8	G1/2"	10,0	57,9	32,6	24	93,4
WTRFR10G01-IN	10	G1/8"	5,8	39,7	28,8	10	22,7
WTRFR10G02-IN	10	G1/4"	7,3	46,4	31,1	14	40,7
WTRFR10G03-IN	10	G3/8"	8,5	53,4	31,6	19	64,5
WTRFR10G04-IN	10	G1/2"	10,0	57,9	34,6	24	96,8
WTRFR12G02-IN	12	G1/4"	7,3	46,4	33,5	14	42,2
WTRFR12G03-IN	12	G3/8"	8,5	53,4	35,6	19	66,1
WTRFR12G04-IN	12	G1/2"	10,0	57,9	36,6	24	98,3

WTRFR-N

Banjo male elbow flow regulator NPT & UNF thread unidirectional nickel plated with handle regulation





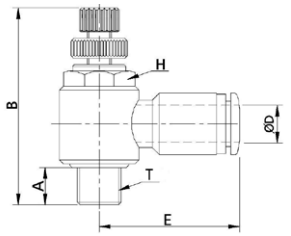


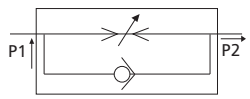
CODE	ØD	T	A	B	E	H	GR.
WTRFR532UF1032	5/32	UNF 10-32	0,149	1,153	0,787	0,314	0,037
WTRFR532N01	5/32	N1/8"	0,295	1,578	0,889	0,437	0,039
WTRFR1-4UF1032	1/4	UNF 10-32	0,149	1,153	0,866	0,314	0,038
WTRFR1-4N01	1/4	N1/8"	0,295	1,578	0,909	0,437	0,040
WTRFR1-4N02	1/4	N1/4"	0,413	1,858	0,988	0,562	0,080
WTRFR1-4N03	1/4	N3/8"	0,433	2,122	1,055	0,748	0,133
WTRFR516N01	5/16	N1/8"	0,295	1,578	1,007	0,437	0,042
WTRFR516N02	5/16	N1/4"	0,413	1,858	1,125	0,562	0,082
WTRFR516N03	5/16	N3/8"	0,433	2,122	1,165	0,748	0,134
WTRFR38N02	3/8	N1/4"	0,413	1,858	1,220	0,562	0,089
WTRFR38N03	3/8	N3/8"	0,433	2,122	1,244	0,748	0,142
WTRFR38N04	3/8	N1/2"	0,551	2,299	1,362	1	0,213
WTRFR1-2N02	1/2	N3/8"	0,433	2,122	1,401	0,748	0,093
WTRFR1-2N03	1/2	N1/2"	0,551	2,299	1,440	1	0,145

WTRFR-N-IN

Banjo male elbow flow regulator NPT & UNF thread unidirectional nickel plated with handle regulation





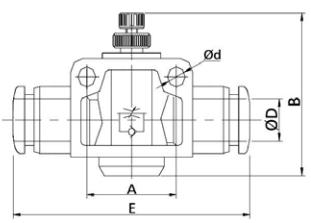


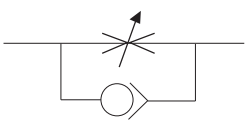
CODE	ØD	T	A	B	E	H	GR.
WTRFR532UF1032-IN	5/32	UNF 10-32	0,149	1,153	0,787	0,314	0,037
WTRFR532N01-IN	5/32	N1/8"	0,295	1,578	0,889	0,437	0,039
WTRFR1-4UF1032-IN	1/4	UNF 10-32	0,149	1,153	0,866	0,314	0,038
WTRFR1-4N01-IN	1/4	N1/8"	0,295	1,578	0,909	0,437	0,040
WTRFR1-4N02-IN	1/4	N1/4"	0,413	1,858	0,988	0,562	0,080
WTRFR1-4N03-IN	1/4	N3/8"	0,433	2,122	1,055	0,748	0,133
WTRFR516N01-IN	5/16	N1/8"	0,295	1,578	1,007	0,437	0,042
WTRFR516N02-IN	5/16	N1/4"	0,413	1,858	1,125	0,562	0,082
WTRFR516N03-IN	5/16	N3/8"	0,433	2,122	1,165	0,748	0,134
WTRFR38N02-IN	3/8	N1/4"	0,413	1,858	1,220	0,562	0,089
WTRFR38N03-IN	3/8	N3/8"	0,433	2,122	1,244	0,748	0,142
WTRFR38N04-IN	3/8	N1/2"	0,551	2,299	1,362	1	0,213
WTRFR1-2N02-IN	1/2	N3/8"	0,433	2,122	1,401	0,748	0,093
WTRFR1-2N03-IN	1/2	N1/2"	0,551	2,299	1,440	1	0,145

WTRNSF

Flat flow regulators metric sizes unidirectional nickel plated with handle regulation





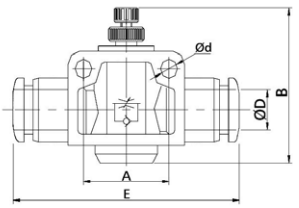


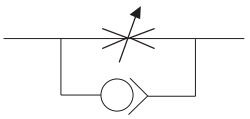
CODE	ØD	Ød	A	B	E	GR.
WTRNSF04	4	3,2	14,0	28,8	39,5	11,7
WTRNSF06	6	4,3	20,0	42,6	47,6	27,0
WTRNSF08	8	4,3	22,0	44,3	52,6	39,5
WTRNSF10	10	4,3	26,0	53,4	60,5	69,0
WTRNSF12	12	4,3	32,0	55,6	74,2	113,2

WTRNSF-N

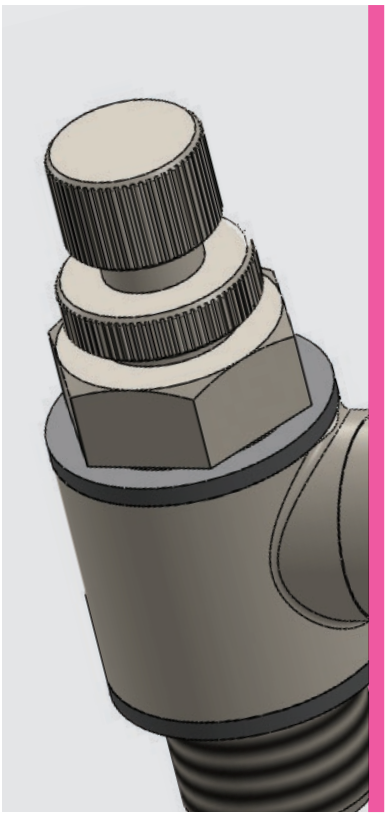
Flat flow regulators imperial sizes unidirectional nickel plated with handle regulation







CODE	ØD	Ød	A	B	E	GR.
WTRNSF532	5/32	0,125	0,551	1,133	1,555	0,025
WTRNSF316	3/16	0,125	0,551	1,133	1,578	0,056
WTRNSF1-4	1/4	0,169	0,787	1,677	1,874	0,059
WTRNSF516	5/16	0,169	0,866	1,744	2,070	0,087
WTRNSF38	3/8	0,169	1,023	2,102	2,381	0,152
WTRNSF1-2	1/2	0,169	1,259	2,188	2,921	0,249



-20°C ÷ 70°C

From tube Ø4 to Ø8mm
15 Bar up to 50°C & 10 Bar >50°C
From tube Ø10 to Ø12mm
10 Bar up to 50°C & 6 Bar >50°C

Compressed air

Manual and screwdriver

Parallel BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5

PA, PU

Body: brass UNI EN 12164 CW614W
Lock claw: stainless steel AISI 316
Seal: NBR silicon free

REACH

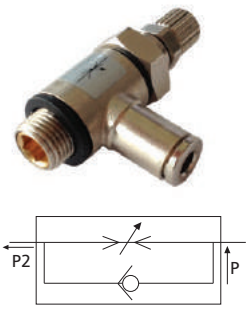
Products in compliance with
the directive 2002/95/EC

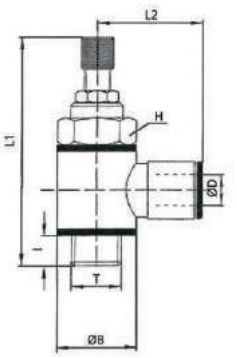
RoHS2

Products in compliance with
the directive 2011/65/EU

OTSC-G

Manual swivel flow regulator BSPP thread for cylinders

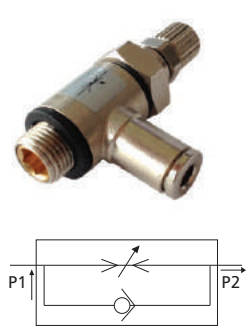


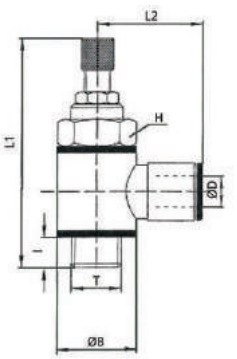


CODE	ØD	T	I	ØB	L1	L2	H	NL/MIN	GR.
OTSC04G01	4	G1/8"	5	14	49	20,5	14	310	36
OTSC06G01	6	G1/8"	5	14	49	23	14	390	38
OTSC06G02	6	G1/4"	6	18	56,5	24	17	710	65
OTSC08G01	8	G1/8"	5	14	49	24,5	14	390	39
OTSC08G02	8	G1/4"	6	18	56,5	26	17	810	66
OTSC10G02	10	G1/4"	6	18	56,5	27	17	810	69
OTSC12G02	12	G1/4"	6	18	56,5	28	17	810	70

OTSC-G-IN

Manual swivel flow regulator BSPP thread for valves

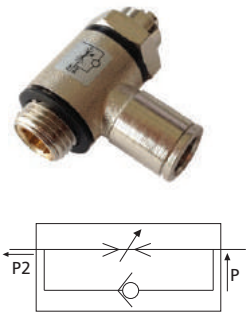


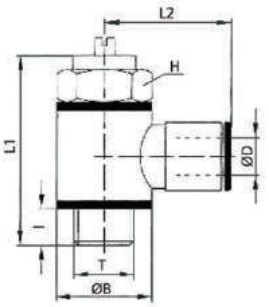


CODE	ØD	T	I	ØB	L1	L2	H	NL/MIN	GR.
OTSC04G01IN	4	G1/8"	5	14	49	20,5	14	310	36
OTSC06G01IN	6	G1/8"	5	14	49	23	14	390	38
OTSC06G02IN	6	G1/4"	6	18	56,5	24	17	710	65
OTSC08G01IN	8	G1/8"	5	14	49	24,5	14	390	39
OTSC08G02IN	8	G1/4"	6	18	56,5	26	17	810	66
OTSC10G02IN	10	G1/4"	6	18	56,5	27	17	810	69
OTSC12G02IN	12	G1/4"	6	18	56,5	28	17	810	70

OTSC-G-D

Screwdriver flow regulator BSPP & metric thread for cylinders

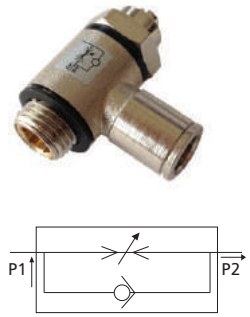


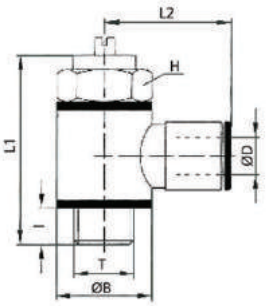


CODE	ØD	T	I	ØB	L1	L2	H	NL/MIN	GR.
OTSC04M5D	4	M5	4	9	25	18	8	45	14
OTSC04G01D	4	G1/8"	5	14	32	20,5	14	310	31
OTSC06M5D	6	M5	4	9	25	19,5	8	45	15,5
OTSC06G01D	6	G1/8"	5	14	32	23	14	390	33
OTSC06G02D	6	G1/4"	6	18	37	24	17	710	55
OTSC08G01D	8	G1/8"	5	14	32	24,5	14	390	34
OTSC08G02D	8	G1/4"	6	18	37	26	17	810	56
OTSC08G03D	8	G3/8"	6,5	21	46,5	27	20	1050	87
OTSC10G02D	10	G1/4"	6	18	37	27	17	810	58,5
OTSC10G03D	10	G3/8"	6,5	21	46,5	28	20	1050	88
OTSC12G02D	12	G1/4"	6	18	37	28	17	810	59
OTSC12G03D	12	G3/8"	6,5	21	46,5	29	20	1050	89

OTSC-G-D-IN

Screwdriver flow regulator BSPP & metric thread for valves

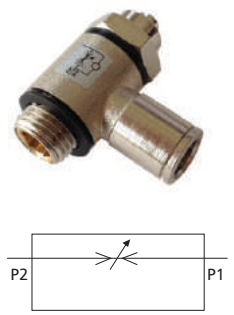


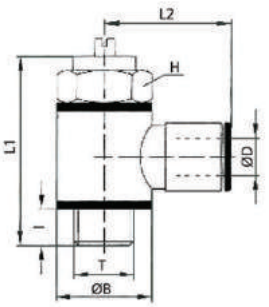


CODE	ØD	T	I	ØB	L1	L2	H	NL/MIN	GR.
OTSC04M5DIN	4	M5	4	9	25	18	8	45	14
OTSC04G01DIN	4	G1/8"	5	14	32	20,5	14	310	31
OTSC06M5DIN	6	M5	4	9	25	19,5	8	45	15,5
OTSC06G01DIN	6	G1/8"	5	14	32	23	14	390	33
OTSC06G02DIN	6	G1/4"	6	18	37	24	17	710	55
OTSC08G01DIN	8	G1/8"	5	14	32	24,5	14	390	34
OTSC08G02DIN	8	G1/4"	6	18	37	26	17	810	56
OTSC08G03DIN	8	G3/8"	6,5	21	46,5	27	20	1050	87
OTSC10G02DIN	10	G1/4"	6	18	37	27	17	810	58,5
OTSC10G03DIN	10	G3/8"	6,5	21	46,5	28	20	1050	88
OTSC12G02DIN	12	G1/4"	6	18	37	28	17	810	59
OTSC12G03DIN	12	G3/8"	6,5	21	46,5	29	20	1050	89

OTSC-G-D-B

Screwdriver flow regulator BSPP & metric thread bidirectional

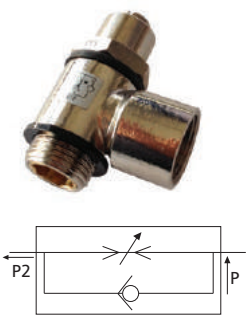


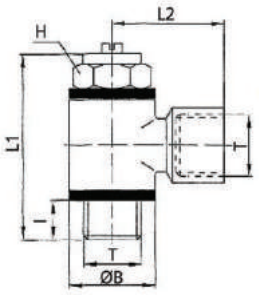


CODE	ØD	T	I	ØB	L1	L2	H	NL/MIN	GR.
OTSC04M5DB	4	M5	4	9	25	18	8	45	14
OTSC04G01DB	4	G1/8"	5	14	32	20,5	14	310	31
OTSC06M5DB	6	M5	4	9	25	19,5	8	45	15,5
OTSC06G01DB	6	G1/8"	5	14	32	23	14	390	33
OTSC06G02DB	6	G1/4"	6	18	37	24	17	710	55
OTSC08G01DB	8	G1/8"	5	14	32	24,5	14	390	34
OTSC08G02DB	8	G1/4"	6	18	37	26	17	810	56
OTSC08G03DB	8	G3/8"	6,5	21	46,5	27	20	1050	87
OTSC10G02DB	10	G1/4"	6	18	37	27	17	810	58,5

OTSC-G-DF

Screwdriver female flow regulator BSPP & metric thread for cylinders

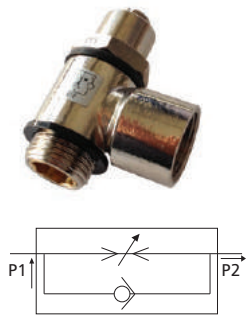


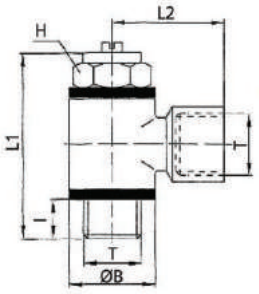


CODE	T1	I	ØB	L1	L2	H	NL/MIN	GR.
OTSCM5DF	M5	4	9	25	11,5	8	45	10
OTSCG01DF	G1/8"	5	14	32	21	14	310	34
OTSCG02DF	G1/4"	6	18	37	25,5	17	450	64
OTSCG03DF	G3/8"	7	21	46	26	20	1040	88
OTSCG04DF	G1/2"	10	26	52,5	32	26	2200	187

OTSC-G-DF-IN

Screwdriver female flow regulator BSPP & metric thread for valves

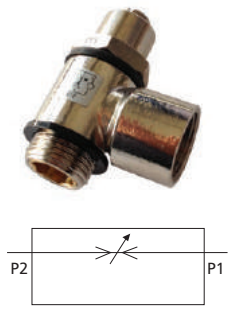


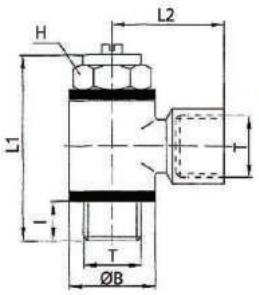


CODE	T1	I	ØB	L1	L2	H	NL/MIN	GR.
OTSCM5DFIN	M5	4	9	25	11,5	8	45	10
OTSCG01DFIN	G1/8"	5	14	32	21	14	310	34
OTSCG02DFIN	G1/4"	6	18	37	25,5	17	450	64
OTSCG03DFIN	G3/8"	7	21	46	26	20	1040	88
OTSCG04DFIN	G1/2"	10	26	52,5	32	26	2200	187

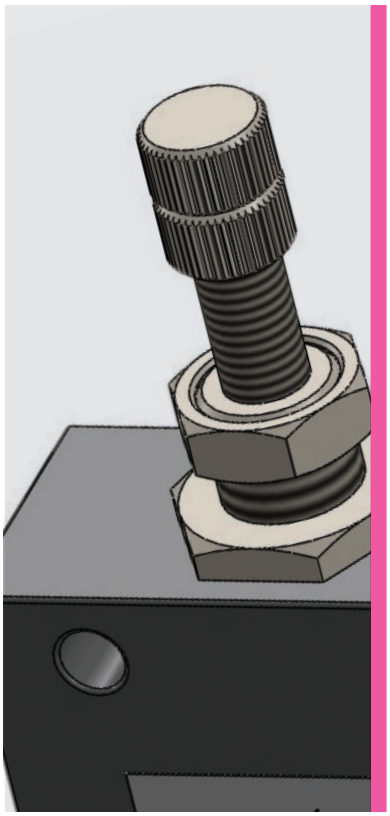
OTSC-G-DF-B

Screwdriver female flow regulator BSPP & metric thread bidirectional





CODE	T1	I	ØB	L1	L2	H	NL/MIN	GR.
OTSCM5DFB	M5	4	9	25	11,5	8	45	10
OTSCG01DFB	G1/8"	5	14	32	21	14	310	34
OTSCG02DFB	G1/4"	6	18	37	25,5	17	450	64
OTSCG03DFB	G3/8"	7	21	46	26	20	1040	88
OTSCG04DFB	G1/2"	10	26	52,5	32	26	2200	187



0°C ÷ 65°C

For ASF-U: 0.025 - 10 Bar
For ASF-B: 0 - 10 Bar

Compressed Air

Manual

Female parallel gas BSPP ISO 228 from G1/8" to G1/2"

Body: aluminum 11S with black anodization
Regulation screw: nickel plated brass
Seal: NBR

REACH

Products in compliance with the directive 2002/95/EC

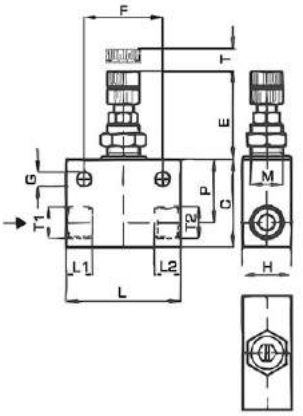
RoHS2

Products in compliance with the directive 2011/65/EU

ASF-U

Unidirectional female flow regulator BSPP thread aluminum



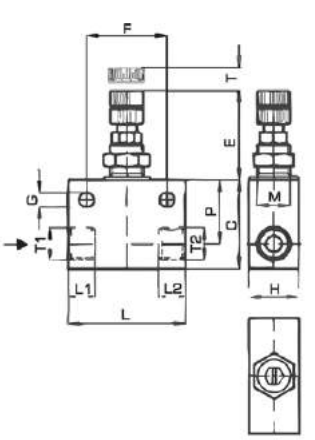


CODE	T1	T2	L	L1	L2	C	H	M	F	G	E	P	T	GR.
ASF-U01N	G1/8	G1/8	35	8,0	8,0	27	15	10X1	24	4,5	26	19,5	7,0	52,0
ASF-U02N	G1/4	G1/4	40	9,5	9,5	30	18	10X1	24	4,5	26	21,0	7,0	90,0
ASF-U03N	G3/8	G3/8	45	10,5	10,5	35	22	15X1	30	6,0	31	25,0	8,5	206,0
ASF-U04N	G1/2	G1/2	57	12,0	12,0	40	27	15X1	30	6,0	31	26,0	8,5	217,0

ASF-B

Bidirectional female flow regulator BSPP thread in aluminum





CODE	T1	T2	L	L1	L2	C	H	M	F	G	E	P	T	GR.
ASF-B01N	G1/8	G1/8	35	8,0	8,0	27	15	10X1	24	4,5	26	19,5	7,0	52,0
ASF-B02N	G1/4	G1/4	40	9,5	9,5	30	18	10X1	24	4,5	26	21,0	7,0	90,0
ASF-B03N	G3/8	G3/8	45	10,5	10,5	35	22	15X1	30	6,0	31	25,0	8,5	206,0
ASF-B04N	G1/2	G1/2	57	12,0	12,0	40	27	15X1	30	6,0	31	26,0	8,5	217,0



0°C ÷ 65°C Dry air: -20°C ÷ 98°
air & fluids: 1°C ÷ 98°C
(see the table)

20 Bar (depending from the tubes and temperature applied)
(see the table)

Water, beverages, compressed air, selected gases, liquids and fluis compatible with the construction materials

Manual with knob and screwdriver

Polyethylene, Polyamide, Polyurethane, PTFE- FEP

Soft metal tubes:
brass, copper and mild steel
Hard metal tubes:
please contact our tecnica department for stainless steel and other hard materials tubes use

Body: POM
Grippin collet: POM + AISI 301
Seals: EPDM
Handle: nickel plated brass
Lock nut: nickel plated brass
Needle plated: nickel plated brass
Needle: AISI 304

REACH — Products in compliance with the directive 2002/95/EC

RoHS2 — Products in compliance with the directive 2011/65/EU

NSF DM174

WORKING PRESSURE AND TEMPERATURE

Ø / °C	-20 °C	1 °C*	25 °C*	70 °C*	98 °C*
6 mm	0 ↔ 8 Bar With dry air only	20 Bar	20 Bar	16 Bar	10 Bar
10 mm		16 Bar	16 Bar	14 Bar	10 Bar

INSERTION TUBE

DIAMETER TUBES Ø	Ø 6 mm	Ø 10 mm
TUBES INSERTION LENGHT (MM)	16,1	19,7

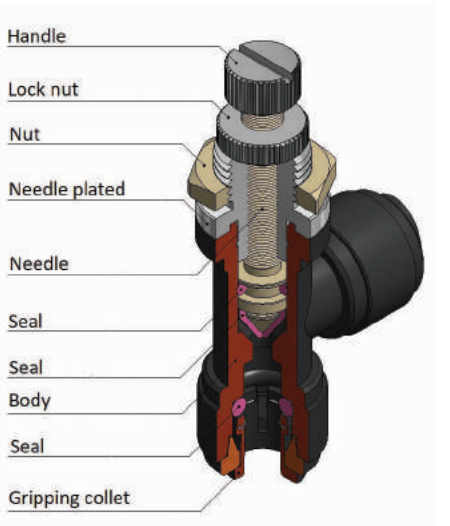
INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

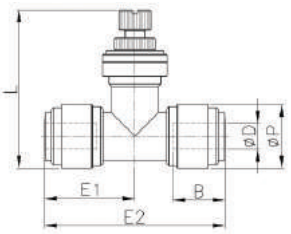
CONSTRUCTION MATERIALS

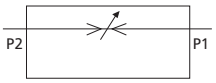


HSTU

Metric flow regulator





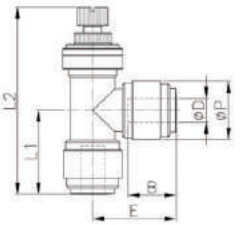


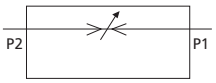
CODE	ØD	ØP	E1	E2	L-	L+	B	GR.
HSTU0606B	6	15,5	22,2	44,4	37,7	42,7	16,1	20,6
HSTU1010B	10	20,0	26,1	52,1	44,0	49,7	19,7	39,4

HSLU

Elbow metric flow regulator





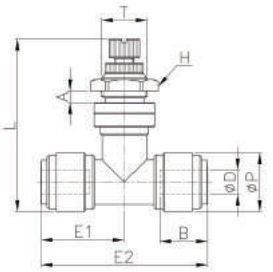


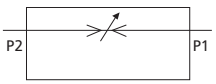
CODE	ØD	ØP	L1	L2-	L2+	E	B	GR.
HSLU0606B	6	15,5	22,2	49,6	53,6	22,2	16,1	20,3
HSLU1010B	10	20,0	25,0	59,0	64,7	26,0	19,7	39,0

HSTB

Bulkhead metric flow regulator





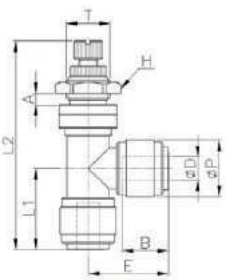


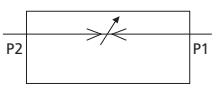
CODE	ØD	ØP	T	E1	E2	L -	L+	A	B	H	GR.
HSTB0606B	6	15,5	M12XP1	22,2	44,4	45,5	50,4	5,0	16,1	16	28,9
HSTB1010B	10	20,0	M15XP1	26,1	52,1	52,7	58,4	6,0	19,7	19	54,0

HSLB

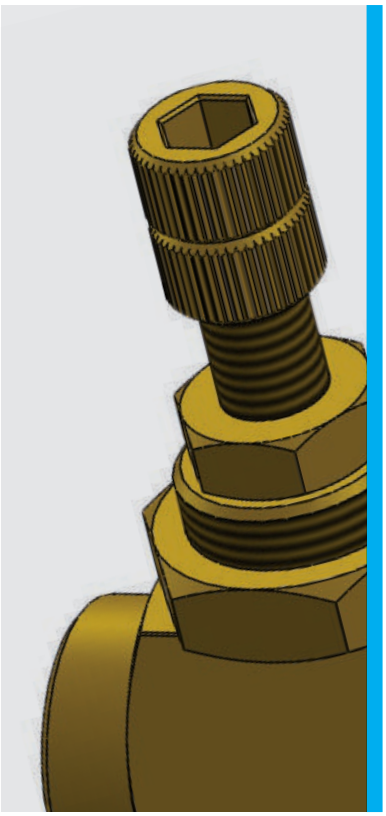
Elbow bulkhead metric flow regulator







CODE	ØD	ØP	T	L1	L2-	L2+	E	A	B	H	GR.
HSLB0606B	6	15,5	M12X1,0	22,2	57,1	61,3	22,2	5,0	16,1	16	28,7
HSLB1010B	10	20,0	M15X1,0	25,0	67,7	73,4	26,0	6,0	19,7	19	54,0



-10°C ÷ 110°C

10 Bar

Compressed air, potable water and fluids suitable with construction materials

Manual

Female parallel gas BSPP ISO 228 G1/4"

Body: brass CW614N with directive DM174

Seal: EPDM

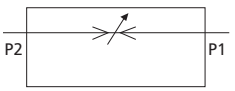
Products in compliance with the directive 2002/95/EC

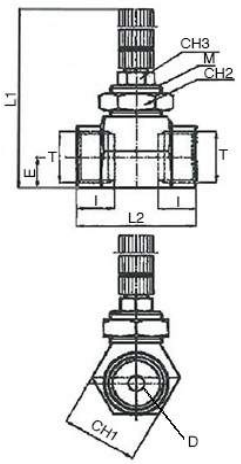
Products in compliance with the directive 2011/65/EU

HSF-B

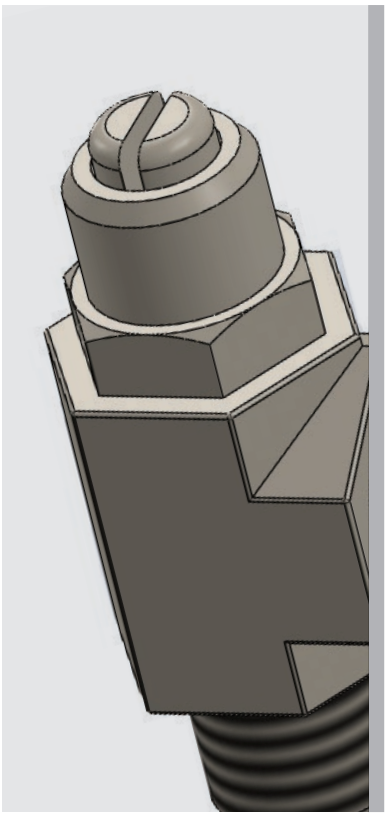
Bidirectional female brass flow regulator BSPP thread







CODE	T	M	CH1	CH2	CH3	DN	E	I	GR.
HSF-B02	G1/4"	M13X1	19	16	8	5	8	9,5	45,0



Up to 120°C

Up to 10 Bar

Compressed air and fluids compatible with construction materials

Screwdriver

Parallel gas BSPP ISO 228 con OR from G1/8" to G1/2"

Polyethylene, PTFE, FEP

Body: stainless steel AISI 316
Lock claw: stainless steel AISI 303
Seal: Viton

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

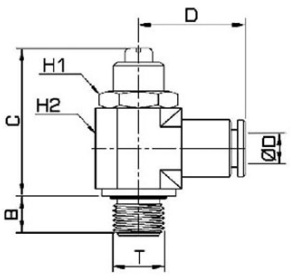
DM174

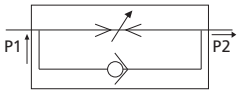
TIFO

SXSC-D

Unidirectional screwdriver flow regulator BSPP thread in AISI 316 for cylinders





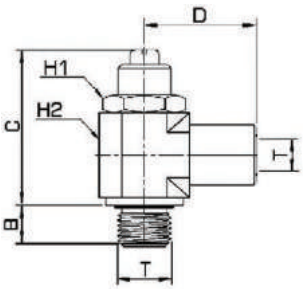


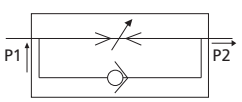
CODE	ØD	T	B	C	D	E	H1	H2	GR.
SXSC06G01-D	6	G1/8"	6	38	24	8	14,3	16	44
SXSC06G02-D	6	G1/4"	8	40	28	12	17,4	19	84
SXSC08G01-D	8	G1/8"	6	38	24	8	14,3	16	46
SXSC08G02-D	8	G1/4"	8	40	28	12	17,4	19	80
SXSC10G02-D	10	G1/4"	8	40	28	12	17,4	19	83

SXSC-DF

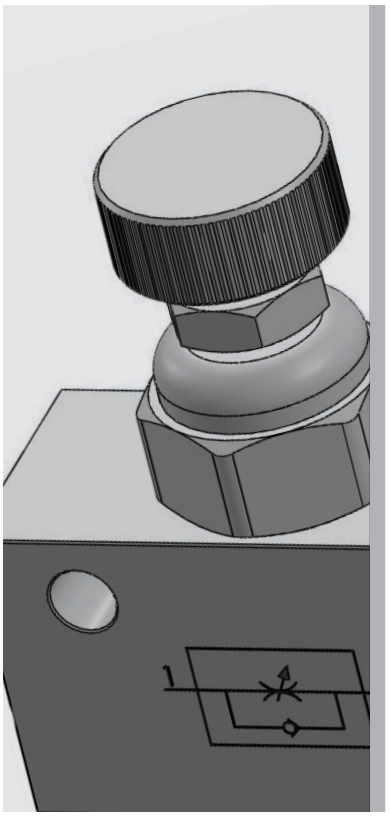
Unidirectional screwdriver female flow regulator BSPP thread in AISI 316 for cylinders







CODE	T	B	C	D	E	H1	H2	GR.
SXSC01-DF	G1/8"	6	38	21	8	14,3	16	42
SXSC02-DF	G1/4"	8	40	25	12	17,4	19	87
SXSC03-DF	G3/8"	8	53	28	12	20,6	22	141
SXSC04-DF	G1/2"	10	69	31	15	24,0	28	213



From -10°C to 120°C for unidirectional regolators
From -25°C to 120°C for bidirectional regolators

From 1 Bar to 16 Bar for unidirectional regolators
From 0 Bar to 40 Bar for bidirectional regolators

Only air for unidirectional regolators
Air and fluids compatible with construction materials for bidirectional regolators

Manual

Parallel gas BSPP ISO 228 from G1/8" to G1/2"
NPT N1/4" and N1/2"

Body: stainless steel AISI 316
Seal: Viton

REACH
Products in compliance with the directive 2002/95/EC

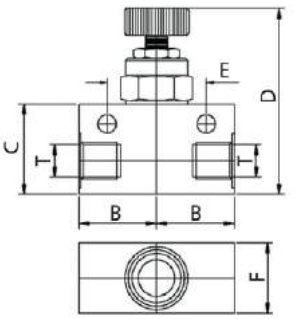
RoHS2
Products in compliance with the directive 2011/65/EU

DM174

XSFC-U

Unidirectional female flow regulator BSPP thread Inox AISI 316

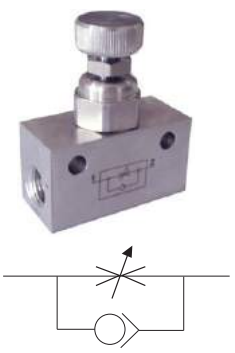


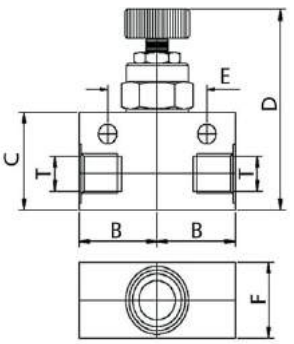


CODE	T	B	C	D	E	F	GR.
XSFC-U01	G1/8	16,0	22,0	47,0	22,0	16,0	250
XSFC-U02	G1/4	27,5	32,0	56,0	31,8	25,0	350
XSFC-U03	G3/8	27,5	32,0	56,0	31,8	25,0	485
XSFC-U04	G1/2	32,0	38,0	62,0	35,0	28,0	625

XSFC-U-N

Unidirectional female flow regulator NPT thread Inox AISI 316



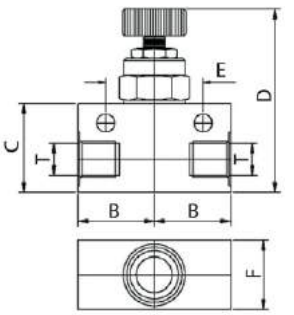


CODE	T	B	C	D	E	F	GR.
XSFC-U-N02	N1/4	27,5	32,0	56,0	31,8	25,0	350
XSFC-U-N04	N1/2	32,0	38,0	62,0	35,0	28,0	625

XSFC-B

Bidirectional female flow regulator BSPP thread Inox AISI 316



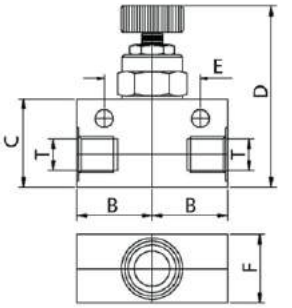


CODE	T	B	C	D	E	F	GR.
XSFC-B01	G1/8	16,0	22,0	47,0	22,0	16,0	250
XSFC-B02	G1/4	27,5	32,0	56,0	31,8	25,0	350
XSFC-B03	G3/8	27,5	32,0	56,0	31,8	25,0	485
XSFC-B04	G1/2	32,0	38,0	62,0	35,0	28,0	625

XSFC-B-N

Bidirectional female flow regulator NPT thread Inox AISI 316





CODE	T	B	C	D	E	F	GR.
XSFC-B-N02	N1/4	27,5	32,0	56,0	31,8	25,0	350
XSFC-B-N04	N1/2	32,0	38,0	62,0	35,0	28,0	625


10
1
2

FUNCTION FITTINGS
FLOW REGULATORS WITH PILOT CHECK VALVES

PLUS

OPTIMIZED DIMENSIONS & PERFORMANCES

TWO FUNCTIONS IN A SINGLE COMPONENT

EASY USE THANKS TO THE SWIVELING SYSTEM

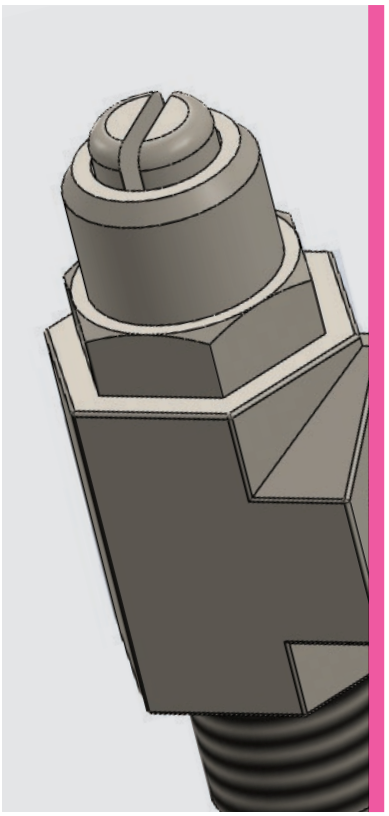
100% TESTED



p. 122 / **PVSC**



p. 122 / **PVSC-G**



0°C ÷ 60°C

Negative pressure:
-750mmHg

Compressed air

Manual

Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
Parallel gas BSPP ISO 228
from G1/8" to G1/2"

Polyamide, Polyurethane

REACH

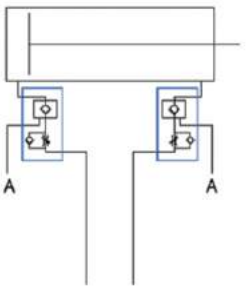
Products in compliance with
the directive 2002/95/EC

RoHS2

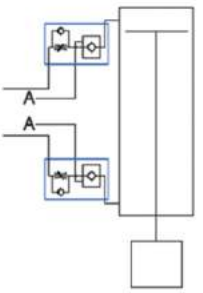
Products in compliance with
the directive 2011/65/EU

SILICON FREE

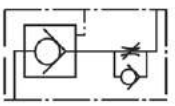
APPLIED EXAMPLE



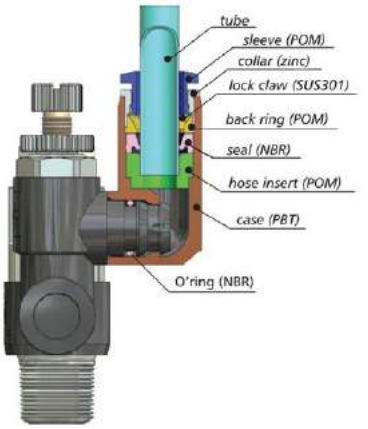
mounted in pairs lock the piston by simultaneously cutting off the supply and the exhaust

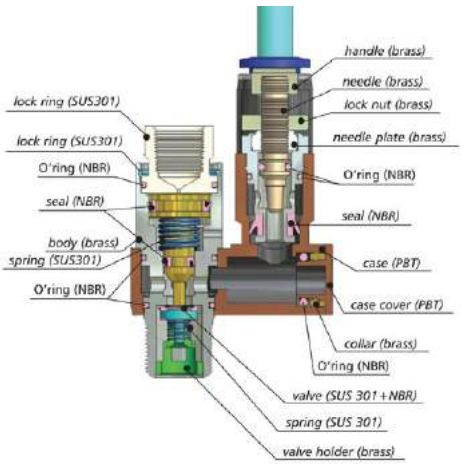


protect falling down of the rod cylinder in the off state supply and the exhaust



CONSTRUCTION MATERIALS





INSERTION OF THE TUBE INTO THE FITTING

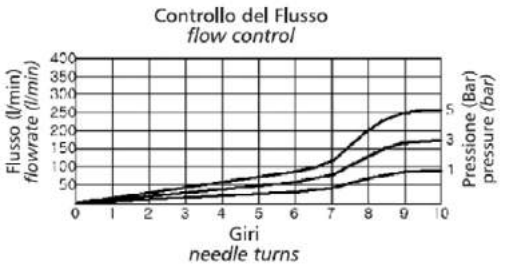
- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube at a squared angle (90°), insert up to the end and pull gently to make sure it is correctly connected.
- If there are any damages or scratches on the tube surface or an oval shape, air leakage and tube release may occur. Check it carrefuly.
- The OD of polyurethane tubes expand when pressure is applied. Reinsertion into the fitting may not be possible. Check the OD of the tube and change the tube if the expansion is serious.
- Always remove by cutting the part of the tube previously inserted into the fitting. Use a proper tube cutter in order to cut the tube.

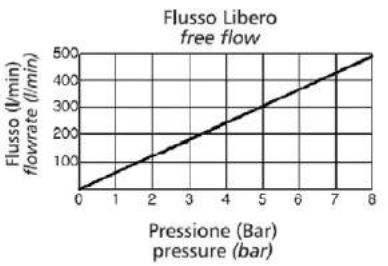
DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure is zero before releasing the tube from the fitting.
- To release the tube, press the release ring regularly at the end and pull the tube with one hand.

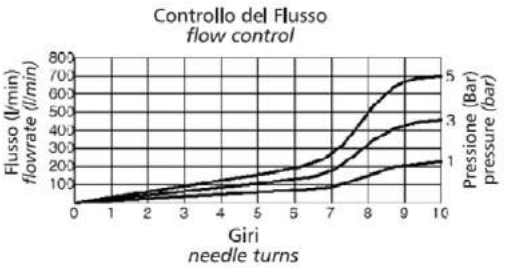
FLOW CHARTS

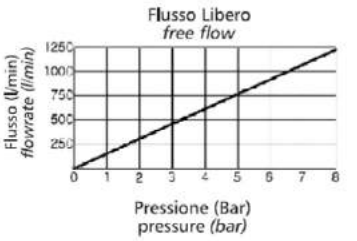
PVSC 06-01
PVSC 08-01



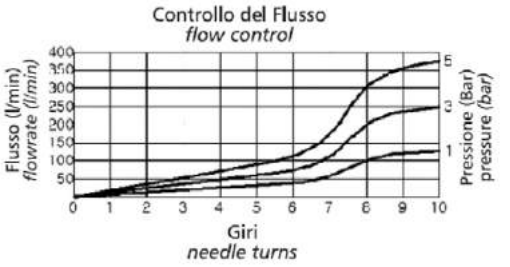


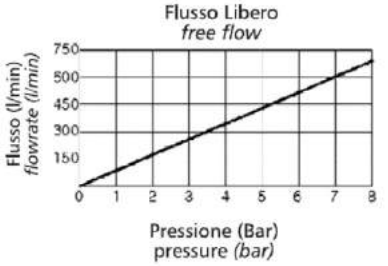
PVSC 08-03
PVSC 10-03
PVSC 12-03



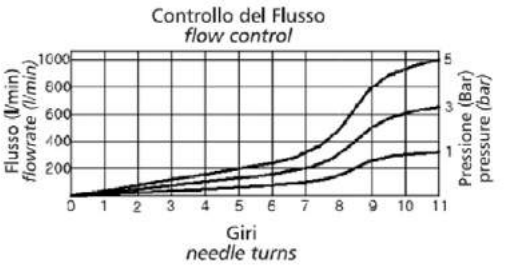


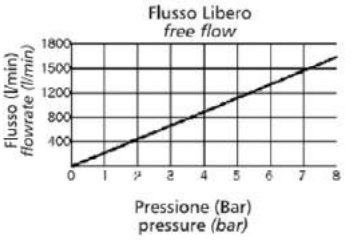
PVSC 06-02
PVSC 08-02





PVSC 10-04
PVSC 12-04

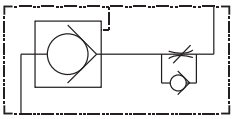


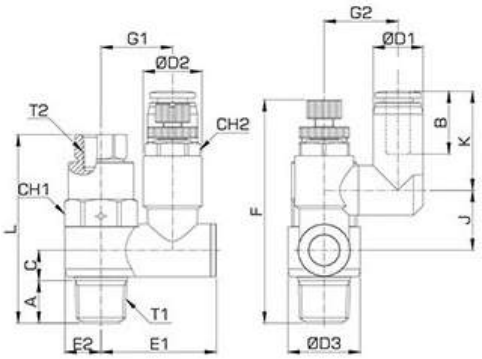


PVSC

Flow regulator with pilot check valve BSPT thread nickel plated





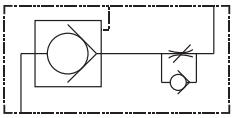


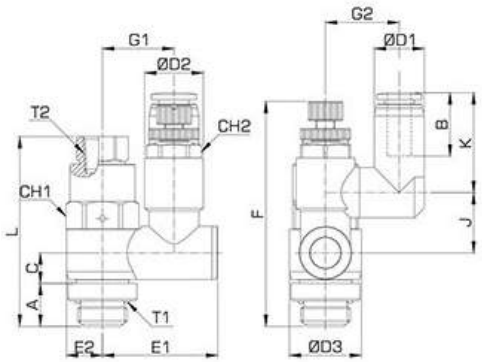
CODE	ØD	T1	T2	A	B	ØD1	ØD2	ØD3	C	L	E1	E2	F-	F +	G1	G2	J	K	H1	H2	GR.
PVSC06R01	6	R1/8	M5	8,5	16,4	12,5	12,0	14,2	10,9	41,0	24,2	7,1	50,6	55,4	14,3	14,2	12,9	24,0	12	10	44,6
PVSC06R02	6	R1/4	G1/8	11,1	16,4	13,0	15,3	18,8	12,4	49,1	30,1	9,4	57,1	61,9	18,7	19,3	15,6	25,9	17	13	79,4
PVSC08R01	8	R1/8	M5	8,5	18,3	14,8	12,0	14,2	10,9	41,0	24,2	7,1	50,6	55,4	14,3	15,4	12,6	24,9	12	10	42,6
PVSC08R02	8	R1/4	G1/8	11,1	18,3	14,8	15,3	18,8	12,4	49,1	30,1	9,4	57,1	61,9	18,7	18,3	15,9	28,3	17	13	80,4
PVSC08R03	8	R3/8	G1/8	11,9	18,3	15,0	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	29,3	19	17	124,9
PVSC10R03	10	R3/8	G1/8	11,9	20,2	17,5	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	31,7	19	17	137,9
PVSC10R04	10	R1/2	G1/4	14,9	20,2	17,5	27,2	28,7	19,3	70,8	47,4	14,4	81,3	87,0	29,1	26,3	25,6	33,1	24	23	252,6
PVSC12R03	12	R3/8	G1/8	11,9	22,9	20,5	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	34,4	19	17	145,9
PVSC12R04	12	R1/2	G1/4	14,9	22,9	20,5	27,2	28,7	19,3	70,8	47,4	14,4	81,3	87,0	29,1	26,3	25,6	35,8	24	23	238,6

PVSC-G

Flow regulator with pilot check valve BSPP thread nickel plated







CODE	ØD	T1	T2	A	B	ØD1	ØD2	ØD3	C	L	E1	E2	F-	F +	G1	G2	J	K	H1	H2	GR.
PVSC06G01	6	G1/8	M5	5,1	16,4	12,5	12,0	14,2	10,9	41,0	24,2	7,1	50,6	55,4	14,3	14,2	12,9	24,0	12	10	44,6
PVSC06G02	6	G1/4	G1/8	6,6	16,4	13,0	15,3	18,8	12,4	49,1	30,1	9,4	57,1	61,9	18,7	19,3	15,6	25,9	17	13	79,4
PVSC08G01	8	G1/8	M5	5,1	18,3	14,8	12,0	14,2	10,9	41,0	24,2	7,1	50,6	55,4	14,3	15,4	12,6	24,9	12	10	42,6
PVSC08G02	8	G1/4	G1/8	6,6	18,3	14,8	15,3	18,8	12,4	49,1	30,1	9,4	57,1	61,9	18,7	18,3	15,9	28,3	17	13	80,4
PVSC08G03	8	G3/8	G1/8	7,2	18,3	15,0	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	29,3	19	17	124,9
PVSC10G03	10	G3/8	G1/8	7,2	20,2	17,5	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	31,7	19	17	137,9
PVSC10G04	10	G1/2	G1/4	8,7	20,2	17,5	27,2	28,7	19,3	70,8	47,4	14,4	81,3	87,0	29,1	26,3	25,6	33,1	24	23	252,6
PVSC12G03	12	G3/8	G1/8	7,2	22,9	20,5	20,2	23,0	15,3	56,9	37,1	11,5	67,2	72,2	22,8	23,3	19,1	34,4	19	17	145,9
PVSC12G04	12	G1/2	G1/4	8,7	22,9	20,5	27,2	28,7	19,3	70,8	47,4	14,4	81,3	87,0	29,1	26,3	25,6	35,8	24	23	238,6

FUNCTION FITTINGS EXHAUST VALVES

PLUS

- WIDE RANGE OF MATERIALS STUDIED FOR DIFFERENT USES
- STRONG AND RELIABLE
- AVAILABLE WITH REGULATION AND SILENCER
- GREAT EXHAUST SYSTEM
- OPTIMIZATION OF RETURNING SPEED OF THE CYLINDER
- PLASTIC QUICK EXHAUST VALVES FLAME RESISTANCE

PLASTIC QUICK EXHAUST VALVE WITH FLOW REGULATOR



p. 126 / **ESC-M**



p. 126 / **ESC**



p. 126 / **ESC-G**

BRASS QUICK EXHAUST VALVES



p. 127 / **1100**



p. 128 / **1100-N**

p. 128 / **1101**



p. 128 / **1102**

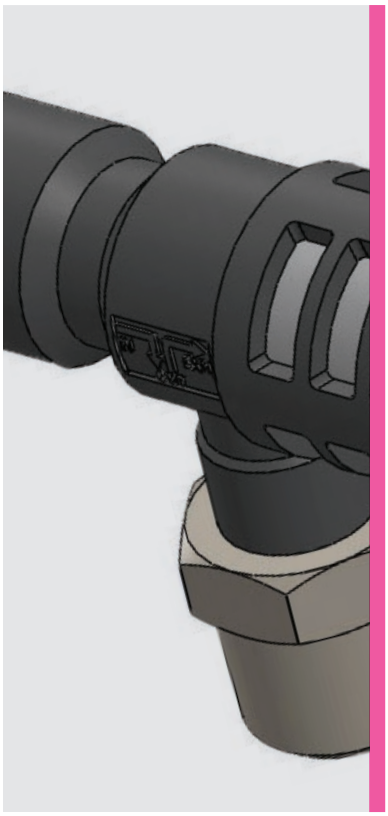
QUICK EXHAUST VALVES INOX AISI 316



p. 130 / **1400**



p. 130 / **1400N**



0°C ÷ 60°C

10 Bar
Negative pressure:
-750 mmHg

Compressed air.
Do not use in water applications.

Manual

Taper gas BSPT ISO 7 from R1/8" to R1/2" with teflon coated
Parallel gas BSPP ISO 228 from G1/8" to G1/2"

Polyamide, Polyurethane.

Quick exhaust valve with speed controller.
High speed cylinders operation.
Silencer installed with speed controllers.
Flame Resistance for BSPT and BSPP threads

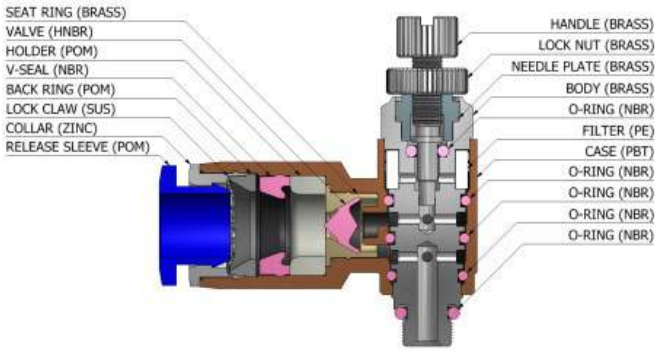
REACH

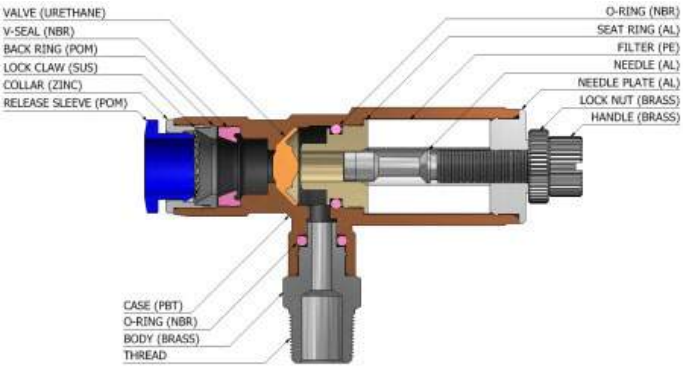
Products in compliance with the directive 2002/95/EC

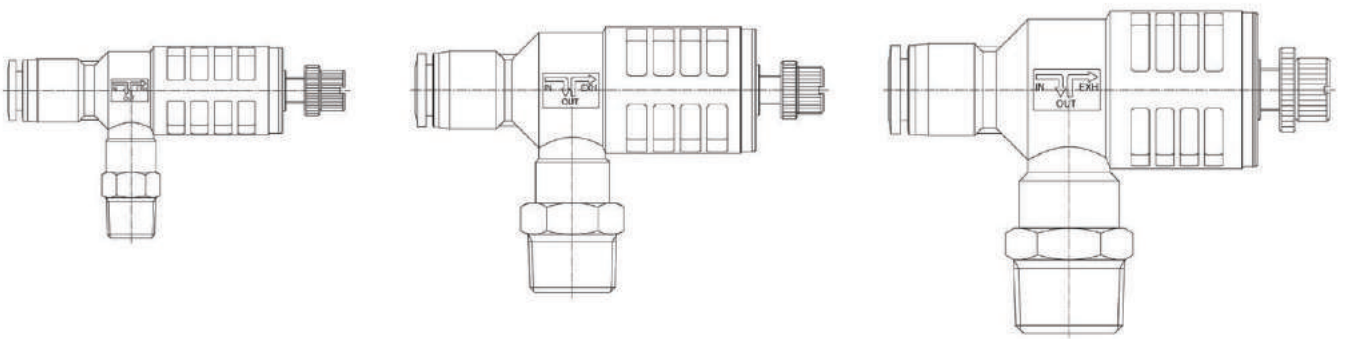
RoHS2

Products in compliance with the directive 2011/65/EU

CONSTRUCTION MATERIALS





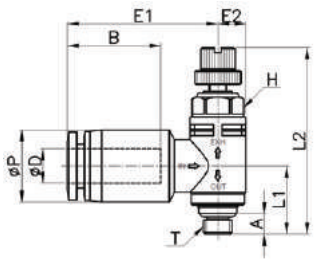


S M L

ESC-M

Flow regulator with automatic silenced quick exhaust valve Metric thread



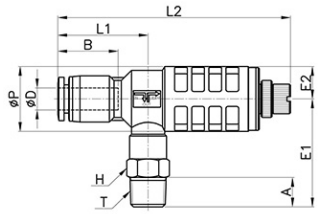


CODE	ØD	ØP	T	L1	L2-	L2+	E1	E2	A	B	H	GR.
ESC04M3	4	10,3	M3*0,5P	11,9	32,2	34,7	25,8	4,9	3,0	14,8	8	11,4
ESC04M5	4	10,3	M5*0,8P	11,9	32,2	34,7	25,8	4,9	3,6	14,8	8	11,3
ESC06M5	6	12,5	M5*0,8P	11,9	32,2	34,7	26,4	4,9	3,6	16,5	8	12,3

ESC

Flow regulator with automatic silenced quick exhaust valve BSPT thread



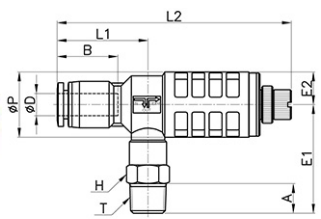


CODE	ØD	ØP	T	L1	L2 -	L2+	E1	E2	A	B	H	GR.
ESC06R01-S	6	12,5	R1/8"	24,5	63,3	72,0	29,3	8,8	8,0	16,5	10	21,5
ESC06R02-S	6	12,5	R1/4"	24,5	63,3	72,0	31,3	8,8	10,0	16,5	14	26,3
ESC08R01-S	8	14,8	R1/8"	26,5	65,1	71,7	29,3	8,8	8,0	18,3	10	22,5
ESC08R02-S	8	14,8	R1/4"	26,5	65,1	71,7	31,3	8,8	10,0	18,3	14	27,4
ESC08R01-M	8	14,8	R1/8"	29,8	73,2	82,3	34,5	12,0	8,0	18,3	14	40,0
ESC08R02-M	8	14,8	R1/4"	29,8	73,2	82,3	37,5	12,0	10,0	18,3	14	42,9
ESC08R03-M	8	14,8	R3/8"	29,8	73,2	82,3	38,5	12,0	11,0	18,3	17	48,5
ESC10R01-M	10	17,5	R1/8"	31,7	75,0	84,1	34,5	12,0	8,0	20,1	14	41,7
ESC10R02-M	10	17,5	R1/4"	31,7	75,0	84,1	37,5	12,0	10,0	20,1	14	44,7
ESC10R03-M	10	17,5	R3/8"	31,7	75,0	84,1	38,5	12,0	11,0	20,1	17	50,2
ESC10R02-L	10	17,5	R1/4"	34,4	80,1	88,6	42,4	15,0	10,0	20,1	19	72,5
ESC10R03-L	10	17,5	R3/8"	34,4	80,1	88,6	43,4	15,0	11,0	20,1	19	76,5
ESC10R04-L	10	17,5	R1/2"	34,4	80,1	88,6	46,4	15,0	14,0	20,1	21	85,2
ESC12R02-L	12	20,5	R1/4"	37,1	83,1	91,6	42,4	15,0	10,0	23,1	19	75,2
ESC12R03-L	12	20,5	R3/8"	37,1	83,1	91,6	43,4	15,0	11,0	23,1	19	79,2
ESC12R04-L	12	20,5	R1/2"	37,1	83,1	91,6	46,4	15,0	14,0	23,1	21	88,1

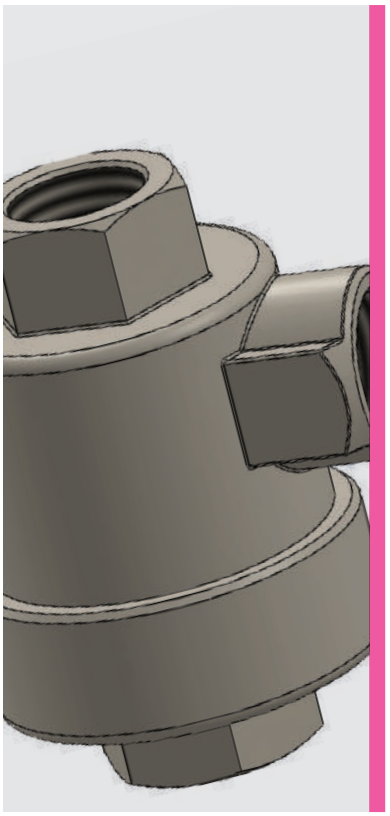
ESC-G

Flow regulator with automatic silenced quick exhaust valve BSPP thread





CODE	ØD	ØP	T	L1	L2-	L2+	E1	E2	A	B	H	GR.
ESC06G01-S	6	12,5	G1/8"	24,5	63,3	72,0	26,3	4,9	5,0	16,5	14	24,5
ESC06G02-S	6	12,5	G1/4"	24,5	63,3	72,0	28,3	4,9	6,5	16,5	17	28,3
ESC08G01-S	8	14,8	G1/8"	26,5	65,1	71,7	26,3	8,8	5,0	18,3	14	25,5
ESC08G02-S	8	14,8	G1/4"	26,5	65,1	71,7	28,3	8,8	6,5	18,3	17	29,4
ESC08G01-M	8	14,8	G1/8"	29,8	73,2	82,3	31,5	12,0	5,0	18,3	14	38,0
ESC08G02-M	8	14,8	G1/4"	29,8	73,2	82,3	33,5	12,0	6,5	18,3	17	41,9
ESC08G03-M	8	14,8	G3/8"	29,8	73,2	82,3	33,0	12,0	6,5	18,3	20	46,5
ESC10G01-M	10	17,5	G1/8"	31,7	75,0	84,1	31,5	12,0	5,0	20,1	14	39,7
ESC10G02-M	10	17,5	G1/4"	31,7	75,0	84,1	33,5	12,0	6,5	20,1	17	43,7
ESC10G03-M	10	17,5	G3/8"	31,7	75,0	84,1	33,0	12,0	6,5	20,1	20	48,2
ESC10G02-L	10	17,5	G1/4"	34,4	80,1	88,6	38,4	15,0	6,5	20,1	19	68,5
ESC10G03-L	10	17,5	G3/8"	34,4	80,1	88,6	37,9	15,0	6,5	20,1	20	71,5
ESC10G04-L	10	17,5	G1/2"	34,4	80,1	88,6	39,4	15,0	8,0	20,1	24	78,2
ESC12G02-L	12	20,5	G1/4"	37,1	83,1	91,6	38,4	15,0	6,5	23,1	19	71,2
ESC12G03-L	12	20,5	G3/8"	37,1	83,1	91,6	37,9	15,0	6,5	23,1	20	74,2
ESC12G04-L	12	20,5	G1/2"	37,1	83,1	91,6	39,4	15,0	8,0	23,1	24	81,1



-20°C ÷ 80°C

From 0,5 to 10 Bar

Compressed air and fluids compatible with construction materials.

Parallel gas BSPP ISO 228 from G1/8" to G1"
Metric ISO 262 M5
NPT from N1/8" to N1/2"

Nickel plated brass
UNI EN 12165 CW 617N
Membrane: NBR for M5 thread
Polyurethane elastomer for other threads
Cap seal: Nylon

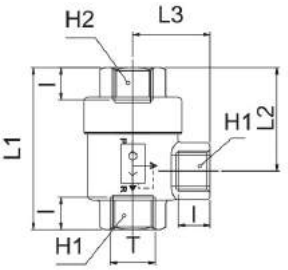
REACH
Products in compliance with the directive 2002/95/EC

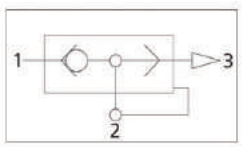
RoHS2
Products in compliance with the directive 2011/65/EU

1100

Nickel plated brass quick exhaust valve BSPP thread





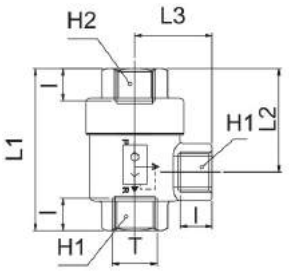


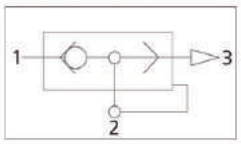
CODE	T	I	L1	L2	L3	H1	H2	GR.
1100TRM5	M5	4,0	24,8	15,6	10,5	10	10	27
1100TR18	G1/8"	8,0	42,0	28,0	19,5	14	14	84
1100TR14	G1/4"	11,0	53,0	34,5	25,0	19	19	146
1100TR38	G3/8"	12,0	58,0	36,0	26,0	21	21	150
1100TR12	G1/2"	14,0	71,0	44,0	35,0	26	26	314
1100TR34	G3/4"	18,0	86,0	52,0	38,5	32	32	450
1100TR1	G1"	19,0	94,0	56,0	42,0	38	38	525

1100-N

Nickel plated brass quick exhaust valve NPT thread



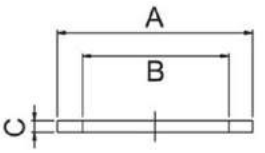




CODE	T	I	L1	L2	L3	H1	H2	GR.
1100TRN18	N1/8"	8,0	42,0	28,0	19,5	14	14	84
1100TRN14	N1/4"	11,0	53,0	34,5	25,0	19	19	146
1100TRN38	N3/8"	12,0	58,0	36,0	26,0	21	21	150
1100TRN12	N1/2"	14,0	71,0	44,0	35,0	26	26	314

1101

Body/cap seal in nylon

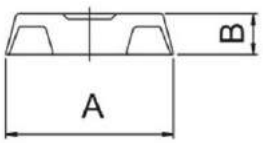


CODE	T	A	B	C	GR.
1101TRM5	M5	17,0	12,4	0,8	0,080
1101TR18	1/8"	23,8	20,0	1,0	0,014
1101TR14	1/4"	28,5	24,0	1,0	0,018
1101TR38	3/8"	28,5	24,0	1,0	0,018
1101TR12	1/2"	38,6	32,0	1,5	0,030
1101TR34	3/4"	45,0	38,0	1,5	0,760
1101TR1	1"	45,0	38,0	1,5	0,760

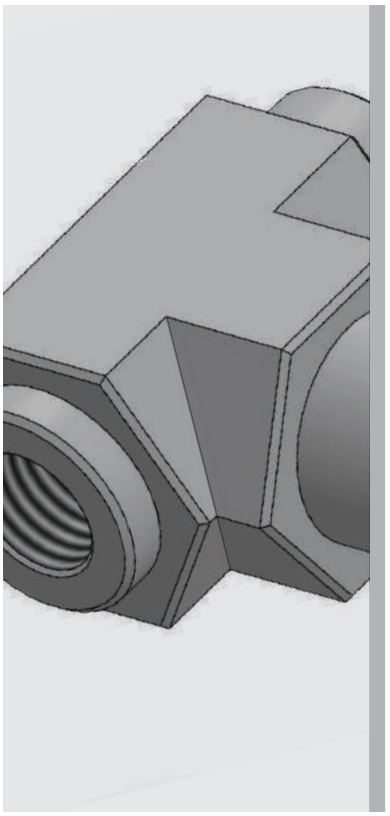
1102

Membrane in polyurethane elastomer for valve





CODE	T	A	B	GR.
1102TRM5	M5	13,5	4,5	0,4
1102TR18	1/8"	20,5	5,0	1,1
1102TR14	1/4"	25,5	5,8	1,9
1102TR38	3/8"	25,5	5,8	1,9
1102TR12	1/2"	35,5	8,2	2,5
1102TR34	3/4"	40,5	9,0	7,0
1102TR1	1"	40,5	9,0	7,0



Up to 120°C

From 0 to 40 Bar

Compressed air in aggressive environments.

Parallel gas BSPP ISO 228
from G1/8" to G1"
NPT 1/4" - 1/2" – 1"

Body: Polyurethane elastomer stainless steel AISI 316

Sealing: from 1/8" to 1/4" Viton
from 3/8" to 1" polyurethane

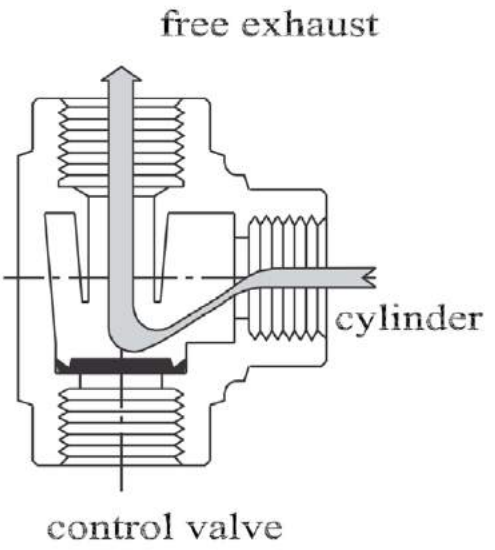
REACH

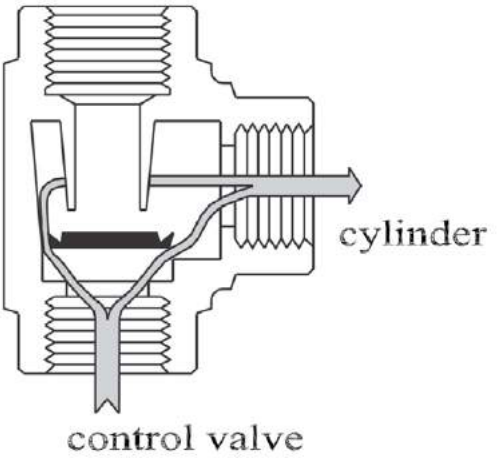
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FLOW

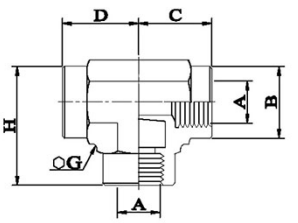


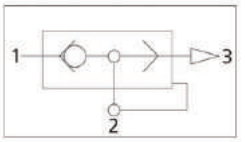


1400

Stainless steel AISI 316 quick exhaust valve BSPP thread





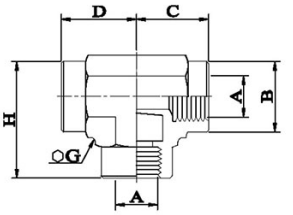


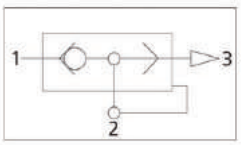
CODE	A	B	C	D	H	G	GR.
1400TR18	G1/8"	17	21	16,5	31,5	22	125
1400TR14	G1/4"	17	21	16,5	31,5	22	155
1400TR38	G3/8"	22	25,5	19	37	27	202
1400TR12	G1/2"	27	31	23	46	32	305
1400TR34	G3/4"	38	44	35	46	46	915
1400TR1	G1"	38	44	35	46	46	1380

1400-N

Stainless steel AISI 316 quick exhaust valve NPT thread







CODE	A	B	C	D	H	G	GR.
1400TRN14	N1/4"	17	21	16,5	31,5	22	155
1400TRN12	N1/2"	27	31	23	46	32	305
1400TRN1	N1"	38	44	35	46	46	1380

FUNCTION FITTINGS MANUAL VALVES

PLUS

- EASY AND INTUITIVE USE
- WIDE RANGE OF PRODUCTS AVAILABLE FOR DIFFERENT APPLICATIONS
- LARGE RANGE OF SOLUTIONS AVAILABLE
- SAFETY SYSTEM AVAILABLE WITH SLIDE LOCK



SLIDE VALVES

p. 134 / **1610**



p. 134 / **1620**



SLIDE VALVES WITH SECURITY BLOCK

p. 135 / **1605**



CDC PNEUMATICS MANUAL VALVES

p. 137 / **HVC-R**



p. 137 / **HVC-G**



p. 138 / **HVF-R**



p. 138 / **HVF-G**

N



p. 139 / **HVM-R**

N



p. 139 / **HVM-G**



p. 140 / **HVU**



DUALTECH VALVES

p. 141 / **9020**



TRIOTECH VALVES

p. 142 / **9030**



p. 142 / **9031**



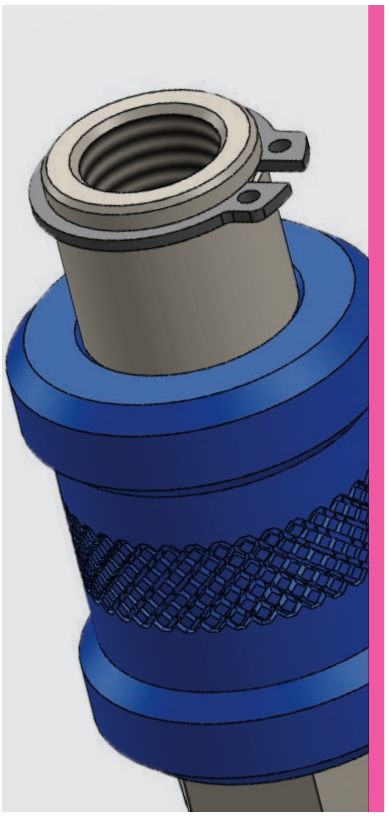
PLASTIC HAND VALVES FOR HIGH PERFORMANCE

p. 143 / **HBVU**



PLASTIC BALL VALVES FOR HIGH PERFORMANCE

p. 144 / **HCVB**



-5°C ÷ 70°C

from 0 to 10 Bar

Compressed air, lubricated compressed air, various gases compatible with construction materials (except gases which can be dangerous for people and things).

1610: Parallel gas BSPP ISO 228
from G1/8" to G3/4"
Metric ISO 262 M5
1620: NPT from N1/8" to N1/2"

Body: Brass CW614N chrome plated
Slider: Blue anodized aluminum
O'Ring: NBR 70
Elastic ring: Steel

REACH

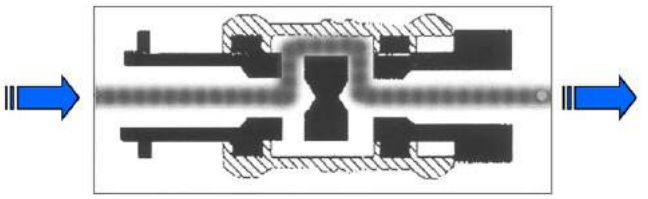
Products in compliance with the directive 2002/95/EC

RoHS2

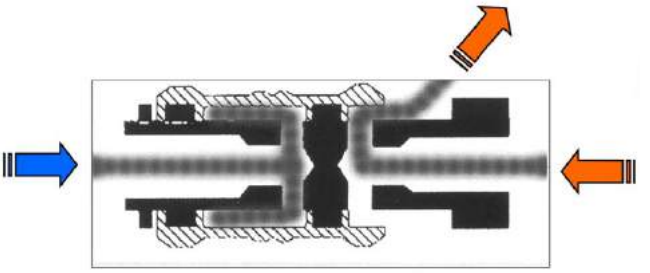
Products in compliance with the directive 2011/65/EU

DIRECTION OF THE FLOW

Indication of the fluid direction engraved on the body.



Valvola in posizione di APERTO
Slide in OPEN position



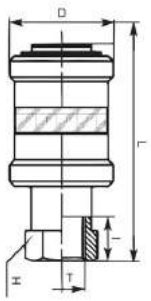
Valvola in posizione di CHIUSO
Slide in CLOSED position

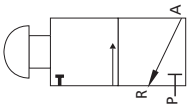
FLOW RATE

FLOW	M5	1/8	1/4	3/8	1/2	3/4
Nl/min	100	680	1300	2100	3800	5700

1610





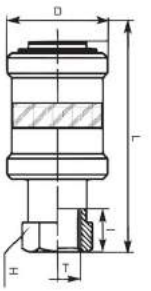


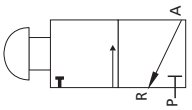
Slide valve BSPP & metric thread

CODE	T	D	I	L	H	GR.
1610TRM5	M5	14	5,0	30,5	10	11
1610TR18	G1/8"	25	9,0	48,0	14	51
1610TR14	G1/4"	30	11,5	58,0	19	98
1610TR38	G3/8"	35	12,0	70,0	22	156
1610TR12	G1/2"	40	15,0	75,0	27	212
1610TR34	G3/4"	50	16,5	83,0	32	317

1620

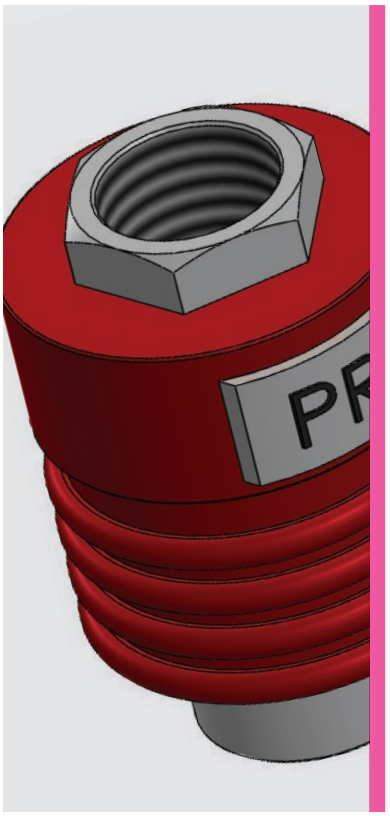






Slide valve NPT thread

CODE	T	D	I	L	H	GR.
1620TR18	N1/8"	25	8	55,5	14	51
1620TR14	N1/4"	30	11	69,0	19	98
1620TR38	N3/8"	35	12	81,5	22	156
1620TR12	N1/2"	40	15	90,0	27	212



-5°C ÷ 70°C

from 0 to 10 Bar

Compressed air, lubricated compressed air, various gases compatible with construction materials (except gases which can be dangerous for people and things).

Parallel gas BSPP ISO 228 from G1/4" to G1/2"

Indication of the fluid direction engraved on the body.

Pin: brass chrome plated
Slider: red painted aluminium
Seals: NBR 70
Elastic ring: stainless steel AISI 302
Cursor: brass chrome plated
Spring: stainless steel AISI 302

Available on demand with lockable

REACH

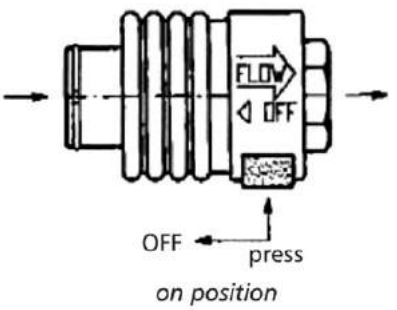
Products in compliance with the directive 2002/95/EC

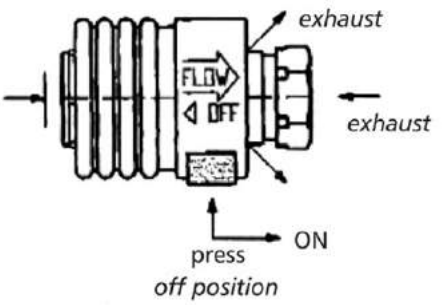
RoHS2

Products in compliance with the directive 2011/65/EU

SECURITY

The double block system avoid the accidental valve opening or closing.

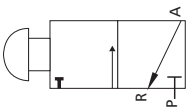


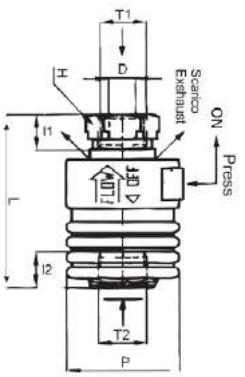


1605

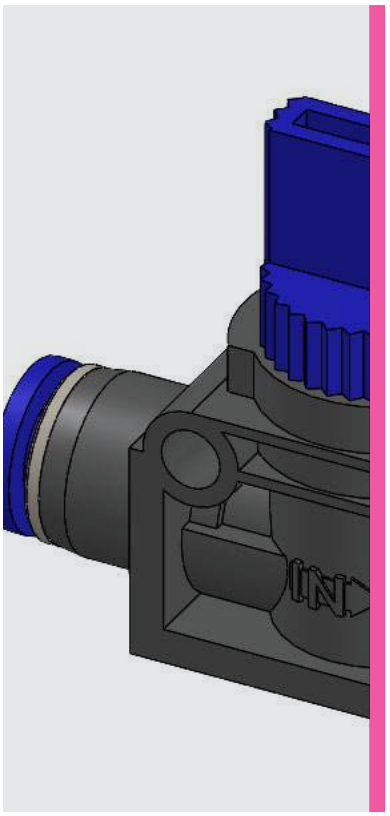
Slide valve with security block BSPP thread







CODE	T1	T2	L	I1	I2	D	P	H	GR.
1605TR14	G1/4"	G1/4"	46	9,5	9,5	8	30	17	86
1605TR38	G3/8"	G3/8"	52	10,5	10,5	10	35	21	127
1605TR12	G1/2"	G1/2"	62	12,0	12,0	12,5	40	26	204



0°C ÷ 60°C

From 0 to 10 Bar
Negative pressure: -750 mmHg

Compressed air

Taper gas BSPT ISO 7 from R1/8" to R1/2" Teflon coated
Parallel gas BSPP ISO 228 with OR from G1/8" to G1/2"

Polyammide, polyurethane

Body: brass nickel plated & PBT
Lock claw: steel AISI 301
Seals: NBR silicon free
Sleeve: POM
Valve: POM

REACH

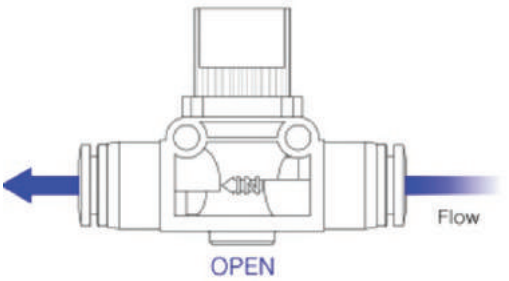
Products in compliance with the directive 2002/95/EC

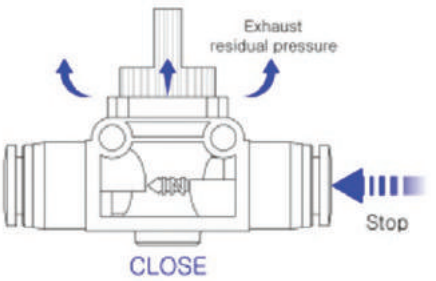
RoHS2

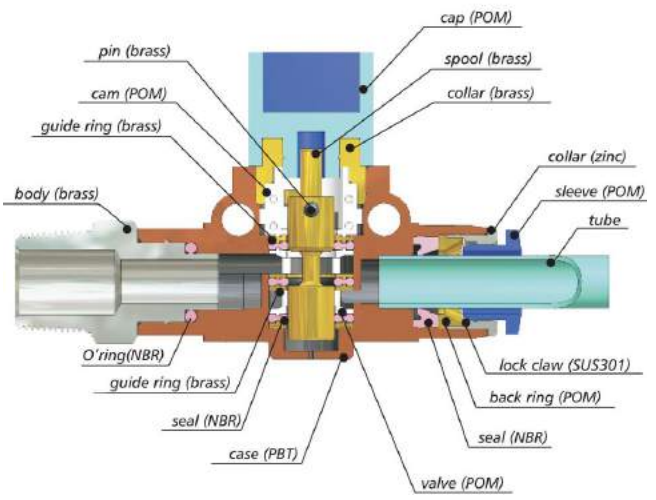
Products in compliance with the directive 2011/65/EU

FLOW

3/2 ways mini valves discharge the remaining pressure out and block the incoming air in the off state.



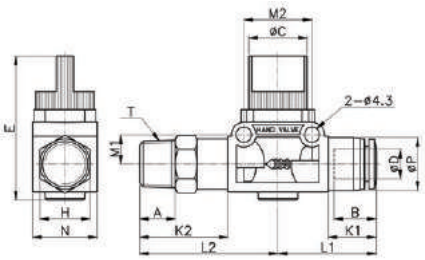


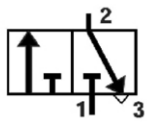


HVC-R

Male hand valve BSPT thread (flow tube-thread)





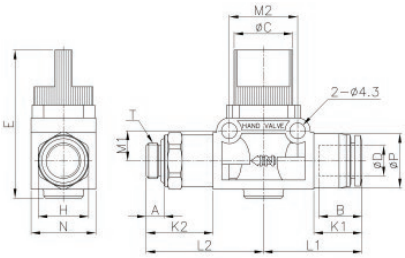


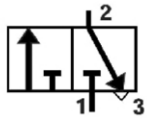
CODE	ØD	T	ØP	H	ØC	N	E	B	A	K1	K2	L1	L2	M1	M2	GR.
HVC06R01	6	R1/8"	12,5	14,0	16,3	18,0	40,3	16,4	8,0	12,2	21,6	26,2	25,6	8,2	19,0	37,0
HVC06R02	6	R1/4"	12,5	14,0	16,3	18,0	40,3	16,4	10,0	12,2	24,6	26,2	38,6	8,2	19,0	37,0
HVC06R03	6	R3/8"	12,5	17,0	16,3	18,0	40,3	16,4	11,0	12,2	25,6	26,2	39,6	8,2	19,0	47,0
HVC08R01	8	R1/8"	14,8	14,0	16,3	18,0	40,3	18,3	8,0	13,4	21,6	27,4	35,6	8,2	19,0	35,0
HVC08R02	8	R1/4"	14,8	14,0	16,3	18,0	40,3	18,3	10,0	13,4	24,6	27,4	38,6	8,2	19,0	41,0
HVC08R03	8	R3/8"	14,8	17,0	16,3	18,0	40,3	18,3	11,0	13,4	25,6	27,4	39,6	8,2	19,0	48,0
HVC10R02	10	R1/4"	17,5	17,0	19,3	21,2	40,5	20,2	10,0	14,5	23,0	31,0	39,5	10,9	24,0	58,0
HVC10R03	10	R3/8"	17,5	17,0	19,3	21,2	40,5	20,2	11,0	14,5	24,0	31,0	40,5	10,9	24,0	61,0
HVC10R04	10	R1/2"	17,5	21,0	19,3	21,2	40,5	20,2	14,0	14,5	27,0	31,0	43,5	10,9	24,0	82,0
HVC12R02	12	R1/4"	20,5	19,0	19,3	21,2	40,5	22,9	10,0	17,6	24,6	34,1	41,1	10,9	24,0	69,0
HVC12R03	12	R3/8"	20,5	19,0	19,3	21,2	40,5	22,9	11,0	17,6	25,6	34,1	42,1	10,9	24,0	68,0
HVC12R04	12	R1/2"	20,5	21,0	19,3	21,2	40,5	22,9	14,0	17,6	28,6	34,1	45,1	10,9	24,0	76,0

HVC-G

Male hand valve BSPP thread (flow tube-thread)





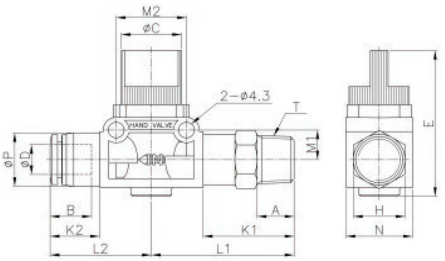


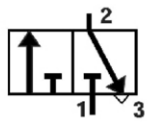
CODE	ØD	T	ØP	H	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	GR.
HVC06G01	6	G1/8"	12,5	14	16,3	18,0	40,3	5,0	16,4	12,3	18,6	26,3	32,6	8,2	19,0	37
HVC06G02	6	G1/4"	12,5	17	16,3	18,0	40,3	6,5	16,4	12,3	20,6	26,3	34,6	8,2	19,0	37
HVC06G03	6	G3/8"	12,5	20	16,3	18,0	40,3	6,5	16,4	12,3	20,1	26,3	34,1	8,2	19,0	47
HVC08G01	8	G1/8"	14,8	14	16,3	18,0	40,3	5,0	18,7	13,9	18,6	27,9	32,6	8,2	19,0	35
HVC08G02	8	G1/4"	14,8	17	16,3	18,0	40,3	6,5	18,7	13,9	20,6	27,9	34,6	8,2	19,0	41
HVC08G03	8	G3/8"	14,8	20	16,3	18,0	40,3	6,5	18,7	13,9	20,1	27,9	34,1	8,2	19,0	48
HVC10G02	10	G1/4"	17,5	17	19,3	21,2	40,5	6,5	20,1	14,4	19,0	30,9	35,5	10,9	24,0	58
HVC10G03	10	G3/8"	17,5	20	19,3	21,2	40,5	6,5	20,1	14,4	18,5	30,9	35,0	10,9	24,0	61
HVC10G04	10	G1/2"	17,5	24	19,3	21,2	40,5	8,0	20,1	14,4	20,0	30,9	36,5	10,9	24,0	82
HVC12G02	12	G1/4"	20,5	19	19,3	21,2	40,5	6,5	22,8	17,6	20,6	34,1	37,1	10,9	24,0	69
HVC12G03	12	G3/8"	20,5	20	19,3	21,2	40,5	6,5	22,8	17,6	20,1	34,1	36,6	10,9	24,0	68
HVC12G04	12	G1/2"	20,5	24	19,3	21,2	40,5	8,0	22,8	17,6	21,6	34,1	38,1	10,9	24,0	76

HVF-R

Male hand valve BSPT thread (flow thread-tube)





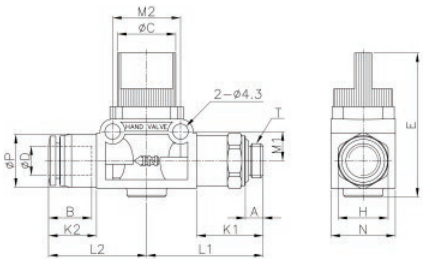


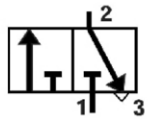
CODE	ØD	T	ØP	H	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	GR.
HVF06R01	6	R1/8″	12,5	14	16,3	18,0	40,3	8,0	16,4	21,6	12,3	35,6	26,3	8,2	19,0	37
HVF06R02	6	R1/4″	12,5	14	16,3	18,0	40,3	10,0	16,4	24,6	12,3	38,6	26,3	8,2	19,0	37
HVF06R03	6	R3/8″	12,5	17	16,3	18,0	40,3	11,0	16,4	25,6	12,3	39,6	26,3	8,2	19,0	47
HVF08R01	8	R1/8″	14,8	14	16,3	18,0	40,3	8,0	18,7	21,6	13,9	35,6	27,9	8,2	19,0	35
HVF08R02	8	R1/4″	14,8	14	16,3	18,0	40,3	10,0	18,7	24,6	13,9	38,6	27,9	8,2	19,0	41
HVF08R03	8	R3/8″	14,8	17	16,3	18,0	40,3	11,0	18,7	25,6	13,9	39,6	27,9	8,2	19,0	48
HVF10R02	10	R1/4″	17,5	17	19,3	21,2	40,5	10,0	20,1	23,0	14,4	39,5	30,9	10,9	24,0	58
HVF10R03	10	R3/8″	17,5	17	19,3	21,2	40,5	11,0	20,1	24,0	14,4	40,5	30,9	10,9	24,0	61
HVF10R04	10	R1/2″	17,5	21	19,3	21,2	40,5	14,0	20,1	27,0	14,4	43,5	30,9	10,9	24,0	82
HVF12R02	12	R1/4″	20,5	19	19,3	21,2	40,5	10,0	22,8	24,6	17,6	41,1	34,1	10,9	24,0	69
HVF12R03	12	R3/8″	20,5	19	19,3	21,2	40,5	11,0	22,8	25,6	17,6	42,1	34,1	10,9	24,0	68
HVF12R04	12	R1/2″	20,5	21	19,3	21,2	40,5	14,0	22,8	28,6	17,6	45,1	34,1	10,9	24,0	76

HVF-G

Male hand valve BSPP thread (flow thread-tube)





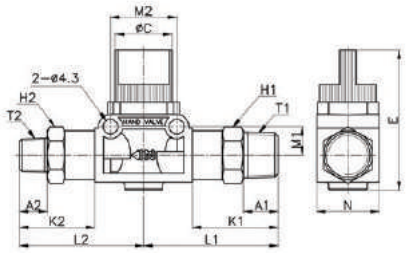


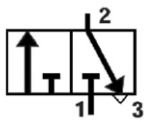
CODE	ØD	T	ØP	H	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	GR.
HVF06G01	6	G1/8″	12,5	14	16,3	18,0	40,3	5,0	16,4	18,6	12,3	32,6	26,3	8,2	19,0	37
HVF06G02	6	G1/4″	12,5	17	16,3	18,0	40,3	6,5	16,4	20,6	12,3	34,6	26,3	8,2	19,0	37
HVF06G03	6	G3/8″	12,5	20	16,3	18,0	40,3	6,5	16,4	20,1	12,3	34,1	26,3	8,2	19,0	47
HVF08G01	8	G1/8″	14,8	14	16,3	18,0	40,3	5,0	18,7	18,6	13,9	32,6	27,9	8,2	19,0	35
HVF08G02	8	G1/4″	14,8	17	16,3	18,0	40,3	6,5	18,7	20,6	13,9	34,6	27,9	8,2	19,0	41
HVF08G03	8	G3/8″	14,8	20	16,3	18,0	40,3	6,5	18,7	20,1	13,9	34,1	27,9	8,2	19,0	48
HVF10G02	10	G1/4″	17,5	17	19,3	21,2	40,5	6,5	20,1	19,0	14,4	35,5	30,9	10,9	24,0	58
HVF10G03	10	G3/8″	17,5	20	19,3	21,2	40,5	6,5	20,1	18,5	14,4	35,0	30,9	10,9	24,0	61
HVF10G04	10	G1/2″	17,5	24	19,3	21,2	40,5	8,0	20,1	20,0	14,4	36,5	30,9	10,9	24,0	82
HVF12G02	12	G1/4″	20,5	19	19,3	21,2	40,5	6,5	22,8	20,6	17,6	37,1	34,1	10,9	24,0	69
HVF12G03	12	G3/8″	20,5	20	19,3	21,2	40,5	6,5	22,8	20,1	17,6	36,6	34,1	10,9	24,0	68
HVF12G04	12	G1/2″	20,5	24	19,3	21,2	40,5	8,0	22,8	21,6	17,6	38,1	34,1	10,9	24,0	76

HVM-R

Male hand valve BSPT thread





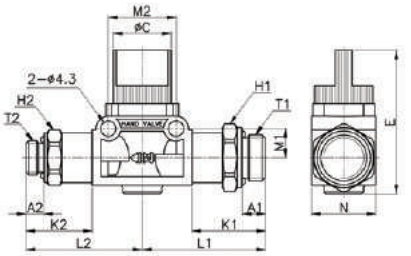


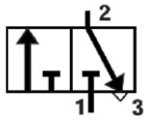
CODE	T1	T2	H1	H2	ØC	N	E	A1	A2	K1	K2	L1	L2	M1	M2	GR.
HVM01R01	R1/8″	R1/8″	14	14	16,3	18,0	40,3	8,0	8,0	21,6	21,6	35,6	35,6	8,2	19,0	47
HVM02R01	R1/4″	R1/8″	14	14	16,3	18,0	40,3	10,0	8,0	24,6	21,6	38,6	35,6	8,2	19,0	49
HVM02R02	R1/4″	R1/4″	14	14	16,3	18,0	40,3	10,0	10,0	24,6	24,6	38,6	38,6	8,2	19,0	50
HVM03R02	R3/8″	R1/4″	17	17	19,3	21,2	40,5	11,0	10,0	24,0	24,6	40,5	38,6	10,9	24,0	64
HVM03R03	R3/8″	R3/8″	17	17	19,3	21,2	40,5	11,0	11,0	24,0	24,0	40,5	40,5	10,9	24,0	83
HVM04R03	R1/2″	R3/8″	21	19	19,3	21,2	40,5	14,0	11,0	28,6	24,0	45,1	40,5	10,9	24,0	103
HVM04R04	R1/2″	R1/2″	21	21	19,3	21,2	40,5	14,0	14,0	28,6	28,6	45,1	45,1	10,9	24,0	121

HVM-G

Male hand valve BSPP thread





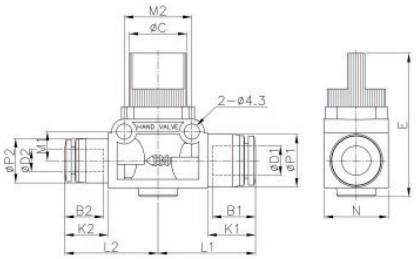


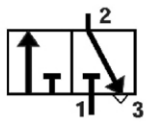
CODE	T1	T2	H1	H2	ØC	N	E	A1	A2	K1	K2	L1	L2	M1	M2	GR.
HVM01G01	G1/8″	G1/8″	14,0	14,0	16,3	18,0	40,3	5,0	5,0	18,6	18,6	32,6	32,6	8,2	19,0	47,0
HVM02G01	G1/4″	G1/8″	17,0	14,0	16,3	18,0	40,3	6,5	5,0	20,6	18,6	34,6	32,6	8,2	19,0	49,0
HVM02G02	G1/4″	G1/4″	17,0	17,0	16,3	18,0	40,3	6,5	6,5	20,6	20,6	34,6	34,6	8,2	19,0	50,0
HVM03G02	G3/8″	G1/4″	20,0	17,0	19,3	21,2	40,5	6,5	6,5	18,5	20,6	35,0	34,6	10,9	24,0	64,0
HVM03G03	G3/8″	G3/8″	20,0	20,0	19,3	21,2	40,5	6,5	6,5	18,5	18,5	35,0	35,0	10,9	24,0	83,0
HVM04G03	G1/2″	G3/8″	24,0	20,0	19,3	21,2	40,5	8,0	6,5	21,6	18,5	38,1	35,0	10,9	24,0	103,0
HVM04G04	G1/2″	G1/2″	24,0	24,0	19,3	21,2	40,5	8,0	8,0	21,6	21,6	38,1	38,1	10,9	24,0	121,0

HVU

Union hand valve tube-tube







CODE	ØD1	ØD2	ØP1	ØP2	ØC	N	E	B1	B2	K1	K2	L1	L2	M1	M2	GR.
HVU0606	6	6	12,5	12,5	16,3	18,0	40,3	16,4	16,4	12,3	12,3	26,3	26,3	8,2	19,0	27
HVU0806	8	6	14,8	12,5	16,3	18,0	40,3	18,7	16,4	13,9	12,3	27,9	26,3	8,2	19,0	27
HVU0808	8	8	14,8	14,8	16,3	18,0	40,3	18,7	18,7	13,9	13,9	27,9	27,9	8,2	19,0	28
HVU1008	10	8	17,5	14,8	19,3	21,2	40,5	20,1	18,7	14,4	13,9	30,9	27,9	10,9	24,0	41
HVU1010	10	10	17,5	17,5	19,3	21,2	40,5	20,1	20,1	14,4	14,4	30,9	30,9	10,9	24,0	42
HVU1210	12	10	20,5	17,5	19,3	21,2	40,5	22,8	20,1	17,6	14,4	34,1	30,9	10,9	24,0	45
HVU1212	12	12	20,5	20,5	19,3	21,2	40,5	22,8	22,8	17,6	17,6	34,1	34,1	10,9	24,0	47



-20°C ÷ 90°C

From 0 to 16 Bar

Water

Taper BSPT ISO 7 1/4"

Body & handle: POM/Acetal
O'Rings: NBR

ADVANTAGES
Low pressure drop, easy and quick to install, environment friendly and non-toxic. WRAS approved (cold water use only).

REACH Products in compliance with the directive 2002/95/EC

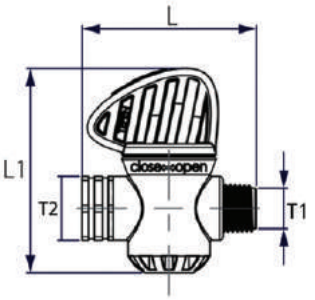
RoHS2 Products in compliance with the directive 2011/65/EU

WRAS Water Regulations Advisory Scheme

9020

Two way valve M/F BSPT with lever

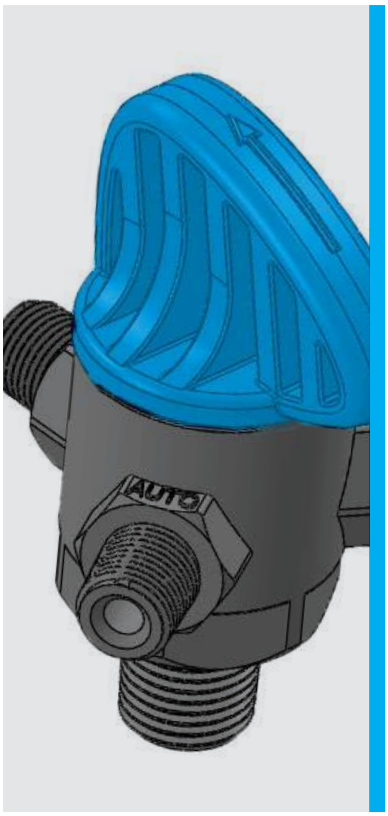




CODE	T1	T2	L	L1	GR.
9020TR14	R1/4"	R1/4"	51,2	57,6	70



The arrow on the handle indicates the direction of the flow.



-5°C ÷ 60°C

From 0 to 10 Bar

FLOW DROP
Approx. 12%

Water

Taper BSPT ISO 7
from R1/8" to R1/4""

Body: Polypropylene +30% GF
O'Rings: EPDM

ADVANTAGES
Capacity to handle a wide range of aggressive chemicals. Suitable for applications such as filtering system.

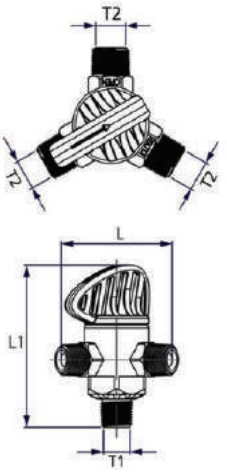
Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

9030

Three ways valve male BSPT





CODE	T1	T2	L	L1	GR.
9030TR18	R1/4"	R1/8"	49,7	68,3	70
9030TR14	R1/4"	R1/4"	52,0	68,3	70

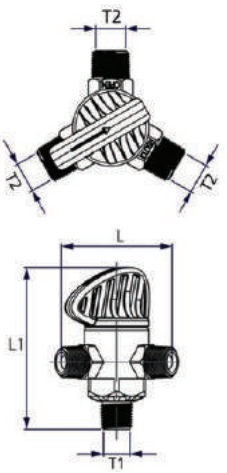


The arrow on the handle indicates the direction of the flow.

9031

Three ways valve male for tube 8/5.5

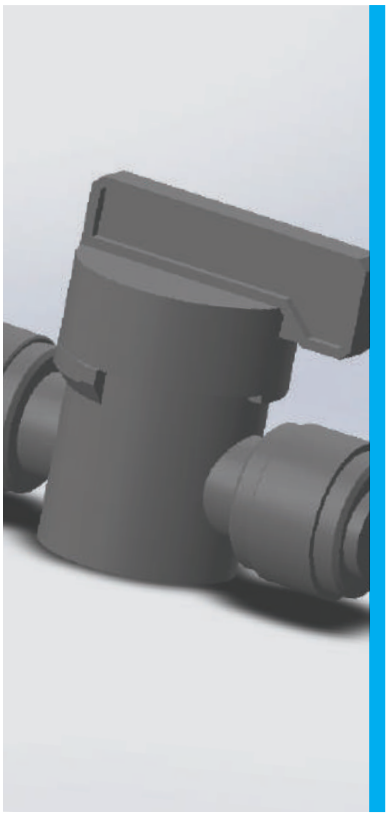




CODE	T1	T2	L	L1	GR.
9031TR8	R1/4"	8X5,5	51,7	58,8	70



The arrow on the handle indicates the direction of the flow.

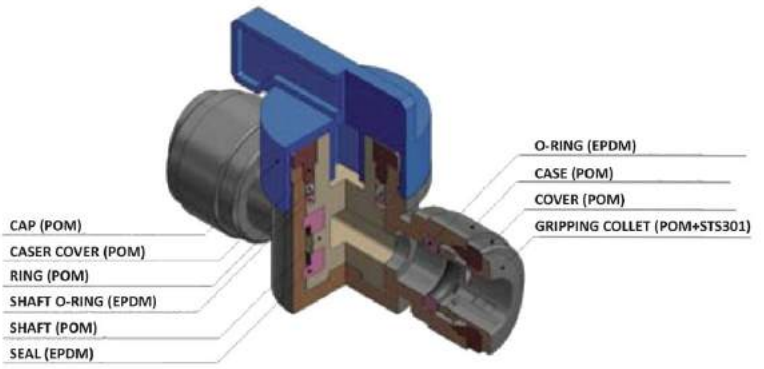


20 Bar

Negative pressure: -750mmHg
Depending from the tubes & temperatures applied.

Water, food, air, selected gases, vacuum and liquids suitable with construction materials.

Polyammide, polyurethane, polyethylene, Teflon tube PTFE, calibrated tube FEP. The hand valves must only be used in fully open or fully closed position.



Dry air: -20°C ÷ 98°C
Air & fluids: 1°C ÷ 98°C

Please be advised that NSF standards cover only the temperature range from 1°C to 70°C. System performances always depend from fittings, tubes and possible other items and accessories used. It is responsability of the users to cross check the technical features of each single component in order to avoid possible failures and damages.

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

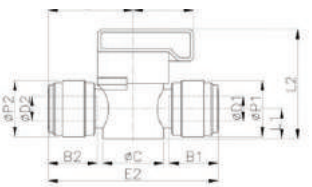
NSF51-NSF61

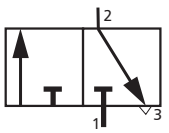
Body: POM
O'Ring: EPDM
Cover: POM
Gripping collet: POM+STS301
Cap: POM
Seal: EPDM
Shaft: POM
Shaft O'ring: EPDM

HBVU

2 ways metric hand valves







CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	GR.
HBVU0606B	6	6	16,1	16,1	15,5	15,5	9,5	34,5	51,7	19,2	16
HBVU0808B	8	8	17,5	17,5	17,6	17,6	9,5	34,5	53,5	19,2	17,4
HBVU1010B	10	10	20,1	20,1	20,0	20,0	12,5	42,3	63,0	24,2	29
HBVU1212B	12	12	23,7	23,7	23,0	23,0	12,5	42,3	70,4	24,2	35,4

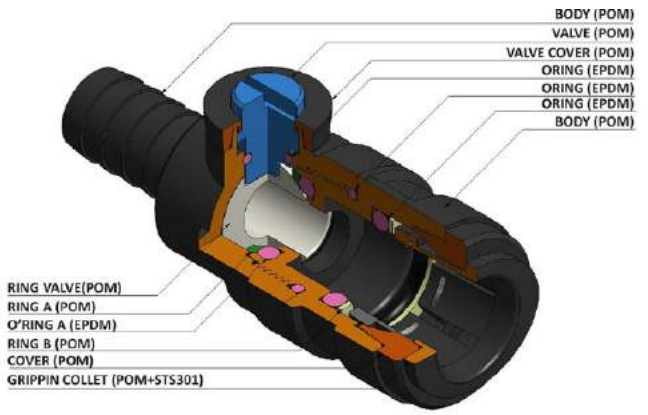


20 Bar

Negative pressure: -750mmHg
Depending from the tubes & temperatures applied.

Water, food, air, selected gases, vacuum and liquids suitable with construction materials.

Polyammide, polyurethane, polyethylene, Teflon tube PTFE, calibrated tube FEP. Specially designed for mounting with flexible tubes and allow to stop the flow in case of need.



Dry air: -20°C ÷ 98°C
Air & fluids: 1°C ÷ 98°C

Please be advised that NSF standards cover only the temperature range from 1°C to 70°C. System performances always depend from fittings, tubes and possible other items and accessories used. It is responsability of the users to cross check the technical features of each single component in order to avoid possible failures and damages.

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

NSF51-NSF61

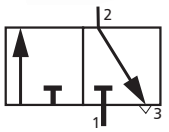
Body: POM
Valve: POM
Valve cover: POM
O'ring: EPDM
Cover: POM
Gripping collet: POM+STS301

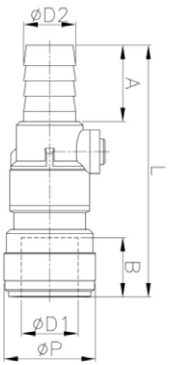
These valves are specially designed for mounting with flexible tubes and allow to stop the flow in case of need.

HCVB

Valved barb connector







CODE	ØD1	ØD2	ØP	L	A	B	GR.
HCVB15-1/2B	15	1/2	28,5	74,2	22,3	29,4	29,3
HCVB22-1/2B	22	1/2	35,7	87,3	22,3	33,8	38,9
HCVB22-3/4B	22	3/4	35,7	99,0	30,0	33,8	47,7

FUNCTION FITTINGS
STOP FITTINGS

PLUS

PERFECT FOR PERIODICAL PLANT MAINTENANCE

THEY IMPROVE THE SAFETY OF THE SYSTEM

COMPACT DIMENSIONS

THEY ISOLATE THE CIRCUIT WHEN THE TUBE IS DISCONNECTED



p. 148 / **SPC-R**



p. 148 / **SPC-G**



p. 148 / **SPL-R**



p. 149 / **SPL-G**



p. 149 / **SPU**

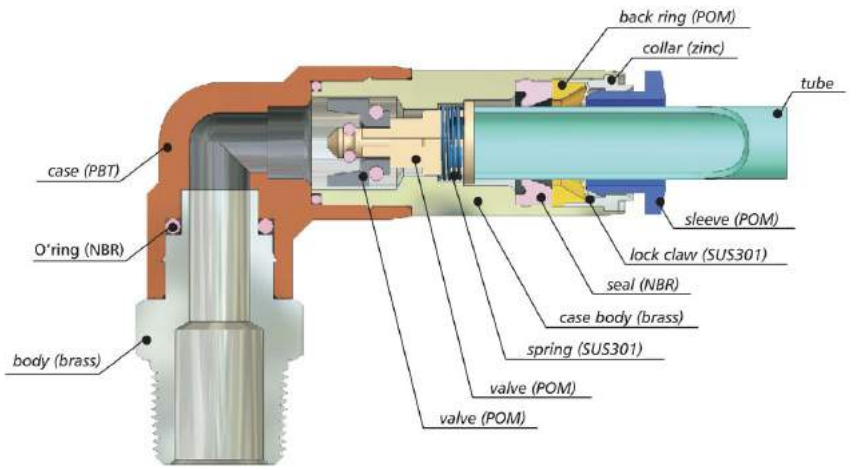


0°C ÷ 60°C
Negative pressure: -750mmHg

From 0 to 10 Bar

Compressed air

Taper gas BSPT ISO 7 from R1/8" to R1/2" Teflon coated.
Parallel gas BSPP ISO 228 with OR from G1/8" to G1/2"
Metric ISO 262 M5, M6



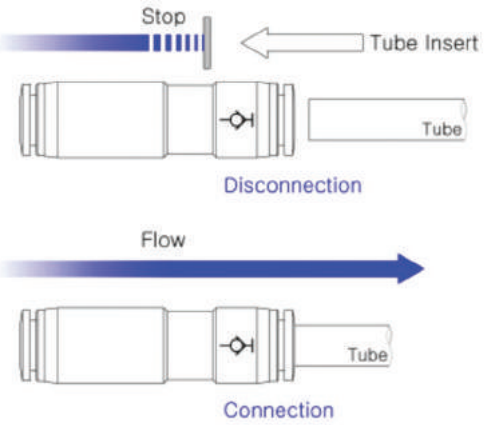
Polyammide, polyurethane

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

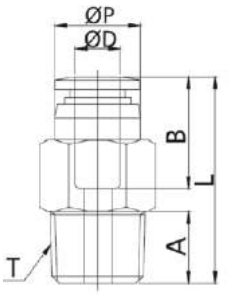


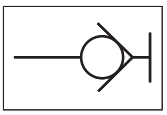
- Flow of air is completely stopped upon disconnecting the tube and reinstated upon reconnecting the tube.
- Dual-passage mechanism allows the pressure source to be originated from either side of the pneumatic connection.
- Ideal for pneumatic applications where tubing connections are frequently re-arranged.

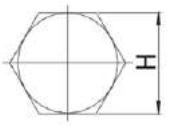
SPC-R

Male connector stop fitting BSPT thread







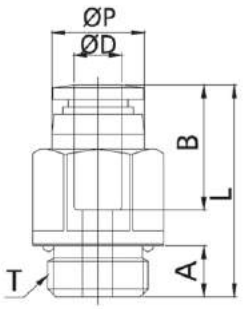


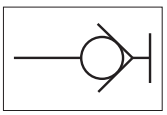
CODE	ØD	T	ØP	L	A	B	H	GR.
SPC04R01	4	R1/8"	10,0	26,1	8,0	14,7	10	10
SPC06R01	6	R1/8"	12,0	28,8	8,0	16,4	12	13
SPC06R02	6	R1/4"	12,0	28,8	10,0	16,4	14	20
SPC08R02	8	R1/4"	14,0	33,3	10,0	18,4	14	20
SPC08R03	8	R3/8"	14,0	33,3	11,0	18,4	17	36
SPC10R02	10	R1/4"	17,0	36,4	10,0	19,6	17	48
SPC10R03	10	R3/8"	17,0	37,6	11,0	19,6	17	36
SPC10R04	10	R1/2"	17,0	38,4	14,0	19,6	21	60
SPC12R02	12	R1/4"	19,0	44,8	10,0	21,9	19	48
SPC12R03	12	R3/8"	19,0	44,7	11,0	21,9	19	49
SPC12R04	12	R1/2"	19,0	44,7	14,0	21,9	21	64

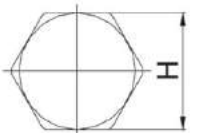
SPC-G

Male connector stop fitting BSPP thread







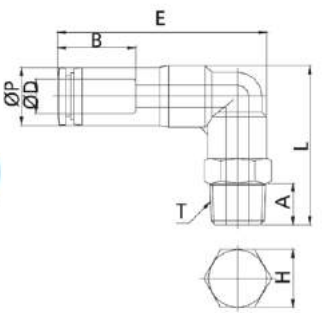


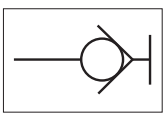
CODE	ØD	T	ØP	L	A	B	H	GR.
SPC04G01	4	G1/8"	10,3	25,5	5,0	14,7	12	10
SPC06G01	6	G1/8"	12,0	27,8	5,0	16,4	12	13
SPC06G02	6	G1/4"	12,0	27,3	6,5	16,4	15	20
SPC08G02	8	G1/4"	14,0	31,9	6,5	18,4	15	20
SPC08G03	8	G3/8"	14,0	31,9	6,5	18,4	17	36
SPC10G02	10	G1/4"	17,0	34,9	6,5	19,6	17	48
SPC10G03	10	G3/8"	17,0	36,4	6,5	19,6	17	36
SPC10G04	10	G1/2"	17,0	37,4	8,0	19,6	21	60
SPC12G02	12	G1/4"	19,0	43,3	6,5	21,9	19	48
SPC12G03	12	G3/8"	19,0	43,3	6,5	21,9	21	49
SPC12G04	12	G1/2"	19,0	43,8	8,0	21,9	21	64

SPL-R

Male elbow stop fitting BSPT thread





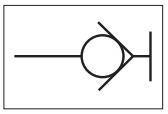


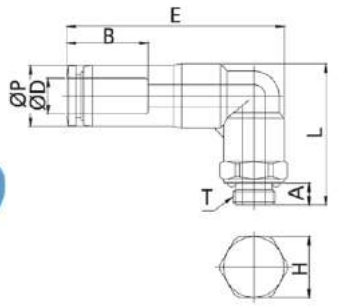
CODE	ØD	T	ØP	L	E	A	B	H	GR.
SPL04R01	4	R1/8"	10,0	26,9	34,5	8,0	14,7	10	15
SPL06R01	6	R1/8"	12,0	32,8	38,9	8,0	16,4	12	22
SPL06R02	6	R1/4"	12,0	35,8	38,9	10,0	16,4	14	27
SPL08R01	8	R1/8"	14,0	35,4	49,9	8,0	18,4	14	37
SPL08R02	8	R1/4"	14,0	38,4	49,9	10,0	18,4	14	38
SPL08R03	8	R3/8"	14,0	32,0	42,9	11,0	18,4	17	44
SPL10R02	10	R1/4"	17,0	40,3	57,5	10,0	19,6	17	57
SPL10R03	10	R3/8"	17,0	41,3	57,5	11,0	19,6	17	64
SPL10R04	10	R1/2"	17,0	44,3	57,5	14,0	19,6	21	80
SPL12R03	12	R3/8"	19,0	45,7	67,1	11,0	21,9	19	78
SPL12R04	12	R1/2"	19,0	48,7	67,1	14,0	21,9	21	91

SPL-G

Male elbow stop fitting BSPP & metric thread





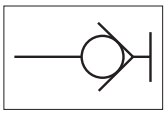


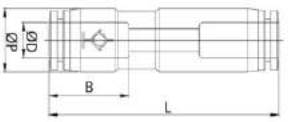
CODE	T	ØP	L	E	A	B	H	GR.
SPL04M5	4	M5X0,8P	10,0	25,8	34,5	4,6	14,7	10
SPL04M6	4	M6X1,0P	10,0	26,9	34,5	4,1	14,7	10
SPL04G01	4	G1/8"	10,0	26,8	34,5	5,0	14,7	14
SPL06M5	6	M5X0,8P	12,0	28,8	38,9	4,6	16,4	12
SPL06G01	6	G1/8"	12,0	29,8	38,9	5,0	16,4	14
SPL06G02	6	G1/4"	12,0	31,8	38,9	6,5	16,4	17
SPL08G02	8	G1/4"	14,0	34,4	49,9	6,5	18,6	17
SPL08G03	8	G3/8"	14,0	33,9	49,9	6,5	18,6	20
SPL10G02	10	G1/4"	17,0	36,3	55,0	6,5	19,6	17
SPL10G03	10	G3/8"	17,0	35,8	55,0	6,5	19,6	20
SPL10G04	10	G1/2"	17,0	37,3	55,0	8,0	19,6	24
SPL12G03	12	G3/8"	18,8	40,2	63,7	6,5	21,9	20
SPL12G04	12	G1/2"	18,0	41,7	63,7	8,0	21,9	24

SPU

Union connector stop fitting







CODE	ØD	ØP	L	B	GR.
SPU04	4	10,5	42,1	14,9	5
SPU06	6	12,5	46,0	16,4	8
SPU08	8	14,8	53,7	18,7	11
SPU10	10	17,5	58,2	20,1	19
SPU12	12	20,5	67,1	22,8	30



FUNCTION FITTINGS CHECK VALVES

PLUS

- DIFFERENT MATERIALS AVAILABLE TO BE USED IN MANY FIELDS
- DIFFERENT NON RETURNING SYSTEMS IN ORDER TO ENSURE THE BEST AVAILABLE SOLUTION
- SIGN OF THE FLOW DIRECTION
- MAXIMUM PASSAGE GUARANTEED
- ALSO AVAILABLE FOR FOOD FLUIDS AND DRINKING WATER CONTACT

CHECK VALVES FOR HIGH PERFORMANCE



p. 153 / **HCVU**

CDC PNEUMATICS CHECK VALVES



p. 155 / **CVPC-R**



p. 155 / **CVPC-R-IN**



p. 155 / **CVPC-G**



p. 156 / **CVPC-G IN**



p. 156 / **CVPU**



p. 156 / **CVPF-R**



p. 157 / **CVPF-R-IN**



p. 157 / **CVPF-G**



p. 157 / **CVPF-G-IN**



p. 157 / **CVFF**

NICKEL PLATED BRASS CHECK VALVES PN 10



p. 158 / **1700L**



p. 158 / **1701L**



p. 158 / **1701L-IN**

CHECK VALVES IN YELLOW BRASS PN16



p. 159 / **1705L**

CHECK VALVES IN YELLOW BRASS PN20



p. 160 / **1705**

CHECK VALVES IN INOX AISI 303 PN 20



p. 161 / **1710**

CHECK VALVES IN INOX AISI 316L PN 20



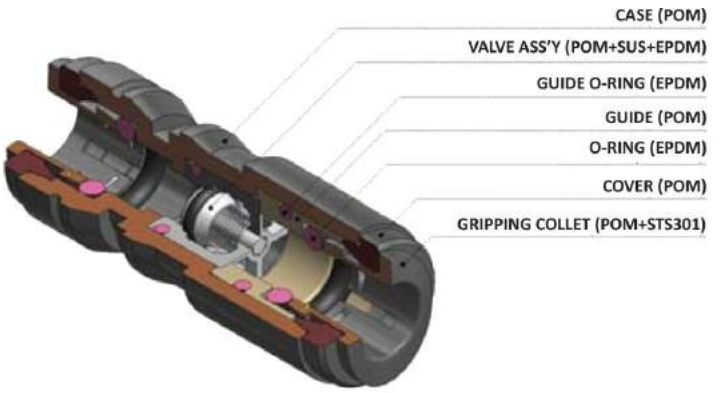
p. 162 / **1730**



20 Bar -750mmHg
Depending from the tubes & temperatures applied.
Opening pressure: 0,02 Bar

Water, food, air, selected gases, vacuum and liquids suitable with construction materials.

Polyammide, polyurethane, polyethylene, Teflon tube PTFE, calibrated tube FEP.



Dry air: -20°C ÷ 98°C
Air & fluids: 1°C ÷ 98°C

Please be advised that NSF standards cover only the temperature range from 1°C to 70°C. System performances always depend from fittings, tubes and possible other items and accessories used. It is responsability of the users to cross check the technical features of each single component in order to avoid possible failures and damages.

Products in compliance with the directive 2002/95/EC

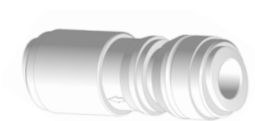
Products in compliance with the directive 2011/65/EU

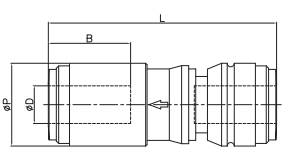
NSF51-NSF61

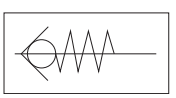
Body: POM
O'Ring: EPDM
Guide: POM
Valve: POM+AISI+EPDM
Case: POM
Gripping collet: POM+STS301

HCVU

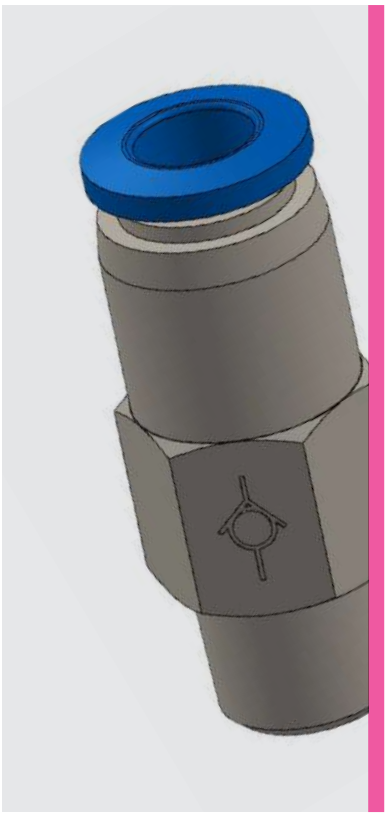
Metric check valves







CODE	ØD	ØP	L	B	GR.
HCVU0404W	4	13,2	44,4	14,7	6,1
HCVU0606W	6	15,5	45,5	16,1	7,4
HCVU0808W	8	17,6	48,6	17,5	10,0
HCVU1010W	10	20,0	57,6	19,4	14,5
HCVU1212W	12	23,6	67,5	23,9	22,1



0°C ÷ 60°C
Negative pressure: -750mmHg

From 0 to 10 Bar
Minimum opening pressure: 0,1 Bar

Compressed air

Taper gas BSPT ISO 7 from R1/8" to R1/2" Teflon coated
Parallel gas BSPP ISO 228 with OR from G1/8" to G1/2"
Metric ISO 262 M5, M6

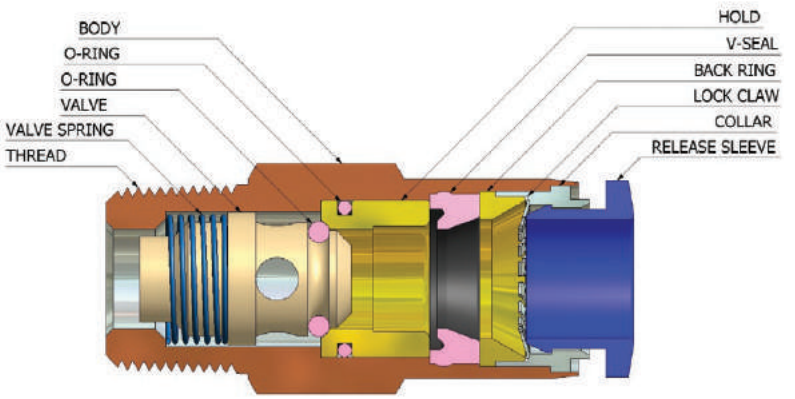
Polyammide, polyurethane

REACH

Products in compliance with the directive 2002/95/EC

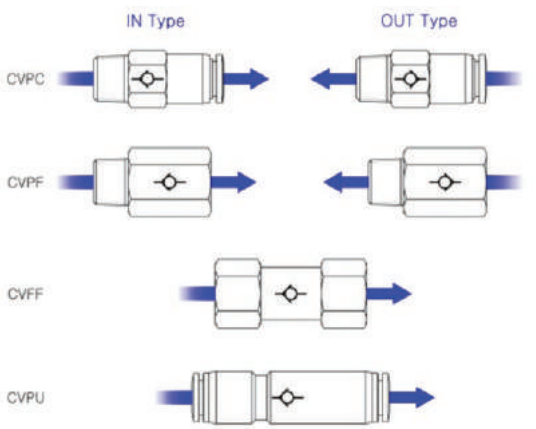
RoHS2

Products in compliance with the directive 2011/65/EU



Body: CVPF – brass nickel plated
CVPC – aluminum
CVPU - PBT from Ø4 to Ø8
Aluminum for Ø10 and Ø12
Lock claw: steel AISI 301
O'ring: NBR silicon free

CVFF
Body: brass, aluminum
O'ring: NBR silicon free

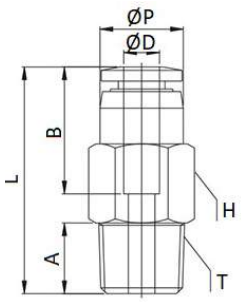


Stop fittings make easier all the ordinary repairs. They block the air flow when the tube is released. When the tube is connected the air flows again in two ways.

CVPC-R

Male connector check valve BSPT thread - OUT



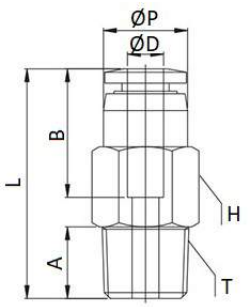


CODE	ØD	ØP	T	L	A	B	H	GR.
CVPC04R01	4	10,0	R1/8"	27,3	8,0	14,8	10	11,0
CVPC06R01	6	11,9	R1/8"	32,5	8,0	16,4	12	16,0
CVPC06R02	6	11,9	R1/4"	32,5	10,0	16,4	14	24,0
CVPC08R01	8	14,0	R1/8"	34,9	8,0	18,4	14	21,0
CVPC08R02	8	14,0	R1/4"	37,2	10,0	18,4	14	24,0
CVPC10R03	10	23,0	R3/8"	56,3	11,0	20,2	22	35,0
CVPC10R04	10	23,0	R1/2"	58,3	14,0	20,2	22	41,0
CVPC12R03	12	25,0	R3/8"	62,2	11,0	22,9	24	40,0
CVPC12R04	12	25,0	R1/2"	65,2	14,0	22,9	24	40,0

CVPC-R-IN

Male connector check valve BSPT thread - IN



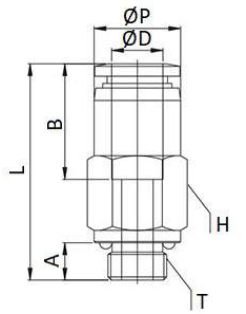


CODE	ØD	T	ØP	L	A	B	H	GR.
CVPC04R01-IN	4	R1/8"	10,0	27,3	8,0	15,3	10	9,8
CVPC06R01-IN	6	R1/8"	11,9	32,6	8,0	16,3	12	12,8
CVPC06R02-IN	6	R1/4"	11,9	32,6	10,0	16,3	14	19,8
CVPC08R01-IN	8	R1/8"	14,0	34,9	8,0	18,3	14	18,7
CVPC08R02-IN	8	R1/4"	14,0	37,2	10,0	18,3	14	20,7
CVPC10R03-IN	10	R3/8"	23,0	56,3	11,0	20,3	22	45,5
CVPC10R04-IN	10	R1/2"	23,0	58,3	14,0	20,3	22	63,5
CVPC12R03-IN	12	R3/8"	25,0	62,3	12,0	23,3	24	48,3
CVPC12R04-IN	12	R1/2"	25,0	65,3	14,0	23,3	24	68,3

CVPC-G

Male connector check valve BSPP & metric thread - OUT



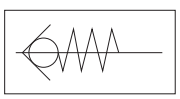


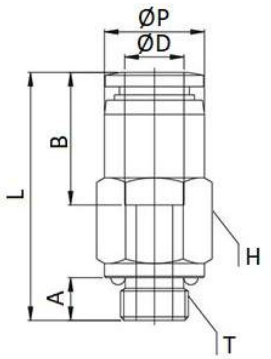
CODE	ØD	T	ØP	L	A	B	H	GR.
CVPC04M5	4	M5X0,8P	10,0	31,4	3,6	15,3	10	11,8
CVPC04M6	4	M6X1,0P	10,0	30,4	4,6	15,3	10	11,8
CVPC04G01	4	G1/8"	10,0	26,3	5,0	15,3	10	11,8
CVPC06G01	6	G1/8"	11,9	31,6	5,0	17,0	12	15,8
CVPC06G02	6	G1/4"	11,9	32,1	6,5	17,0	15	25,8
CVPC08G01	8	G1/8"	14,0	33,8	5,0	18,6	14	16,7
CVPC08G02	8	G1/4"	14,0	36,7	6,5	18,6	15	25,7
CVPC10G03	10	G3/8"	23,0	52,5	6,5	20,3	22	33,5
CVPC10G04	10	G1/2"	23,0	54,3	8,0	20,3	24	39,5
CVPC12G03	12	G3/8"	25,0	57,5	6,5	23,3	24	41,3
CVPC12G04	12	G1/2"	25,0	59,3	8,0	23,3	24	44,3

CVPC-G-IN

Male connector check valve BSPP & metric thread - IN





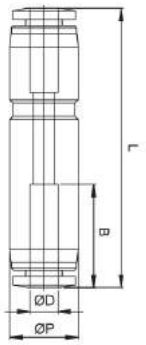


CODE	ØD	T	ØP	L	A	B	H	GR.
CVPC04M5-IN	4	M5X0,8P	10,0	31,4	3,6	15,3	10	11,8
CVPC04M6-IN	4	M6X1,0P	10,0	30,4	4,6	15,3	10	11,8
CVPC04G01-IN	4	G1/8"	10,0	26,3	5,0	15,3	10	11,8
CVPC06G01-IN	6	G1/8"	11,9	31,6	5,0	17,0	12	15,8
CVPC06G02-IN	6	G1/4"	11,9	32,1	6,5	17,0	15	25,8
CVPC08G01-IN	8	G1/8"	14,0	33,8	5,0	18,6	14	16,7
CVPC08G02-IN	8	G1/4"	14,0	36,7	6,5	18,6	15	25,7
CVPC10G03-IN	10	G3/8"	23,0	52,5	6,5	20,3	22	33,5
CVPC10G04-IN	10	G1/2"	23,0	54,3	8,0	20,3	24	39,5
CVPC12G03-IN	12	G3/8"	25,0	57,5	6,5	23,3	24	41,3
CVPC12G04-IN	12	G1/2"	25,0	59,3	8,0	23,3	24	44,3

CVPU

Union connector check valve





CODE	ØD	ØP	L	B	GR.
CVPU04	4	10,5	42,3	15,7	5,6
CVPU06	6	12,5	47,5	17,0	8,4
CVPU08	8	14,8	56,4	19,1	13,4

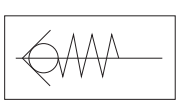
Union connector check valve

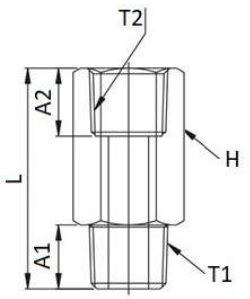
CODE	ØD	ØP	L	B	GR.
CVPU10	10	23,0	65,2	20,3	16,4
CVPU12	12	25,0	73,0	23,3	31,2

CVPF-R

Female connector check valve BSPT thread - OUT





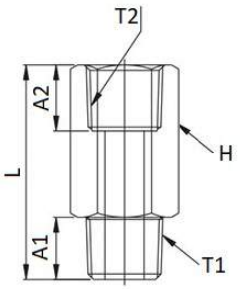


CODE	T1	T2	L	A1	A2	H	GR.
CVPF01R01	R1/8"	R1/8"	28,1	8	8	12	16
CVPF02R02	R1/4"	R1/4"	34,1	11	11	17	39
CVPF03R03	R3/8"	R3/8"	53,8	12	12	22	107
CVPF04R04	R1/2"	R1/2"	61,0	14	14	24	130

CVPF-R-IN

Female connector check valve BSPT thread - IN

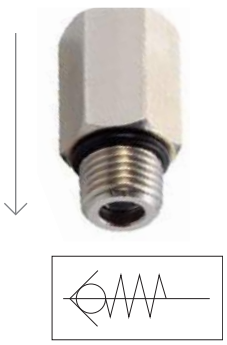


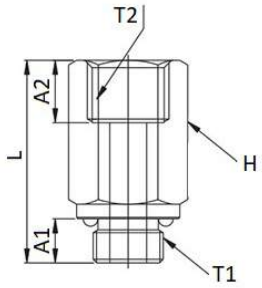


CODE	T1	T2	L	A1	A2	H	GR.
CVPF01R01-IN	R1/8"	R1/8"	28,1	8	8	12	16
CVPF02R02-IN	R1/4"	R1/4"	34,1	11	11	17	39
CVPF03R03-IN	R3/8"	R3/8"	53,8	12	12	22	107
CVPF04R04-IN	R1/2"	R1/2"	61,0	14	14	24	130

CVPF-G

Female conector check valve BSPP thread - OUT



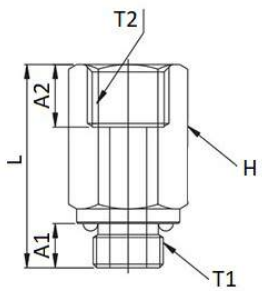


CODE	T1	T2	L	A1	A2	H	GR.
CVPF01G01	G1/8"	G1/8"	26,6	5,0	8	14	24
CVPF02G02	G1/4"	G1/4"	33,1	6,5	11	17	40
CVPF03G03	G3/8"	G3/8"	49,0	6,5	11	22	102
CVPF04G04	G1/2"	G1/2"	55,7	8,0	14	24	121

CVPF-G-IN

Female connector check valve BSPP thread - IN



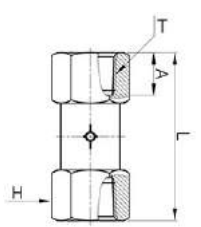


CODE	T1	T2	L	A1	A2	H	GR.
CVPF01G01-IN	G1/8"	G1/8"	26,6	5,0	8	14	24
CVPF02G02-IN	G1/4"	G1/4"	33,1	6,5	11	17	40
CVPF03G03-IN	G3/8"	G3/8"	49,0	6,5	11	22	102
CVPF04G04-IN	G1/2"	G1/2"	55,7	8,0	14	24	121

CVFF

Check valve metal back





CODE	T	L	A	H	GR.
CVFF-R01	R1/8"	35,6	9,0	12	20,0
CVFF-R02	R1/4"	43,3	11,0	17	49,2
CVFF-R03	R3/8"	53,2	12,0	22	93,9
CVFF-R04	R1/2"	60,5	14,0	24	113,7



NBR: -5°C ÷ 70°C
EPDM: -40°C ÷ 140°C

From 0,5 to 10 Bar
Minimum open pressure: 0.025 Bar
Maximum open pressure: 0.07 Bar

Compressed air and fluids compatible with construction materials.

Parallel BSPP UNI ISO 228/1 from G1/8" to G1/2"
Metric ISO 262 M5

One way fluids flow.
Indication of the fluid direction engraved on the body.

Body: brass nickel plated
Shutter with ball: AISI 304
Spring: AISI 302
O'ring: NBR 70

ADVANTAGES
Realized with sphere stopper which guarantees the advantage to eliminate the friction of the components and, at the same time, to increase the lifetime.

REACH

Products in compliance with the directive 2002/95/EC

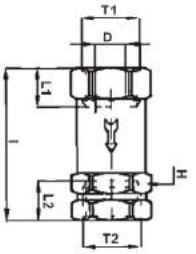
RoHS2

Products in compliance with the directive 2011/65/EU

1700L

F/F check valve with ball BSPP & metric thread nickel brass PN 10



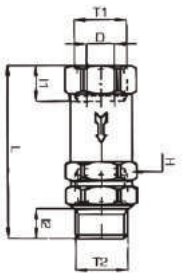


CODE	T1	T2	D	L1	L2	I	H	GR.
1700TRM5L	M5	M5	2,8	6,0	6,0	24	10	13
1700TR18L	G1/8"	G1/8"	5,0	8,0	8,0	31	13	28
1700TR14L	G1/4"	G1/4"	7,0	9,5	9,5	37	16	35
1700TR38L	G3/8"	G3/8"	8,5	10,5	10,5	42	20	59
1700TR12L	G1/2"	G1/2"	10,0	12,0	12,0	50	25	78

1701L

F/M check valve with ball BSPP thread brass nickel plated PN 10 - OUT



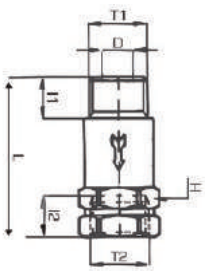


CODE	T1	T2	D	l1	l2	L	H	GR.
1701TR18L	G1/8"	G1/8"	5,0	8,0	8,0	39	13	31
1701TR14L	G1/4"	G1/4"	7,0	9,5	9,5	46	16	38

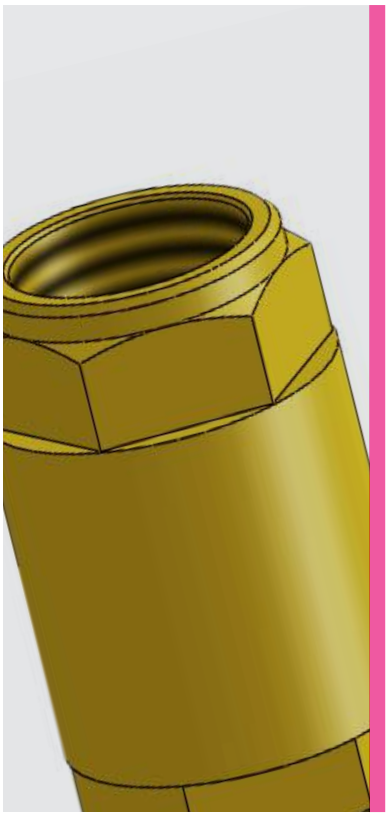
1701L-IN

M/F check valve with ball BSPP thread brass nickel plated PN 10 - IN





CODE	T1	T2	D	l1	l2	L	H	GR.
1701TR18L-IN	G1/8"	G1/8"	5,0	7,0	8,0	30	13	30
1701TR14L-IN	G1/4"	G1/4"	7,0	8,0	9,5	35	16	36



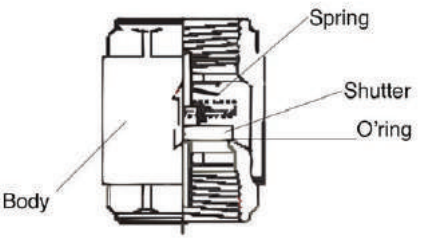
0°C ÷ 90°C

From G3/8" to G1": 16 Bar
From G1-1/4" to G2": 10 Bar
From G2-1/2" to G4": 8 Bar

Air, neutral gases and water

Parallel BSPP UNI ISO 228/1
from G3/8" to G4"

One way fluids flow.
Indication of the fluid direction engraved on the body.



Available on demand stainless steel shutter

Body: yellow brass
Shutter: acetal copolymer
Spring: AISI 302
O'ring: NBR

REACH

Products in compliance with the directive 2002/95/EC

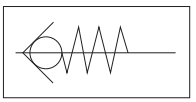
RoHS2

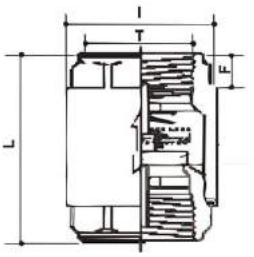
Products in compliance with the directive 2011/65/EU

1705L

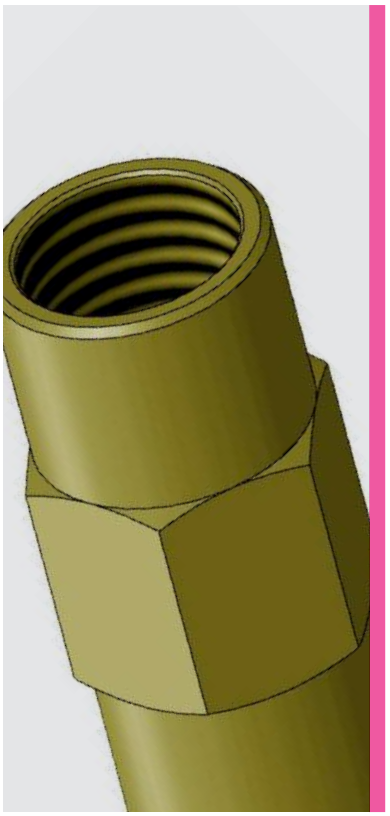
Check valve BSPP thread in yellow brass







CODE	T	F	I	L	GR.
1705TR38L	G3/8"	12	29	46	35
1705TR12L	G1/2"	12	30	48	110
1705TR34L	G3/4"	14	37	53	150
1705TR1L	G1"	15	44	59	240
1705TR114L	G1"-1/4"	14	56	66	360
1705TR112L	G1"-1/2"	15	63	71	480
1705TR2L	G2"	14	78	80	700
1705TR212L	G1"-1/2"	16	103	93	380
1705TR3L	G3"	18	120	104	850
1705TR4L	G4"	20	155	119	1050



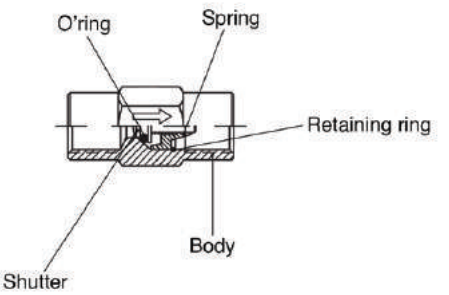
NBR: from -20°C to 100°C
VITON: from -20°C to 205°C
EPDM: from -40°C to 130°C

20 Bar

Compressed air, water, gases, not aggressive mineral or synthetic oils in uncorrosive environments and fluids compatible with construction materials

Parallel BSPP UNI ISO 228/1 from G1/8" to G1"

One way fluids flow.
Indication of the fluid direction engraved on the body.



Body: yellow brass OT 58
Shutter: yellow brass OT 58
Spring: AISI 302
O'ring: NBR
Retaining ring: AISI 302

ADVANTAGES

- Available with VITON or EPDM o'rings.
- On demand available different springs for different opening pressures.
- Available to be supplied degreased.
- Available on demand also for NPT thread.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

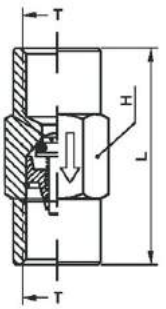
MINIMUM OPEN PRESSURE

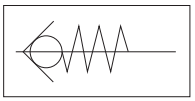
1/8	1/4	3/8	1/2	3/4	1
0.35	0.30	0.25	0.08	0.10	0.80

1705

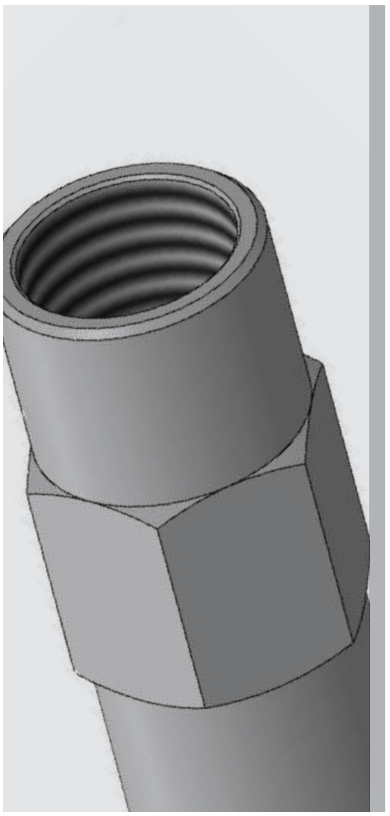
Check valve BSPP thread in yellow brass







CODE	T	L	H	GR.
1705TR18	G1/8"	40,0	17	52,0
1705TR14	G1/4"	41,0	17	45,0
1705TR38	G3/8"	47,0	22	90,0
1705TR12	G1/2"	56,0	27	153,0
1705TR34	G3/4"	66,5	34	285,0
1705TR1	G1"	79,0	40	388,0



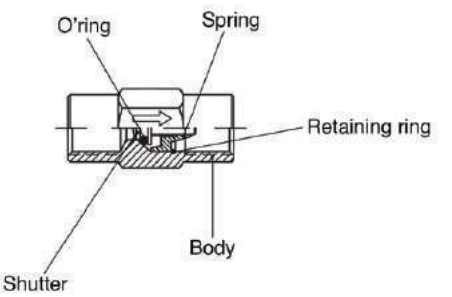
VITON: from -20°C to 205°C
EPDM: from -40°C to 130°C

20 Bar

Compressed air, water, gases and weak acids in corrosive environments and fluids compatible with construction materials.

Parallel BSPP UNI ISO 228/1 from G1/8" to G1"

One way fluids flow.
Indication of the fluid direction engraved on the body.



Body: stainless steel AISI 303
Shutter: stainless steel AISI 303
Spring: stainless steel AISI 302
O'ring: VITON
Retaining ring: stainless steel AISI 302

ADVANTAGES

- Available with VITON or EPDM o'rings.
- On demand available different springs for different opening pressures.
- Available to be supplied degreased.
- Available on demand also for NPT thread

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

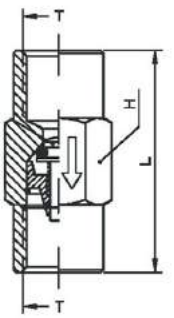
MINIMUM OPEN PRESSURE

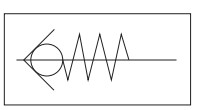
1/8	1/4	3/8	1/2	3/4	1
0.35	0.30	0.25	0.08	0.10	0.80

1710

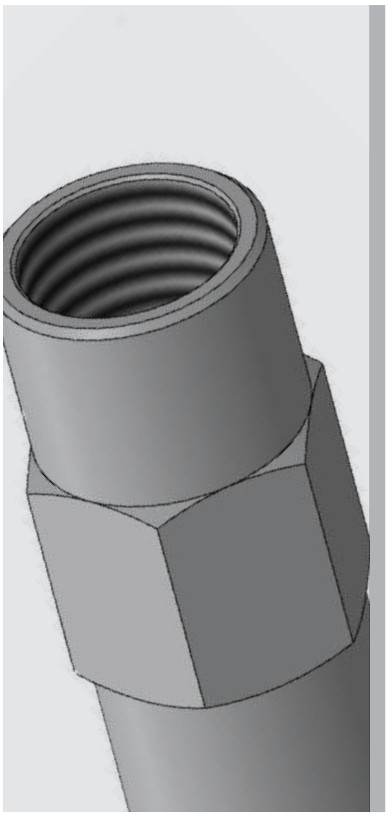
Check valve BSPP thread Inox AISI 303







CODE	T	L	H	GR.
1710TR18	G1/8"	40,0	17	48,0
1710TR14	G1/4"	41,0	17	43,0
1710TR38	G3/8"	47,0	22	82,0
1710TR12	G1/2"	56,0	27	143,0
1710TR34	G3/4"	66,5	36	325,0
1710TR1	G1"	79,0	41	388,0



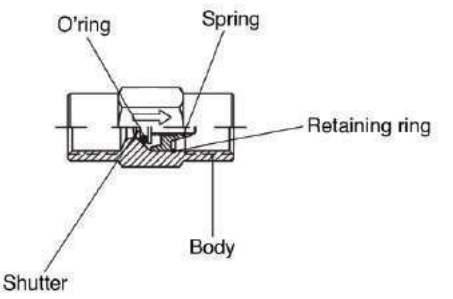
VITON: from -20°C to 205°C
EPDM: from -40°C to 130°C

20 Bar

Pneumatic applications in corrosive environments in contact with water, gases and weak acids suitable for food industry, chemical industry, medical application, laboratories of analysis, desalinization plants and boats.

Parallel BSPP UNI ISO 228/1 from G1/8" to G1"

One way fluids flow.
Indication of the fluid direction engraved on the body.



Body: stainless steel AISI 316L
Shutter: stainless steel AISI 316L
Spring: stainless steel AISI 302
O'ring: VITON
Retaining ring: stainless steel AISI 302

ADVANTAGES

- Available with EPDM o'rings.
- On demand available different springs for different opening pressures.
- Available to be supplied degreased.
- Available on demand also for NPT thread

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

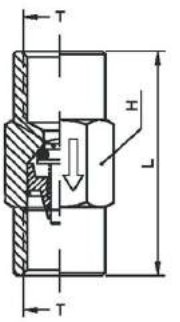
MINIMUM OPEN PRESSURE

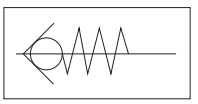
1/8	1/4	3/8	1/2	3/4	1
0.35	0.30	0.25	0.08	0.10	0.80

1730

Check valve BSPP thread Inox AISI 316L







CODE	T	L	H	GR.
1730TR18	G1/8"	40,0	17	48
1730TR14	G1/4"	41,0	17	43
1730TR38	G3/8"	47,0	22	84
1730TR12	G1/2"	56,0	27	143
1730TR34	G3/4"	66,5	36	330
1730TR1	G1"	79,0	41	388

PUSH-ON FITTINGS



TECHNICAL INDEX



P. 165 /
ACETAL RESIN
PUSH-ON FITTINGS



P. 169 /
BRASS
PUSH-ON FITTINGS



P. 183 /
POLYPROPYLENE
PUSH-ON FITTINGS



P. 191 /
PVDF
PUSH-ON FITTINGS



P. 199 /
PUSH-ON FITTINGS
INOX AISI 316L

PUSH-ON FITTINGS
ACETAL RESIN

PLUS

GREAT GRIPPING SYSTEM WITH THE LOCKING NUT

STUDIED FOR COMPRESSED AIR AND VACUUM

EASY TO BE USED AND EXTREMELY STRONG



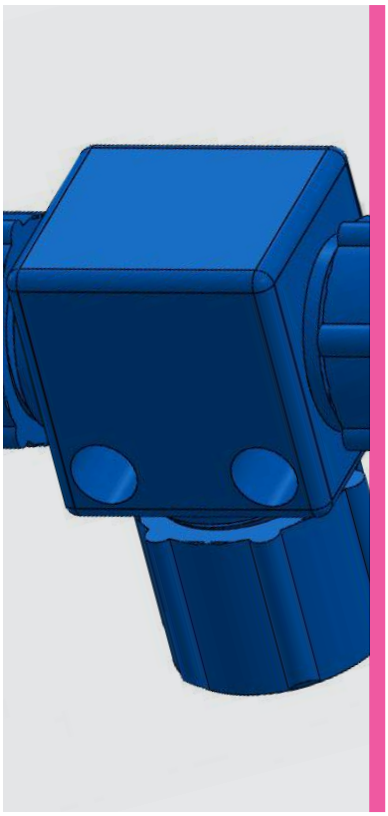
p. 168 / **CK**



p. 168 / **GCK**



p. 168 / **FCK**



0°C ÷ 60°C

Working pressure: 10 Bar
Negative pressure: -750mmHg

Compressed air & vacuum

Taper gas BSPT ISO 7
from R1/8" to R1/2"

Polyurethane

Acetal resin

REACH

Products in compliance with
the directive 2002/95/EC

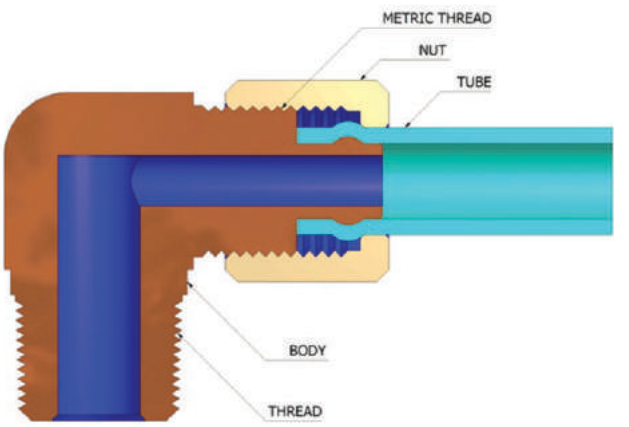
RoHS2

Products in compliance with
the directive 2011/65/EU

PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube
- Do not use in water applications

CONSTRUCTION MATERIALS



PUES

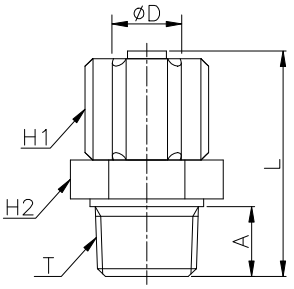


SIZE								
4X2,5	PUES0425AZ	PUES0425NE	PUES0425RO	PUES0425GL	PUES0425VD	PUES0425TR	PUES0425AZTR	PUES0425SL
6X4	PUES0604AZ	PUES0604NE	PUES0604RO	PUES0604GL	PUES0604VD	PUES0604TR	PUES0604AZTR	PUES0604SL
8X5,5	PUES0855AZ	PUES0855NE	PUES0855RO	PUES0855GL	PUES0855VD	PUES0855TR	PUES0855AZTR	PUES0855SL
10X6,5	PUES1065AZ	-	-	PUES1065GL	-	-	-	-
12X8	PUES1208AZ	PUES1208NE	-	PUES1208GL	-	-	-	-

CK

Male connector BSPT thread



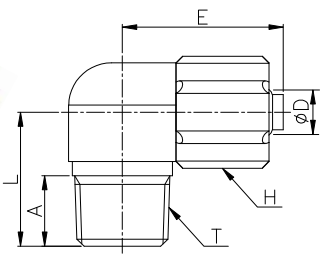


CODE	ØD	T	L	A	H1	H2	GR.
CK04R01	4/2,5	R1/8"	24,5	8,0	10	12	2,0
CK06R01	6/4	R1/8"	28,5	7,0	12	13	3,0
CK06R02	6/4	R1/4"	30,5	9,0	12	15	4,0
CK08R01	8/5,5	R1/8"	30,0	9,0	14	14	5,0
CK08R02	8/5,5	R1/4"	29,0	9,0	14	17	5,0
CK08R03	8/5,5	R3/8"	31,7	10,2	14	19	6,0
CK10R02	10/6,5	R1/4"	33,4	9,2	17	17	7,0
CK10R03	10/6,5	R3/8"	34,9	10,2	17	19	7,0
CK12R02	12/8	R1/4"	39,0	9,2	19	17	9,0
CK12R03	12/8	R3/8"	41,2	10,2	19	19	9,0
CK12R04	12/8	R1/2"	45,0	15,0	19	22	13,0

GCK

Male elbow BSPT thread



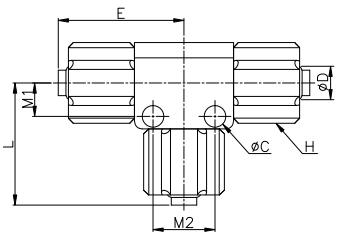


CODE	ØD	T	L	E	A	H	GR.
GCK04R01	4/2,5	R1/8"	16,5	16,0	8,0	12	3,0
GCK06R01	6/4	R1/8"	18,0	21,5	8,5	12	5,0
GCK06R02	6/4	R1/4"	18,7	23,5	9,0	12	7,0
GCK08R01	8/5,5	R1/8"	17,0	21,0	8,0	14	6,0
GCK08R02	8/5,5	R1/4"	19,0	22,5	10,0	14	8,0
GCK08R03	8/5,5	R3/8"	20,5	23,8	10,2	14	10,0
GCK10R02	10/6,5	R1/4"	22,0	24,1	12,0	17	10,0
GCK10R03	10/6,5	R3/8"	23,0	27,1	12,0	17	12,0
GCK12R02	12/8	R1/4"	23,0	32,2	11,0	19	14,0
GCK12R03	12/8	R3/8"	25,0	32,2	12,0	19	16,0
GCK12R04	12/8	R1/2"	28,0	34,0	15,0	19	19,0

FCK

Union Tee





CODE	ØD	L	E	ØC	M1	M2	H	GR.
FCK0400	4/2,5	19,0	18,0	2,5	5,7	9,5	10	4,0
FCK0600	6/4	24,3	24,2	4,3	5,7	11,2	12	11,0
FCK0800	8/5,5	24,1	24,8	4,3	6,6	12,2	14	14,0
FCK1000	10/6,5	30,0	27,0	4,3	8,3	13,4	17	24,0
FCK1200	12/8	36,9	34,0	4,3	9,3	13,7	19	26,0

PUSH-ON FITTINGS BRASS

PLUS

- GREAT GRIPPING SYSTEM WITH THE LOCKING NUT
- SUITABLE FOR DIFFERENT FLUIDS
- EASY TO BE USED AND EXTREMELY STRONG
- MECHANICAL RESISTANCE



p. 171 / **2500**



p. 172 / **2502**



p. 172 / **2503**



p. 173 / **2505**



p. 173 / **2510**



p. 174 / **2511**



p. 174 / **2512**



p. 174 / **2513**



p. 175 / **2515**



p. 175 / **2520**



p. 175 / **2530**



p. 175 / **2535**



p. 176 / **2540**



p. 176 / **2542**



p. 176 / **2543**



p. 177 / **2548**



p. 177 / **2550**



p. 177 / **2553**



p. 178 / **2555**



p. 178 / **2560**



p. 179 / **2565**



p. 179 / **2570**



p. 179 / **2575**



p. 179 / **2580**



p. 180 / **251V**



p. 180 / **252V**



p. 180 / **2585**



p. 180 / **2595**



p. 181 / **2630**



p. 181 / **2610**

p. 181 / **2612**



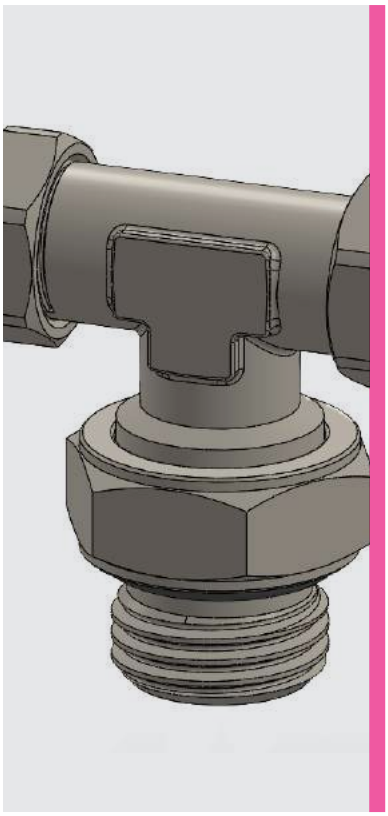
p. 182 / **2615**



p. 182 / **2620**



p. 182 / **2625**



-20°C ÷ 100°C with o-ring in NBR
-15°C ÷+200°C with o-ring in viton
The working temperature depends on the features of the selected tube.

18 Bar
The working pressure depends on the features of the selected tube

Compressed air, water, oil and fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO R/262 M5, M6, M12

Polyurethane, Polyethylene, Polyamide, PTFE, FEP

Body: Nickel plated brass
UNI EN 12164 CW 614N AND
UNI EN12165 CW 617N
Lock nut: UNI EN 12164 CW 614N AND
O'Ring: NBR

- Available on demand and with minimum quantity in yellow brass.
- Available on demand O-Ring in Viton

REACH

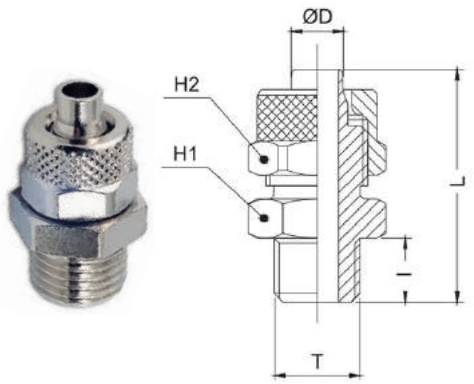
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

2500

Male connector BSPP thread

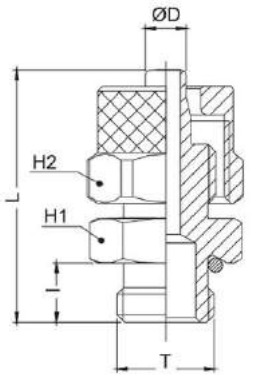


CODE	T	ØD	I	L	H1	H2	GR.
2500TR1853	G1/8"	5/3	6	23,0	14	8	10,0
2500TR1864	G1/8"	6/4	6	25,5	14	12	16,0
2500TR1464	G1/4"	6/4	8	28,0	17	12	24,0
2500TR3864	G3/8"	6/4	9	29,0	19	12	28,0
2500TR1886	G1/8"	8/6	6	25,5	14	14	18,0
2500TR1486	G1/4"	8/6	8	28,0	17	14	26,0
2500TR3886	G3/8"	8/6	9	29,0	19	14	28,0
2500TR18108	G1/8"	10/8	6	27,0	14	16	24,0
2500TR14108	G1/4"	10/8	8	29,5	17	16	30,0
2500TR38108	G3/8"	10/8	9	30,5	19	16	34,0
2500TR12108	G1/2"	10/8	10	32,0	24	16	44,0
2500TR381210	G3/8"	12/10	9	32,0	19	18	38,0
2500TR121210	G1/2"	12/10	10	33,5	24	18	48,0
2500TR1215125	G1/2"	15/12,5	10	35,5	24	22	60,0

2502

Male connector BSPP thread with OR



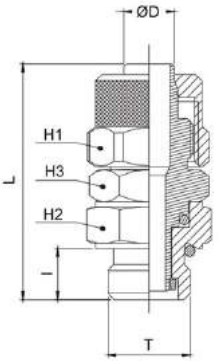


CODE	T	ØD	I	L	H1	H2	GR.
2502TR18427	G1/8"	4/2,7	6	21,8	13	8	10,0
2502TR1853	G1/8"	5/3	6	23,0	15	8	11,0
2502TR1864	G1/8"	6/4	6	25,5	13	12	16,0
2502TR1464	G1/4"	6/4	8	28,0	16	12	21,0
2502TR3864	G3/8"	6/4	9	29,0	19	12	26,0
2502TR1264	G1/2"	6/4	10	30,5	24	12	45,0
2502TR1886	G1/8"	8/6	6	25,5	14	14	18,0
2502TR1486	G1/4"	8/6	8	28,0	16	14	22,0
2502TR3886	G3/8"	8/6	9	29,0	19	14	31,0
2502TR1286	G1/2"	8/6	10	30,5	24	14	38,0
2502TR18108	G1/8"	10/8	6	27,5	14	16	24,0
2502TR14108	G1/4"	10/8	8	29,5	16	16	28,0
2502TR38108	G3/8"	10/8	9	30,5	19	16	32,0
2502TR12108	G1/2"	10/8	10	32,0	24	16	51,0
2502TR381210	G3/8"	12/10	9	32,0	19	18	36,0
2502TR121210	G1/2"	12/10	10	33,5	24	18	46,0
2502TR1215125	G1/2"	15/12,5	10	35,5	24	22	52,0

2503

Swivel male connector BSPP thread with OR



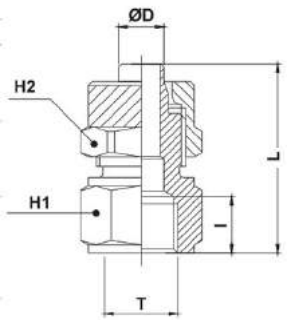


CODE	T	ØD	I	L	H1	H2	H3	GR.
2503TR1864	G1/8"	6/4	6	36,0	12	13	12	24,0
2503TR1464	G1/4"	6/4	8	37,5	12	16	14	30,0
2503TR1885	G1/8"	8/5	6	36,0	14	12	13	0,026
2503TR1485	G1/4"	8/5	8	37,5	14	14	16	0,032
2503TR1886	G1/8"	8/6	6	36,0	14	13	12	26,0
2503TR1486	G1/4"	8/6	8	37,5	14	16	14	32,0
2503TR141065	G1/4"	10/6,5	8	39	16	14	16	0,038
2503TR14108	G1/4"	10/8	8	39,0	16	16	14	38,0
2503TR38128	G3/8"	12/8	9	42	18	17	19	0,05
2503TR381210	G3/8"	12/10	9	42,0	18	19	17	52,0

2505

Female connector BSPP thread



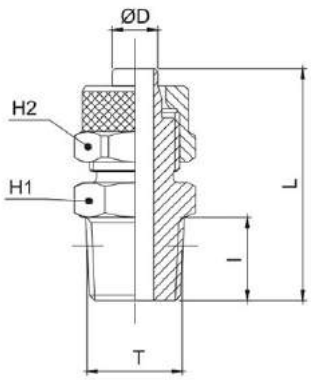


CODE	T	ØD	I	L	H1	H2	GR.
2505TR18427	G1/8"	4/2,7	8,0	21,3	14	8	11,0
2505TR1853	G1/8"	5/3	8,0	22,5	14	8	12,0
2505TR1864	G1/8"	6/4	8,0	25,0	14	12	18,0
2505TR1464	G1/4"	6/4	11,0	29,0	17	12	26,0
2505TR3864	G3/8"	6/4	11,5	29,5	20	12	30,0
2505TR1886	G1/8"	8/6	8,0	25,0	14	14	20,0
2505TR1486	G1/4"	8/6	11,0	29,0	17	14	28,0
2505TR3886	G3/8"	8/6	11,5	29,5	20	14	32,0
2505TR1286	G1/2"	8/6	14	33	24	14	32,0
2505TR18108	G1/8"	10/8	8,0	26,5	14	16	24,0
2505TR14108	G1/4"	10/8	11,0	30,5	17	16	32,0
2505TR38108	G3/8"	10/8	11,5	31,0	20	16	36,0
2505TR12108	G1/2"	10/8	14,0	34,5	24	16	50,0
2505TR381210	G3/8"	12/10	11,5	32,5	20	18	40,0

2510

Male connector BSPT thread



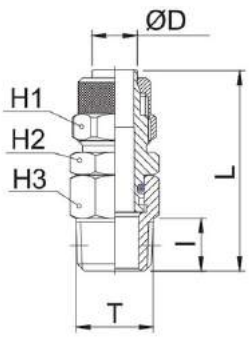


CODE	T	ØD	I	L	H1	H2	GR.
2510TR18427	R1/8"	4/2,7	8	23,8	12	8	10,0
2510TR1853	R1/8"	5/3	8,0	25,0	12	8	10,0
2510TR1864	R1/8"	6/4	8,0	27,5	12	12	16,0
2510TR1464	R1/4"	6/4	11,0	31,0	14	12	20,0
2510TR3864	R3/8"	6/4	11,5	31,5	17	12	26,0
2510TR1886	R1/8"	8/6	8,0	27,5	12	14	18,0
2510TR1486	R1/4"	8/6	11,0	31,0	14	14	22,0
2510TR3886	R3/8"	8/6	11,5	31,5	17	14	28,0
2510TR1286	R1/2"	8/6	14,0	34,5	22	14	44,0
2510TR18108	R1/8"	10/8	8,0	29,5	14	16	24,0
2510TR14108	R1/4"	10/8	11,0	32,5	14	16	28,0
2510TR38108	R3/8"	10/8	11,5	33,0	17	16	34,0
2510TR12108	R1/2"	10/8	14,0	36,0	22	16	46,0
2510TR381210	R3/8"	12/10	11,5	34,5	17	18	38,0
2510TR121210	R1/2"	12/10	14,0	37,5	22	18	50,0
2510TR1215125	R1/2"	15/12,5	14,0	39,5	22	22	62,0

2511

Swivel male connector BSPT thread



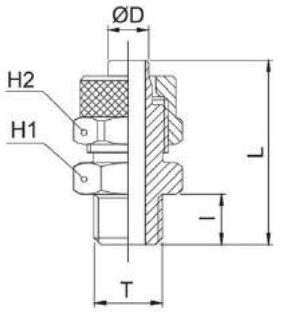


CODE	T	ØD	I	L	H1	H2	H3	GR.
2511TR1864	G1/8"	6/4	8	37,0	12	12	12	22,0
2511TR1464	G1/4"	6/4	11	40,0	12	14	14	28,0
2511TR1885	G1/8"	8/5	8	37	14	12	12	0,03
2511TR1485	G1/4"	8/5	11	40	14	14	14	0,032
2511TR1886	G1/8"	8/6	8	37,0	14	12	12	26,0
2511TR1486	G1/4"	8/6	11	40,0	14	14	14	30,0
2511TR141065	G1/4"	10/6,5	11	42	16	14	14	0,034
2511TR14108	G1/4"	10/8	11	42,0	16	14	14	34,0
2511TR38128	G3/8"	12/8	11,5	44	18	17	17	0,05
2511TR381210	G3/8"	12/10	11,5	44,0	18	17	17	50,0

2512

Male connector metric thread



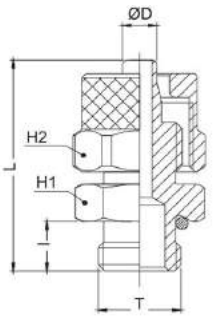


CODE	T	ØD	I	L	H1	H2	GR.
2512TRM553	M5	5/3	4	20	8	8	4,0
2512TRM653	M6	5/3	5	21	8	8	6,0
2512TRM564	M5	6/4	4	21	8	9	6,0
2512TRM664	M6	6/4	5	22	8	9	6,0
2512TRM1212564	M12X1,25	6/4	8	28	17	12	22,0
2512TRM121564	M12X1,5	6/4	8	28	17	12	22,0
2512TRM1212586	M12X1,25	8/6	8	28	17	14	24,0
2512TRM121586	M12X1,5	8/6	8	28	17	14	24,0

2513

Male connector metric thread with OR



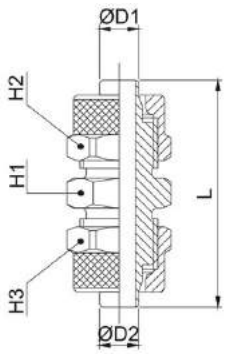


CODE	T	ØD	I	L	H1	H2	GR.
2513TRM5427	M5	4/2,7	4	20,0	8	8	6,0
2513TRM6427	M6	4/2,7	4	20,0	8	8	6,0
2513TRM553	M5	5/3	4	20,5	8	8	6,0
2513TRM653	M6	5/3	4	20,5	8	8	6,0
2513TRM564	M5	6/4	4	21,0	8	12	6,0
2513TRM664	M6	6/4	4	21,0	8	12	6,0
2513TRM12164	M12X1	6/4	8	28,0	15	12	20,0
2513TRM1212564	M12X1,25	6/4	8	28,0	15	12	20,0
2513TRM121564	M12X1,5	6/4	8	28,0	15	12	20,0
2513TRM1212586	M12X1,25	8/6	8	28,0	17	14	17,0
2513TRM121586	M12X1,5	8/6	8	28,0	17	14	17,0

2515

Union connector



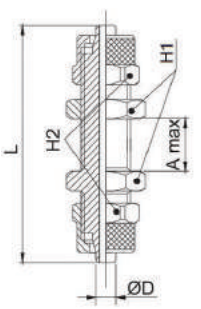


CODE	ØD1	ØD2	L	H1	H2	H3	GR.
2515TR427	4/2,7	4/2,7	26,0	8	8	8	8,0
2515TR53	5/3	5/3	28,5	8	8	8	8,0
2515TR64	6/4	6/4	34,5	12	12	12	22,0
2515TR86	8/6	8/6	35,0	14	14	14	28,0
2515TR8664	8/6	6/4	35,0	14	14	12	26,0
2515TR108	10/8	10/8	38,0	14	16	16	36,0
2515TR1210	12/10	12/10	41,0	17	18	18	48,0
2515TR15125	15/12,5	15/12,5	45,5	22	22	22	78,0

2520

Bulkhead connector



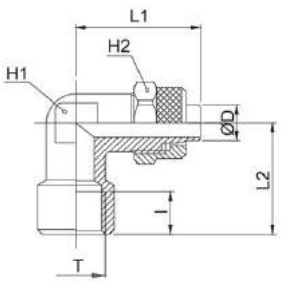


CODE	ØD	L	A+	H1	H2	GR.
2520TR427	4/2,7	36,7	8,5	9	8	10,0
2520TR53	5/3	40,0	8,5	9	8	12,0
2520TR64	6/4	48,0	10,5	14	12	34,0
2520TR86	8/6	48,0	10,5	16	14	42,0
2520TR108	10/8	50,0	8,5	17	16	54,0
2520TR1210	12/10	53,0	8,5	19	18	76,0
2520TR15125	15/12,5	58,0	8,5	24	22	110,0

2530

Female elbow BSPP thread



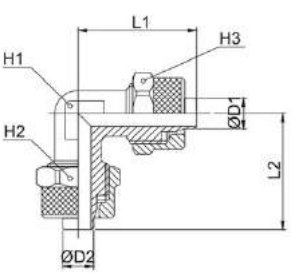


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2530TR1853	G1/8"	5/3	8,0	21,5	19,0	10	8	16,0
2530TR1864	G1/8"	6/4	8,0	22,5	19,0	10	12	22,0
2530TR1464	G1/4"	6/4	10,5	25,0	23,0	11	12	36,0
2530TR1886	G1/8"	8/6	8,0	22,5	19,0	10	14	22,0
2530TR1486	G1/4"	8/6	10,5	25,0	23,0	11	14	32,0
2530TR14108	G1/4"	10/8	11,0	26,0	23,5	13	16	38,0
2530TR381210	G3/8"	12/10	11,5	30,5	28,0	17	18	60,0

2535

Union elbow connector



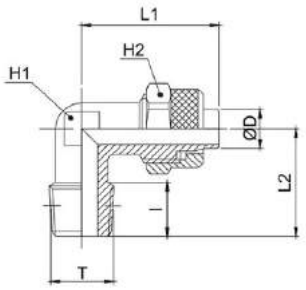


CODE	ØD1	ØD2	L1	L2	H1	H2	H3	GR.
2535TR427	4/2,7	4/2,7	20,3	20,3	8	8	8	11,0
2535TR53	5/3	5/3	21,5	21,5	8	8	8	12,0
2535TR64	6/4	6/4	21,5	21,5	8	12	12	20,0
2535TR86	8/6	8/6	22,5	22,5	10	14	14	28,0
2535TR8664	8/6	6/4	22,5	22,5	10	14	12	26,0
2535TR108	10/8	10/8	25,5	25,5	11	16	16	38,0
2535TR1210	12/10	12/10	30,0	30,0	14	18	18	56,0
2535TR15125	15/12,5	15/12,5	34,0	34,0	17	22	22	88,0

2540

Male elbow BSPT thread



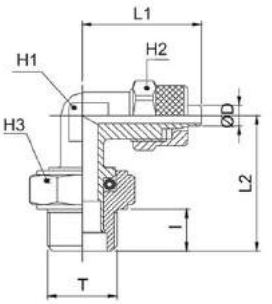


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2540TR18427	R1/8"	4/2,7	8,0	19,5	17,0	8	8	10,0
2540TR1853	R1/8"	5/3	8,0	21,5	17,0	8	8	10,0
2540TR1864	R1/8"	6/4	8,0	22,5	17,0	8	12	16,0
2540TR1464	R1/4"	6/4	11,0	22,5	20,0	10	12	22,0
2540TR3864	R3/8"	6/4	11,5	23,5	22,5	11	12	30,0
2540TR1886	R1/8"	8/6	8,0	22,5	17,0	10	14	20,0
2540TR1486	R1/4"	8/6	11,0	22,5	20,0	10	14	24,0
2540TR3886	R3/8"	8/6	11,5	24,0	22,5	11	14	32,0
2540TR1286	R1/2"	8/6	14	28	26,5	17	14	37,0
2540TR18108	R1/8"	10/8	8,0	25,5	18,5	11	16	28,0
2540TR14108	R1/4"	10/8	11,0	25,5	21,5	11	16	32,0
2540TR38108	R3/8"	10/8	11,5	25,5	22,5	11	16	34,0
2540TR12108	R1/2"	10/8	14,0	28,0	28,0	17	16	56,0
2540TR141210	R1/4"	12/10	11,0	30,0	24,0	14	18	42,0
2540TR381210	R3/8"	12/10	11,5	30,0	24,5	14	18	48,0
2540TR121210	R1/2"	12/10	14,0	30,5	28,0	17	18	60,0
2540TR1215125	R1/2"	15/12,5	14,0	34,0	28,0	17	22	70,0

2542

Swivel male elbow BSPP thread



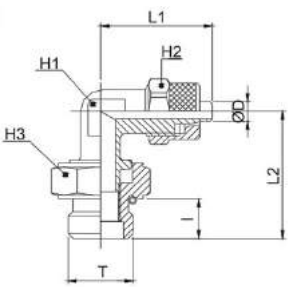


CODE	T	ØD	I	L1	L2	H1	H2	H3	GR.
2542TR18427	G1/8"	4/2,7	6	21,5	22,5	8	12	14	18,0
2542TR1864	G1/8"	6/4	6	22,5	22,5	8	12	14	22,0
2542TR1464	G1/4"	6/4	8	23,5	25,0	10	12	17	34,0
2542TR1886	G1/8"	8/6	6	23,5	22,5	10	14	14	28,0
2542TR1486	G1/4"	8/6	8	23,5	25,0	10	14	17	36,0
2542TR14108	G1/4"	10/8	8	23,5	25,5	11	16	17	42,0

2543

Swivel male elbow BSPP thread with OR



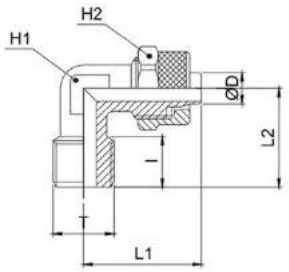


CODE	T	ØD	I	L1	L2	H1	H2	H3	GR.
2543TR18427	G1/8"	4/2,7	6	21,5	22,5	8	12	14	19,0
2543TR1864	G1/8"	6/4	6	22,5	22,5	8	12	14	23,0
2543TR1464	G1/4"	6/4	8	23,5	25,0	10	12	17	35,0
2543TR1886	G1/8"	8/6	6	23,5	22,5	10	14	14	29,0
2543TR1486	G1/4"	8/6	8	23,5	25,0	10	14	17	37,0
2543TR14108	G1/4"	10/8	8	23,5	25,5	11	14	17	43,0

2548

Male elbow metric thread



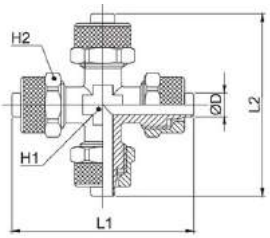


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2548TRM5427	M5	4/2,7	4	19,5	15	8	8	10,0
2548TRM6427	M6	4/2,7	4	19,5	15	8	8	10,0
2548TRM553	M5	5/3	4	21,5	15	8	8	10,0
2548TRM564	M5	6/4	4	22,5	15	8	9	14,0
2548TRM1212564	M12X1,25	6/4	9	22,5	20,5	10	12	24,0
2548TRM121564	M12X1,5	6/4	9	22,5	20,5	10	12	22,0
2548TRM1212586	M12X1,25	8/6	9	22,5	20,5	10	14	24,0
2548TRM121586	M12X1,5	8/6	9	22,5	20,5	10	14	24,0

2550

Cross junction connector



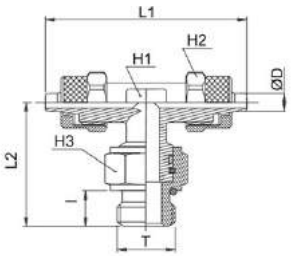


CODE	ØD	L1	L2	H1	H2	GR.
2550TR53	5/3	43	43	8	8	22,0
2550TR64	6/4	45	45	8	12	42,0
2550TR86	8/6	45	45	10	14	52,0
2550TR108	10/8	51	51	11	16	70,0

2553

Swivel male tee BSPP thread with OR



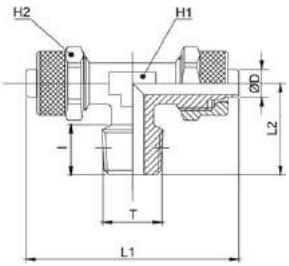


CODE	T	ØD	I	L1	L2	H1	H2	H3	GR.
2553TR18427	G1/8"	4/2,7	6	45,0	25,7	8	8	13	19,0
2553TR1864	G1/8"	6/4	6	45,0	25,7	8	12	13	23,0
2553TR1464	G1/4"	6/4	8	45,5	29,0	10	12	17	35,0
2553TR1886	G1/8"	8/6	6	45,5	26,0	10	14	13	29,0
2553TR1486	G1/4"	8/6	8	45,5	28,0	10	14	17	37,0
2553TR14108	G1/4"	10/8	8	51,0	29,0	11	16	17	43,0

2555

Male tee BSPT thread



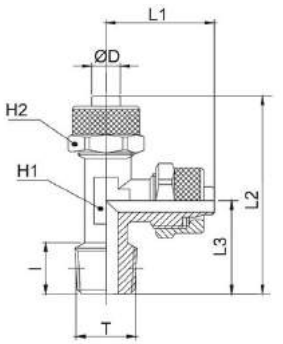


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2555TR18427	R1/8"	4/2,7	8,0	40,6	17,0	8	8	16,0
2555TRM553	M5	5/3	4,0	43,0	15,0	8	8	16,0
2555TR1853	R1/8"	5/3	8,0	43,0	17,0	8	8	16,0
2555TR1864	R1/8"	6/4	8,0	45,0	17,0	8	12	26,0
2555TR1464	R1/4"	6/4	11,0	45,5	20,5	10	12	34,0
2555TR3864	R3/8"	6/4	11,5	48,0	22,5	11	12	42,0
2555TR1886	R1/8"	8/6	8,0	45,5	17,5	10	14	34,0
2555TR1486	R1/4"	8/6	11,0	45,5	20,5	10	14	36,0
2555TR3886	R3/8"	8/6	11,5	48,0	22,5	11	14	44,0
2555TR18108	R1/8"	10/8	8,0	51,0	18,5	11	16	44,0
2555TR14108	R1/4"	10/8	11,0	51,0	21,5	11	16	48,0
2555TR38108	R3/8"	10/8	11,5	51,0	22,5	11	16	50,0
2555TR12108	R1/2"	10/8	14,0	57,0	28,0	17	16	80,0
2555TR381210	R3/8"	12/10	11,5	60,0	24,5	14	18	70,0
2555TR121210	R1/2"	12/10	14,0	61,0	28,0	17	18	86,0
2555TR1215125	R1/2"	15/12,5	14,0	68,0	28,0	17	22	108,0

2560

Lateral male tee BSPT thread



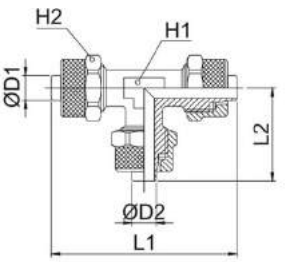


CODE	T	ØD	I	L1	L2	L3	H1	H2	GR.
2560TR18427	R1/8"	4/2,7	8,0	21,5	38,0	17,0	8	8	16,0
2560TRM553	M5	5/3	4,0	21,5	36,5	15,0	8	8	16,0
2560TR1853	R1/8"	5/3	8,0	21,5	38,5	17,0	8	8	16,0
2560TR1864	R1/8"	6/4	8,0	22,5	39,5	17,0	8	12	26,0
2560TR1464	R1/4"	6/4	11,0	22,7	42,5	20,0	10	12	34,0
2560TR3864	R3/8"	6/4	11,5	24,0	46,5	22,5	11	12	40,0
2560TR1886	R1/8"	8/6	8,0	22,7	40,5	17,5	10	14	34,0
2560TR1486	R1/4"	8/6	11,0	22,7	43,5	20,5	10	14	38,0
2560TR3886	R3/8"	8/6	11,5	24,0	46,5	22,5	11	14	44,0
2560TR18108	R1/8"	10/8	8,0	25,5	44,0	18,5	11	16	44,0
2560TR14108	R1/4"	10/8	11,0	25,5	46,5	21,0	11	16	48,0
2560TR38108	R3/8"	10/8	11,5	25,5	48,0	22,5	11	16	50,0
2560TR12108	R1/2"	10/8	14,0	30,5	57,0	28,0	17	16	76,0
2560TR381210	R3/8"	12/10	11,5	30,0	54,5	24,5	14	18	70,0
2560TR121210	R1/2"	12/10	14,0	30,5	58,5	28,0	17	18	86,0
2560TR1215125	R1/2"	15/12,5	14,0	34,0	62,0	28,0	17	22	108,0

2565

Union tee connector



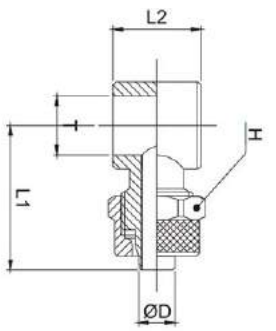


CODE	ØD1	ØD2	L1	L2	H1	H2	GR.
2565TR427	4/2,7	4/2,7	40,6	20,3	8	8	16,0
2565TR53	5/3	5/3	43,0	21,5	8	8	16,0
2565TR64	6/4	6/4	45,0	22,5	8	12	32,0
2565TR86	8/6	8/6	45,0	22,5	10	14	42,0
2565TR8664	8/6	6/4	45,0	22,5	10	14	40,0
2565TR108	10/8	10/8	51,0	25,5	11	16	56,0
2565TR1210	12/10	12/10	60,0	30,0	14	18	78,0
2565TR15125	15/12,5	15/12,5	68,0	34,0	17	22	124,0

2570

Single banjo body



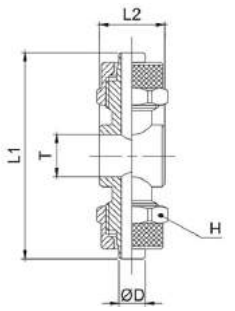


CODE	T	ØD	L1	L2	H	GR.
2570TRM5427	M5	4/2,7	15,8	9,0	8	6,0
2570TRM6427	M6	4/2,7	15,8	9,0	8	6,0
2570TR18427	G1/8"	4/2,7	21,3	14,5	8	15,0
2570TRM553	M5	5/3	17,0	9,0	8	8,0
2570TR1853	G1/8"	5/3	22,5	14,5	8	14,0
2570TRM564	M5	6/4	18,0	9,0	9	8,0
2570TR1864	G1/8"	6/4	24,0	14,5	12	20,0
2570TR1464	G1/4"	6/4	26,0	14,5	12	24,0
2570TR1886	G1/8"	8/6	24,0	14,5	14	22,0
2570TR1486	G1/4"	8/6	26,0	14,5	14	26,0
2570TR14108	G1/4"	10/8	27,5	14,5	16	30,0

2575

Double banjo body



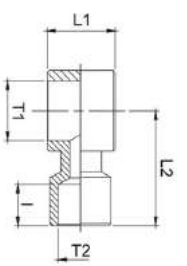


CODE	T	ØD	L1	L2	H	GR.
2575TR18427	G1/8"	4/2,7	42,6	14,5	8	19,0
2575TR1853	G1/8"	5/3	45,0	14,5	8	20,0
2575TR1864	G1/8"	6/4	48,0	14,5	12	30,0
2575TR1464	G1/4"	6/4	52,0	14,5	12	34,0
2575TR1886	G1/8"	8/6	48,0	14,5	14	32,0
2575TR1486	G1/4"	8/6	52,0	14,5	14	38,0
2575TR14108	G1/4"	10/8	55,0	14,5	16	44,0

2580

Female single banjo body



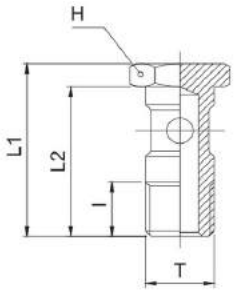


CODE	T1	T2	I	L1	L2	GR.
2580TR18	G1/8"	G1/8"	8,0	14,5	20,0	22,0
2580TR14	G1/4"	G1/4"	10,0	17,5	25,0	41,0
2580TR38	G3/8"	G3/8"	11,5	21,0	28,0	78,0

251V

Single banjo stem



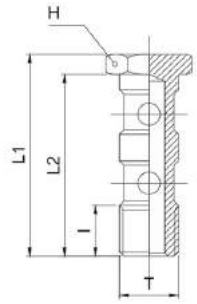


CODE	T	I	L1	L2	H	GR.
251VM5	M5	6	18,0	14,5	8	4,0
251VM6	M6	6	18,0	14,5	8	5,0
251V18	G1/8"	8	27,0	23,0	14	14,0
251V14	G1/4"	11	29,5	25,0	17	24,0

252V

Double banjo stem



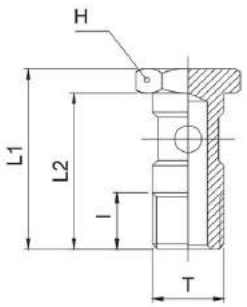


CODE	T	I	L1	L2	H	GR.
252V18	G1/8"	8	43,0	39,0	14	18,0
252V14	G1/4"	11	45,5	41,0	17	34,0

2585

Long single banjo stem



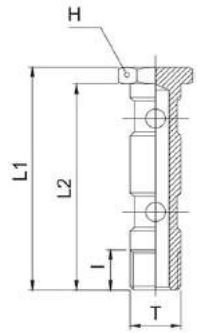


CODE	T	I	L1	L2	H	GR.
2585TR18	G1/8"	8	31,0	27,0	14,0	16,0
2585TR14	G1/4"	11	33,5	29,0	17,0	26,0

2595

Long double banjo stem



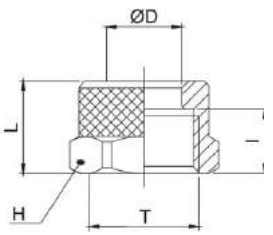


CODE	T	I	L1	L2	H	GR.
2595TR18	G1/8"	8	56,0	52,0	14	24,0
2595TR14	G1/4"	11	58,5	54,0	17	42,0

2630

Locking nut



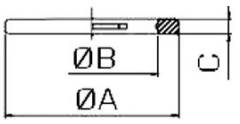


CODE	T	ØD	I	L	H	GR.
2630TRM605427	M6X0,5	4/2,7	6,0	8,1	8	1,50
2630TRM707553	M7X0,75	5/3	6,0	8,5	8	1,34
2630TRM807564	M8X0,75	6/4	6,5	9,0	9	1,51
2630TRM10164	M10X1	6/4	7,5	10,5	12	4,64
2630TRM12186	M12X1	8/6	7,5	10,5	14	5,57
2630TRM141108	M14X1	10/8	8,0	11,5	16	7,09
2630TRM1611210	M16X1	12/10	10,0	13,0	18	9,36
2630TRM20115125	M20X1	15/12,5	11,0	15,5	22	15,04

2610

Nylon notched washer



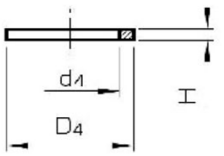


CODE	THREAD	A	B	C	GR.
2610TRM5	M5	8,0	5,2	1,3	2,0
2610TR18	G1/8″	14,0	10,0	2,0	26,0
2610TR14	G1/4″	18,0	13,5	2,0	42,0
2610TR38	G3/8″	21,0	16,8	2,0	28,0
2610TR12	G1/2″	26,0	21,1	2,0	38,0

2612

PVC washer



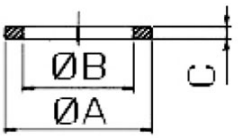


CODE	THREAD	D4	D1	H	GR.
2612TR18	G1/8″	14,0	10,0	1,5	18,0
2612TR14	G1/4″	17,5	13,5	1,5	18,0
2612TR38	G3/8″	21,0	16,7	1,5	18,0
2612TR12	G1/2″	26,0	21,3	1,5	18,0

2615

Nylon washer



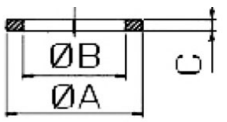


CODE	THREAD	A	B	C	GR.
2615TRM5	M5	8,5	5,0	1,5	4,0
2615TR18	G1/8"	14,0	9,8	1,5	24,0
2615TR14	G1/4"	18,0	13,2	1,5	40,0
2615TR38	G3/8"	21,0	16,7	1,5	20,0
2615TR12	G1/2"	26,0	21,1	2,0	38,0
2615TR34	G3/4"	32,0	26,7	2,5	62,0

2620

Aluminum washer



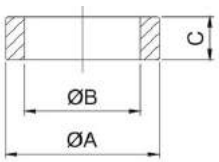


CODE	THREAD	A	B	C	GR.
2620TR18	G1/8"	14,0	10,0	1,5	58,0
2620TR14	G1/4"	17,3	13,3	1,5	76,0
2620TR38	G3/8"	21,0	16,9	1,5	46,0
2620TR12	G1/2"	26,0	21,1	1,5	70,0

2625

Nylon spacer





CODE	THREAD	ØA	ØB	C	GR.
2625TR18	1/8"	14,0	10,0	5,0	52,0
2625TR14	1/4"	17,5	13,2	5,0	66,0

THIS SPACER IS USED ON STEMS 2585 AND 2595.

PUSH-ON FITTINGS
POLYPROPYLENE

PLUS

- GREAT GRIPPING SYSTEM WITH THE LOCKING NUT
- EASY TO BE USED AND EXTREMELY STRONG
- SUITABLE FOR FOOD & WATER CONTACT
- HIGH CHEMICAL RESISTANCE



p. 186 / **2105**



p. 186 / **2110**



p. 186 / **2115**



p. 187 / **2130**



p. 187 / **2135**



p. 187 / **2140**

N



p. 187 / **2150**



p. 188 / **2155**

N



p. 188 / **2160**

N



p. 188 / **2165**

N



p. 188 / **2230**

N



p. 189 / **2105N**

N



p. 189 / **2110N**

N



p. 189 / **2115N**



p. 189 / **2135N**



p. 190 / **2140N**



p. 190 / **2155N**

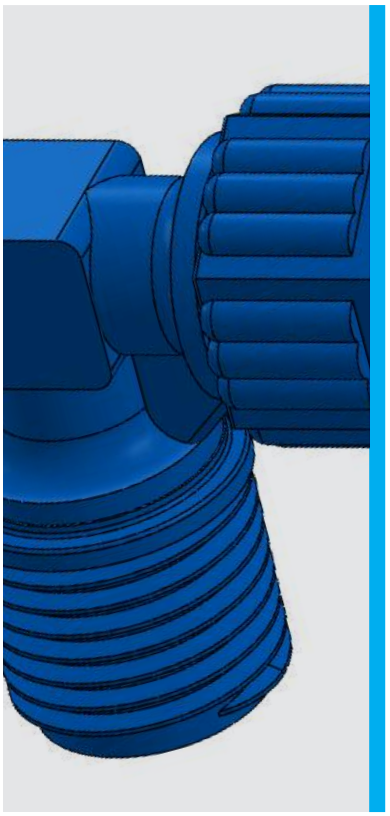


p. 190 / **2160N**

N



p. 190 / **2165N**



+4°C ÷ +90°C
Subject to applications

Up to 14 Bar at 20°C

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R3/4"

Polyurethane, Polyethylene, Polyamide

Body: Fiberglass reinforced polypropylene
Lock nut: Fiberglass reinforced polypropylene

REACH
Products in compliance with the directive 2002/95/EC

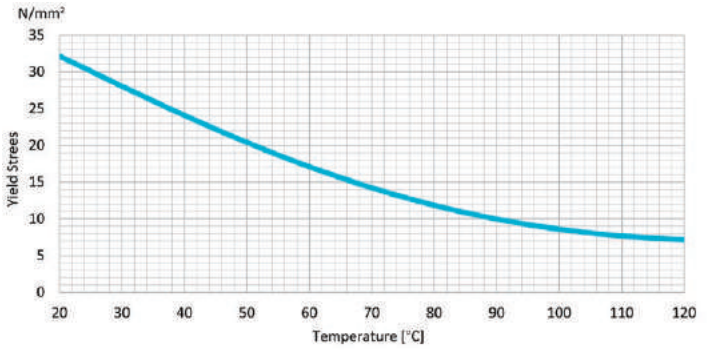
RoHS2
Products in compliance with the directive 2011/65/EU

DM174 EC1935

PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage.
  Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube

YIELD STRESS OF PP AS A FUNCTION OF TEMPERATURE



RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,01	0,01
1/4	0,3	0,2
3/8	1	1
1/2	2	2
3/4	5	4
1	8	6

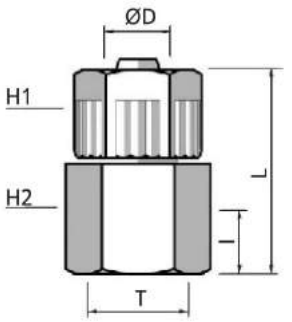
MEASURES BARB

Ø	MM	Ø	MM
Ø6	6,2	Ø1/4	6,2
Ø8	7,2	Ø5/16	7,2
Ø10	9,2	Ø3/8	9,2
Ø12	12	Ø1/2	12

2105

Female connector BSPT thread



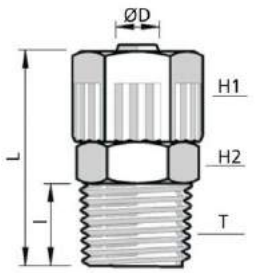


CODE	ØD	T	I	L	H1	H2	GR.
2105TR186	6/4	R1/8"	10,0	26,3	14	14	3,0
2105TR146	6/4	R1/4"	11,0	28,0	14	17	3,0
2105TR188	8/5,5	R1/8"	9,5	26,3	14	14	3,0
2105TR148	8/5,5	R1/4"	11,0	28,0	14	17	4,0
2105TR388	8/5,5	R3/8"	11,2	30,5	14	22	5,0
2105TR128	8/5,5	R1/2"	13,5	32,5	14	26	6,0
2105TR1410	10/7	R1/4"	10,0	32,0	17	17	6,0
2105TR3810	10/7	R3/8"	11,0	33,0	17	22	7,0
2105TR1210	10/7	R1/2"	13,8	35,5	17	26	7,0

2110

Male connector BSPT thread



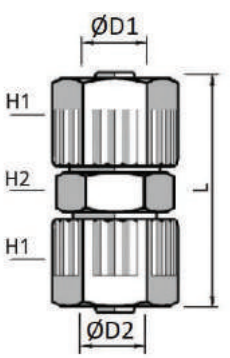


CODE	ØD	T	I	L	H1	H2	GR.
2110TR186	6/4	R1/8"	8,0	27,0	14	13	3,0
2110TR146	6/4	R1/4"	10,5	30,0	14	15	3,0
2110TR386	6/4	R3/8"	10,5	27,0	14	18	4,5
2110TR126	6/4	R1/2"	13,0	31,5	14	22	6,0
2110TR346	6/4	R3/4"	9,0	23,0	14	27	8,0
2110TR188	8/5,5	R1/8"	8,0	27,0	14	13	3,0
2110TR148	8/5,5	R1/4"	10,5	30,0	14	15	3,0
2110TR388	8/5,5	R3/8"	10,5	31,5	14	18	4,0
2110TR128	8/5,5	R1/2"	13,0	34,0	14	22	5,0
2110TR348	8/5,5	R3/4"	9,0	27,5	14	27	8,0
2110TR1410	10/7	R1/4"	10,5	36,0	17	17	4,0
2110TR3810	10/7	R3/8"	10,5	36,0	17	17	5,0
2110TR1210	10/7	R1/2"	12,0	39,0	17	22	6,0
2110TR3410	10/7	R3/4"	13,0	40,0	17	27	6,0
2110TR1412	12/9	R1/4"	10,5	34,0	19	14	6,0
2110TR3812	12/9	R3/8"	10,5	36,0	19	18	7,0
2110TR1212	12/9	R1/2"	12,5	37,0	19	22	7,0
2110TR3412	12/9	R3/4"	13,0	34,0	19	27	8,0

2115

Union connector



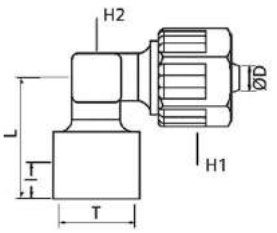


CODE	ØD	L	H1	H2	GR.
2115TR6	6/4	32,5	14	14	4,0
2115TR8	8/5,5	32,5	14	14	4,0
2115TR12	12/9	40,6	19	18	8,0
2115TR86	8/5,5-6/4	32,5	14	14	4,0

2130

Female elbow BSPT thread



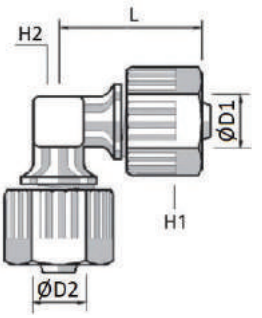


CODE	ØD	T	I	L	H1	H1	GR.
2130TR186	6/4	R1/8"	10,5	19,5	14	9	5,0
2130TR146	6/4	R1/4"	12,3	22,5	14	9	5,0
2130TR148	8/5,5	R1/4"	12,3	22,5	14	9	6,0

2135

Union elbow



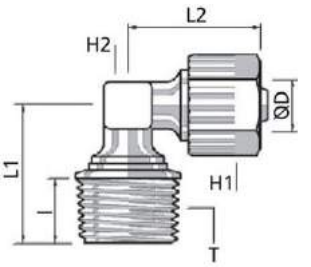


CODE	ØD	L	H1	H2	GR.
2135TR6	6/4	23,3	14	8	4,0
2135TR8	8/5,5	23,5	14	8	4,0
2135TR12	12/9	32,0	19	15	10,0
2135TR86	8/6	23,3	14	8	4,39

2140

Male elbow BSPT thread



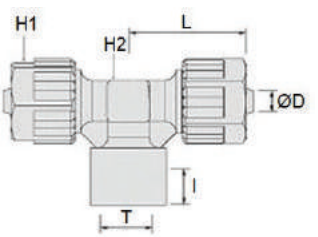


CODE	ØD	T	I	L1	L2	H1	H2	GR.
2140TR186	6/4	R1/8"	8,0	18,5	22,5	14	8	2,0
2140TR146	6/4	R1/4"	10,0	23,0	22,5	14	8	3,0
2140TR188	8/5,5	R1/8"	8,5	18,5	23,0	14	8	3,0
2140TR148	8/5,5	R1/4"	11,0	23,0	23,0	14	8	3,0
2140TR388	8/5,5	R3/8"	11,0	23,5	23,0	14	8	5,0
2140TR1412	12/9	R1/4"	10,0	24,0	33,0	19	15	7,0
2140TR3812	12/9	R3/8"	10,0	24,5	33,0	19	15	6,0
2140TR1212	12/9	R1/2"	13,0	28,5	33,0	19	15	9,0

2150

Female tee BSPT thread



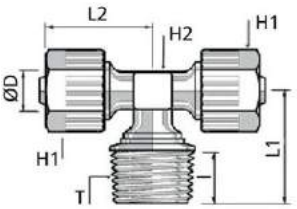


CODE	ØD	T	I	L	H1	H2	GR.
2150TR186	6,2	R1/8"	10,2	23,3	14	8	5,82
2150TR148	7,2	R1/4"	12,5	23,3	14	8	5,82

2155

Male tee BSPT thread



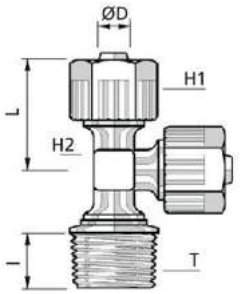


CODE	ØD	T	I	L1	L2	H1	H2	GR.
2155TR186	6/4	R1/8"	9,0	19,0	23,3	14	8	6,0
2155TR146	6/4	R1/4"	11,0	21,0	23,3	14	8	6,0
2155TR188	8/5,5	R1/8"	9,0	19,0	23,3	14	8	5,0
2155TR148	8/5,5	R1/4"	11,0	21,0	23,3	14	8	6,0
2155TR388	8/5,5	R3/8"	11,0	21,0	23,3	14	8	7,0
2155TR1412	12/9	R1/4"	11,0	21,0	23,3	14	8	12,0
2155TR3812	12/9	R3/8"	10,7	24,5	33,5	19	15	14,0
2155TR1212	12/9	R1/2"	15,0	28,5	33,0	19	15	15,0

2160

Lateral male tee BSPT thread



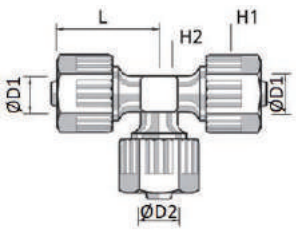


CODE	ØD	T	I	L	H1	H2	GR.
2160TR186	6/4	R1/8"	8,5	23,3	14	8	5,0
2160TR146	6/4	R1/4"	11,0	23,3	14	8	5,0
2160TR188	8/5,5	R1/8"	8,5	23,3	14	8	5,0
2160TR148	8/5,5	R1/4"	11,0	23,3	14	8	5,0
2160TR388	8/5,5	R3/8"	10,0	23,3	14	8	7,0
2160TR1412	12/9	R1/4"	10,0	33,0	19	15	12,0
2160TR3812	12/9	R3/8"	11,0	33,0	19	15	14,0
2160TR1212	12/9	R1/2"	15,0	33,0	19	15	15,0

2165

Union tee connector



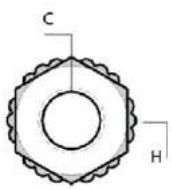


CODE	ØD	L	H1	H2	GR.
2165TR6	6/4	22,0	14	8	7,0
2165TR8	8/5,5	22,0	14	8	5,0
2165TR12	12/9	32,0	19	14	14,0
2165TR68	6/8	46,8	-	-	6,48
2165TR86	8/6	46,8	-	-	6,41

2230

Locking nut



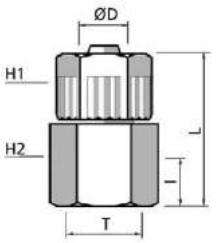


CODE	ØD	ØC	H	GR.
2230TR6	6/4	6,2	14	1,0
2230TR8	8/5,5	8,1	14	2,0
2230TR10	10/7	10,2	17	3,0
2230TR12	12/9	12,8	19	4,0

2105N

Female connector NPT thread



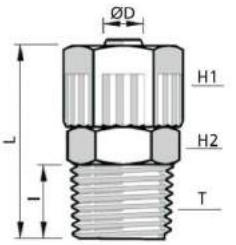


CODE	T	ØD	I	L	H1	H2	GR.
2105TRN1814	N1/8"	1/4	13,8	35,5	14	14	3,11
2105TRN18516	N1/8"	5/16	13,8	35,5	14	14	3,1
2105TRN14516	N1/4"	5/16	13,8	35,5	14	17	3,85
2105TRN1438	N1/4"	3/8	13,8	35,5	17	17	5,09
2105TRN3838	N3/8"	3/8	-	-	17	22	6,19
2105TRN1238	N1/2"	3/8	-	-	17	26	7,92

2110N

Male connector NPT thread



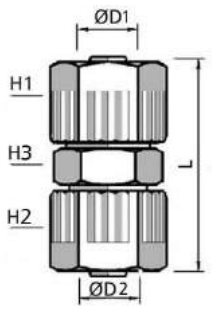


CODE	T	ØD	I	L	H1	H2	GR.
2110TRN1814	N1/8"	1/4	8,5	29,5	14	13	2,56
2110TRN1414	N1/4"	1/4	13	34	14	15	3,33
2110TRN1214	N1/2"	1/4	18	-	14	22	6,76
2110TRN18516	N1/8"	5/16	8,5	29,3	14	13	2,71
2110TRN14516	N1/4"	5/16	13	34	14	15	3,07
2110TRN38516	N3/8"	5/16	13	35	14	18	4,17
2110TRN1438	N1/4"	3/8	13	37,5	17	15	4,39
2110TRN3838	N3/8"	3/8	13	38,5	17	18	5,55
2110TRN1238	N1/2"	3/8	18	43,5	17	22	7,63
2110TRN3438	N3/4"	3/8	-	-	17	27	10,12
2110TRN1412	N1/4"	1/2	13	39	19	15	5,11
2110TRN3812	N3/8"	1/2	13	40	19	18	6,18
2110TRN1212	N1/2"	1/2	18	45	19	22	8,34

2115N

Union connector NPT thread



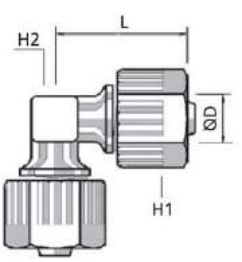


CODE	ØD1	ØD2	T	L	H1	H2	H3	GR.
2115TRN14	1/4	1/4	R1/4"	32,5	14	14	14	4,14
2115TRN516	5/16	5/16	R5/16"	32,5	14	14	14	4,09
2115TRN12	1/2	1/2	R1/2"	40,6	19	19	18	8,26

2135N

Union elbow connector



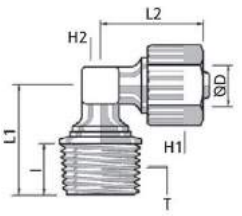


CODE	ØD	L	H1	H2	GR.
2135TRN14	1/4	23,3	14	8	4,48
2135TRN516	5/16	23,5	14	8	4,35

2140N

Male elbow NPT thread



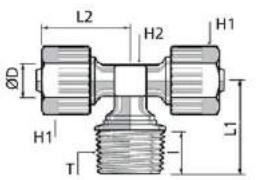


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2140TRN1814	N1/8"	1/4	10	19,5	22,5	14	8	3,2
2140TRN1414	N1/4"	1/4	12,5	23,3	22,5	14	8	3,83
2140TRN18516	N1/8"	5/16	12,5	23,5	22,5	14	8	3,13
2140TRN14516	N1/4"	5/16	10	19,5	22,5	14	8	3,81

2155N

Male tee NPT thread



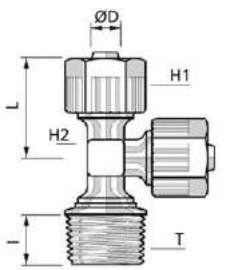


CODE	T	ØD	I	L1	L2	H1	H2	GR.
2155TRN1814	N1/8"	1/4	10	20,3	23,3	14	8	5,25
2155TRN1414	N1/4"	1/4	12,5	25	23,3	14	8	5,74
2155TRN18516	N1/8"	5/16	10	20,3	23,3	14	8	5,17
2155TRN14516	N1/4"	5/16	12,5	25	23,3	14	8	5,81
2155TRN3812	N3/8"	1/2	14	30,2	67	19	15	13,06
2155TRN1212	N1/2"	1/2	17,5	33	67	19	15	13,79

2160N

Lateral male tee NPT thread



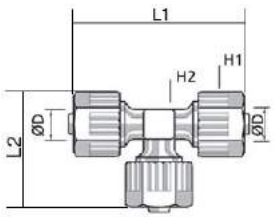


CODE	T	ØD	I	L	H1	H2	GR.
2160TRN1814	N1/8"	1/4	-	-	14	8	5,28
2160TRN1414	N1/4"	1/4	-	-	14	8	5,88
2160TRN18516	N1/8"	5/16	10	21,9	14	8	5,04
2160TRN14516	N1/4"	5/16	13,3	22,3	14	8	5,62
2160TRN1812	N1/8"	1/2	-	-	14	8	12,42

2165N

Union tee





CODE	ØD	L1	L2	H1	H2	GR.
2165TRN14	1/4	46,7	27,4	14	-	6,52
2165TRN516	5/16	46,7	27,4	14	-	6,29
2165TRN12	1/2	67,0	40,4	19	-	14,84

PUSH-ON FITTINGS
PVDF

PLUS

- GREAT GRIPPING SYSTEM WITH THE LOCKING NUT
- GREAT TEMPERATURE RANGE
- EASY TO BE USED AND EXTREMELY STRONG
- VERY STRONG RESISTANT FROM TUBE PULL OUT
- HIGH CORROSIVE CHEMICALS



p. 194 / **2900**



p. 194 / **2905**



p. 194 / **2910**



p. 195 / **2915**



p. 195 / **2930**



p. 195 / **2935**



p. 195 / **2940**



p. 196 / **2950**



p. 196 / **2955**



p. 196 / **2960**



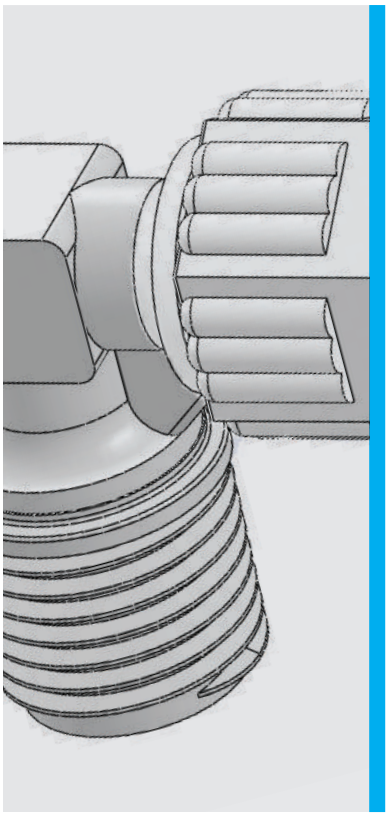
p. 196 / **2965**



p. 197 / **2970**



p. 197 / **2230**



-20°C ÷ +120°C
Subject to applications

Up to 14 Bar at 20°C

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R3/4"

Polyurethane, Polyethylene, Polyamide, PTFE , FEP

Body: Polyvinylidene flouride (PVDF)
Lock nut: Polypropylene
O'ring: Silicon

Available on demand
also for inch size & NPT thread

REACH Products in compliance with the directive 2002/95/EC

RoHS2 Products in compliance with the directive 2011/65/EU

DM174 EC1935

PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage.
  Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube

RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,1	0,07
1/4	1	0,8
3/8	5	3
1/2	8	6
3/4	16	12

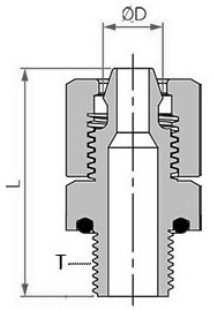
MEASURES BARB

Ø	MM
Ø6	6,2
Ø8	7,2
Ø10	9,2
Ø12	12

2900

Male connector BSPP thread with O-Ring



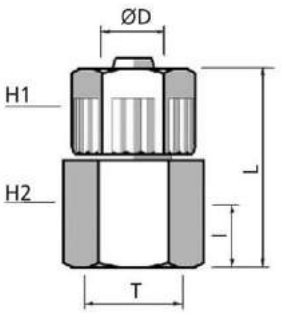


CODE	ØD	T	L	GR.
2900TR186	6/4	G1/8"	27,2	4,14
2900TR146	6/4	G1/4"	30,9	5,37
2900TR188	8/5,5	G1/8"	27,3	4,09
2900TR148	8/5,5	G1/4"	31,1	5,9
2900TR1810	10/7	G1/8"	27,2	-
2900TR1410	10/7	G1/4"	31,0	-

2905

Female connector BSPT thread



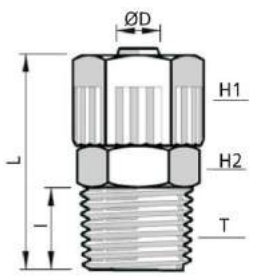


CODE	ØD	T	I	L	H1	H2	GR.
2905TR186	6/4	R1/8"	10,0	26,3	14	14	3,0
2905TR146	6/4	R1/4"	11,0	28,0	14	17	3,0
2905TR188	8/5,5	R1/8"	9,0	26,3	14	14	3,0
2905TR148	8/5,5	R1/4"	11,0	28,0	14	17	4,0
2905TR388	8/5,5	R3/8"	11,2	30,5	14	22	5,0
2905TR128	8/5,5	R1/2"	13,5	32,5	14	26	6,0
2905TR1410	10/7	R1/4"	10,0	32,0	17	17	6,0
2905TR3810	10/7	R3/8"	11,0	33,5	17	22	7,0
2905TR1210	10/7	R1/2"	13,8	35,5	17	26	7,0

2910

Male connector BSPT thread



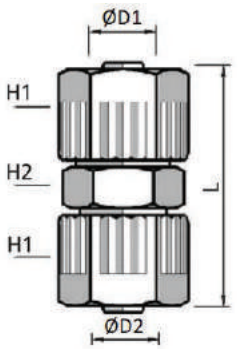


CODE	ØD	T	I	L	H1	H2	GR.
2910TR186	6/4	R1/8"	8,0	27,0	14	13	3,0
2910TR146	6/4	R1/4"	10,5	30,0	14	15	3,0
2910TR386	6/4	R3/8"	10,5	27,0	14	18	6,48
2910TR126	6/4	R1/2"	13,0	31,5	14	22	6,0
2910TR346	6/4	R3/4"	9,0	23,0	14	27	8,0
2910TR188	8/5,5	R1/8"	8,0	27,0	14	13	3,0
2910TR148	8/5,5	R1/4"	10,5	30,0	14	15	3,0
2910TR388	8/5,5	R3/8"	10,5	31,5	14	18	4,0
2910TR128	8/5,5	R1/2"	13,0	34,0	14	22	5,0
2910TR348	8/5,5	R3/4"	9,0	27,5	14	27	8,0
2910TR1410	10/7	R1/4"	10,5	36,0	17	17	4,0
2910TR3810	10/7	R3/8"	10,5	36,0	17	17	5,0
2910TR1210	10/7	R1/2"	12,0	39,0	17	22	6,0
2910TR3410	10/7	R3/4"	13,0	40,0	17	27	6,0
2910TR1412	12/9	R1/4"	10,5	34,0	19	14	6,0
2910TR3812	12/9	R3/8"	10,5	36,0	19	18	7,0
2910TR1212	12/9	R1/2"	12,5	37,0	19	22	7,0
2910TR3412	12/9	R3/4"	13,0	34,0	19	27	15,64

2915

Union connector



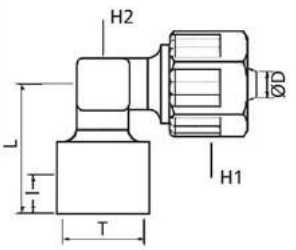


CODE	ØD1	ØD2	L	H1	H2	GR.
2915TR6	6/4	6/4	32,5	14	14	4,0
2915TR8	8/5,5	8/5,5	32,5	14	14	4,0
2915TR12	12/9	12/9	40,6	19	18	8,0
2915TR86	8/5,5	6/4	32,5	14	14	4,0

2930

Female elbow BSPT thread



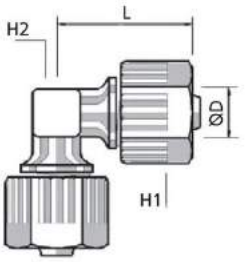


CODE	ØD	T	I	L	H1	H2	GR.
2930TR186	6/4	R1/8"	10,5	19,5	14	9	5,0
2930TR146	6/4	R1/4"	12,3	22,5	14	9	5,0
2930TR148	8/5,5	R1/4"	12,3	22,5	14	9	6,0

2935

Union elbow



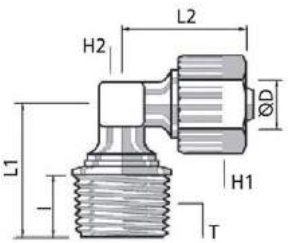


CODE	ØD	L	H1	H2	GR.
2935TR6	6/4	23,3	14	8	4,0
2935TR8	8/5,5	23,5	14	8	4,0
2935TR12	12/9	32,0	19	15	10,0

2940

Male elbow BSPT thread



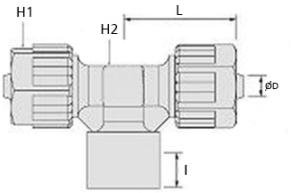


CODE	ØD	T	I	L1	L2	H1	H2	GR.
2940TR186	6/4	R1/8"	8,0	18,5	22,5	14	8	2,0
2940TR146	6/4	R1/4"	10,0	23,0	22,5	14	8	3,0
2940TR188	8/5,5	R1/8"	8,5	18,5	23,0	14	8	3,0
2940TR148	8/5,5	R1/4"	11,0	23,0	23,0	14	8	3,0
2940TR388	8/5,5	R3/8"	11,0	23,5	23,0	14	8	5,0
2940TR1412	12/9	R1/4"	10,0	24,0	33,0	19	15	7,0
2940TR3812	12/9	R3/8"	10,0	24,5	33,0	19	15	6,0
2940TR1212	12/9	R1/2"	13,0	28,5	33,0	19	15	9,0

2950

Tee female BSPT thread



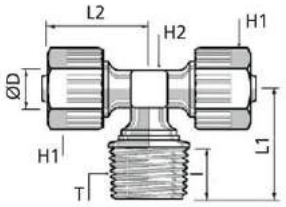


CODE	ØD	T	I	L	H1	H2	GR.
2950TR186	6/4	R1/8"	10,2	23,3	14	8	8,16
2950TR148	8/5,5	R1/4"	12,5	23,3	14	8	8,7

2955

Male tee BSPT thread



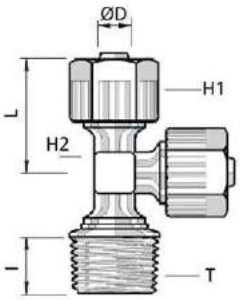


CODE	ØD	T	I	L1	L2	H1	H2	GR.
2955TR186	6/4	R1/8"	9,0	19,0	23,3	14	8	6,0
2955TR146	6/4	R1/4"	11,0	21,0	23,3	14	8	6,0
2955TR188	8/5,5	R1/8"	9,0	19,0	23,3	14	8	5,0
2955TR148	8/5,5	R1/4"	11,0	21,0	23,3	14	8	6,0
2955TR388	8/5,5	R3/8"	11,0	21,0	23,3	14	8	7,0
2955TR1412	12/9	R1/4"	11,0	21,0	23,3	14	8	12,0
2955TR3812	12/9	R3/8"	10,7	24,5	33,5	19	15	14,0
2955TR1212	12/9	R1/2"	15,0	28,5	33,0	19	15	15,0

2960

Lateral male tee BSPT thread



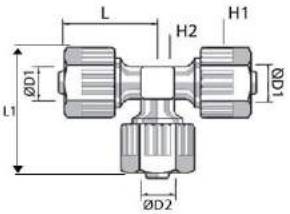


CODE	ØD	T	I	L	H1	H2	GR.
2960TR186	6/4	R1/8"	8,5	23,3	14	8	5,0
2960TR146	6/4	R1/4"	11,0	23,3	14	8	5,0
2960TR188	8/5,5	R1/8"	8,5	23,3	14	8	5,0
2960TR148	8/5,5	R1/4"	11,0	23,3	14	8	5,0
2960TR388	8/5,5	R3/8"	10,0	23,3	14	8	7,0
2960TR1412	12/9	R1/4"	10,0	33,0	19	15	12,0
2960TR3812	12/9	R3/8"	11,0	33,0	19	15	14,0
2960TR1212	12/9	R1/2"	15,0	33,0	19	15	15,0

2965

Union tee



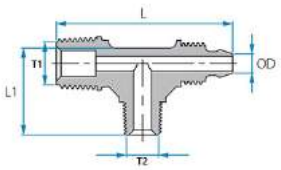


CODE	ØD1	ØD2	L	L1	H1	H2	GR.
2965TR6	6/4	6/4	22,0	27,5	14	8	7,0
2965TR8	8/5,5	8/5,5	22,0	27,5	14	8	5,0
2965TR12	12/9	12/9	32,0	40,4	19	14	14,0
2965TR68	6/4	8/5,5	46,8	27,4	-	-	8,73
2965TR86	8/5,5	6/4	46,8	27,4	-	-	8,96

2970

Lateral tee male BSPT thread



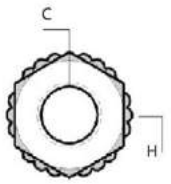


CODE	ØD	T1	T2	L	L1	GR.
2970TR148	8/5,5	R1/4"	R1/8"	46,2	22,6	7,15

2230

Locking nut





CODE	ØD	ØC	H	GR.
2230TR6	6/4	6,2	14	1,0
2230TR8	8/5,5	8,1	14	2,0
2230TR10	10/7	10,2	17	3,0
2230TR12	12/9	12,8	19	4,0



PUSH-ON FITTINGS
INOX AISI 316L

PLUS

- GREAT GRIPPING SYSTEM WITH THE LOCKING NUT
- SUITABLE FOR POTABLE WATER
- EASY TO BE USED AND EXTREMELY STRONG
- FULL STAINLESS STEEL AISI 316L



p. 201 / **2700**



p. 201 / **2710**



p. 202 / **2720**



p. 202 / **2725**



p. 202 / **2730**



p. 202 / **2740**



p. 203 / **2745**



p. 203 / **2750**



p. 203 / **2760**



p. 203 / **2770**

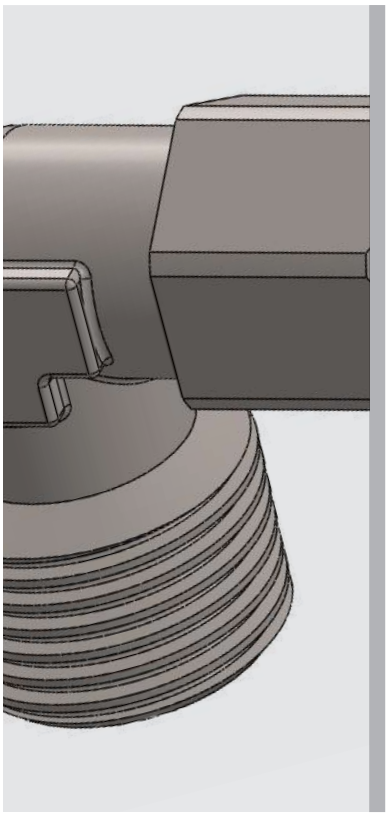


p. 204 / **2780**



p. 204 / **2790**

p. 204 / **2612**



-40°C ÷ +140°C
0°C ÷ +140°C for swivel fittings

Up to 25 Bar at 20°C.
Up to 16 Bar at 20°C for swivel

Compressed air, potable water and food fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"

Polyethylene, PTFE , FEP

Body: Stainless steel AISI 316L
Lock nut: Stainless steel AISI 316L
O'ring for swivel fittings: FKM (viton)

FEATURES

The fittings of this range, made completely in AISI 316L, are suitable also for food contact and chimica applications

REACH Products in compliance with the directive 2002/95/EC

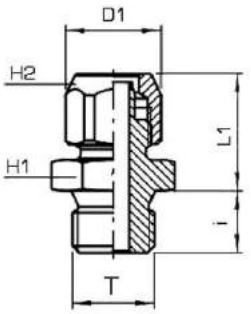
RoHS2 Products in compliance with the directive 2011/65/EU

DM174 EC1935

2700

Male connector BSPP thread



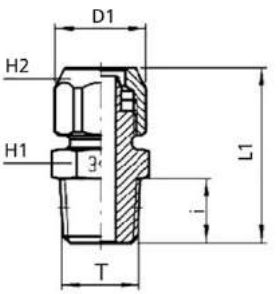


CODE	T	ØD	I	L1	D1	H1	H2	GR.
2700TR1864	G1/8"	6/4	8	18,5	13,0	13	12	15,0
2700TR1464	G1/4"	6/4	10	19,0	13,0	17	12	24,0
2700TR1886	G1/8"	8/6	8	18,5	15,5	13	14	18,0
2700TR1486	G1/4"	8/6	10	19,0	15,5	17	14	27,0
2700TR18108	G1/8"	10/8	8	20,0	18,5	14	17	28,0
2700TR14108	G1/4"	10/8	10	20,5	18,5	17	17	32,0
2700TR38108	G3/8"	10/8	10	20,5	18,5	19	17	40,0
2700TR381210	G3/8"	12/10	10	22,0	21,0	19	19	34,0
2700TR121210	G1/2"	12/10	12	22,5	21,0	24	19	34,0

2710

Male connector BSPT thread



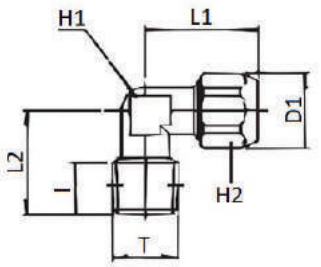


CODE	T	ØD	I	L1	D1	H1	H2	GR.
2710TR1864	R1/8"	6/4	7,5	26,0	13,0	12	12	14,0
2710TR1464	R1/4"	6/4	11,0	30,0	13,0	14	12	21,0
2710TR1886	R1/8"	8/6	7,5	26,0	15,5	12	14	17,0
2710TR1486	R1/4"	8/6	11,0	30,0	15,5	14	14	24,0
2710TR18108	R1/8"	10/8	7,5	27,5	18,5	14	17	28,0
2710TR14108	R1/4"	10/8	11,0	31,5	18,5	14	17	30,0
2710TR38108	R3/8"	10/8	11,5	32,0	18,5	17	17	40,0
2710TR381210	R3/8"	12/10	11,5	33,5	21,0	17	19	34,0
2710TR121210	R1/2"	12/10	14,0	36,5	21,0	22	19	34,0

2720

Male elbow BSPT thread



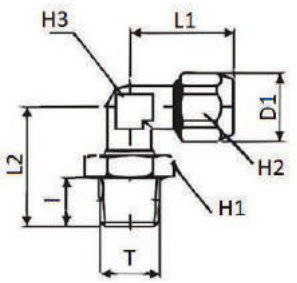


CODE	T	ØD	I	L1	L2	D1	H1	H2	GR.
2720TR1864	R1/8"	6/4	9,0	22,5	18,5	13	10	12	19,0
2720TR1464	R1/4"	6/4	10,5	22,5	21,0	13	10	12	22,0
2720TR1886	R1/8"	8/6	9,0	22,5	18,5	15,5	10	14	20,0
2720TR1486	R1/4"	8/6	10,5	22,5	21,0	15,5	10	14	23,0
2720TR3886	R3/8"	8/6	11,0	26,5	24,5	15,5	13	14	40,0
2720TR18108	R1/8"	10/8	9,0	24,5	18,5	18,5	10	17	26,0
2720TR14108	R1/4"	10/8	10,5	24,5	21,0	18,5	10	17	28,0
2720TR38108	R3/8"	10/8	11,0	27,0	24,5	18,5	13	17	20,0
2720TR381210	R3/8"	12/10	11,5	29,0	25,0	21	13	19	40,0
2720TR121210	R1/2"	12/10	14,0	30,5	29,0	21	17	19	40,0

2725

Swivel male elbow BSPT thread



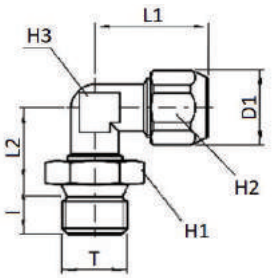


CODE	T	ØD	I	L1	L2	D1	H1	H2	H3	GR.
2725TR1864	R1/8"	6/4	7,5	22,5	21,5	13,0	13	12	10	24,0
2725TR1464	R1/4"	6/4	11,0	22,5	25,5	13,0	17	12	10	28,0
2725TR1886	R1/8"	8/6	7,5	22,5	21,5	15,0	13	14	10	25,0
2725TR1486	R1/4"	8/6	11,0	22,5	25,5	15,0	17	14	10	30,0
2725TR14108	R1/4"	10/8	11,0	24,0	25,5	18,5	17	17	10	36,0

2730

Swivel male elbow BSPP thread



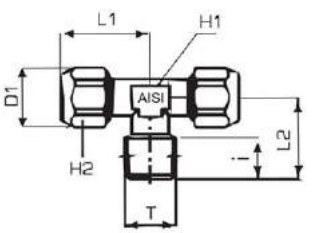


CODE	T	ØD	I	L1	L2	D1	H1	H2	H3	GR.
2730TR1864	G1/8"	6/4	8	22,5	14,0	13,0	13	12	10	24,0
2730TR1464	G1/4"	6/4	10	22,5	14,5	13,0	17	12	10	24,0
2730TR1886	G1/8"	8/6	8	22,5	14,0	15,5	13	14	10	25,0
2730TR1486	G1/4"	8/6	10	22,5	14,5	15,5	17	14	10	29,0
2730TR14108	G1/4"	10/8	10	24,0	14,5	18,5	17	17	10	35,0

2740

Male tee BSPT thread



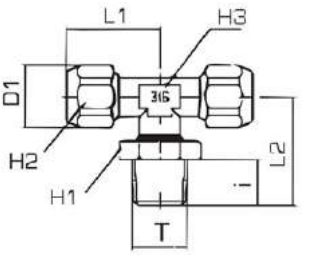


CODE	T	ØD	I	L1	L2	D1	H1	H2	GR.
2740TR1864	R1/8"	6/4	9	22,5	18,5	13,0	10	12	36,0
2740TR1464	R1/4"	6/4	10,5	22,5	21,0	13,0	10	12	44,0
2740TR1886	R1/8"	8/6	9	22,5	18,5	15,5	10	14	31,0
2740TR1486	R1/4"	8/6	10,5	22,5	21,0	15,5	10	14	36,0
2740TR18108	R1/8"	10/8	9	25,0	18,5	18,5	10	17	36,0
2740TR14108	R1/4"	10/8	10,5	25,0	21,0	18,5	10	17	74,0
2740TR38108	R3/8"	10/8	11,5	27,0	25,0	18,5	13	17	70,0
2740TR381210	R3/8"	12/10	11,5	29,0	25,0	21,0	13	19	74,0
2740TR121210	R1/2"	12/10	14,0	30,5	29,0	21,0	17	19	74,0

2745

Swivel male tee BSPT thread



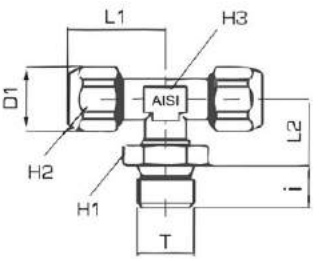


CODE	T	ØD	I	L1	L2	D1	H1	H2	H3	GR.
2745TR1864	R1/8"	6/4	7,5	22,5	21,5	13,0	13	12	10	35,0
2745TR1464	R1/4"	6/4	11,0	22,5	25,5	13,0	17	12	10	39,0
2745TR1886	R1/8"	8/6	7,5	22,5	21,5	15,0	13	14	10	38,0
2745TR1486	R1/4	8/6	11,0	22,5	25,5	15,0	17	14	10	42,0
2745TR14108	R1/4"	10/8	11,0	24,0	25,5	18,5	17	17	10	40,0

2750

Swivel male tee BSPP thread



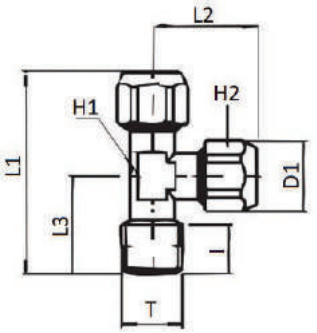


CODE	T	ØD	I	L1	L2	D1	H1	H2	H3	GR.
2750TR1864	G1/8"	6/4	8	22,5	14,0	13,0	13	12	10	36,0
2750TR1464	G1/4"	6/4	10	22,5	14,5	13,0	17	12	10	38,0
2750TR1886	G1/8"	8/6	8	22,5	14,0	15,0	13	14	10	37,0
2750TR1486	G1/4"	8/6	10	22,5	14,5	15,0	17	14	10	41,0
2750TR14108	G1/4"	10/8	10	24,0	14,5	18,5	17	17	10	54,0

2760

Lateral male tee BSPT thread



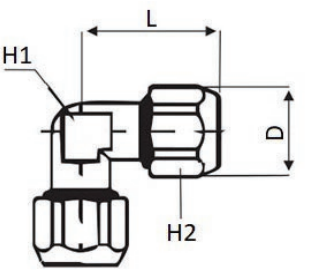


CODE	T	ØD	I	L1	L2	L3	D1	H1	H2	GR.
2760TR1864	R1/8"	6/4	9,0	41,0	22,5	18,5	13,0	10	12	35,0
2760TR1464	R1/4"	6/4	10,5	43,5	22,5	21,0	13,0	10	12	40,0
2760TR1886	R1/8"	8/6	9,0	41,0	22,5	18,5	15,0	10	14	35,0
2760TR1486	R1/4"	8/6	10,5	43,5	22,5	21,0	15,0	10	14	35,0
2760TR18108	R1/8"	10/8	9,0	43,5	25,0	18,5	18,5	10	17	35,0
2760TR14108	R1/4"	10/8	10,5	46,0	25,0	21,0	18,5	10	17	40,0
2760TR38108	R3/8"	10/8	11,5	52,0	27,0	25,0	18,5	13	17	70,0

2770

Union elbow connector

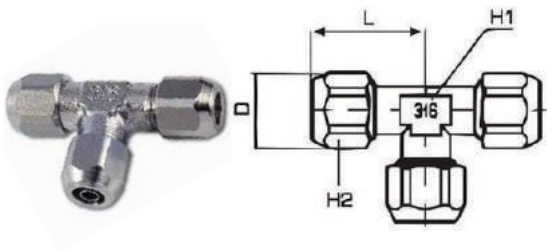




CODE	ØD	L	D1	H1	H2	GR.
2770TR64	6/4	22,5	13,0	10	12	29,0
2770TR86	8/6	22,5	13,5	10	14	29,0
2770TR108	10/8	25,0	15,5	10	17	70,0
2770TR1210	12/10	29,0	21,0	13	19	40,0

2780

Union tee connector

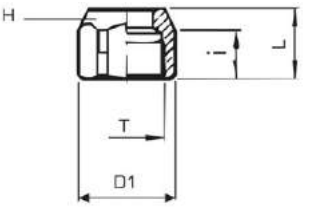


CODE	ØD-A	ØD-B	L	D1	H1	H2	GR.
2780TR64	6/4	6/4	22,5	13,0	10	12	37,0
2780TR86	8/6	8/6	22,5	15,6	10	14	39,0
2780TR108	10/8	10/8	25,0	18,5	10	17	61,0
2780TR1210	12/10	12/10	29,0	21,0	13	19	115,0

2790

Locking nut



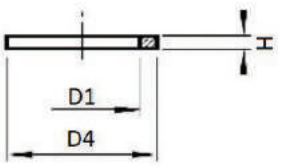


CODE	T	ØD	L	I	D1	H	GR.
2790TRM10164	M10X1	6/4	11,5	8,0	13,1	12	5,0
2790TRM12186	M12X1	8/6	11,5	8,0	15,3	14	6,0
2790TRM141108	M14X1	10/8	13,5	9,5	18,5	17	13,0
2790TRM1611210	M16X1	12/10	14,5	9,0	21,0	19	15,0

2612

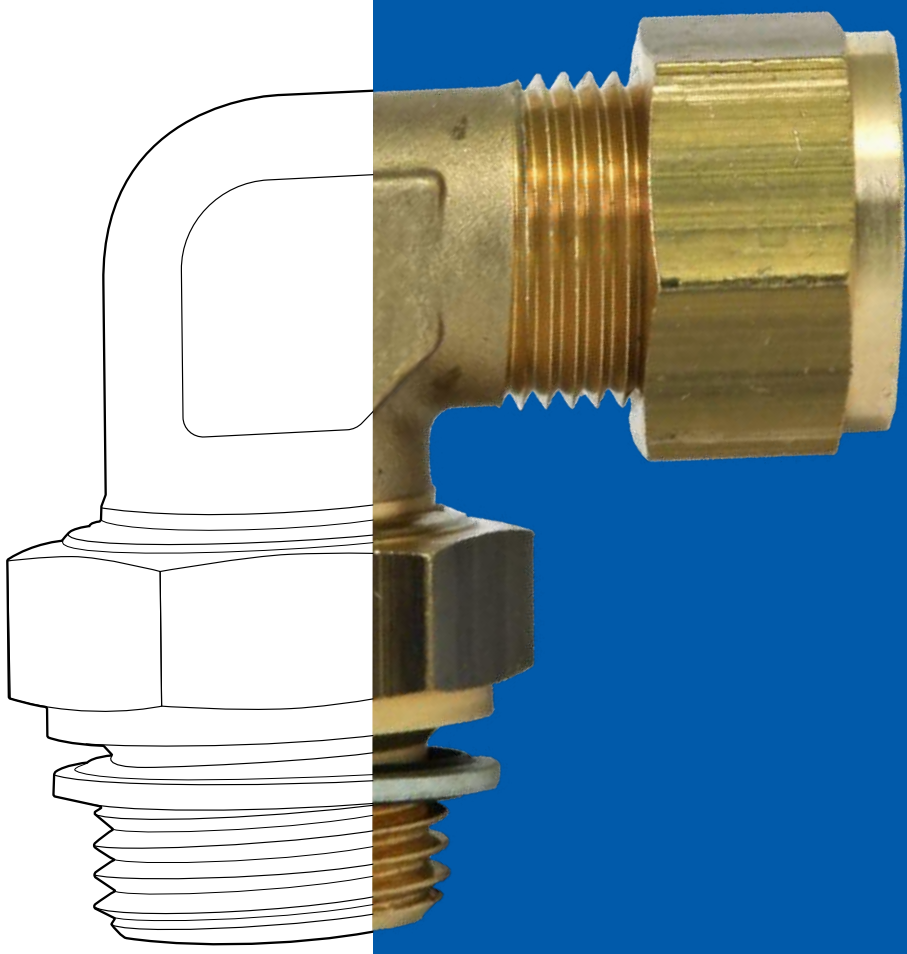
PVC washer





CODE	THREAD	D4	D1	H	GR.
2612TR18	G1/8″	14,0	10,0	1,5	18,0
2612TR14	G1/4″	17,5	13,5	1,5	18,0
2612TR38	G3/8″	21,0	16,7	1,5	18,0
2612TR12	G1/2″	26,0	21,3	1,5	18,0

COMPRESSION FITTINGS



TECHNICAL INDEX



P. 207 /
BRASS UNIVERSAL COMPRESSION FITTINGS



P. 215 /
YELLOW BRASS COMPRESSION FITTINGS



P. 227 /
BRASS COMPRESSION FITTINGS



P. 235 /
COMPRESSION FITTINGS INOX AISI 316 DIN 2353

COMPRESSION FITTINGS
UNIVERSAL BRASS

PLUS

- GREAT GRIPPING SYSTEM THANKS TO THE FERRULE AND THE LOCKING NUT
- RESISTANT TO VIBRATIONS AND TO WATER HAMMERS
- USABLE WITH PLASTIC TUBES THANKS TO THE INTERNAL SUPPORT BUSH
- THE PARTICULAR SHAPE OF THE OGIVE ALLOWS IS TO SELF-CENTER BETWEEN THE NUT AND THE FITTING SEAT



p. 209 / **3100-G**



p. 210 / **3120-G**



p. 210 / **3130-G**



p. 210 / **3140-G**



p. 211 / **3150-G**

N



p. 211 / **3160-G**



p. 211 / **3170-G**



p. 212 / **3180-G**



p. 212 / **3190-G**



p. 212 / **3200-G**



p. 213 / **3210-G**



p. 213 / **3230-G**



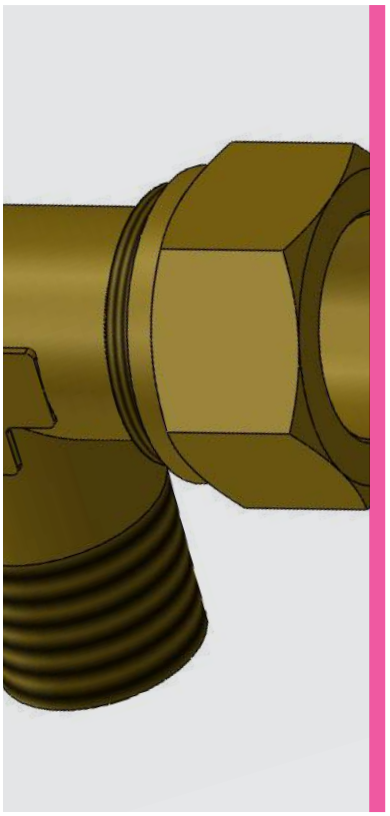
p. 213 / **3240-G**



p. 214 / **3245-G**



p. 214 / **3250**



-20°C ÷ 80°C
The temperature depend on the pipe's features used

Up to 60 Bar
Maximum working pressure depend on the pipe's features used

Air, water, oil and fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"

Metal tubes: brass, copper, steel and aluminum
Plastic tubes: polyurethane, polyethylene, Polyamide with internal reinforcement (art. 3250)

Body: Lathed yellow brass
UNI EN 12164 CW 614N
Printed yellow brass
UNI EN12165 CW 617N
Lock nut: Yellow brass
UNI EN 12164 CW 614N
Ogive: Yellow brass
UNI EN 12164 CW 614N

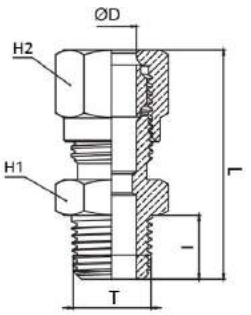
REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

3100-G

Male connector BSPT thread



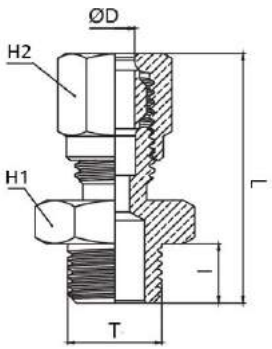


CODE	T	ØD	I	L	H1	H2	GR.
3100LL184-G	R1/8"	4	8	27	10	10	12
3100LL186-G	R1/8"	6	8	28	12	12	14
3100LL146-G	R1/4"	6	11	32,5	14	12	20
3100LL188-G	R1/8"	8	8	29,5	12	14	18
3100LL148-G	R1/4"	8	11	33	14	14	22
3100LL388-G	R3/8"	8	11,5	33	17	14	28
3100LL1410-G	R1/4"	10	11	37,5	17	19	44
3100LL3810-G	R3/8"	10	11,5	38	17	19	44
3100LL1210-G	R1/2"	10	14	40,5	22	19	59
3100LL3812-G	R3/8"	12	11,5	39	19	22	56
3100LL1212-G	R1/2"	12	14	41	22	22	67
3100LL1214-G	R1/2"	14	14	42,5	22	27	94
3100LL1215-G	R1/2"	15	14	42,5	22	27	88
3100LL1216-G	R1/2"	16	14	42	24	30	110
3100LL1218-G	R1/2"	18	14	43	26	32	124

3120-G

Male connector BSPP thread



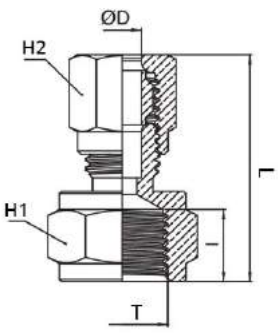


CODE	T	ØD	I	L	H1	H2	GR.
3120LL184-G	G1/8″	4	6	25	14	10	16
3120LL186-G	G1/8″	6	6	26	14	12	16
3120LL146-G	G1/4″	6	8	29,5	17	12	22
3120LL188-G	G1/8″	8	6	27,5	14	14	18
3120LL148-G	G1/4″	8	8	30	17	14	24
3120LL388-G	G3/8″	8	9	30,5	19	14	34
3120LL1410-G	G3/8″	10	9	36	19	19	42
3120LL3810-G	G1/4″	10	8	34,5	17	19	44

3130-G

Female connector BSPP thread



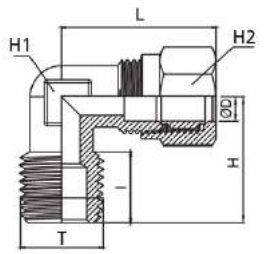


CODE	T	ØD	I	L	H1	H2	GR.
3130LL184-G	G1/8″	4	8	24,5	14	10	14
3130LL186-G	G1/8″	6	8	26	14	12	17
3130LL146-G	G1/4″	6	11	30,5	17	12	24
3130LL188-G	G1/8″	8	8	26,5	14	14	20
3130LL148-G	G1/4″	8	11	31	17	14	26
3130LL388-G	G3/8″	8	11,5	31	20	14	30
3130LL1410-G	G1/4″	10	11	35,5	17	19	44
3130LL3810-G	G3/8″	10	11,5	36,5	20	19	48
3130LL3812-G	G3/8″	12	11,5	37	20	22	58
3130LL1212-G	G1/2″	12	15	38,5	24	22	70
3130LL1214-G	G1/2″	14	15	40	24	27	98
3130LL1215-G	G1/2″	15	15	40,5	24	27	90
3130LL1216-G	G1/2″	16	15	41,5	24	30	108
3130LL1218-G	G1/2″	18	15	43	26	32	134

3140-G

Male elbow BSPT thread



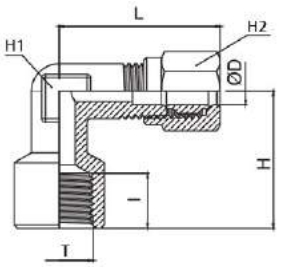


CODE	T	ØD	I	L	H	H1	H2	GR.
3140LL184-G	R1/8″	4	8	21	16	9	10	14
3140LL186-G	R1/8″	6	8	22	16	9	12	16
3140LL146-G	R1/4″	6	11	24,5	20	11	12	24
3140LL188-G	R1/8″	8	8	24	17	11	14	22
3140LL148-G	R1/4″	8	11	24	20	11	14	26
3140LL388-G	R3/8″	8	11,5	27	24	13	14	36
3140LL1410-G	R1/4″	10	11	32	23,5	13	19	48
3140LL3810-G	R3/8″	10	11,5	32	24	13	19	52
3140LL1210-G	R1/2″	10	14	34	28,5	15	19	66
3140LL3812-G	R3/8″	12	11,5	34,5	25,5	15	22	69
3140LL1212-G	R1/2″	12	14	34,5	28,5	15	22	74
3140LL1214-G	R1/2″	14	14	38	30	17	27	106
3140LL1215-G	R1/2″	15	14	38	30	17	27	100
3140LL1216-G	R1/2″	16	14	39,5	31,5	19	30	124
3140LL1218-G	R1/2″	18	14	44	34	22	32	156

3150-G

Female elbow BSPP thread



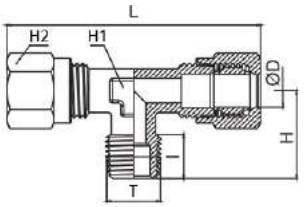


CODE	T	ØD	I	L	H	H1	H2	GR.
3150LL184-G	G1/8"	4	8	22	20	9	10	18
3150LL186-G	G1/8"	6	8	24	20	9	12	20
3150LL146-G	G1/4"	6	11	27	25,5	13	12	40
3150LL188-G	G1/8"	8	8	24	20	11	14	26
3150LL148-G	G1/4"	8	11	27,5	25,5	13	14	40

3160-G

Male tee BSPT thread



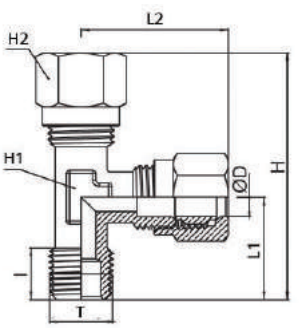


CODE	T	ØD	I	L	H	H1	H2	GR.
3160LL184-G	R1/8"	4	8	42	16	9	10	22
3160LL186-G	R1/8"	6	8	46	16	9	12	26
3160LL146-G	R1/4"	6	11	48	20	11	12	34
3160LL188-G	R1/8"	8	8	48	17	11	14	34
3160LL148-G	R1/4"	8	11	48	20	11	14	38
3160LL388-G	R3/8"	8	11,5	54	24	13	14	52
3160LL1410-G	R1/4"	10	11	64	23,5	13	19	80
3160LL3810-G	R3/8"	10	11,5	64	24	13	19	84
3160LL3812-G	R3/8"	12	11,5	69	25,5	15	22	108
3160LL1212-G	R1/2"	12	14	69	28,5	15	22	116
3160LL1214-G	R1/2"	14	14	76	30	17	27	176
3160LL1215-G	R1/2"	15	14	76	30	17	27	170
3160LL1216-G	R1/2"	16	14	79	31,5	19	30	212
3160LL1218-G	R1/2"	18	14	88	34	22	32	256

3170-G

Lateral male tee BSPT thread



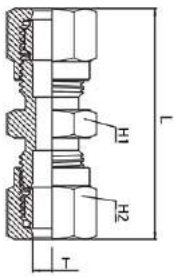


CODE	T	ØD	I	L1	L2	H	H1	H2	GR.
3170LL184-G	R1/8"	4	8	16	21	37	9	10	22
3170LL186-G	R1/8"	6	8	16	23	39	9	10	26
3170LL146-G	R1/4"	6	11	20	24,5	44,5	11	12	34
3170LL188-G	R1/8"	8	8	17	24	41	11	14	34
3170LL148-G	R1/4"	8	11	20	24	44	11	14	38
3170LL388-G	R3/8"	8	11,5	24	27	51	13	14	52
3170LL1410-G	R1/4"	10	11	23,5	32	55,5	13	19	80
3170LL3810-G	R3/8"	10	11,5	24	32	56	13	19	84
3170LL3812-G	R3/8"	12	11,5	25,5	34,5	60	15	22	110
3170LL1212-G	R1/2"	12	14	28,5	34,5	63	15	22	118
3170LL1214-G	R1/2"	14	14	30	38	68	17	27	176
3170LL1215-G	R1/2"	15	14	30	38	68	17	27	170
3170LL1216-G	R1/2"	16	14	31,5	39,5	71	19	30	210
3170LL1218-G	R1/2"	18	14	34	44	78	22	32	256

3180-G

Union connector



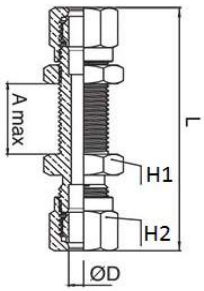


CODE	ØD	L	H1	H2	GR.
3180LL4-G	4	33,5	10	10	16
3180LL6-G	6	36,5	12	12	20
3180LL8-G	8	38,5	14	14	28
3180LL10-G	10	47,5	17	19	66
3180LL12-G	12	50,5	19	22	84
3180LL14-G	14	55,5	24	27	148
3180LL15-G	15	55,5	24	27	140
3180LL16-G	16	58	24	30	177
3180LL18-G	18	60	26	32	198

3190-G

Bulkhead connector



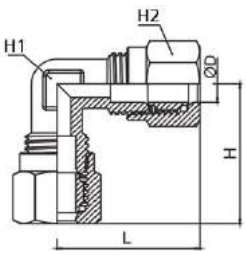


CODE	ØD	A MAX	L	H1	H2	GR.
3190LL6-G	6	15,5	51,5	14	12	32
3190LL8-G	8	16,5	55,5	16	14	42
3190LL10-G	10	15,5	62,5	19	19	90
3190LL12-G	12	16	64,5	22	22	116
3190LL14-G	14	18	69,5	25	27	192
3190LL15-G	15	18	69,5	25	27	184

3200-G

Union elbow connector



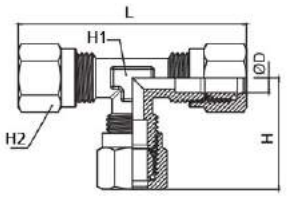


CODE	ØD	L	H	H1	H2	GR.
3200LL4-G	4	21	21	9	10	18
3200LL6-G	6	23	23	9	12	22
3200LL8-G	8	24	24	11	14	30
3200LL10-G	10	32	32	13	19	70
3200LL12-G	12	34,5	34,5	15	22	94
3200LL14-G	14	38	38	17	27	152
3200LL15-G	15	38	38	17	27	144
3200LL16-G	16	39,5	39,5	19	30	186
3200LL18-G	18	44	44	22	32	228

3210-G

Union tee connector



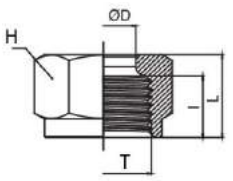


CODE	ØD	L	H	H1	H2	GR.
3210LL4-G	4	42	21	9	10	26
3210LL6-G	6	46	23	9	12	30
3210LL8-G	8	48	24	11	14	42
3210LL10-G	10	64	32	13	19	102
3210LL12-G	12	69	34,5	15	22	136
3210LL14-G	14	76	38	17	27	226
3210LL15-G	15	76	38	17	27	208
3210LL16-G	16	79	39,5	19	30	272
3210LL18-G	18	88	44	22	32	330

3230-G

Locking nut



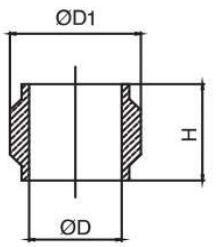


CODE	T	ØD	I	L	H	GR.
3230LLM814-G	M8X1	4	7,5	11	10	4,2
3230LLM1016-G	M10X1	6	8,5	11,5	12	5,5
3230LLM1218-G	M12X1	8	9	12	14	7
3230LLM161510-G	M16X1,5	10	11,5	15,5	19	18
3230LLM181512-G	M18X1,5	12	11,5	15,5	22	25
3230LLM221514-G	M22X1,5	14	12	17,5	27	44
3230LLM221515-G	M22X1,5	15	12	17	27	42
3230LLM241516-G	M24X1,5	16	12	17,5	30	56
3230LLM261518-G	M26X1,5	18	12,5	18,5	32	64

3240-G

Ferrule



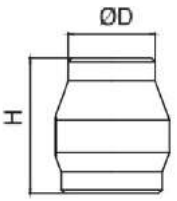


CODE	ØD	ØD1	H	GR.
3240LL4-G	4	7	6	1
3240LL6-G	6	8,5	6,5	1,5
3240LL8-G	8	11	7	2
3240LL10-G	10	13	8	2,5
3240LL12-G	12	15	8,5	3
3240LL14-G	14	17	8,5	3,5
3240LL15-G	15	18	8,5	4
3240LL16-G	16	19	9	4,5
3240LL18-G	18	21	9,5	5

3245-G

Plug for universal fitting



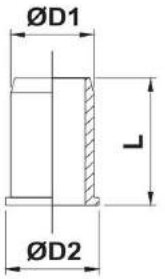


CODE	ØD	H	GR.
3245LL4-G	4	9	-
3245LL6-G	6	9,5	-
3245LL8-G	8	9,5	-
3245LL10-G	10	11	-
3245LL12-G	12	11,5	-
3245LL14-G	14	13,5	-
3245LL15-G	15	13,5	-
3245LL16-G	16	13,5	-
3245LL18-G	18	15	-

3250

Support bush





CODE	TUBO OD	D1	D2	L	GR.
3250TR4	4	2,5	3,5	10,0	0,20
3250TR6	6	4,0	5,5	12,0	0,60
3250TR8	8	6,0	7,5	13,0	1,00
3250TR10	10	8,0	9,5	14,0	1,40
3250TR12	12	10,0	11,5	16,0	2,20
3250TR14	14	12,0	13,5	16,0	2,60
3250TR15	15	12,5	14,5	17,0	2,80
3250TR16	16	14,0	15,5	18,0	3,40

UNIVERSAL COMPRESSION FITTINGS
YELLOW BRASS

PLUS

- GREAT GRIPPING SYSTEM THANKS TO THE FERRULE AND THE LOCKING NUT
- RESISTANT TO VIBRATIONS AND TO WATER HAMMERS
- SUITABLE WITH DIESEL FOR DOMESTIC HEATING
- USABLE WITH PLASTIC TUBES THANKS TO THE INTERNAL SLEEVE WITHOUT REDUCTION FLOW DIAMETER
- EXCELLENT DURABILITY OVERTIME WITH EXCELLENT PERFORMANCE
- HIGH STRENGHT BRASS FOR GREATER MECHANICAL RELIABILITY
- RANGE FROM Ø4 TO Ø28 MM



p. 218 / **3400**



p. 219 / **3422**



p. 219 / **3430**



p. 220 / **3440**



p. 220 / **3442**



p. 221 / **3460**



p. 221 / **3465**



p. 222 / **3480**



p. 222 / **3490**



p. 222 / **3500**



p. 223 / **3510**



p. 223 / **3520**



p. 223 / **3530**



p. 224 / **3540**



p. 224 / **3552**



p. 224 / **3560**



p. 225 / **3572**



p. 225 / **3467**



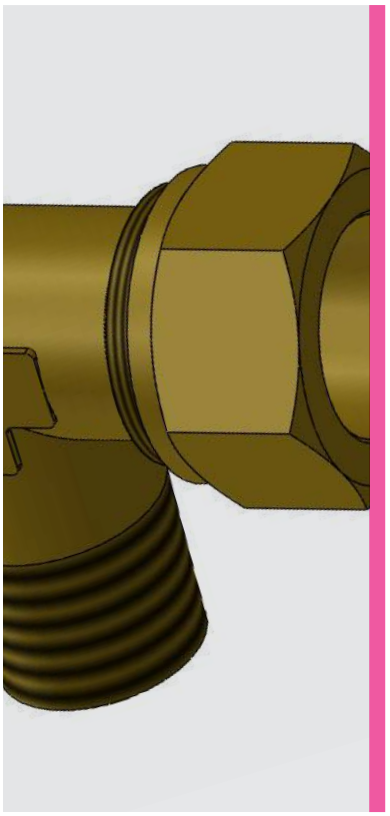
p. 225 / **3468**



p. 226 / **AS**



p. 226 / **AS-PU**



0°C ÷ 80°C

Up to 100 Bar
Meanwhile, for each dimensions, pressure are function of the quality of the tube, condition, thickness and the maximal using temperature. Also mechanical constraints reduce the level of pressure application

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1"
Parallel gas BSPP ISO 228
from G1/8" to G1"

Metal tubes: brass, copper
Plastic tubes: self fastening tube AS to be used with our 3467 and 3468.

Body: Lathed yellow brass UNI EN 12164 CW 614N
Printed yellow brass UNI EN12165 CW 617N
Lock nut: Yellow brass UNI EN 12164 CW 614N
Ogive: Yellow brass UNI EN 12164 CW 614N

Available on demand NPT thread

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

INSTRUCTION FOR ASSEMBLY

- Cut the tube and remove the internal and external burrs
- Insert the nut into the tube and lubricated the thread insert
- Put the ogive on the final part of the tube
- Push the tube until is stopped into the fittings
- Screw the lubrificated in order to obtain the tube secured tank to grip of the ogive

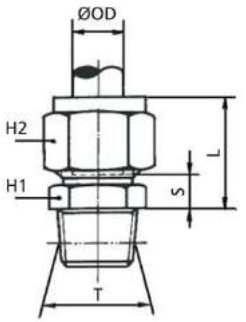
TIGHTENING TORQUE

TUBES Ø	4	6	8	10	12	14	16	18	20	22	28
MAXIMUM TORQUE	0,8 Kg/m	1,6 Kg/m	1,6 Kg/m	1,9 Kg/m	3 Kg/m	3,5 Kg/m	5 Kg/m	6 Kg/m	6 Kg/m	7 Kg/m	9 Kg/m

3400

Male connector BSPT thraed



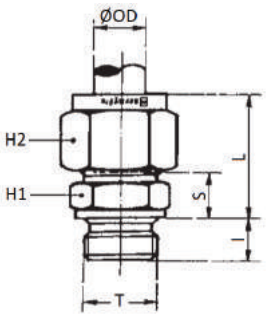


CODE	T	ØOD	L	S	H1	H2	GR.
3400TR184	R1/8"	4	17,0	7,0	10	10	-
3400TR144	R1/4"	4	20,0	9,5	14	10	-
3400TR186	R1/8"	6	18,0	7,5	11	13	18,0
3400TR146	R1/4"	6	18,0	7,5	14	13	25,0
3400TR386	R3/8"	6	19,0	8,5	17	13	-
3400TR188	R1/8"	8	19,5	7,0	13	14	22,0
3400TR148	R1/4"	8	19,5	7,0	14	14	27,0
3400TR388	R3/8"	8	20,5	8,0	17	14	33,0
3400TR1810	R1/8"	10	24,0	9,0	17	19	-
3400TR1410	R1/4"	10	24,0	9,0	17	19	48,0
3400TR3810	R3/8"	10	24,0	9,0	17	19	49,0
3400TR1210	R1/2"	10	25,0	10,0	22	19	67,0
3400TR1412	R1/4"	12	24,0	9,0	19	22	-
3400TR3812	R3/8"	12	24,0	9,0	19	22	-
3400TR1212	R1/2"	12	25,0	10,0	22	22	-
3400TR1414	R1/4"	14	26,0	10,5	22	24	-
3400TR3814	R3/8"	14	25,0	8,0	22	24	70,0
3400TR1214	R1/2"	14	26,0	9,0	22	24	80,0
3400TR1216	R1/2"	16	27,0	9,5	24	27	101,0
3400TR3416	R3/4"	16	28,0	10,5	27	27	-
3400TR1218	R1/2"	18	30,0	10,5	27	30	132,0
3400TR3418	R3/4"	18	30,0	10,5	27	30	143,0
3400TR1220	R1/2"	20	32,0	11,0	30	32	-
3400TR3420	R3/4"	20	32,0	11,0	30	32	-
3400TR1222	R1/2"	22	33,0	11,0	32	36	-
3400TR3422	R3/4"	22	33,0	11,0	32	36	195,0
3400TR122	R1"	22	33,0	11,0	36	36	225,0
3400TR128	R1"	28	36,0	11,0	41	42	-

3422

Male connector BSPP thread with seal



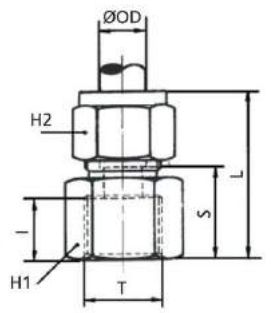


CODE	T	ØOD	L	I	S	H1	H2
3422TR184	G1/8"	4	16,5	6,5	8,0	13	10
3422TR186	G1/8"	6	18,0	6,5	8,5	13	13
3422TR146	G1/4"	6	18,0	8,0	9,5	17	13
3422TR188	G1/8"	8	19,0	6,5	8,5	13	14
3422TR148	G1/4"	8	19,5	8,0	9,0	17	14
3422TR388	G3/8"	8	24,5	10,8	11,0	22	14
3422TR1410	G1/4"	10	24,0	8,0	11,0	17	19
3422TR3810	G3/8"	10	24,0	11,0	11,5	22	19
3422TR1412	G1/4"	12	24,0	8,0	11,0	19	22
3422TR3814	G3/8"	14	25,0	11,0	10,5	22	24
3422TR1214	G1/2"	14	25,0	12,0	11,0	27	24
3422TR3816	G3/8"	16	27,0	11,0	12,0	22	27
3422TR1216	G1/2"	16	27,0	12,0	12,5	27	27
3422TR1218	G1/2"	18	29,5	12,0	12,5	27	30
3422TR3418	G3/4"	18	29,5	13,0	13,0	32	30
3422TR3422	G3/4"	22	32,0	13,0	13,0	32	36
3422TR122	G1"	22	32,0	15,0	13,5	41	36
3422TR128	G1"	28	35,5	15,0	13,5	41	42

3430

Female connector BSPP thread



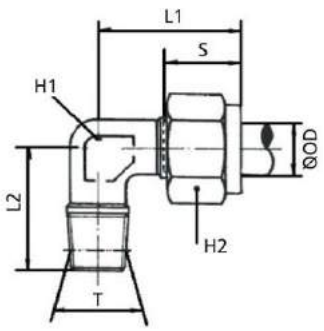


CODE	T	ØOD	I	S	L	H1	H2	GR.
3430TR184	G1/8"	4	9,5	16,5	26	14	10	-
3430TR144	G1/4"	4	13,5	20,5	30	17	10	-
3430TR186	G1/8"	6	9,5	17,0	28	14	13	26,0
3430TR146	G1/4"	6	13,5	21,0	32	17	13	35,0
3430TR188	G1/8"	8	9,5	16,5	29	14	14	28,0
3430TR148	G1/4"	8	13,5	20,5	33	17	14	36,0
3430TR388	G3/8"	8	14,0	21,0	34	22	14	53,0
3430TR1410	G1/4"	10	13,5	21,5	37	17	19	52,0
3430TR3810	G3/8"	10	14,0	22,0	37	22	19	70,0
3430TR1210	G1/2"	10	18,5	26,5	42	27	19	102,0
3430TR3814	G3/8"	14	14,0	21,0	38	22	24	82,0
3430TR1214	G1/2"	14	18,5	25,5	43	27	24	113,0
3430TR1216	G1/2"	16	18,5	26,0	44	27	27	-
3430TR1218	G1/2"	18	18,5	26,0	45	27	30	147,0
3430TR3418	G3/4"	18	19,5	27,0	46	32	30	169,0
3430TR3422	G3/4"	22	19,5	26,5	48	32	36	205,0

3440

Male elbow BSPT thread



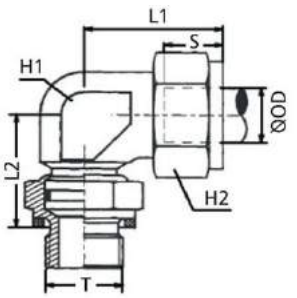


CODE	T	ØD	L1	L2	S	H1	H2	GR.
3440TR184	R1/8″	4	19,0	17,0	12,0	8	10	-
3440TR144	R1/4″	4	19,0	20,0	12,0	10	10	-
3440TR186	R1/8″	6	22,0	18,0	13,0	8	13	22,0
3440TR146	R1/4″	6	22,0	21,5	13,0	10	13	31,0
3440TR188	R1/8″	8	28,0	18,5	15,0	10	14	29,0
3440TR148	R1/4″	8	28,0	22,0	15,0	10	14	34,0
3440TR388	R3/8″	8	28,0	24,0	15,0	12	14	45,0
3440TR1410	R1/4″	10	30,0	25,0	17,0	12	19	53,0
3440TR3810	R3/8″	10	30,0	25,5	17,0	12	19	62,0
3440TR1210	R1/2″	10	36,0	32,0	17,0	19	19	107,0
3440TR1412	R1/4″	12	30,0	26,0	18,0	15	22	-
3440TR3812	R3/8″	12	30,0	27,0	18,0	15	22	-
3440TR1212	R1/2″	12	36,0	32,0	18,0	19	22	-
3440TR3814	R3/8″	14	35,0	30,0	18,0	19	24	105,0
3440TR1214	R1/2″	14	35,0	32,0	18,0	19	24	109,0
3440TR3816	R3/8″	16	39,0	30,0	21,0	19	27	-
3440TR1216	R1/2″	16	39,0	33,5	21,0	19	27	135,0
3440TR3416	R3/4″	16	41,0	36,5	21,0	23	27	-
3440TR1218	R1/2″	18	41,0	35,5	21,5	23	30	176,0
3440TR3418	R3/4″	18	41,0	36,5	21,5	23	30	203,0
3440TR3420	R3/4″	20	42,0	38,0	21,5	23	32	-
3440TR3422	R3/4″	22	50,0	40,0	25,0	27	36	296,0
3440TR122	R1″	22	50,0	44,0	25,0	27	36	324,0
3440TR128	R1″	28	54,0	48,0	30,0	32	42	-

3442

Swivel male elbow BSPP thread



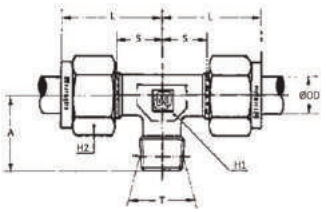


CODE	T	ØD	L1	L2	S	H1	H2	GR.
3442TR184	G1/8″	4	19,0	16,0	12,0	8	10	-
3442TR144	G1/4″	4	19,0	22,0	12,0	10	10	-
3442TR186	G1/8″	6	22,0	16,0	13,0	8	13	23,0
3442TR146	G1/4″	6	22,0	22,0	13,0	10	13	31,0
3442TR188	G1/8″	8	28,0	18,5	15,0	10	14	29,0
3442TR148	G1/4″	8	28,0	22,0	15,0	10	14	34,0
3442TR388	G3/8″	8	28,0	24,0	15,0	12	14	43,0
3442TR1410	G1/4″	10	30,0	22,0	17,0	12	19	53,0
3442TR3810	G3/8″	10	30,0	24,0	17,0	12	19	64,0
3442TR1210	G1/2″	10	30,0	29,5	17,0	19	19	102,0
3442TR3814	G3/8″	14	35,0	25,0	18,0	19	24	105,0
3442TR1214	G1/2″	14	35,0	29,5	18,0	19	24	108,0
3442TR1218	G1/2″	18	41,0	30,5	21,0	23	30	174,0
3442TR3418	G3/4″	18	41,0	32,8	21,5	23	30	202,0
3442TR3422	G3/4″	22	50,0	32,8	25,0	27	36	295,0
3442TR122	G1″	22	50,0	43,5	25,0	27	36	323,0
3442TR128	G1″	28	54,0	43,5	30,0	32	42	-

3460

Tee male BSPT thread



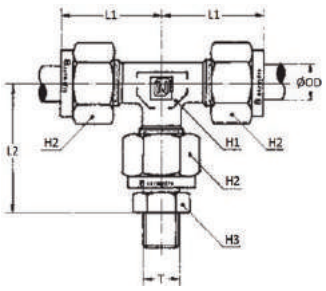


CODE	T	ØOD	L	S	A	H1	H2	GR.
3460TR184	R1/8″	4	19,0	9,5	17,0	8	10	-
3460TR185	R1/8″	5	21,0	11,0	17,5	8	12	-
3460TR186	R1/8″	6	22,0	11,0	18,0	8	13	-
3460TR146	R1/4″	6	27,0	16,0	21,5	10	13	-
3460TR188	R1/8″	8	28,0	15,0	18,5	10	14	-
3460TR148	R1/4″	8	28,0	15,0	22,0	10	14	-
3460TR1410	R1/4″	10	30,0	14,5	25,0	12	19	-
3460TR3810	R3/8″	10	30,0	14,5	25,5	12	19	-
3460TR3812	R3/8″	12	30,0	15,0	27,0	15	22	-
3460TR3814	R3/8″	14	35,0	18,0	30,0	19	24	-
3460TR1214	R1/2″	14	35,0	18,0	32,0	19	24	-
3460TR3815	R3/8″	15	35,0	18,0	30,0	19	24	-
3460TR1215	R1/2″	15	35,0	18,0	32,0	19	24	-
3460TR3816	R3/8″	16	39,0	21,0	30,0	19	27	-
3460TR1216	R1/2″	16	39,0	21,0	33,5	19	27	-

3465

Swivel tee male BSPP thread



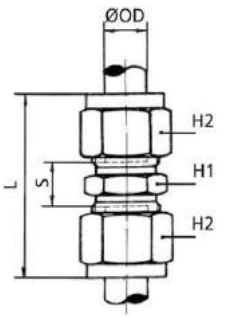


CODE	T	ØOD	L1	L2	H1	H2	H3	GR.
3465TR184	G1/8″	4	19,0	25,0	8	10	13	-
3465TR144	G1/4″	4	19,0	27,0	8	10	17	-
3465TR186	G1/8″	6	22,0	28,0	8	13	13	-
3465TR146	G1/4″	6	22,0	30,0	8	13	17	-
3465TR188	G1/8″	8	28,0	34,0	10	14	13	-
3465TR148	G1/4″	8	28,0	36,0	10	14	17	-
3465TR1410	G1/4″	10	30,0	38,0	12	19	17	-
3465TR3810	G3/8″	10	30,0	38,5	12	19	22	-
3465TR3814	G3/8″	14	35,0	43,5	19	24	22	-
3465TR1214	G1/2″	14	35,0	44,5	19	24	27	-
3465TR1218	G1/2″	18	41,0	50,5	23	30	27	-
3465TR3418	G3/4″	18	41,0	51,5	23	30	32	-
3465TR3422	G3/4″	22	50,0	60,5	27	36	32	-
3465TR122	G1″	22	50,0	61,0	27	36	41	-
3465TR128	G1″	28	55,0	66,0	32	42	41	-

3480

Union connector



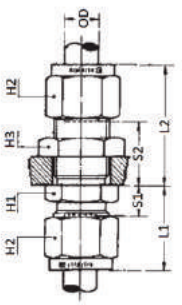


CODE	ØD	S	L	H1	H2	GR.
3480TR4	4	10,0	28,0	10	10	-
3480TR6	6	11,0	32,0	11	13	19,0
3480TR8	8	10,0	36,0	13	14	28,0
3480TR10	10	13,0	42,0	17	19	69,0
3480TR12	12	13,0	42,0	19	22	-
3480TR14	14	11,0	45,0	22	24	151,0
3480TR16	16	13,0	48,0	24	27	180,0
3480TR18	18	14,0	53,0	27	30	201,0
3480TR20	20	14,0	56,0	30	32	-
3480TR22	22	14,0	60,0	32	36	225,0
3480TR28	28	14,0	64,0	42	41	-

3490

Bulkhead union connector



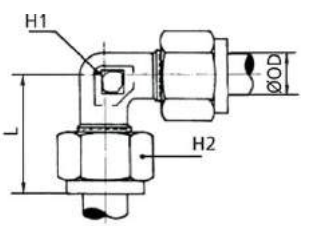


CODE	ØOD	L1	L2	S1	S2	H1	H2	H3	GR.
3490TR4	4	17,0	27,0	7,0	17,0	10	10	13	-
3490TR6	6	19,0	28,0	7,5	17,5	13	13	14	-
3490TR8	8	20,0	29,0	7,0	17,0	14	14	17	-
3490TR10	10	25,0	33,0	9,0	19,0	19	19	22	-
3490TR12	12	25,0	33,0	9,0	19,0	22	22	22	-
3490TR14	14	25,0	35,0	8,0	18,0	24	24	24	-
3490TR18	18	30,0	40,0	10,5	20,5	27	30	30	-
3490TR22	22	32,0	42,0	11,0	21,0	36	36	36	-
3490TR28	28	40,0	52,0	19,0	30,0	42	42	42	-

3500

Union elbow



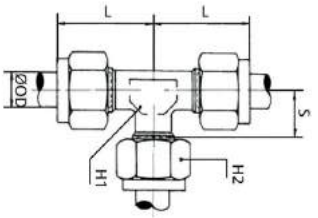


CODE	ØD	L	H1	H2	GR.
3500TR4	4	19,0	5	10	-
3500TR6	6	22,0	8	13	26,0
3500TR8	8	28,0	10	14	34,0
3500TR10	10	30,0	12	19	74,0
3500TR12	12	30,0	15	22	-
3500TR14	14	35,0	19	24	156,0
3500TR16	16	39,0	19	27	190,0
3500TR18	18	41,0	23	30	232,0
3500TR20	20	42,0	23	32	-
3500TR22	22	50,0	27	36	254,0
3500TR28	28	54,5	32	42	-

3510

Union tee



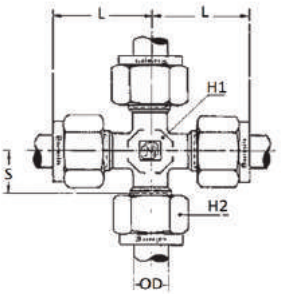


CODE	ØD	S	L	H1	H2	GR.
3510TR4	4	9,5	19,0	8	10	-
3510TR6	6	11,0	22,0	8	13	33,0
3510TR8	8	15,0	28,0	10	14	45,0
3510TR10	10	14,5	30,0	12	19	105,0
3510TR12	12	15,0	30,0	15	22	-
3510TR14	14	18,0	35,0	19	24	230,0
3510TR16	16	21,0	39,0	19	27	275,0
3510TR18	18	21,5	41,0	23	30	333,0
3510TR20	20	21,5	42,0	23	32	-
3510TR22	22	29,0	50,0	27	36	364,0
3510TR28	28	30,0	55,0	32	42	-

3520

Union Cross



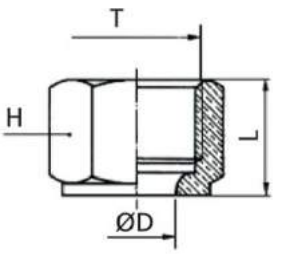


CODE	ØD	S	L	H1	H2	GR.
3520TR6	6	11,0	22,0	8	12	-
3520TR8	8	15,0	28,0	11	14	-
3520TR10	10	15,0	30,0	14	19	-
3520TR12	12	15,0	30,0	15	22	-
3520TR14	14	18,0	35,0	20	24	-
3520TR16	16	21,0	39,0	20	27	-
3520TR18	18	21,5	41,0	25	30	-
3520TR20	20	21,5	42,0	25	32	-
3520TR22	22	29,0	50,0	27	36	-

3530

Locking nut



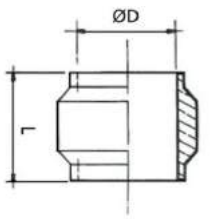


CODE	ØD	T	L	H	GR.
3530TR4	4	M8X1	11,0	10	-
3530TR6	6	M10X1	11,0	13	5,4
3530TR8	8	M12X1	13,0	14	7,0
3530TR10	10	M16X1,5	15,0	19	18,2
3530TR12	12	M18X1,5	15,0	22	-
3530TR14	14	M20X1,5	15,0	24	44,3
3530TR16	16	M22X1,5	17,0	27	55,6
3530TR18	18	M24X1,5	18,0	30	64,2
3530TR20	20	M27X1,5	18,0	32	-
3530TR22	22	M30X1,5	19,0	36	76,3
3530TR28	28	M36X1,5	21,0	42	-

3540

Ogive



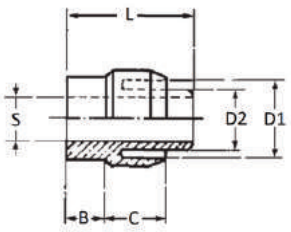


CODE	ØD	L	GR.
3540TR4	4	6,0	-
3540TR6	6	6,5	0,82
3540TR8	8	7,0	1,12
3540TR10	10	8,0	3,30
3540TR12	12	8,0	-
3540TR14	14	8,5	4,42
3540TR16	16	9,0	5,00
3540TR18	18	9,5	5,90
3540TR20	20	11,0	-
3540TR22	22	11,0	7,10
3540TR28	28	12,0	-

3552

Ring and internal sleeve





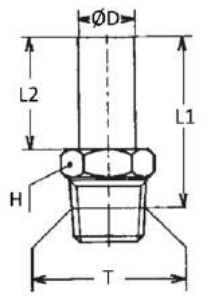
CODE	D1	D2	L	B	C	S	GR.
3552TR64	6	4	12,5	4	6	3,5	-
3552TR855	8	5,5	14,0	4	7,5	4,5	-
3552TR86	8	6	14,0	4	7,4	5	-
3552TR107	10	7	14,0	4	8,5	6,5	-
3552TR108	10	8	14,0	4	8,3	6,5	-
3552TR128	12	8	14,5	4	8,5	7,5	-
3552TR1210	12	10	14,5	4	8,5	8,5	-

The ring 3552 are designed for Polyamide tube installed in compression fittings.
Designed ensures the both functions of ring and sleeve.
The front part has the function of the ring; introduce tube in the back part of 3552 and tighten the nut to get tinghtening and tightness.
There is not reduction flow diameter.

3560

Adapter male BSPT thread



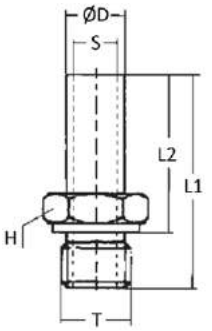


CODE	T	ØD	L1	L2	H	GR.
3560TR186	R1/8"	6	26,5	15	11	-
3560TR146	R1/4"	6	31	15	14	-
3560TR188	R1/8"	8	28,5	17	11	-
3560TR148	R1/4"	8	33	17	14	-
3560TR388	R3/8"	8	33,7	17	17	-
3560TR1410	R1/4"	10	36	20	14	-
3560TR3810	R3/8"	10	36,5	20	17	-
3560TR1210	R1/2"	10	41	20	22	-
3560TR1412	R1/4"	12	36	20	14	-
3560TR3812	R3/8"	12	36,5	20	17	-
3560TR1212	R1/2"	12	41	20	22	-
3560TR3814	R3/8"	14	38	21,5	17	-
3560TR1214	R1/2"	14	42,5	21,5	22	-
3560TR1216	R1/2"	16	44	23	22	-
3560TR1218	R1/2"	18	44,5	23,5	22	-
3560TR3418	R3/4"	18	47,5	23,5	27	-
3560TR3422	R3/4"	22	48,5	25,5	27	-

3572

Adapter male BSPP thread



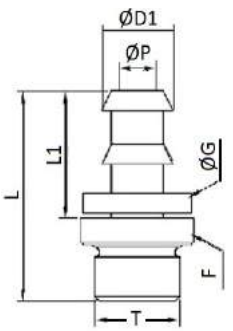


CODE	T	ØD	L1	L2	S	H	GR.
3572TR184	G1/8"	4	25,5	19	2	13	-
3572TR186	G1/8"	6	26,5	20	4	13	-
3572TR146	G1/4"	6	30	22	4	17	-
3572TR188	G1/8"	8	28,5	22	6	13	-
3572TR148	G1/4"	8	32	24	6	17	-
3572TR1410	G1/4"	10	35	27	8	17	-
3572TR3810	G3/8"	10	38,5	27,5	8	22	-
3572TR1210	G1/2"	10	40,5	28,5	8	27	-
3572TR3814	G3/8"	14	40	29	11	22	-
3572TR1214	G1/2"	14	42	30	12	27	-
3572TR1218	G1/2"	18	44	32	14	27	-
3572TR3418	G3/4"	18	46	33	16	32	-
3572TR3422	G3/4"	22	48	35	20	32	-
3572TR122	G1"	22	50,5	35,5	20	41	-
3572TR128	G1"	28	55	40	25	41	-

3467

Male barb connector BSPP thread



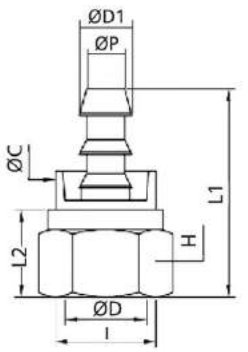


CODE	T	ØD1	DN	L	L1	F	ØG	ØP	GR.
3467TR1814	G1/8"	1/4"(6,3MM)	1/4"	31,5	20,0	13	14,0	4,0	14,0
3467TR1414	G1/4"	1/4"(6,3MM)	1/4"	35,0	20,0	17	14,0	4,0	26,0
3467TR1438	G1/4"	3/8"(9,5MM)	3/8"	39,1	24,1	17	17,0	7,5	27,0
3467TR3838	G3/8"	3/8"(9,5MM)	3/8"	42,5	24,1	22	17,0	7,5	47,0
3467TR3812	G3/8"	1/2"(12,7MM)	1/2"	46,5	28,0	22	20,5	10,0	48,0
3467TR1212	G1/2"	1/2"(12,7MM)	1/2"	48,5	28,0	27	20,5	10,0	79,0
3467TR1258	G1/2"	5/8"(15,9MM)	5/8"	56,5	36,5	27	24,0	13,5	73,0
3467TR3458	G3/4"	5/8"(15,9MM)	5/8"	58,5	36,5	32	24,0	13,5	117,0
3467TR3434	G3/4"	3/4"(19,1MM)	3/4"	65,3	43,0	32	27,0	16,0	123,0

3468

Female barb connector BSPP thread





CODE	DN	T	ØD1	D	L1	L2	ØC	E	ØP	GR.
3468TRM1014	6	M10X1	1/4"(6,3MM)	1/4"	33,5	11,0	16,5	13,0	4,0	17,0
3468TRM1214	8	M12X1	1/4"(6,3MM)	1/4"	34,5	13,0	16,5	14,0	4,8	18,0
3468TRM1614	10	M16X1,5	1/4"(6,3MM)	1/4"	35,8	15,0	16,5	19,0	4,8	33,0
3468TRM1638	10	M16X1,5	3/8"(9,5MM)	3/8"	39,3	15,0	19,5	19,0	7,5	35,0
3468TRM2038	14	M20X1,5	3/8"(9,5MM)	3/8"	39,3	15,0	19,5	24,0	7,5	52,0
3468TRM2012	14	M20X1,5	1/2"(12,7MM)	1/2"	44,0	15,0	23,5	24,0	10,0	56,0
3468TRM2212	15	M22X1,5	1/2"(12,7MM)	1/2"	45,0	17,0	23,5	27,0	10,0	77,0
3468TRM2412	16	M24X1,5	1/2"(12,7MM)	1/2"	47,0	18,0	23,5	30,0	10,0	99,0
3468TRM2458	16	M24X1,5	5/8"(15,9MM)	5/8"	55,0	18,0	27,0	30,0	13,5	97,0
3468TRM3034	22	M30X1,5	3/4"(19,1MM)	3/4"	62,0	18,5	30,0	36,0	16,0	137,0

AS

AS Self fastening



CODE	DN	INTERNAL DIAMETER	TOLERANCES	BENDING RADIUS	KG/M	LENGHT (M)
AS1/4	6	6,35	0/+0,5	20	0,18	40
AS3/8	8	9,52	0/+0,5	40	0,21	40
AS1/2	10	12,7	0/+0,8	50	0,28	40
AS5/8	12	15,87	0/+0,8	60	0,36	40
AS3/4	20	19,05	0/+0,8	100	0,38	40

Sizes ODxID	Light blue	Red	Green
1/4	AS1/4BL	AS1/4RO	AS1/4VE
3/8	AS3/8BL	AS3/8RO	AS3/8VE
1/2	AS1/2BL	AS1/2RO	AS1/2VE
5/8	AS5/8BL	AS5/8RO	AS5/8VE
3/4	AS3/4BL	AS3/4RO	AS3/4VE

AS-PU

Self-fastening tubes with polyester yarn reinforcement



CODE	ØI.D	ØI.D	ØO.D	TOTAL THINKNESS	BENDING RADIUS	WORKING PRESSURE 23°C	WORKING PRESSURE 40°C	WORKING PRESSURE 60°C	BURST PRESSURE 23°C	KG/M	LENGHT
AS-PU1/4	1/4	6,3	12,5	3,25	25	25	12	6	95	125	100
AS-PU3/8	3/8	9,5	16	3,25	50	20	10	5	80	125	100
AS-PU1/2	1/2	12,7	19	3,5	75	20	10	5	80	125	100
AS-PU5/8	5/8	16,0	23	3,75	120	17	8	4	60	250	50
AS-PU3/4	3/4	19,0	27	4	150	17	8	4	60	300	50

Sizes ODxID	Light blue	Red	Green	Black
1/4	AS-PU1/4AZ	AS-PU1/4RO	AS-PU1/4VD	AS-PU1/4NE
3/8	AS-PU3/8AZ	AS-PU3/8RO	AS-PU3/8VD	AS-PU3/8NE
1/2	AS-PU1/2AZ	AS-PU1/2RO	AS-PU1/2VD	AS-PU1/2NE
5/8	AS-PU5/8AZ	AS-PU5/8RO	AS-PU5/8VD	AS-PU5/8NE
3/4	AS-PU3/4AZ	AS-PU3/4RO	AS-PU3/4VD	AS-PU3/4NE

COMPRESSION FITTINGS
BRASS

PLUS

- GREAT GRIPPING SYSTEM THANKS TO THE FERRULE AND THE LOCKING NUT
- RESISTANT TO VIBRATIONS AND TO WATER HAMMERS
- SUITABLE WITH AIR AND OIL
- USABLE WITH PLASTIC TUBES THANKS TO THE INTERNAL SUPPORT BUSH



p. 229 / **3100**



p. 230 / **3120**



p. 230 / **3130**



p. 230 / **3140**



p. 231 / **3150**



p. 231 / **3160**



p. 231 / **3170**



p. 232 / **3180**



p. 232 / **3190**



p. 232 / **3200**



p. 233 / **3210**



p. 233 / **3230**



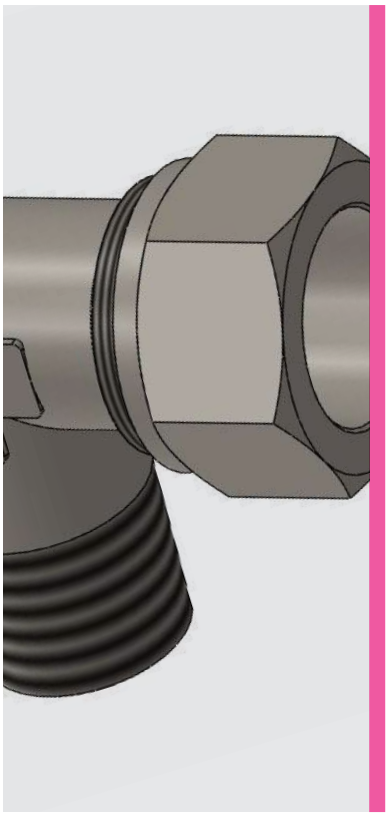
p. 233 / **3240**



p. 234 / **3250**



p. 234 / **1176**



-20°C ÷ 80°C
The temperature depend on the pipe's features used

Up to 60 Bar
Maximum working pressure depend on the pipe's features used

Compressed air, oil and fluids suitable with construction materials. Tube sites, ogives and locking nuts are manufactured in compliance with DIN 3870 – 3861.

Taper gas BSPT ISO 7
from R1/8" to R1/2"
Parallel gas BSPP ISO 228
from G1/8" to G1/2"

Metal tubes: brass, copper, steel and aluminum
Plastic tubes: polyethylene, Polyamide, PTFE, FEP using support bush (art. 3250)

Body: Lathed nickel plated brass
UNI EN 12164 CW 614N
Printed nickel plated brass
UNI EN12165 CW 617N
Lock nut: Nickel plated brass
UNI EN 12164 CW 614N
Ogive: Brass
UNI EN 12164 CW 614N

REACH

Products in compliance with the directive 2002/95/EC

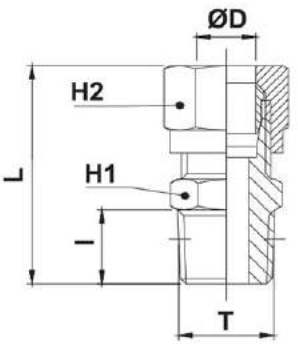
RoHS2

Products in compliance with the directive 2011/65/EU

3100

Male connector BSPT thread



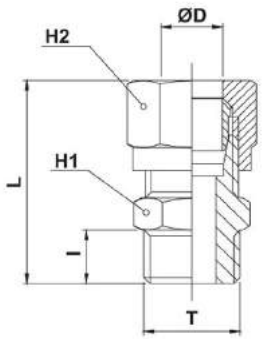


CODE	T	ØD	I	L	H1	H2	GR.
3100TR184	R1/8"	4	8,0	27,0	10	10	12,0
3100TR186	R1/8"	6	8,0	28,0	12	12	16,0
3100TR146	R1/4"	6	11,0	32,5	14	12	24,0
3100TR188	R1/8"	8	8,0	29,5	12	14	18,0
3100TR148	R1/4"	8	11,0	33,0	14	14	24,0
3100TR388	R3/8"	8	11,5	33,0	17	14	36,0
3100TR1410	R1/4"	10	11,0	37,5	17	19	44,0
3100TR3810	R3/8"	10	11,5	38,0	17	19	50,0
3100TR1210	R1/2"	10	14,0	40,5	22	19	74,0
3100TR3812	R3/8"	12	11,5	39,0	19	22	58,0
3100TR1212	R1/2"	12	14,0	41,0	22	22	78,0
3100TR1214	R1/2"	14	14,0	42,5	22	27	102,0
3100TR1215	R1/2"	15	14,0	42,5	22	27	96,0
3100TR1216	R1/2"	16	14,0	42,0	24	30	112,0
3100TR1218	R1/2"	18	14,0	43,0	26	32	126,0

3120

Male connector BSPP thread



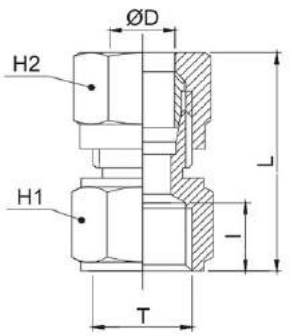


CODE	T	ØD	I	L	H1	H2	GR.
3120TR184	G1/8"	4	6,0	25,0	14	10	16,0
3120TR186	G1/8"	6	6,0	26,0	14	12	16,0
3120TR146	G1/4"	6	8,0	29,5	17	12	24,0
3120TR188	G1/8"	8	6,0	27,5	14	14	18,0
3120TR148	G1/4"	8	8,0	30,0	17	14	28,0
3120TR388	G3/8"	8	9,0	30,5	19	14	34,0
3120TR1410	G1/4"	10	8,0	34,5	17	19	44,0
3120TR3810	G3/8"	10	9,0	36,0	19	19	50,0

3130

Female connector BSPP thread



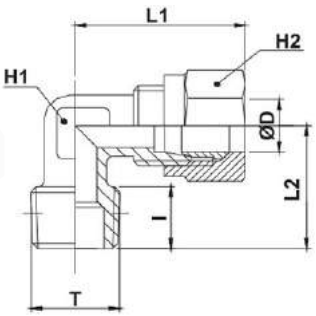


CODE	T	ØD	I	L	H1	H2	GR.
3130TR184	G1/8"	4	8,0	24,5	14	10	16,0
3130TR186	G1/8"	6	8,0	26,0	14	12	17,0
3130TR146	G1/4"	6	11,0	30,5	17	12	26,0
3130TR188	G1/8"	8	8,0	26,5	14	14	20,0
3130TR148	G1/4"	8	11,0	31,0	17	14	28,0
3130TR388	G3/8"	8	11,5	31,0	20	14	32,0
3130TR1410	G1/4"	10	11,0	35,5	17	19	46,0
3130TR3810	G3/8"	10	11,5	36,5	20	19	50,0
3130TR3812	G3/8"	12	11,5	37,0	20	22	58,0
3130TR1212	G1/2"	12	15,0	38,5	24	22	70,0
3130TR1214	G1/2"	14	15,0	40,0	24	27	98,0
3130TR1215	G1/2"	15	15,0	40,5	24	27	94,0
3130TR1216	G1/2"	16	16,0	41,5	24	30	110,0
3130TR1218	G1/2"	18	16,0	43,0	24	32	134,0

3140

Male elbow BSPT thread



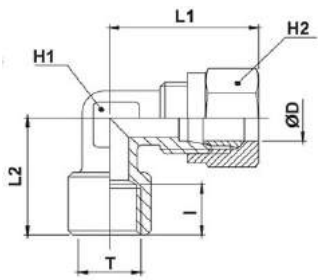


CODE	T	ØD	I	L1	L2	H1	H2	GR.
3140TR184	R1/8"	4	8,0	21,0	16,0	9	10	14,0
3140TR186	R1/8"	6	8,0	22,0	16,0	9	12	16,0
3140TR146	R1/4"	6	11,0	24,5	20,0	11	12	24,0
3140TR188	R1/8"	8	8,0	24,0	17,0	11	14	22,0
3140TR148	R1/4"	8	11,0	24,0	20,0	11	14	26,0
3140TR388	R3/8"	8	11,5	27,0	24,0	13	14	36,0
3140TR1410	R1/4"	10	11,0	32,0	23,5	13	19	48,0
3140TR3810	R3/8"	10	11,5	32,0	24,0	13	19	52,0
3140TR1210	R1/2"	10	14,0	34,0	28,5	15	19	66,0
3140TR3812	R3/8"	12	11,5	34,5	25,5	15	22	69,0
3140TR1212	R1/2"	12	14,0	34,5	28,5	15	22	74,0
3140TR1214	R1/2"	14	14,0	38,0	30,0	17	27	106,0
3140TR1215	R1/2"	15	14,0	38,0	30,0	17	27	100,0
3140TR1216	R1/2"	16	14,0	39,5	31,5	19	30	124,0
3140TR1218	R1/2"	18	14,0	44,0	34,0	22	32	156,0

3150

Female elbow BSPP thread



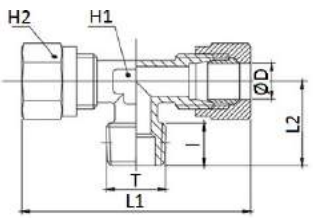


CODE	T	ØD	I	L1	L2	H1	H2	GR.
3150TR184	G1/8"	4	8,0	22,0	20,0	9	10	18,0
3150TR186	G1/8"	6	8,0	24,0	20,0	9	12	20,0
3150TR146	G1/4"	6	11,0	27,0	25,5	13	12	39,0
3150TR188	G1/8"	8	8,0	24,0	20,0	11	14	26,0
3150TR148	G1/4"	8	11,0	27,5	25,5	13	14	40,0

3160

Male tee BSPT thread



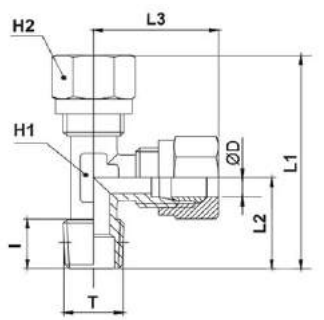


CODE	T	ØD	I	L1	L2	H1	H2	GR.
3160TR184	R1/8"	4	8,0	42,0	16,0	9	10	22,0
3160TR186	R1/8"	6	8,0	46,0	16,0	9	12	26,0
3160TR146	R1/4"	6	11,0	48,0	20,0	11	12	34,0
3160TR188	R1/8"	8	8,0	48,0	17,0	11	14	34,0
3160TR148	R1/4"	8	11,0	48,0	20,0	11	14	38,0
3160TR388	R3/8"	8	11,5	54,0	24,0	13	14	52,0
3160TR1410	R1/4"	10	11,0	64,0	23,5	13	19	80,0
3160TR3810	R3/8"	10	11,5	64,0	24,0	13	19	84,0
3160TR3812	R3/8"	12	11,5	69,0	25,5	15	22	108,0
3160TR1212	R1/2"	12	14,0	69,0	28,5	15	22	118,0
3160TR1214	R1/2"	14	14,0	76,0	30,0	17	27	176,0
3160TR1215	R1/2"	15	14,0	76,0	30,0	17	27	170,0
3160TR1216	R1/2"	16	14,0	79,0	31,5	19	30	212,0
3160TR1218	R1/2"	18	14,0	88,0	34,0	22	32	256,0

3170

Lateral male tee BSPT thread



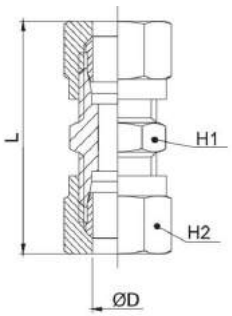


CODE	T	ØD	I	L1	L2	L3	H1	H2	GR.
3170TR184	R1/8"	4	8,0	37,0	16,0	21,0	9	10	22,0
3170TR186	R1/8"	6	8,0	39,0	16,0	23,0	9	10	26,0
3170TR146	R1/4"	6	11,0	44,5	20,0	24,5	11	12	34,0
3170TR188	R1/8"	8	8,0	41,0	17,0	24,0	11	14	34,0
3170TR148	R1/4"	8	11,0	44,0	20,0	24,0	11	14	38,0
3170TR388	R3/8"	8	11,5	51,0	24,0	27,0	13	14	52,0
3170TR1410	R1/4"	10	11,0	55,5	23,5	32,0	13	19	80,0
3170TR3810	R3/8"	10	11,5	56,0	24,0	32,0	13	19	84,0
3170TR3812	R3/8"	12	11,5	60,0	25,5	34,5	15	22	110,0
3170TR1212	R1/2"	12	14,0	63,0	28,5	34,5	15	22	118,0
3170TR1214	R1/2"	14	14,0	68,0	30,0	38,0	17	27	176,0
3170TR1215	R1/2"	15	14,0	68,0	30,0	38,0	17	27	170,0
3170TR1216	R1/2"	16	14,0	71,0	31,5	39,5	19	30	210,0
3170TR1218	R1/2"	18	14,0	78,0	34,0	44,0	22	32	256,0

3180

Union connector



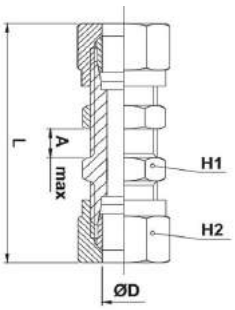


CODE	ØD	L	H1	H2	GR.
3180TR4	4	33,5	10	10	16,0
3180TR6	6	36,5	12	12	25,0
3180TR8	8	38,5	14	14	28,0
3180TR10	10	47,5	17	19	66,0
3180TR12	12	50,5	19	22	93,0
3180TR14	14	55,5	24	27	148,0
3180TR15	15	55,5	24	27	140,0
3180TR16	16	58,0	24	30	177,0
3180TR18	18	60,0	26	32	198,0

3190

Bulkhead connector



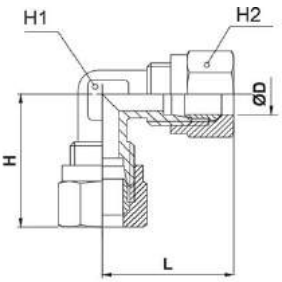


CODE	ØD	A MAX	L	H1	H2	GR.
3190TR6	6	15,5	51,5	14	12	32,0
3190TR8	8	16,5	55,5	16	14	42,0
3190TR10	10	15,5	62,5	19	19	90,0
3190TR12	12	16,0	64,5	22	22	116,0
3190TR14	14	18,0	69,5	25	27	192,0
3190TR15	15	18,0	69,5	25	27	184,0

3200

Union elbow connector



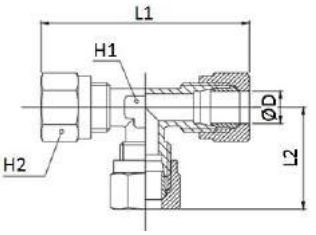


CODE	ØD	L1	L2	H1	H2	GR.
3200TR4	4	21,0	21,0	9	10	18,0
3200TR6	6	23,0	23,0	9	12	22,0
3200TR8	8	24,0	24,0	11	14	30,0
3200TR10	10	32,0	32,0	13	19	70,0
3200TR12	12	34,5	34,5	15	22	94,0
3200TR14	14	38,0	38,0	17	27	152,0
3200TR15	15	38,0	38,0	17	27	144,0
3200TR16	16	39,5	39,5	19	30	186,0
3200TR18	18	44,0	44,0	22	32	228,0

3210

Union tee connector



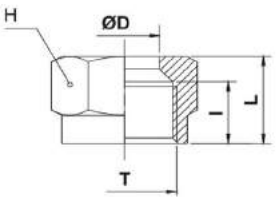


CODE	ØD	L1	L2	H1	H2	GR.
3210TR4	4	42,0	21,0	9	10	26,0
3210TR6	6	46,0	23,0	9	12	30,0
3210TR8	8	48,0	24,0	11	14	42,0
3210TR10	10	64,0	32,0	13	19	102,0
3210TR12	12	69,0	34,5	15	22	136,0
3210TR14	14	76,0	38,0	17	27	226,0
3210TR15	15	76,0	38,0	17	27	208,0
3210TR16	16	79,0	39,5	19	30	272,0
3210TR18	18	88,0	44,0	22	32	330,0

3230

Locking nut



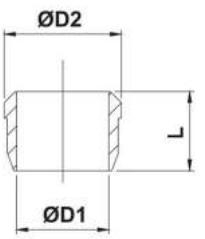


CODE	T	ØD	I	L	H	GR.
3230TRM814	M8X1	4	7,5	11,0	10	4,2
3230TRM1016	M10X1	6	8,5	11,5	12	5,4
3230TRM1218	M12X1	8	9,0	12,0	14	7,0
3230TRM161510	M16X1,5	10	11,5	15,5	19	18,2
3230TRM181512	M18X1,5	12	11,5	15,5	22	25,0
3230TRM221514	M22X1,5	14	12,0	17,5	27	44,3
3230TRM221515	M22X1,5	15	12,0	17,0	27	41,1
3230TRM241516	M24X1,5	16	12,0	17,5	30	55,6
3230TRM261518	M26X1,5	18	12,5	18,5	32	64,2

3240

Ferrule



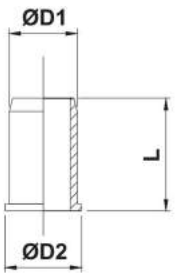


CODE	ØD1	ØD2	L	GR.
3240TR4	4	6	6,0	0,45
3240TR6	6	8	7,0	0,82
3240TR8	8	10	7,0	1,12
3240TR10	10	13	10,0	3,32
3240TR12	12	15	10,0	3,80
3240TR14	14	17	10,0	4,40
3240TR15	15	18	10,0	4,76
3240TR16	16	19	10,0	5,04
3240TR18	18	21	10,5	5,92

3250

Internal support bush



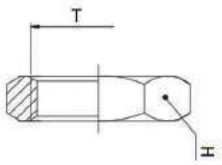


CODE	TUBO OD	D1	D2	L	GR.
3250TR4	4	2,5	3,5	10,0	0,20
3250TR6	6	4,0	5,5	12,0	0,60
3250TR8	8	6,0	7,5	13,0	1,00
3250TR10	10	8,0	9,5	14,0	1,40
3250TR12	12	10,0	11,5	16,0	2,20
3250TR14	14	12,0	13,5	16,0	2,60
3250TR15	15	12,5	14,5	17,0	2,80
3250TR16	16	14,0	15,5	18,0	3,40

1176

Bulkhead locking nut





CODE	T	H	GR.
1176TRM101	M10X1	14	3,0
1176TRM121	M12X1	16	3,8
1176TRM1615	M16X1,5	19	5,0
1176TRM1815	M18X1,5	22	7,0
1176TRM2215	M22X1,5	25	17,0

COMPRESSION FITTINGS
INOX AISI 316
DIN 2353

PLUS

- GREAT GRIPPING SYSTEM THANKS TO THE FERRULE AND THE LOCKING NUT
- RESISTANT TO VIBRATIONS AND TO WATER HAMMERS
- FITTINGS IN COMPLIANCE WITH DIN 2353
- OGIVE WITH CARBONIZED HARDNING TREATMENT



p. 238 / **3700**



p. 238 / **3720**



p. 239 / **3730**



p. 239 / **3740**



p. 239 / **3780**



p. 240 / **3790**



p. 240 / **1476**



p. 240 / **3800**



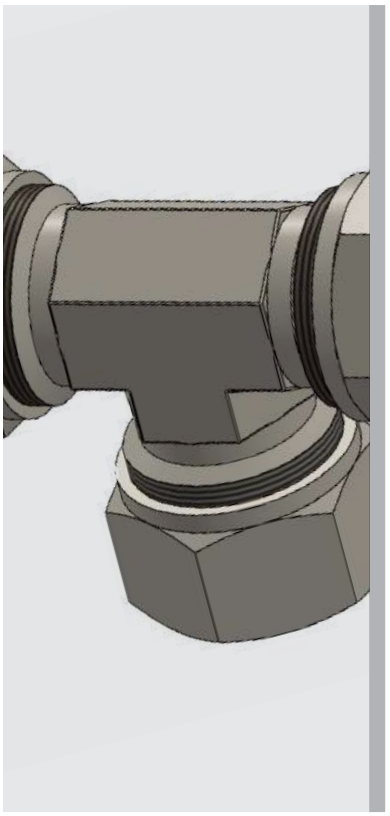
p. 240 / **3810**



p. 241 / **3830**



p. 241 / **3840**



-60°C ÷ 400°C

See in model table.
For pneumatics applications the pressures indicated in the table must be reduced by 50%

Compressed air, oil water, oil, chemical products and aggressive fluids suitable with construction materials. The fittings are designed and manufactured in compliance with DIN 2353

Taper gas BSPT ISO 7 DIN 2999 from R1/8" to R1/2"
Parallel gas BSPP ISO 228 DIN-ISO 228 (DIN 259) from G1/8" to G3/4"

Stainless steel annuale seamless tubing according to DIN 2391 regulation. The tubes should be suitable with process fluid, pressure and temperature.

Body: stainless steel AISI 316
Lock nut: stainless steel AISI 316 – silver thread
Ogive: stainless steel AISI 316 with carbonized hardening treatment

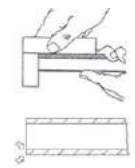
REACH

Products in compliance with the directive 2002/95/EC

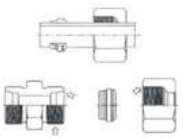
RoHS2

Products in compliance with the directive 2011/65/EU

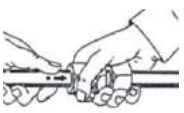
ISTRUCTION FOR ASSEMBLY



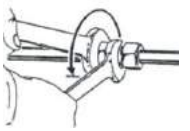
1
- Ensure that the tube end is cut at 90° with an angular maximum offset of +/- 1/2° in relation to the tube axis.
- After clean, lightly deburr tube ends at the inside and outside edge.



2
- Lubricate the thread and the inside part of the fitting body, the ring and the thread of the nut. Don't use grease.

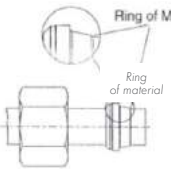


3
- Place nut and cutting ring on the tube. Ensure the cutting ring and nut are facing the right way.
- Manually screw the nut on to the fitting body keeping the tube completely inserted in.

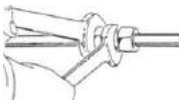


4
- Finally tighten the nut using a wrench for 1 and 1/2 turns by holding the fitting body with a second wrench. Never turn the fitting body, hold the body and turn the nut.

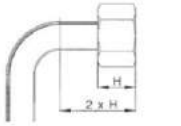
***WARNING:** Any deviation in the number of tighting turns reduces the maximum pressure and the service life of the fitting and may cause leakages or slipping of the tube.*



5
- Check penetration of cutting edge. A visible ring of material should fill the space in front of the cutting ring and face. Cutting ring may turn on tube but should not be capable of axial displacement.



6
- Tighten the nut again on to fitting body until a sharp condition rise in torque is felt.

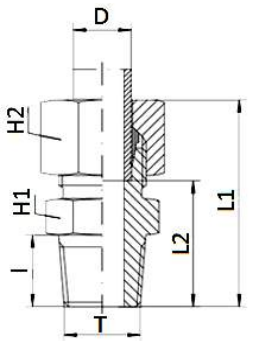


7
- Minimum length of straight tube and for tube bends, up to start of the bending radius must be at least twice the net length (H).

3700

Male connector BSPT thread



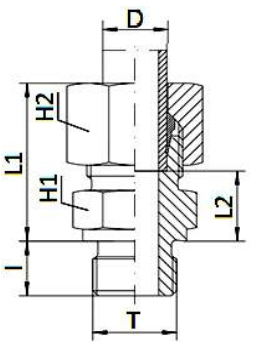


CODE	T	ØD	I	L1	L2	H1	H2	BAR	GR.
3700TRLL184	R1/8"	4	8,0	26,0	16,0	11,0	10,0	100	19,0
3700TRL186	R1/8"	6	8,0	30,0	15,0	14,0	14,0	315	22,0
3700TRLL188	R1/8"	8	8,0	28,0	16,5	12,0	14,0	100	33,0
3700TRL148	R1/4"	8	12,0	35,0	20,0	17,0	17,0	315	38,0
3700TRL1410	R1/4"	10	12,0	36,0	21,0	17,0	19,0	315	43,0
3700TRL1412	R1/4"	12	12,0	37,0	22,0	19,0	22,0	315	56,0
3700TRL3812	R3/8"	12	12,0	37,0	22,0	19,0	22,0	315	71,0
3700TRL1212	R1/2"	12	14,0	39,0	24,0	22,0	22,0	315	82,0
3700TRL3815	R3/8"	15	12,0	38,0	23,0	24,0	27,0	315	96,0
3700TRL1215	R1/2"	15	14,0	40,0	25,0	24,0	27,0	315	103,0

3720

Male connector BSPP thread



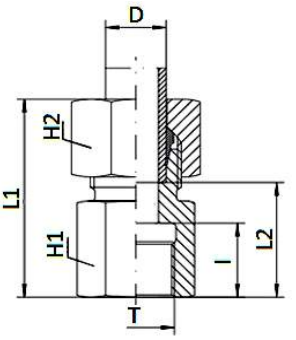


CODE	T	ØD	L1	L2	I	H1	H2	BAR	GR.
3720TRL186	G1/8"	6	23,0	8,5	8,0	14	14	315	25,0
3720TRL146	G1/4"	6	27,0	9,0	12,0	19	14	315	35,0
3720TRL386	G3/8"	6	27,0	11,5	12,0	22	14	315	56,0
3720TRL126	G1/2"	6	29,0	12,0	14,0	27	14	315	73,0
3720TRL188	G1/8"	8	26,0	9,5	8,0	14	17	315	31,0
3720TRL148	G1/4"	8	25,0	10,0	12,0	19	17	315	43,0
3720TRL388	G3/8"	8	28,5	11,5	12,0	22	17	315	60,0
3720TRL128	G1/2"	8	28,5	13,0	14,0	27	17	315	90,0
3720TRL1410	G1/4"	10	26,0	11,0	12,0	19	19	315	48,0
3720TRL3810	G3/8"	10	30,5	12,5	12,0	22	19	315	62,0
3720TRL1210	G1/2"	10	32,5	13,0	14,0	27	19	315	92,0
3720TRL1412	G1/4"	12	30,0	12,0	12,0	19	22	315	58,0
3720TRL3812	G3/8"	12	27,0	12,5	12,0	22	22	315	70,0
3720TRL1212	G1/2"	12	31,0	13,0	14,0	27	22	315	94,0
3720TRL3412	G3/4"	12	31,0	14,0	16,0	32	22	315	147,0
3720TRL3815	G3/8"	15	31,0	13,5	12,0	24	27	315	97,0
3720TRL1215	G1/2"	15	29,0	14,0	14,0	27	27	315	116,0
3720TRL3415	G3/4"	15	32,5	15,0	16,0	32	27	315	161,0
3720TRS3816	G3/8"	16	36,0	18,0	12,0	27	30	400	104,0
3720TRS1216	G1/2"	16	37,0	18,5	14,0	27	30	400	122,0
3720TRS3416	G3/4"	16	39,0	20,5	16,0	32	30	400	167,0

3730

Female connector BSPP thread



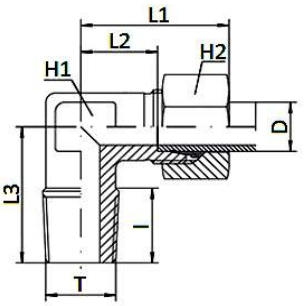


CODE	T	ØD	L1	L2	I	H1	H2	BAR	GR.
3730TRL186	G1/8"	6	36,0	19,0	12,0	14	14	315	29,0
3730TRS146	G1/4"	6	42,0	26,0	17,0	19	17	630	37,0
3730TRL148	G1/4"	8	41,0	24,0	17,0	19	17	315	55,0
3730TRL388	G3/8"	8	42,0	25,0	17,0	24	17	315	77,0
3730TRL128	G1/2"	8	46,0	32,0	20,0	27	17	315	96,0
3730TRL1410	G1/4"	10	42,0	25,0	17,0	19	19	315	60,0
3730TRL3810	G3/8"	10	43,0	26,0	17,0	24	19	315	83,0
3730TRL1210	G1/2"	10	47,0	30,0	20,0	27	19	315	100,0
3730TRL3812	G3/8"	12	43,0	26,0	17,0	24	22	315	91,0
3730TRL1212	G1/2"	12	48,0	30,0	20,0	27	22	315	106,0
3730TRL1215	G1/2"	15	49,0	31,0	20,0	27	27	315	131,0
3730TRS1216	G1/2"	16	53,0	31,5	20,0	27	30	400	149,0

3740

Male elbow BSPT thread



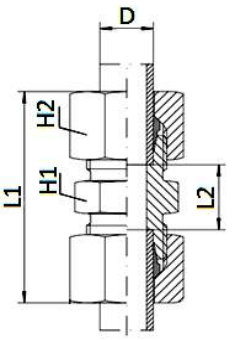


CODE	T	ØD	L1	L2	L3	I	H1	H2	BAR	GR.
3740TRLL184	R1/8"	4	21,0	11,0	17,0	8,0	9,0	10,0	100	35,0
3740TRL186	R1/8"	6	27,0	12,0	20,0	8,0	12,0	14,0	315	40,0
3740TRS146	R1/4"	6	31,0	16,5	26,0	12,0	12,0	17,0	630	46,0
3740TRLL188	R1/8"	8	23,0	11,5	20,0	8,0	12,0	14,0	100	48,0
3740TRL148	R1/4"	8	29,0	14,0	26,0	12,0	12,0	17,0	315	63,0
3740TRL1410	R1/4"	10	30,0	15,0	27,0	12,0	14,0	19,0	315	81,0
3740TRS3810	R3/8"	10	34,0	17,5	28,0	12,0	17,0	22,0	630	115,0
3740TRL3812	R3/8"	12	32,0	17,5	28,0	12,0	17,0	22,0	315	133,0
3740TRL1215	R1/2"	15	36,0	21,0	34,0	14,0	19,0	27,0	315	139,0
3740TRS1216	R1/2"	16	43,0	24,5	32,0	14,0	24,0	30,0	400	145,0

3780

Union connector



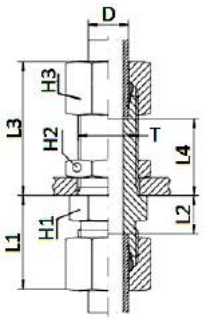


CODE	ØD	L1	L2	H1	H2	BAR	GR.
3780TRLL4	4	35,0	12,0	9,0	10,0	100	28,0
3780TRL6	6	44,0	10,0	12,0	14,0	500	34,0
3780TRL8	8	45,0	11,0	14,0	17,0	500	49,0
3780TRL10	10	48,0	13,0	17,0	19,0	500	62,0
3780TRL12	12	49,0	14,0	19,0	22,0	400	83,0
3780TRL15	15	54,0	16,0	24,0	27,0	400	137,0
3780TRS16	16	65,0	21,0	27,0	30,0	630	151,0

3790

Bulkhead connector



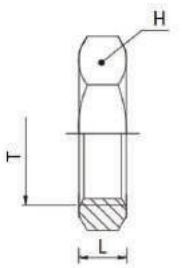


CODE	ØD	T	L1	L2	L3	L4	H1	H2	H3	BAR	GR.
3790TRL6	6	M12X1,5	22,0	7,0	42,0	27,0	17,0	14,0	17,0	500	60,0
3790TRL8	8	M14X1,5	23,0	8,0	42,0	27,0	19,0	17,0	19,0	500	82,0
3790TRL10	10	M16X1,5	25,0	10,0	43,0	28,0	22,0	19,0	22,0	500	106,0
3790TRL12	12	M18X1,5	25,0	10,0	44,0	29,0	24,0	22,0	24,0	400	133,0
3790TRL15	15	M22X1,5	27,0	12,0	46,0	31,0	27,0	27,0	30,0	400	216,0

1476

Locknuts for bulkhead



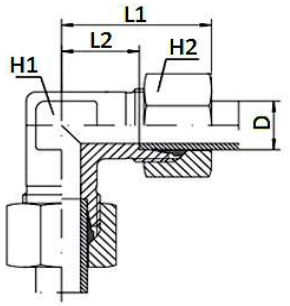


CODE	T	L	H
1476TRHM1215	M12X1,5	6	17
1476TRHM1415	M14X1,5	6	19
1476TRHM1615	M16X1,5	6	22
1476TRHM1815	M18X1,5	6	24
1476TRHM2215	M22X1,5	7	30

3800

Union elbow connector



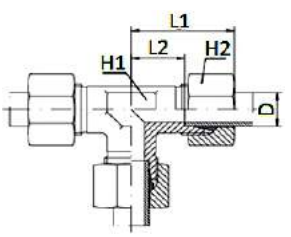


CODE	ØD	L1	L2	H1	H2	BAR	GR.
3800TRLL4	4	21,0	11,0	9,0	10,0	100	44,0
3800TRL6	6	27,0	12,0	12,0	14,0	500	51,0
3800TRL8	8	29,0	14,0	12,0	17,0	500	75,0
3800TRL10	10	30,0	15,0	14,0	19,0	500	98,0
3800TRL12	12	32,0	17,0	17,0	22,0	400	134,0
3800TRL15	15	36,0	21,0	19,0	27,0	400	230,0
3800TRS16	16	43,0	24,5	24,0	30,0	630	246,0

3810

Union tee connector



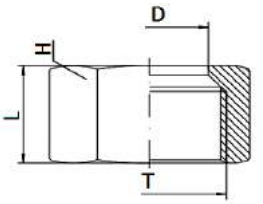


CODE	ØD	L1	L2	H1	H2	BAR	GR.
3810TRLL4	4	21,0	11,0	9,0	10,0	100	62,0
3810TRL6	6	27,0	12,0	12,0	14,0	500	71,0
3810TRL8	8	29,0	14,0	12,0	17,0	500	101,0
3810TRL10	10	30,0	15,0	14,0	19,0	500	128,0
3810TRL12	12	32,0	17,0	17,0	22,0	400	170,0
3810TRL15	15	36,0	21,0	19,0	27,0	400	230,0
3810TRS16	16	43,0	24,4	24,0	30,0	630	261,0

3830

Nut



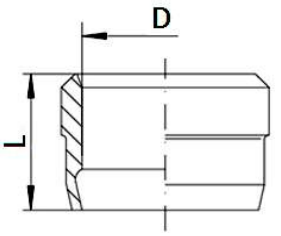


CODE	ØD	T	L	H	GR.
3830TRLL4	4	M8X1,0	11,0	10,0	6,0
3830TRL6	6	M12X1,5	14,5	14,0	9,0
3830TRL8	8	M14X1,5	14,5	17,0	14,0
3830TRL10	10	M16X1,5	15,5	19,0	17,0
3830TRL12	12	M18X1,5	15,5	22,0	24,0
3830TRL15	15	M22X1,5	17,0	27,0	40,0
3830TRS16	16	M24X1,5	20,5	30,0	48,0

3840

Ogive

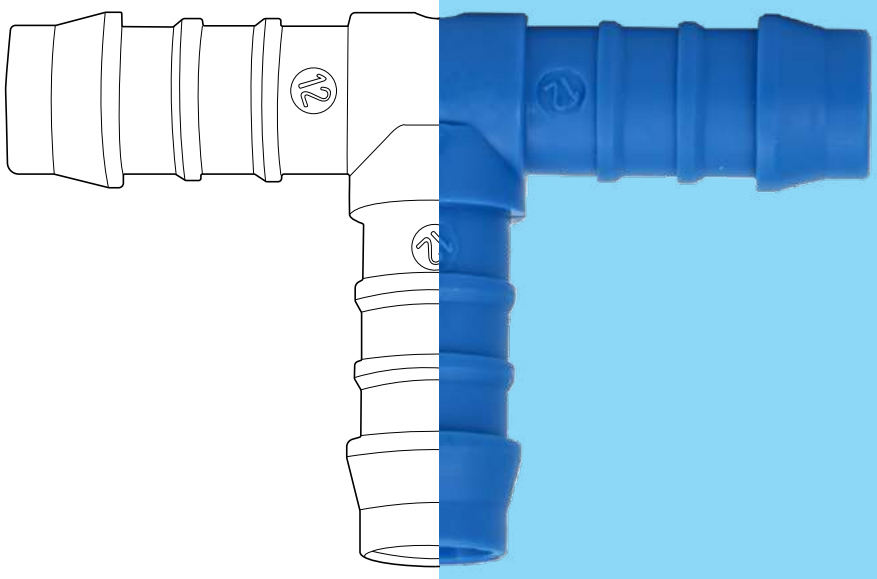




CODE	ØD	L	GR.
3840TRLL4	4	6,0	2,0
3840TRL6	6	9,0	2,0
3840TRL8	8	9,0	2,0
3840TRL10	10	9,5	3,0
3840TRL12	12	10,0	3,0
3840TRL15	15	10,0	4,0
3840TRS16	16	10,0	5,0



BARB CONNECTORS



TECHNICAL INDEX



P. 245 /
POLYPROPYLENE BARB CONNECTORS



P. 251 /
BRASS BARB CONNECTORS



P. 257 /
HDPE BARB CONNECTORS



P. 261 /
NYLON BARB CONNECTORS



P. 275 /
PVDF BARB CONNECTORS



P. 285 /
BARB CONNECTOR INOX AISI 316



P. 287 /
CLAMPS

BARB CONNECTORS POLYPROPYLENE

PLUS

- SUITABLE FOR AIR AND WATER
- GOOD CHEMICAL RESISTANCE
- ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE



p. 248 / **5510**



p. 248 / **5520**



p. 248 / **5530**



p. 249 / **5540**



p. 249 / **5545**



p. 249 / **5550**



p. 249 / **5555**



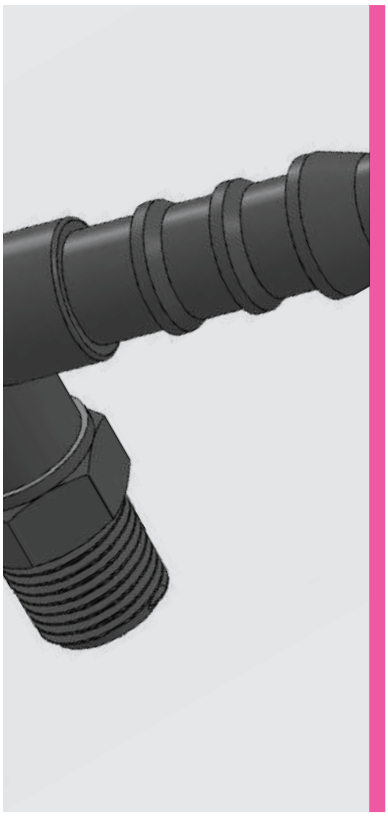
p. 250 / **5560**



p. 250 / **5570**



p. 250 / **5580**



+4°C ÷ +90°C
Subject to applications

Up to 14 Bar at 20°C

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1"
Parallel gas BSPP ISO 228
from G1/8" to G1"

To be used only for connecting LDPE
Agricultural tubes Class 2.5 and Class 4 and other flexible tubes

Polypropylene

FEATURES

Good resistance to chemicals

PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon tape over the thread for installation in order and to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

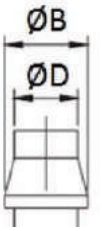
Products in compliance with the directive 2011/65/EU

DIAMETER OF THE BARB

O.D. EXTERNAL TUBE	Ø12	Ø16	Ø20	Ø25
ØB - barb	11.9 mm	15.8 mm	19.0 mm	23.0 mm

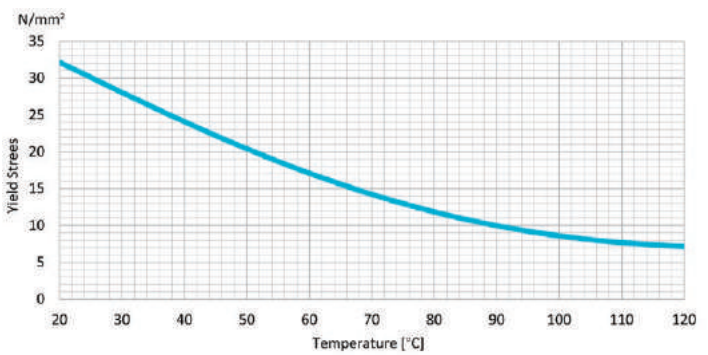


I.D. INTERNAL TUBE	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø19
ØB - barb	8.1	10.2	12.4	13.9	15.9	18.1	21.0
ØD	6.1	8.1	10.1	11.9	13.8	15.9	18.8



Only for code 5570

YIELD STRESS OF PP AS A FUNCTION OF TEMPERATURE



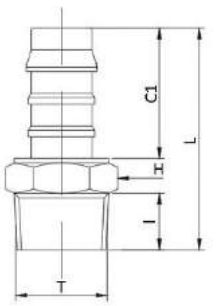
RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,01	0,01
1/4	0,3	0,2
3/8	1	1
1/2	2	2
3/4	5	4
1	8	6

5510

Male barb connector BSPT thread



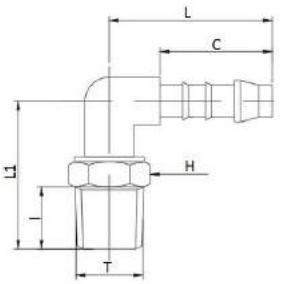


CODE	T	OD	I	C1	L	H	GR.
5510TR1812	R1/8"	12	7,5	30,0	44,0	14	2,0
5510TR1412	R1/4"	12	11,0	30,0	47,5	14	3,0
5510TR3812	R3/8"	12	10,5	30,0	47,5	17	3,0
5510TR1212	R1/2"	12	13,0	30,0	50,5	22	3,5
5510TR3412	R3/4"	12	13,0	30,0	51,5	27	4,0
5510TR1416	R1/4"	16	10,5	31,0	47,5	22	3,5
5510TR1216	R1/2"	16	13,0	30,0	50,5	22	5,0
5510TR3416	R3/4"	16	13,0	28,0	49,0	27	4,5
5510TR1220	R1/2"	20	13,0	32,5	57,0	22	5,0
5510TR3420	R3/4"	20	13,0	32,5	54,0	27	7,0
5510TR120	R1"	20	18,0	32,5	59,5	29	18,0
5510TR1225	R1/2"	25	13,0	32,5	53,0	22	6,0
5510TR3425	R3/4"	25	13,0	32,5	54,0	27	8,0
5510TR125	R1"	25	17,0	32,5	59,0	29	14,0

5520

Male elbow barb connector BSPT thread



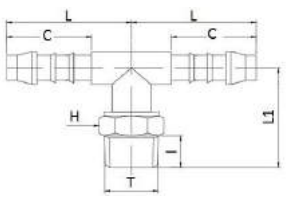


CODE	T	OD	I	C	L	L1	H	GR.
5520TR1412	R1/4"	12	11,0	30,0	41,0	32,0	14	3,0
5520TR3812	R3/8"	12	11,0	30,0	41,0	32,0	14	4,0
5520TR1212	R1/2"	12	13,0	30,0	41,0	32,0	22	4,5
5520TR3412	R3/4"	12	13,0	30,0	41,0	36,0	27	5,5
5520TR3816	R3/8"	16	11,0	30,0	45,0	28,0	22	6,0
5520TR1216	R1/2"	16	13,0	30,0	43,0	32,0	22	7,0
5520TR3416	R3/4"	16	13,0	30,0	45,0	34,0	27	8,5
5520TR1220	R1/2"	20	13,0	32,5	48,0	35,0	22	10,0
5520TR3420	R3/4"	20	13,0	32,5	48,0	37,0	27	11,0
5520TR1225	R1/2"	25	13,0	32,5	46,0	37,0	27	12,0
5520TR3425	R3/4"	25	13,0	32,5	46,0	38,0	27	13,0

5530

Male tee barb connector BSPT thread



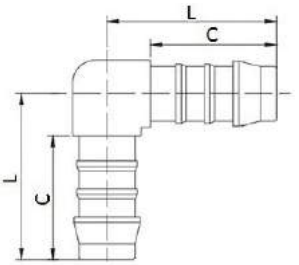


CODE	T	OD	I	C	L	L1	H	GR.
5530TR1412	R1/4"	12	11,0	30,0	41,0	28,0	14	3,0
5530TR3812	R3/8"	12	11,0	30,0	41,0	28,0	22	3,5
5530TR1212	R1/2"	12	13,0	30,0	41,0	32,0	22	5,0
5530TR3412	R3/4"	12	14,0	30,0	41,0	33,0	27	6,0
5530TR3816	R3/8"	16	11,0	30,0	45,0	28,0	17	5,5
5530TR1216	R1/2"	16	13,0	30,0	45,0	33,0	22	7,5
5530TR3416	R3/4"	16	14,0	30,0	45,0	34,0	27	8,5
5530TR1220	R1/2"	20	13,0	32,5	48,0	37,0	22	12,0
5530TR3420	R3/4"	20	14,0	32,5	48,0	38,0	27	14,5
5530TR1225	R1/2"	25	13,0	32,5	45,0	37,0	22	16,5
5530TR3425	R3/4"	25	14,0	32,5	45,0	38,0	27	19,0

5540

Union elbow barb connector



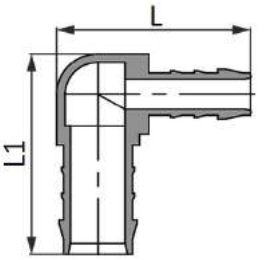


CODE	OD	C	L	GR.
5540TR12	12	30,0	41,0	3,0
5540TR16	16	30,0	44,0	5,0
5540TR20	20	32,5	47,5	7,5
5540TR25	25	32,5	45,0	11,0

5545

Reducer union elbow barb connector



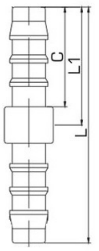


CODE	OD1	OD2	L	L1	GR.
5545TR1612	16	12	56,2	52,2	4,6
5545TR2012	20	12	56,6	55,5	7,94
5545TR2016	20	16	55,2	56,4	8,7
5545TR2520	25	20	58,4	57,4	10,2

5550

Union barb connector



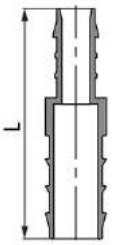


CODE	OD	C	L1	L	GR.
5550TR12	12	30,0	34,5	69,0	3,0
5550TR16	16	30,0	36,0	72,0	4,0
5550TR20	20	32,5	38,5	77,0	5,0
5550TR25	25	32,5	38,5	77,0	8,0

5555

Reducer union barb connector



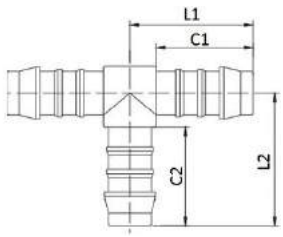


CODE	OD1	OD2	L	GR.
5555TR1612	16	12	71,5	3,7
5555TR2012	20	12	72,6	5,45
5555TR2016	20	16	75,6	5,6
5555TR2520	25	20	76,8	7,3

5560

Union tee barb connector



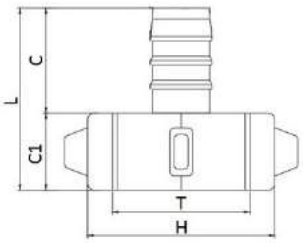


CODE	OD	C1	L1	C2	L2	GR.
5560TR12	12	30,0	36,0	30,0	38,0	3,0
5560TR16	16	30,0	38,0	30,0	40,0	5,0
5560TR20	20	32,5	42,5	32,5	45,0	9,0
5560TR25	25	32,5	45,0	32,5	47,0	13,0

5570

Female swivel barb connector with rubber seal



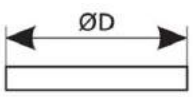


CODE	T	I.D.	C1	C	L	H	GR.
5570TR346	G3/4″	6	17,0	21,0	38,0	32	8,0
5570TR348	G3/4″	8	14,5	25,0	42,0	32	8,5
5570TR18	G1″	8	14,5	25,0	42,0	38	10,0
5570TR3810	G3/8″	10	16,5	28,0	42,5	32	7,5
5570TR3410	G3/4″	10	16,5	27,0	43,5	32	9,0
5570TR1212	G1/2″	12	16,5	28,0	44,5	24	10,0
5570TR3412	G3/4″	12	16,5	28,0	44,5	32	9,0
5570TR112	G1″	12	16,5	27,0	43,5	38	11,0
5570TR3414	G3/4″	14	16,5	30,0	46,5	32	7,0
5570TR114	G1″	14	16,5	30,0	46,5	38	8,5
5570TR3416	G3/4″	16	16,5	30,0	46,5	32	8,0
5570TR116	G1″	16	16,5	30,0	46,5	38	10,0
5570TR3419	G3/4″	19	16,5	31,0	47,5	32	10,0
5570TR119	G1″	19	16,5	31,0	47,5	38	13,0

5580

Flat rubber seal for female thread





CODE	T	ØD	GR.
5580TR38	G3/8″	15,3	0,6
5580TR12	G1/2″	18,3	0,8
5580TR34	G3/4″	24,7	0,9
5580TR1	G1″	31,3	1,2

BARB CONNECTORS BRASS

PLUS

SUITABLE FOR AIR

ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE



p. 254 / **1165**



p. 254 / **1167**



p. 255 / **1169**



p. 255 / **1170**



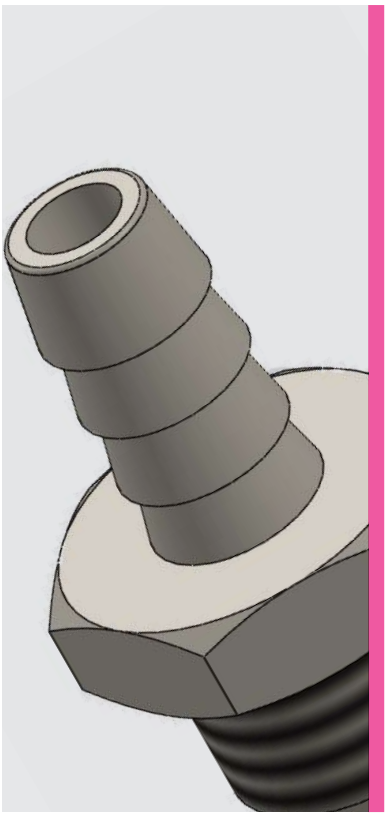
p. 256 / **1171**



p. 256 / **1172**



p. 256 / **1173**



Temperature depends on the tube used, so their values will be defined according to the features of the tube itself.
NBR -20°C ÷ +100°C
VITON -15°C ÷ +200°C

Up to 60 Bar
Pressure depends on the tube used, so their values will be defined according to the features of the tube itself.

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1"
Parallel gas BSPP ISO 228
from G1/8" to G3/4"
Metric M5 and M6

Body: nickel plated brass
UNI EN 12164 CW 614N and
UNI EN 12164 CW 617N
Lathed: nickel plated brass
UNI EN 12164 CW 614N
Printed: nickel plated brass
UNI EN 12164 CW 617N
O'ring: NBR or Viton

Available on demand and with minimum quantity in yellow brass

REACH

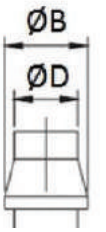
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

DIAMETER OF THE BARB

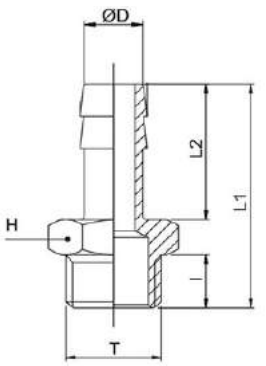
ØD	Ø 4,5 mm	Ø 6 mm	Ø 7 mm	Ø 8 mm	Ø 9 mm	Ø10 mm	Ø 12 mm	Ø 14 mm	Ø 17 mm	Ø 18 mm	Ø 20 mm
ØB (mm)	5,0 mm	6,15 mm	7,15 mm	8,15 mm	9,20 mm	10,20 mm	12,20 mm	14,25 mm	17,30 mm	18,50 mm	20,60 mm



1165

Male barb connector BSPP & metric thread



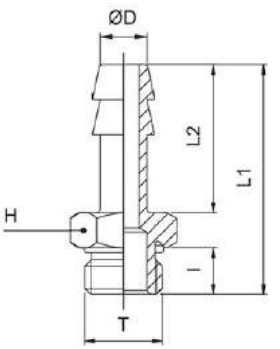


CODE	T	ØD	I	L1	L2	H	GR.
1165TRM545	M5	4,5	4,0	22,5	15,0	8	6,0
1165TRM56	M5	6	4,0	22,0	19,0	8	3,0
1165TRM66	M6	6	4,0	22,0	19,0	8	4,0
1165TR186	G1/8″	6	6,0	29,5	19,0	12	8,0
1165TR146	G1/4″	6	8,0	32,0	19,0	14	12,0
1165TRM57	M5	7	4,0	22,2	19,0	8	3,0
1165TRM67	M6	7	5,0	22,0	19,0	8	4,0
1165TR187	G1/8″	7	6,0	29,5	19,0	12	8,0
1165TR147	G1/4″	7	8,0	32,0	19,0	14	14,0
1165TR188	G1/8″	8	6,0	29,5	19,0	12	8,0
1165TR148	G1/4″	8	8,0	32,0	19,0	14	14,0
1165TR388	G3/8″	8	9,0	33,0	19,0	19	22,0
1165TR189	G1/8″	9	6,0	29,5	19,0	12	10,0
1165TR149	G1/4″	9	8,0	32,0	19,0	14	14,0
1165TR389	G3/8″	9	9,0	33,0	19,0	19	22,0
1165TR1810	G1/8″	10	6,0	30,5	20,0	12	10,0
1165TR1410	G1/4″	10	8,0	33,0	20,0	14	14,0
1165TR3810	G3/8″	10	9,0	34,0	20,0	19	23,0
1165TR1412	G1/4″	12	8,0	33,0	20,0	14	16,0
1165TR3812	G3/8″	12	9,0	34,0	20,0	19	24,0
1165TR1212	G1/2″	12	10,0	35,5	20,0	22	32,0
1165TR3814	G3/8″	14	9,0	36,0	22,0	19	26,0
1165TR1214	G1/2″	14	10,0	37,5	22,0	22	34,0
1165TR3817	G3/8″	17	9,0	38,0	24,0	19	30,0
1165TR1217	G1/2″	17	10,0	39,5	24,0	22	38,0
1165TR3418	G3/4″	18	11,0	41,5	24,0	30	58,0
1165TR1220	G1/2″	20	10,0	39,5	24,0	22	40,0
1165TR3420	G3/4″	20	11,0	41,5	24,0	30	60,0

1167

Male barb connector BSPP & metric thread with OR



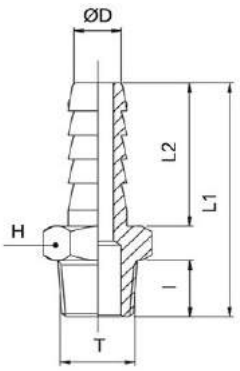


CODE	T	ØD	I	L1	L2	H	GR.
1167TRM545	M5	4,5	4,5	23,0	15,0	8	6,0
1167TR186	G1/8″	6	6,5	30,0	19,0	14	10,0
1167TR146	G1/4″	6	8,0	32,0	19,0	17	16,0
1167TR187	G1/8″	7	6,5	30,0	19,0	14	10,0
1167TR147	G1/4″	7	8,0	32,0	19,0	17	16,0
1167TR188	G1/8″	8	6,5	30,0	19,0	14	12,0
1167TR148	G1/4″	8	8,0	32,0	19,0	17	17,0
1167TR189	G1/8″	9	6,5	30,0	19,0	14	14,0
1167TR149	G1/4″	9	8,0	32,0	19,0	17	16,0
1167TR389	G3/8″	9	9,0	33,0	19,0	20	22,0
1167TR1412	G1/4″	12	8,0	33,0	20,0	17	18,0
1167TR3812	G3/8″	12	9,0	34,0	20,0	20	24,0
1167TR1212	G1/2″	12	10,0	35,5	20,0	24	35,0
1167TR3817	G3/8″	17	9,0	38,0	24,0	20	30,0
1167TR1217	G1/2″	17	10,0	39,5	24,0	24	42,0

1169

Male barb connector BSPT thread



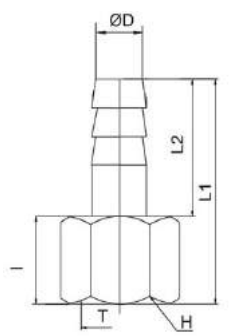


CODE	T	ØD	I	L1	L2	H	GR.
1169TR186	R1/8"	6	8,0	31,5	19,0	12	8,0
1169TR146	R1/4"	6	11,0	35,0	19,0	14	14,0
1169TR187	R1/8"	7	8,0	31,5	19,0	12	10,0
1169TR147	R1/4"	7	11,0	35,0	19,0	14	14,0
1169TR188	R1/8"	8	8,0	31,5	19,0	12	10,0
1169TR148	R1/4"	8	11,0	35,0	19,0	14	14,0
1169TR189	R1/8"	9	8,0	31,5	19,0	12	12,0
1169TR149	R1/4"	9	11,0	35,0	19,0	14	16,0
1169TR389	R3/8"	9	11,5	35,5	19,0	17	20,0
1169TR129	R1/2"	9	14,0	38,5	19,0	22	32,0
1169TR1810	R1/8"	10	8,0	32,5	20,0	12	10,0
1169TR1410	R1/4"	10	11,0	36,0	20,0	14	16,0
1169TR3810	R3/8"	10	11,5	36,5	20,0	17	22,0
1169TR1210	R1/2"	10	14,0	39,5	20,0	22	32,0
1169TR1412	R1/4"	12	11,0	36,0	20,0	14	16,0
1169TR3812	R3/8"	12	11,5	36,5	20,0	17	22,0
1169TR1212	R1/2"	12	14,0	39,5	20,0	22	34,0
1169TR3814	R3/8"	14	11,5	38,5	22,0	17	24,0
1169TR1214	R1/2"	14	14,0	41,5	22,0	22	36,0
1169TR3816	R3/8"	16	11,5	38,5	22,0	17	26,0
1169TR1216	R1/2"	16	14,0	41,5	22,0	22	36,0
1169TR3416	R3/4"	16	16,5	45,0	22,0	27	58,0
1169TR3817	R3/8"	17	11,5	40,5	24,0	18	30,0
1169TR1217	R1/2"	17	14,0	43,5	24,0	22	40,0
1169TR3818	R3/8"	18	11,5	40,5	24,0	19	34,0
1169TR1218	R1/2"	18	14,0	43,5	24,0	22	44,0
1169TR3418	R3/4"	18	16,5	47,0	24,0	27	62,0
1169TR3820	R3/8"	20	11,5	41,0	24,0	22	40,0
1169TR1220	R1/2"	20	14,0	43,5	24,0	22	42,0
1169TR3420	R3/4"	20	16,5	46,5	24,0	27	60,0
1169TR3425	R3/4"	25	16,5	53,0	30,0	27	76,0
1169TR125	R1"	25	19,0	56,0	30,0	34	114,0

1170

Female barb connector BSPP thread



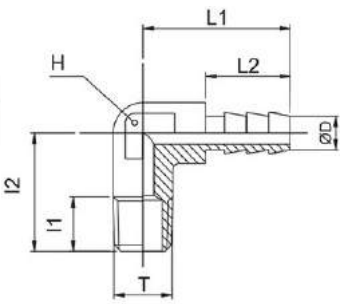


CODE	T	ØD	I	L1	L2	H	GR.
1170TR187	G1/8"	7	10,0	27,0	17,0	12	9,0
1170TR147	G1/4"	7	13,0	33,0	20,0	17	21,0
1170TR188	G1/8"	8	10,0	27,0	17,0	12	8,0
1170TR148	G1/4"	8	13,0	33,0	20,0	17	19,0
1170TR189	G1/8"	9	10,0	27,0	17,0	12	9,0
1170TR149	G1/4"	9	13,0	33,0	20,0	17	20,0
1170TR1412	G1/4"	12	13,0	33,0	20,0	17	22,0

1171

Male elbow barb connector BSPT thread



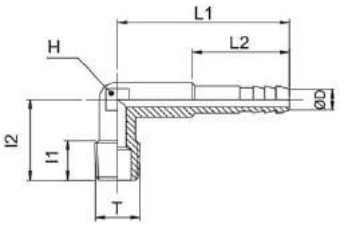


CODE	T	ØD	I1	I2	L1	L2	H	GR.
1171TR186185	R1/8"	6	8,0	18,5	22,5	14,0	8	10,0
1171TR18623	R1/8"	6	11,0	23,0	22,5	14,0	8	12,0
1171TR14623	R1/4"	6	11,0	23,0	23,0	14,0	9	16,0
1171TR187185	R1/8"	7	8,0	18,5	22,5	14,0	8	10,0
1171TR18723	R1/8"	7	11,0	23,0	22,5	14,0	8	10,0
1171TR14723	R1/4"	7	12,0	23,0	23,0	14,0	9	16,0

1172

Long male elbow barb connector BSPT thread



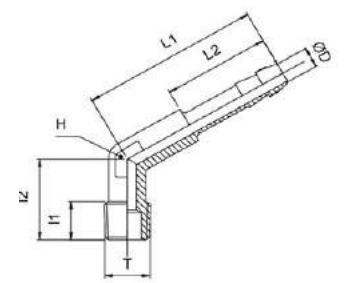


CODE	T	ØD	I1	I2	L1	L2	H	GR.
1172TR186325	R1/8"	6	11,0	22,0	32,5	14,0	9	18,0
1172TR18638	R1/8"	6	8,0	18,5	38,0	22,0	8	14,0
1172TR146325	R1/4"	6	11,0	23,0	32,5	14,0	9	20,0
1172TR187325	R1/8"	7	11,0	22,0	32,5	14,0	9	16,0
1172TR18738	R1/8"	7	8,0	18,5	38,0	22,0	8	14,0
1172TR147325	R1/4"	7	8,0	23,0	32,5	14,0	9	20,0

1173

Long male elbow 120º barb connector BSPT thread





CODE	T	ØD	I1	I2	L1	L2	H	GR.
1173TR186	R1/8"	6	8,0	18,5	38,0	23,0	8	14,0
1173TR187	R1/8"	7	8,0	18,5	38,0	23,0	8	12,0

BARB CONNECTORS HDPE

PLUS

ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE

HIGH DENSITY POLYETHYLENE

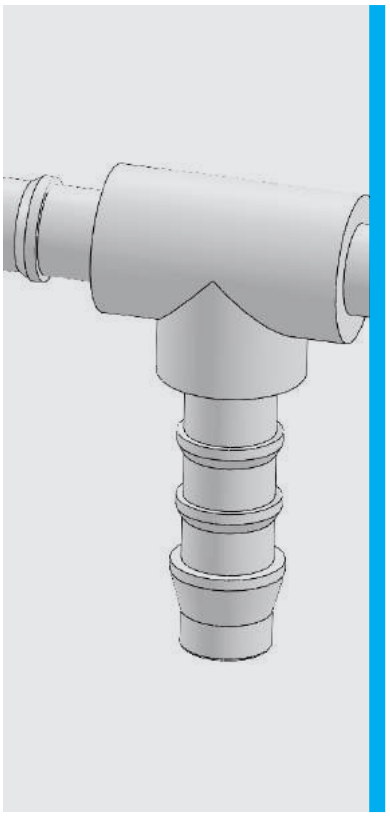


p. 259 / **5030PE**

p. 260 / **5040PE**

p. 260 / **5050PE**

p. 260 / **5060PE**



0°C ÷ +70°C
subject to application

up to 14 Bar at 20°C
depending from the used tube

Compressed air, water and fluids
suitable with construction materials

Polyurethane, silicon and soft PVC

High density polyethylene (HDPE)

FEATURES
Suitable for food.

REACH

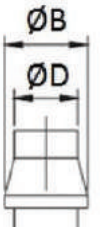
Products in compliance with
the directive 2002/95/EC

RoHS2

Products in compliance with
the directive 2011/65/EU

DIAMETER OF THE BARB

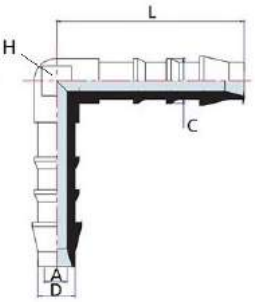
ØD	Ø 4 mm	Ø 6 mm	Ø 8 mm
ØB (mm)	5,2 mm	8,0 mm	10,0 mm



5030PE

Union elbow barb connector

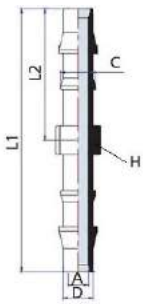




CODE	ØD	ØA	ØB	ØC	L	H	GR.
5030PE4	4 - 5/32"	2,8	5,2	4,8	22,0	6,3	0,5
5030PE6	6 - 1/4"	4,0	8,0	7,5	31,2	7,8	1,4
5030PE8	8 - 5/16"	5,7	10,0	9,2	36,0	10,3	2,4

5040PE

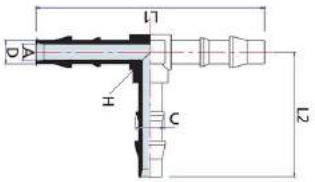
Union barb connector



CODE	ØD	ØA	ØB	ØC	L1	L2	H	GR.
5040PE4	4 - 5/32"	2,8	5,2	4,8	36	18	6,0	0,4
5040PE6	6 - 1/4"	4,0	8,0	7,5	53,6	26,8	6,0	1
5040PE8	8 - 5/16"	5,7	10,0	9,2	59,0	29,5	10,0	1,7

5050PE

Union tee barb connector

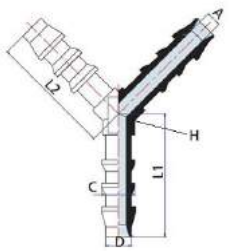


CODE	ØD	ØA	ØB	ØC	L1	L2	H	GR.
5050PE4	4 - 5/32"	2,8	5,2	4,8	39,0	21,2	6,3	0,7
5050PE6	6 - 1/4"	4,0	8,0	7,5	56,4	31,0	7,8	1,8
5050PE8	8 - 5/16"	5,7	10,0	9,2	61,5	33,0	10,3	2,7

5060PE

Y barb connector





CODE	ØD	ØA	ØB	ØC	L1	L2	H	GR.
5060PE4	4 - 5/32"	2,8	5,2	4,8	20,0	20,0	6,3	0,6
5060PE6	6 - 1/4"	4,0	8,0	7,5	29,0	29,0	7,8	1,8
5060PE8	8 - 5/16"	5,7	10,0	9,2	31,2	31,2	10,3	2,7

BARB CONNECTORS NYLON

PLUS

- EASY CONNECTION
- SUITABLE FOR FOOD
- ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE
- STRONG AND DURABLE HIGH IMPACT RESISTANT



p. 264 / **5005**



p. 264 / **5010**



p. 265 / **5020**



p. 266 / **5025**



p. 266 / **5030**



p. 267 / **5035**

N



p. 267 / **5040**



p. 267 / **5045**



p. 268 / **5050**



p. 268 / **5055**



p. 268 / **5060**



p. 269 / **5070**

N



p. 269 / **5007**

N



p. 270 / **5015**

N



p. 270 / **5022**

N



p. 271 / **5027**

N



p. 271 / **5032**

N



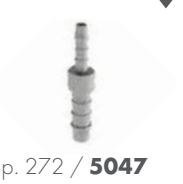
p. 272 / **5037**

N



p. 272 / **5042**

N



p. 272 / **5047**

N



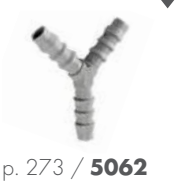
p. 273 / **5052**

N



p. 273 / **5057**

N



p. 273 / **5062**



-20°C ÷ +110°C
subject to applications

up to 14 Bar at 20°C
depending from the used tube

Compressed air, water and food fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1"
NPT from N1/8" to N3/4"

Plastic, silicon, rubber or soft PVC tubes

Nylon 66

FEATURES

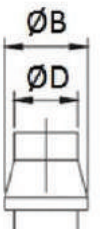
- The products are made in plastic and it's necessary to use teflon tape over the thread for installation in order and to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings.

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

DIAMETER OF THE BARB

ØD	Ø 4 mm	Ø 5 mm	Ø 6 mm	Ø 8mm	Ø 10 mm	Ø 12 mm	Ø 14 mm	Ø 16 mm	Ø 19 mm
ØB (mm)	5,2 mm	6,3 mm	8,0 mm	10,0 mm	12,0 mm	14,0 mm	16,2 mm	18,2 mm	21,0 mm
ØD	Ø 5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	
ØB (mm)	5,3 mm	6,3 mm	8,0 mm	9,8 mm	12,0 mm	13,8 mm	17,5 mm	21,0 mm	



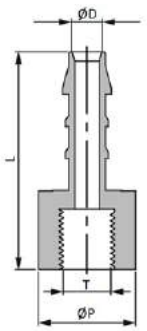
RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,1	0,07
1/4	0,8	0,6
3/8	4	3
1/2	6	4
3/4	8	6
1	10	7

5005

Female barb connector BSPT thread



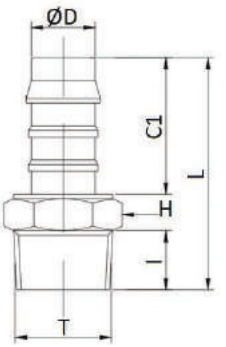


CODE	T	ØD	ØP	L	GR.
5005TR185	R1/8″	5	14	34,4	2,0
5005TR145	R1/4″	5	17	35,2	2,7
5005TR385	R3/8″	5	22	36,5	4,57
5005TR125	R1/2″	5	26	38,7	6,6
5005TR186	R1/8″	6	14	36,3	2,15
5005TR146	R1/4″	6	17	37,2	2,9
5005TR386	R3/8″	6	22	38,3	4,8
5005TR126	R1/2″	6	26	40,8	7,0
5005TR188	R1/8″	8	14	39,4	2,5
5005TR388	R3/8″	8	22	40,4	5,0
5005TR128	R1/2″	8	26	42,7	7,1
5005TR1410	R1/4″	10	17	41,5	3,6
5005TR3810	R3/8″	10	22	42,3	5,4
5005TR1210	R1/2″	10	26	45,0	7,5
5005TR1412	R1/4″	12	17	42,4	4,1
5005TR3812	R3/8″	12	22	43,3	6,2
5005TR1212	R1/2″	12	26	46,0	8,0
5005TR3814	R3/8″	14	22	45,0	6,9
5005TR1214	R1/2″	14	26	47,3	8,7
5005TR1216	R1/2″	16	26	48,1	9,0
5005TR1219	R1/2″	19	26	48,8	9,5

5010

Male barb connector BSPT thread



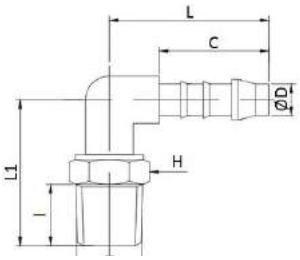


CODE	T	ØD	I	C1	L	H	GR.
5010TR184	R1/8″	4	8,0	16,0	30,5	11	1,0
5010TR144	R1/4″	4	10,0	16,0	33,5	14	1,2
5010TR185	R1/8″	5	8,0	21,0	35,5	11	1,0
5010TR145	R1/4″	5	10,0	21,0	38,5	14	1,0
5010TR125	R1/2″	5	10,0	21,0	41,4	22	1,0
5010TR186	R1/8″	6	8,0	23,0	37,5	11	1,0
5010TR146	R1/4″	6	10,0	23,0	40,5	14	2,0
5010TR386	R3/8″	6	10,0	23,0	40,5	17	3,0
5010TR126	R1/2″	6	12,5	23,0	44,0	22	6,0
5010TR346	R3/4″	6	14,5	23,0	46,0	22	8,2
5010TR188	R1/8″	8	8,0	25,0	39,5	11	2,0
5010TR148	R1/4″	8	10,0	25,0	42,5	14	2,0
5010TR388	R3/8″	8	10,0	25,0	42,5	17	3,0
5010TR128	R1/2″	8	12,5	25,0	46,0	22	6,0
5010TR348	R3/4″	8	12,5	25,0	47,1	27	6,0
5010TR1410	R1/4″	10	10,0	27,0	44,0	14	1,0
5010TR3810	R3/8″	10	10,0	27,0	44,0	17	4,0
5010TR1210	R1/2″	10	12,5	27,0	48,0	22	6,0
5010TR3410	R3/4″	10	14,5	27,0	50,0	27	9,1
5010TR1412	R1/4″	12	10,0	28,0	45,0	14	4,0
5010TR3812	R3/4″	12	10,0	28,0	45,0	17	4,0
5010TR1212	R1/2″	12	12,5	28,0	49,0	22	7,0
5010TR3412	R3/4″	12	14,5	28,0	51,0	27	9,2
5010TR3814	R3/8″	14	10,0	29,5	47,0	17	6,0
5010TR1214	R1/2″	14	12,5	29,5	50,5	22	7,0
5010TR3414	R3/4″	14	14,5	29,5	52,5	27	9,8
5010TR1216	R1/2″	16	12,5	30,0	51,0	22	8,0
5010TR3416	R3/4″	16	14,5	30,0	53,0	27	10,0
5010TR1219	R1/2″	19	12,5	31,0	52,0	22	9,0
5010TR3419	R3/4″	19	14,5	31,0	54,0	27	15,0
5010TR119	R1″	19	21,0	31,0	62,0	27	18,8

5020

Male elbow barb connector BSPT thread



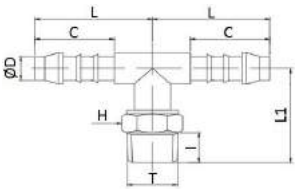


CODE	T	ØD	I	C	L	L1	H	GR.
5020TR184	R1/8"	4	8,0	16,0	22,5	21,0	11	1,0
5020TR144	R1/4"	4	10,0	16,0	22,5	24,0	14	1,0
5020TR185	R1/8"	5	8,0	21,0	28,0	24,0	11	1,0
5020TR145	R1/4"	5	10,0	21,0	28,0	26,0	14	3,0
5020TR125	R1/2"	5	13,0	21,0	28,0	30,0	22	6,0
5020TR186	R1/8"	6	8,5	23,5	31,5	23,5	11	1,0
5020TR146	R1/4"	6	10,0	23,0	31,0	26,0	14	3,0
5020TR386	R3/8"	6	10,5	23,0	31,0	26,0	17	3,0
5020TR126	R1/2"	6	13,0	23,5	31,5	30,0	22	7,0
5020TR188	R1/8"	8	8,0	25,0	36,0	26,0	11	3,0
5020TR148	R1/4"	8	10,0	25,0	36,0	28,0	14	3,0
5020TR388	R3/8"	8	10,5	25,0	36,0	28,0	17	5,0
5020TR128	R1/2"	8	13,0	25,0	36,0	30,5	22	7,0
5020TR1410	R1/4"	10	10,0	27,0	39,0	28,0	14	4,0
5020TR3810	R3/8"	10	10,5	27,0	39,0	28,0	17	6,0
5020TR1210	R1/2"	10	13,0	27,0	39,0	30,5	22	8,0
5020TR3410	R3/4"	10	14,5	27,0	39,0	33,5	27	9,9
5020TR1412	R1/4"	12	10,0	28,0	41,0	28,0	14	7,0
5020TR3812	R3/8"	12	10,5	28,0	41,0	28,0	17	8,0
5020TR1212	R1/2"	12	13,0	28,0	41,0	32,0	22	9,0
5020TR3412	R3/4"	12	14,5	28,0	41,0	34,0	27	12,0
5020TR3814	R3/8"	14	10,5	29,5	42,5	31,5	17	9,0
5020TR1214	R1/2"	14	13,0	29,5	42,5	34,0	22	11,0
5020TR3414	R3/4"	14	14,5	29,5	42,5	37,5	27	14,4
5020TR1216	R1/2"	16	12,5	30,0	44,0	36,0	22	13,0
5020TR3416	R3/4"	16	14,5	30,0	44,0	39,0	27	14,0
5020TR1219	R1/2"	19	12,5	31,0	45,0	36,0	22	15,0
5020TR3419	R3/4"	19	15,0	31,0	45,0	38,0	27	16,6

5025

Male tee barb connector BSPT thread



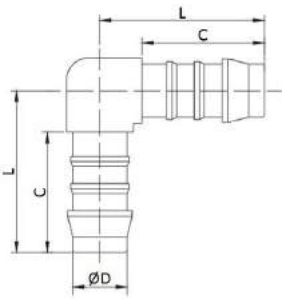


CODE	T	ØD	I	C	L	L1	H	GR.
5025TR184	R1/8"	4	8,0	16,0	19,5	18,5	11	1,0
5025TR144	R1/4"	4	10,5	16,0	19,5	21,5	14	2,5
5025TR185	R1/8"	5	8,0	21,0	25,0	19,5	11	1,0
5025TR145	R1/4"	5	10,5	21,0	25,0	22,5	14	3,0
5025TR186	R1/8"	6	8,5	23,5	31,5	23,5	11	1,0
5025TR146	R1/4"	6	10,5	23,0	27,5	23,0	14	3,0
5025TR386	R3/8"	6	13,0	23,0	27,5	23,0	17	4,1
5025TR126	R1/2"	6	12,5	23,0	27,5	27,0	22	7,1
5025TR188	R1/8"	8	8,0	25,0	30,5	21,5	11	3,0
5025TR148	R1/4"	8	10,5	25,0	30,5	24,5	14	5,0
5025TR388	R3/8"	8	10,5	25,0	30,5	24,5	17	6,0
5025TR128	R1/2"	8	13,0	25,0	30,5	28,5	22	7,5
5025TR1410	R1/4"	10	10,0	27,0	39,0	28,0	14	6,4
5025TR3810	R3/8"	10	10,5	27,0	39,0	28,0	17	7,3
5025TR1210	R1/2"	10	12,5	27,0	39,0	30,5	22	9,6
5025TR3410	R3/4"	10	13,0	27,0	39,0	31,5	27	11,8
5025TR1412	R1/4"	12	10,0	28,0	41,0	28,0	14	15,0
5025TR3812	R3/8"	12	10,5	28,0	41,0	28,0	17	9,0
5025TR1212	R1/2"	12	13,0	28,0	41,0	31,5	22	12,6
5025TR3412	R3/4"	12	13,0	28,0	41,0	31,5	27	14,3
5025TR3814	R3/8"	14	10,5	29,5	42,5	31,5	17	12,8
5025TR1214	R1/2"	14	12,5	29,5	42,5	34,0	22	15,0
5025TR3414	R3/4"	14	13,0	30,0	42,5	35,0	27	17,9
5025TR1216	R1/2"	16	12,5	30,0	44,0	36,0	22	15,0
5025TR3416	R3/4"	16	13,5	30,0	44,0	37,0	27	18,6
5025TR1219	R1/2"	19	12,5	31,0	45,0	36,0	22	19,6
5025TR3419	R3/4"	19	13,5	31,0	45,0	36,0	27	21,6

5030

Union elbow barb connector



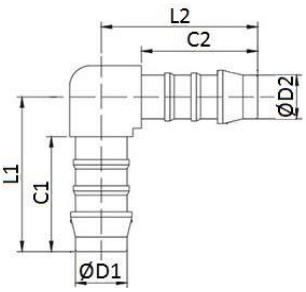


CODE	ØD	C	L	GR.
5030TR4	4	16,0	23,0	1,0
5030TR5	5	21,0	28,5	1,2
5030TR6	6	23,0	31,5	1,5
5030TR8	8	25,0	36,5	3,0
5030TR10	10	27,0	39,0	4,0
5030TR12	12	28,0	40,0	7,0
5030TR14	14	29,5	42,5	9,0
5030TR16	16	30,0	44,0	11,0
5030TR19	19	31,0	45,0	13,0

5035

Reduced union elbow barb connector



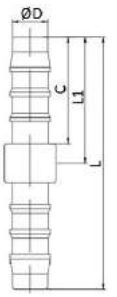


CODE	ØD1	ØD2	C1	L1	C2	L2	GR.
5035TR54	5	4	21,0	28,5	16,0	23,0	1,0
5035TR64	6	4	21,0	35,5	16,0	29,0	1,0
5035TR65	6	5	23,0	31,5	21,0	28,5	1,5
5035TR86	8	6	25,0	36,5	23,0	31,5	2,0
5035TR106	10	6	27,0	39,0	23,0	31,5	3,8
5035TR108	10	8	27,0	39,0	25,0	36,5	4,0
5035TR1210	12	10	28,0	40,0	27,0	39,0	7,0
5035TR1412	14	12	29,5	42,5	28,0	40,0	9,0
5035TR1614	16	14	30,0	44,0	29,5	42,5	11,0
5035TR1916	19	16	31,0	45,0	30,0	44,0	14,0

5040

Union barb connector



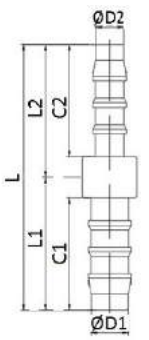


CODE	ØD	C	L1	L	GR.
5040TR4	4	16,0	18,0	36,0	1,0
5040TR5	5	21,0	23,5	47,0	1,2
5040TR6	6	23,0	26,0	52,0	1,5
5040TR8	8	25,0	29,0	58,0	2,0
5040TR10	10	27,0	31,5	63,0	3,0
5040TR12	12	28,0	33,0	66,0	4,0
5040TR14	14	29,5	35,5	71,0	7,5
5040TR16	16	30,0	36,0	72,0	9,0
5040TR19	19	31,0	37,0	74,0	11,0

5045

Reduced union elbow barb connector



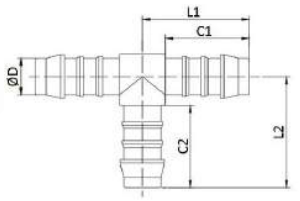


CODE	ØD1	ØD2	C1	L1	C2	L2	L	GR.
5045TR54	5	4	21,0	23,5	16,0	18,0	41,5	1,0
5045TR64	6	4	23,0	26,0	16,0	18,0	44,0	1,0
5045TR65	6	5	23,0	26,0	21,0	23,5	49,5	1,0
5045TR85	8	5	25,0	29,5	21,0	23,5	53,0	2,0
5045TR86	8	6	25,0	29,0	23,0	26,0	55,0	3,0
5045TR106	10	6	27,0	31,5	23,0	26,0	57,5	3,0
5045TR108	10	8	27,0	31,5	25,0	29,0	60,5	3,0
5045TR128	12	8	28,0	33,0	25,0	29,0	62,0	3,0
5045TR1210	12	10	28,0	33,0	27,0	31,5	64,5	5,0
5045TR1410	14	10	29,5	35,5	27,0	31,5	67,0	6,0
5045TR1412	14	12	29,5	35,5	28,0	33,0	68,5	7,0
5045TR1612	16	12	30,0	36,0	28,0	33,0	69,0	7,0
5045TR1614	16	14	30,0	36,0	29,5	35,5	71,5	8,0
5045TR1914	19	14	31,0	37,0	29,5	35,5	72,5	10,0
5045TR1916	19	16	31,0	37,0	30,0	36,0	73,0	10,0

5050

Union tee barb connector



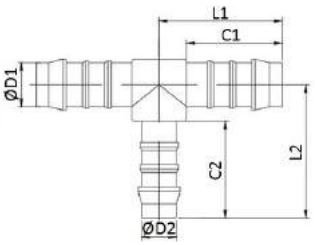


CODE	ØD	C1	L1	C2	L2	GR.
5050TR4	4	16,0	19,0	16,0	20,5	1,0
5050TR5	5	21,0	25,0	21,0	26,5	1,0
5050TR6	6	23,0	27,5	23,0	29,0	1,0
5050TR8	8	25,0	30,5	25,0	32,5	3,0
5050TR10	10	27,0	33,0	27,0	33,5	5,0
5050TR12	12	28,0	34,0	28,0	37,5	8,0
5050TR14	14	29,5	42,5	29,5	42,5	12,0
5050TR16	16	30,0	44,0	30,0	44,0	13,0
5050TR19	19	31,0	45,0	31,0	45,0	17,0

5055

Reduced union tee barb connector



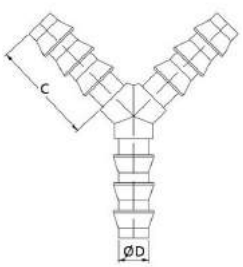


CODE	ØD1	ØD2	C1	L1	C2	L2	GR.
5055TR54	5	4	21,0	25,0	16,0	21,5	1,0
5055TR65	6	5	23,0	27,5	21,0	27,0	2,0
5055TR86	8	6	25,0	30,5	23,0	30,5	3,0
5055TR108	10	8	27,0	33,0	25,0	34,0	4,0
5055TR1210	12	10	28,0	34,5	27,0	36,5	7,0
5055TR1412	14	12	29,5	37,0	28,0	38,5	11,0
5055TR1614	16	14	30,0	39,0	29,5	41,5	13,0
5055TR1916	19	16	31,0	41,0	30,0	43,0	17,0

5060

Y barb connector



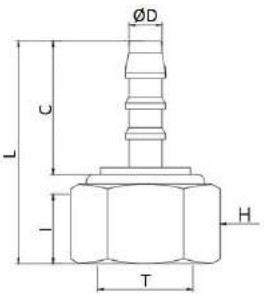


CODE	ØD	C	GR.
5060TR4	4	16,5	1,0
5060TR6	6	23,5	1,5
5060TR8	8	25,5	3,0
5060TR10	10	24,0	5,0
5060TR17	17	24,0	7,0

5070

Swivel female barb connector BSPT thread



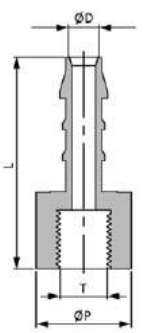


CODE	T	ØD	I	C	L	H	GR.
5070TR184	R1/8"	4	10,0	16,0	27,5	13	1,0
5070TR144	R1/4"	4	14,2	16,0	31,7	16	1,0
5070TR185	R1/8"	5	10,0	21,0	32,5	13	1,2
5070TR145	R1/4"	5	15,0	21,0	36,7	16	1,5
5070TR385	R3/8"	5	14,5	21,0	40,2	20	2,0
5070TR146	R1/4"	6	15,0	23,0	38,7	16	2,0
5070TR386	R3/8"	6	14,5	23,0	39,0	20	3,0
5070TR126	R1/2"	6	17,0	23,0	41,5	24	6,0
5070TR148	R1/4"	8	14,2	25,0	40,2	16	2,0
5070TR388	R3/8"	8	14,5	25,0	41,0	20	2,0
5070TR128	R1/2"	8	17,0	25,0	43,5	24	3,0
5070TR348	R3/4"	8	17,0	25,0	43,5	30	6,0
5070TR3810	R3/8"	10	14,5	27,0	43,0	20	4,0
5070TR1210	R1/2"	10	17,0	27,0	45,5	24	6,0
5070TR3410	R3/4"	10	17,0	27,0	45,5	30	9,0
5070TR1212	R1/2"	12	17,0	28,0	46,5	24	8,0
5070TR3412	R3/4"	12	17,0	28,0	46,5	30	10,0
5070TR1214	R1/2"	14	17,0	29,5	48,0	24	8,0
5070TR3414	R3/4"	14	17,0	29,5	48,0	30	10,0
5070TR3416	R3/4"	16	17,0	30,0	48,5	30	11,0
5070TR3419	R3/4"	19	17,0	31,0	49,5	30	16,0

5007

Female barb connector NPT thread



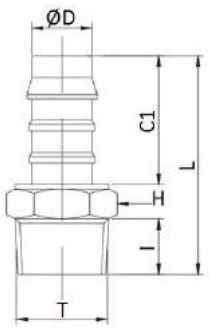


CODE	T	ØD	ØP	L	GR.
5007TR1814	N1/8"	1/4"	14	36,7	2,24
5007TR1414	N1/4"	1/4"	17	40,1	3,5
5007TR3814	N3/8"	1/4"	22	40,0	5,29
5007TR1214	N1/2"	1/4"	27	43,7	7,95
5007TR18516	N1/8"	5/16"	14	38,9	2,5
5007TR14516	N1/4"	5/16"	17	41,8	3,58
5007TR38516	N3/8"	5/16"	22	42,0	5,6
5007TR12516	N1/2"	5/16"	27	45,0	8,1
5007TR1438	N1/4"	3/8"	17	44,1	4,09
5007TR3838	N3/8"	3/8"	22	43,9	6,1
5007TR1238	N1/2"	3/8"	27	47,2	8,7
5007TR1412	N1/4"	1/2"	17	44,7	4,64
5007TR3812	N3/8"	1/2"	22	45,2	6,55
5007TR1212	N1/2"	1/2"	27	48,8	9,2
5007TR1258	N1/2"	5/8"	27	50,4	10,1
5007TR1234	N1/2"	3/4"	27	51,7	10,6

5015

Male barb connector NPT thread



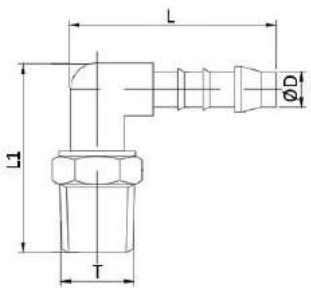


CODE	T	ØD	I	C1	L	H	GR.
5015TR18532	N1/8"	5/32"	8,0	16,0	30,5	11	1,0
5015TR18316	N1/8"	3/16"	9,0	21,0	20,5	11	1,0
5015TR14316	N1/4"	3/16"	13,0	21,0	40,5	14	1,0
5015TR1814	N1/8"	1/4"	9,0	23,0	32,5	17	1,5
5015TR14	N1/4"	1/4"	13,0	23,0	42,5	22	1,0
5015TR3814	N3/8"	1/4"	13,0	23,0	44,0	11	3,0
5015TR1214	N1/2"	1/4"	18,0	23,0	49,0	14	6,4
5015TR18516	N1/8"	5/16"	9,0	25,0	34,5	17	1,8
5015TR14516	N1/4"	5/16"	13,0	25,0	44,5	22	2,7
5015TR38516	N3/8"	5/16"	13,0	25,0	46,0	14	4,1
5015TR12516	N1/2"	5/16"	18,0	25,0	51,0	22	6,8
5015TR1438	N1/4"	3/8"	13,0	27,0	46,5	22	3,0
5015TR38	N3/8"	3/8"	13,0	27,0	48,0	27	5,0
5015TR1238	N1/2"	3/8"	18,0	27,0	53,0	22	7,4
5015TR3438	N3/4"	3/8"	19,0	27,0	54,0	27	9,8
5015TR1412	N1/4"	1/2"	13,0	28,0	47,5	22	3,5
5015TR3812	N3/8"	1/2"	13,0	28,0	49,0	17,5	5,0
5015TR12	N1/2"	1/2"	18,0	28,0	54,0	27	7,6
5015TR3412	N3/4"	1/2"	19,0	28,0	55,0	22	10,3
5015TR1258	N1/2"	5/8"	18,0	30,0	56,0	22	8,5
5015TR3458	N3/4"	5/8"	19,0	30,0	57,0	27	11,2
5015TR1234	N1/2"	3/4"	18,0	31,0	57,0	22	9,1
5015TR34	N3/4"	3/4"	19,0	31,0	58,0	27	11,9

5022

Male elbow barb connector NPT thread



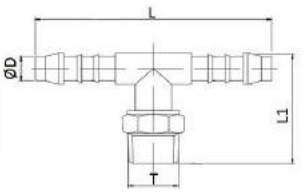


CODE	T	ØD	L	L1	GR.
5022TR18532	5/32"	N1/8"	25,7	26,0	1,58
5022TR14532	5/32"	N1/4"	25,9	31,1	2,5
5022TR18316	3/16"	N1/8"	31,8	28,6	2,0
5022TR14316	3/16"	N1/4"	33,4	31,8	-
5022TR12316	3/16"	N1/2"	41,8	31,8	-
5022TR1814	1/4"	N1/8"	35,4	29,0	2,29
5022TR1414	1/4"	N1/4"	35,5	33,7	3,3
5022TR3814	1/4"	N3/8"	35,5	33,8	4,8
5022TR1214	1/4"	N1/2"	42,2	35,5	6,7
5022TR18516	5/16"	N1/8"	41,5	32,1	3,30
5022TR14516	5/16"	N1/4"	41,2	36,7	4,25
5022TR38516	5/16"	N3/8"	41,5	36,6	5,4
5022TR12516	5/16"	N1/2"	41,5	43,1	8,7
5022TR1438	3/8"	N1/4"	45,4	37,7	4,8
5022TR3838	3/8"	N3/8"	45,3	37,5	6,2
5022TR1238	3/8"	N1/2"	45,4	44,4	7,8
5022TR3438	3/8"	N3/4"	45,4	44,0	12,4
5022TR1412	1/2"	N1/4"	48,6	39,0	-
5022TR3812	1/2"	N3/8"	48,3	28,6	7,8
5022TR1212	1/2"	N1/2"	48,7	45,2	11,1
5022TR3412	1/2"	N3/4"	48,7	45,2	14,1
5022TR1258	5/8"	N1/2"	53,8	51,5	14,4
5022TR3458	5/8"	N3/4"	53,8	51,4	17,5
5022TR1234	3/4"	N1/2"	56,6	52,8	16,1
5022TR3434	3/4"	N3/4"	56,2	53,0	18,8

5027

Male tee barb connector NPT thread



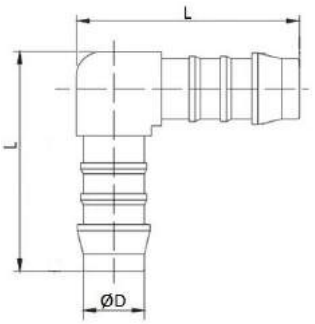


CODE	T	ØD	L	L1	GR.
5027TR18532	N1/8"	5/32"	45,1	26,0	1,44
5027TR14532	N1/4"	5/32"	45,1	30,7	2,69
5027TR18316	N1/8"	3/16"	56,3	28,6	2,4
5027TR14316	N1/4"	3/16"	56,3	33,4	3,34
5027TR12316	N1/2"	3/16"	56,3	39,3	7,8
5027TR1814	N1/8"	1/4"	63,0	29,4	-
5027TR1414	N1/4"	1/4"	63,0	33,8	3,86
5027TR3814	N3/8"	1/4"	63,0	33,7	6,55
5027TR1214	N1/2"	1/4"	63,0	40,3	9,57
5027TR18516	N1/8"	5/16"	72,5	32,3	4,51
5027TR14516	N1/4"	5/16"	72,5	36,8	5,46
5027TR38516	N3/8"	5/16"	72,5	36,9	6,65
5027TR12516	N1/2"	5/16"	72,5	42,8	9,68
5027TR1438	N1/4"	3/8"	78,5	38,0	5,14
5027TR3838	N3/8"	3/8"	78,5	37,7	7,78
5027TR1238	N1/2"	3/8"	78,5	44,0	10,52
5027TR3438	N3/4"	3/8"	78,5	43,8	13,91
5027TR1412	N1/4"	1/2"	82,6	39,3	8,62
5027TR3812	N3/8"	1/2"	82,6	38,8	11
5027TR1212	N1/2"	1/2"	82,6	45,5	14,44
5027TR3412	N3/4"	1/2"	82,6	45,5	20,42
5027TR1258	N1/2"	5/8"	88,4	51,5	18,28
5027TR3458	N3/4"	5/8"	88,4	51,1	21
5027TR1234	N1/2"	3/4"	90,5	53,0	16,6
5027TR3434	N3/4"	3/4"	90,5	52,5	23,02

5032

Elbow barb connector



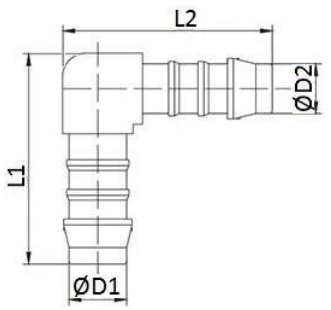


CODE	ØD	L	GR.
5032TR532	5/32"	25,6	0,65
5032TR316	3/16"	33,2	1,19
5032TR14	1/4"	36,1	1,77
5032TR516	5/16"	41,4	3,18
5032TR38	3/8"	44,6	4,42
5032TR12	1/2"	47,6	6,7
5032TR58	5/8"	54,3	11,17
5032TR34	3/4"	56,7	13,6

5037

Reduced union elbow barb connector



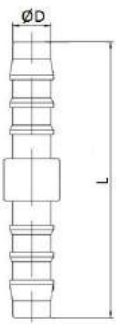


CODE	ØD1	ØD2	L1	L2	GR.
5037TR316532	3/16"	5/32"	31,8	27,9	1,5
5037TR14316	1/4"	3/16"	35,4	34,1	2,0
5037TR51614	5/16"	1/4"	39,4	41,6	2,3
5037TR3814	3/8"	1/4"	40,2	45,3	3,8
5037TR38516	3/8"	5/16"	42,5	45,5	4,0
5037TR1238	1/2"	3/8"	45,8	48,6	6,5
5037TR3458	3/4"	5/8"	55,8	55,8	7,2

5042

Union barb connector



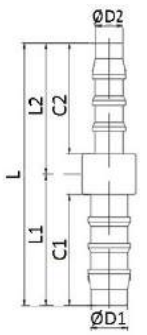


CODE	ØD	L	GR.
5042TR532	5/32"	25,6	0,65
5042TR316	3/16"	33,2	1,19
5042TR14	1/4"	36,1	1,77
5042TR516	5/16"	41,4	3,18
5042TR38	3/8"	44,6	4,42
5042TR12	1/2"	47,6	6,7
5042TR58	5/8"	54,3	11,17
5042TR34	3/4"	56,7	13,6

5047

Reduced union barb connector

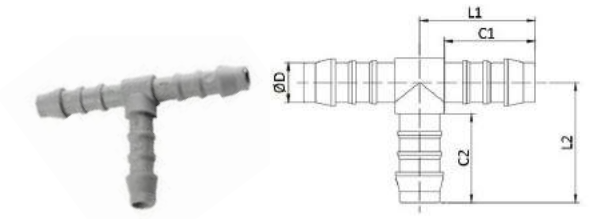




CODE	ØD1	ØD2	C1	L1	C2	L2	L	GR.
5047TR316532	3/16"	5/32"	-	-	-	-	42,2	0,62
5047TR14532	1/4"	5/32"	-	-	-	-	45,7	0,86
5047TR14316	1/4"	3/16"	23,5	26,0	21,0	23,5	49,5	1,0
5047TR516316	5/16"	3/16"	24,0	29,5	21,0	23,5	53,0	2,0
5047TR51614	5/16"	1/4"	25,0	29,0	23,0	26,0	55,0	2,1
5047TR3814	1/2"	1/4"	25,5	31,5	23,0	27,0	58,5	2,5
5047TR38516	3/8"	5/16"	27,0	31,5	25,0	29,0	60,5	2,8
5047TR12516	1/2"	5/16"	28,0	33,0	25,0	29,0	62,0	4,1
5047TR1238	1/2"	3/8"	29,5	33,0	27,0	31,5	64,5	4,6
5047TR5812	5/8"	1/2"	30,5	36,0	28,0	33,0	69,0	7,5
5047TR3458	3/4"	5/8"	31,0	37,0	30,0	37,0	74,0	10,0

5052

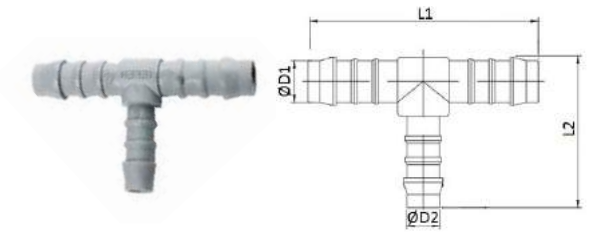
Union tee barb connector



CODE	ØD	C1	L1	C2	L2	GR.
5052TR532	5/32″	-	39,4	-	24,3	0,62
5052TR316	3/16″	21,0	25,0	21,0	27,5	1,2
5052TR14	1/4″	23,0	27,5	23,0	29,0	1,9
5052TR516	5/16″	25,0	30,5	25,0	32,5	3,2
5052TR38	3/8″	26,5	33,0	27,0	35,5	5,5
5052TR12	1/2″	28,0	34,0	28,0	37,5	9,0
5052TR58	5/8″	30,0	44,0	30,0	44,0	14,0
5052TR34	3/4″	31,0	45,0	31,0	45,0	17,0

5057

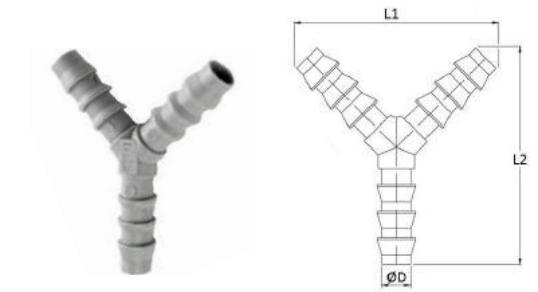
Union tee barb connector



CODE	ØD1	ØD2	L1	L2	GR.
5057TR316532	3/16″	5/32″	50,6	25,9	1,1
5057TR14316	1/4″	3/16″	55,8	32,0	1,74
5057TR51614	5/16″	1/4″	61,5	36,2	2,94
5057TR38516	3/8″	5/16″	66,5	39,3	1,1
5057TR1238	1/2″	3/8″	70,3	43,5	7,75
5057TR3458	3/4″	5/8″	84,3	55,2	16,42

5062

Union Y barb connector



CODE	ØD	L1	L2	GR.
5062TR532	5/32″	30,8	35,5	0,65
5062TR14	1/4″	44,3	50,8	2,095
5062TR516	5/16″	49,4	55,6	3,35
5062TR38	3/8″	54,9	60,8	4,93



BARB CONNECTORS PVDF

PLUS

FITTINGS MADE OF PVDF CAN FUNCTION WELL, EVEN WHEN EXPOSED TO A WIDE RANGE OF TEMPERATURES AND HIGH CORROSIVE CHEMICALS

ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE



p. 278 / **5905**



p. 279 / **5910**



p. 279 / **5920**



p. 280 / **5925**



p. 281 / **5930**



p. 281 / **5935**



p. 281 / **5940**



p. 282 / **5945**



p. 282 / **5950**



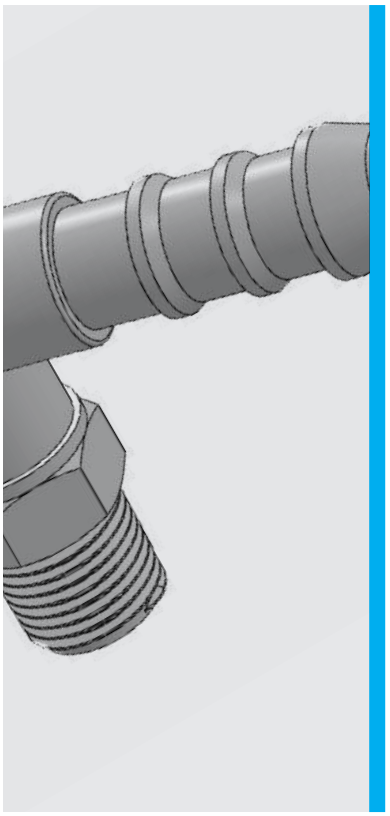
p. 282 / **5955**



p. 283 / **5960**



p. 283 / **5970**



20°C ÷ +120°C
subject to applications

up to 14 Bar at 20°C
depending from the used tube

Compressed air, water and food fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1"

Polyurethane, Polyethylene, polyammide, silicon, PTFE, FEP

Polyvinylidene fluoride (PVDF)

FEATURES

Fittings made of pvdf can function well, even when exposed to a wide range of temperatures and high corrosive chemicals

Available on demand with INCH tube and NPT thread

REACH

Products in compliance with the directive 2002/95/EC

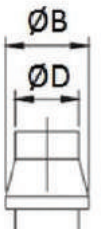
RoHS2

Products in compliance with the directive 2011/65/EU

DM174 EC1935

DIAMETER OF THE BARB

ØD	Ø 4 mm	Ø 5 mm	Ø 6 mm	Ø 8mm	Ø 10 mm	Ø 12 mm	Ø 14 mm	Ø 16 mm	Ø 19 mm
ØB (mm)	5,2 mm	6,3 mm	8,0 mm	10,0 mm	12,0 mm	14,0 mm	16,2 mm	18,2 mm	21,0 mm



PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube

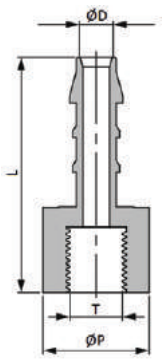
RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,1	0,07
1/4	1	0,8
3/8	5	3
1/2	8	6
3/4	16	12

5905

Female hose connector BSPT thread



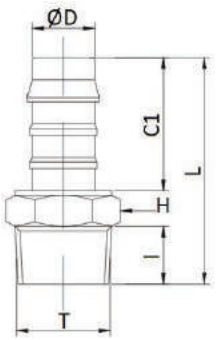


CODE	T	ØD	L	ØP	GR.
5905TR185	R1/8"	5	34,4	14	2,0
5905TR145	R1/4"	5	35,2	17	2,7
5905TR385	R3/8"	5	36,5	22	4,57
5905TR125	R1/2"	5	38,7	26	6,6
5905TR186	R1/8"	6	36,3	14	2,15
5905TR146	R1/4"	6	37,2	17	2,9
5905TR386	R3/8"	6	38,3	22	4,8
5905TR126	R1/2"	6	40,8	26	7,0
5905TR188	R1/8"	8	38,2	14	2,5
5905TR148	R1/4"	8	39,4	17	5,0
5905TR388	R3/8"	8	40,4	22	7,1
5905TR128	R1/2"	8	42,7	26	3,6
5905TR1410	R1/4"	10	41,5	17	5,4
5905TR3810	R3/8"	10	42,3	22	7,5
5905TR1210	R1/2"	10	45,0	26	4,1
5905TR1412	R1/4"	12	42,4	17	6,2
5905TR3812	R3/8"	12	43,3	22	8,0
5905TR1212	R1/2"	12	46,0	26	6,9
5905TR3814	R3/8"	14	45,0	22	8,7
5905TR1214	R1/2"	14	47,3	26	9,0
5905TR1216	R1/2"	16	48,1	26	9,5
5905TR1219	R1/2"	19	48,8	26	4,7

5910

Male barb connector BSPT thread



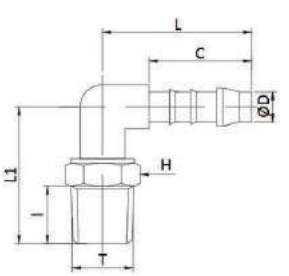


CODE	T	ØD	I	C1	L	H	GR.
5910TR184	R1/8"	4	8,0	16,0	30,5	11	1,0
5910TR144	R1/4"	4	10,0	16,0	33,5	14	1,2
5910TR185	R1/8"	5	8,0	21,0	35,5	11	1,0
5910TR145	R1/4"	5	10,0	21,0	38,5	14	1,0
5910TR186	R1/8"	6	8,0	23,0	37,5	11	1,0
5910TR146	R1/4"	6	10,0	23,0	40,5	14	2,0
5910TR386	R3/8"	6	10,0	23,0	40,5	17	3,0
5910TR126	R1/2"	6	12,5	23,0	44,0	22	6,0
5910TR346	R3/4"	6	14,5	23,0	46,0	22	8,2
5910TR188	R1/8"	8	8,0	25,0	39,5	11	2,0
5910TR148	R1/4"	8	10,0	25,0	42,5	14	2,0
5910TR388	R3/8"	8	10,0	25,0	42,5	17	3,0
5910TR128	R1/2"	8	12,5	25,0	46,0	22	6,0
5910TR348	R3/4"	8	12,5	25,0	37,1	17	4,7
5910TR1410	R1/4"	10	10,0	27,0	44,0	14	1,0
5910TR3810	R3/8"	10	10,0	27,0	44,0	17	4,0
5910TR1210	R1/2"	10	12,5	27,0	48,0	22	6,0
5910TR3410	R3/4"	10	14,5	27,0	50,0	27	9,1
5910TR1412	R1/4"	12	10,0	28,0	45,0	14	4,0
5910TR3812	R3/8"	12	10,0	28,0	45,0	17	4,0
5910TR1212	R1/2"	12	12,5	28,0	49,0	22	7,0
5910TR3412	R3/4"	12	14,5	28,0	51,0	27	9,2
5910TR3814	R3/8"	14	10,0	29,5	47,0	17	6,0
5910TR1214	R1/2"	14	12,5	29,5	50,5	22	7,0
5910TR3414	R3/4"	14	14,5	29,5	52,5	27	9,8
5910TR1216	R1/2"	16	12,5	30,0	51,0	22	8,0
5910TR3416	R3/4"	16	14,5	30,0	53,0	27	10,0
5910TR1219	R1/2"	19	12,5	31,0	52,0	22	9,0
5910TR3419	R3/4"	19	14,5	31,0	54,0	27	15,0
5910TR119	R1"	19	21,0	31,0	62,0	27	18,8
5910TR3425	R3/4"	25	21,0	31,0	54,8	27	17,0
5910TR125	R1"	25	21,0	31,0	66,6	36	19,5

5920

Male elbow barb connector BSPT thread





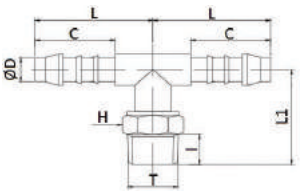
CODE	T	ØD	I	C	L	L1	H	GR.
5920TR184	R1/8"	4	8,0	16,0	22,5	21,0	11	1,0
5920TR144	R1/4"	4	10,0	16,0	22,5	24,0	14	1,0
5920TR185	R1/8"	5	8,0	21,0	28,0	24,0	11	1,0
5920TR145	R1/4"	5	10,0	21,0	28,0	26,0	14	3,0
5920TR125	R1/2"	5	13,0	21,0	28,0	30,0	22	6,0
5920TR186	R1/8"	6	8,5	23,5	31,5	23,5	11	1,0
5920TR146	R1/4"	6	10,0	23,0	31,0	26,0	14	3,0
5920TR386	R3/8"	6	10,5	23,0	31,0	26,0	17	3,0
5920TR126	R1/2"	6	13,0	23,5	31,5	30,0	22	7,0
5920TR188	R1/8"	8	8,0	25,0	36,0	26,0	11	3,0
5920TR148	R1/4"	8	10,0	25,0	36,0	28,0	14	3,0

5920TR388	R3/8″	8	10,5	25,0	36,0	28,0	17	5,0
5920TR128	R1/2″	8	13,0	25,0	36,0	30,5	22	7,0
5920TR1410	R1/4″	10	10,0	27,0	39,0	28,0	14	4,0
5920TR3810	R3/8″	10	10,5	27,0	39,0	28,0	17	6,0
5920TR1210	R1/2″	10	13,0	27,0	39,0	30,5	22	8,0
5920TR3410	R3/4″	10	14,5	27,0	39,0	33,5	27	9,9
5920TR1412	R1/4″	12	10,0	28,0	41,0	28,0	14	7,0
5920TR3812	R3/8″	12	10,5	28,0	41,0	28,0	17	8,0
5920TR1212	R1/2″	12	13,0	28,0	41,0	32,0	22	9,0
5920TR3412	R3/4″	12	14,5	28,0	41,0	34,0	27	12,0
5920TR3814	R3/8″	14	10,5	29,5	42,5	31,5	17	9,0
5920TR1214	R1/2″	14	13,0	29,5	42,5	34,0	22	11,0
5920TR3414	R3/4″	14	14,5	29,5	42,5	37,5	27	14,4
5920TR1216	R1/2″	16	12,5	30,0	44,0	36,0	22	13,0
5920TR3416	R3/4″	16	14,5	30,0	44,0	39,0	27	14,0
5920TR1219	R1/2″	19	12,5	31,0	45,0	36,0	22	15,0
5920TR3419	R3/4″	19	15,0	31,0	45,0	38,0	27	16,6

5925

Male tee barb connector BSPT thread



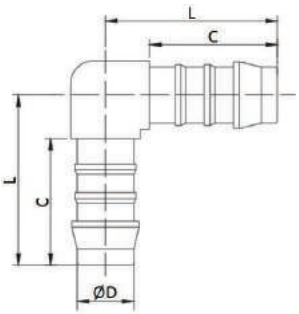


CODE	T	ØD	I	C	L	L1	H	GR.
5925TR184	R1/8″	4	8,0	16,0	19,5	18,5	11	1,0
5925TR144	R1/4″	4	10,5	16,0	19,5	21,5	14	2,5
5925TR185	R1/8″	5	8,0	21,0	25,0	19,5	11	1,0
5925TR145	R1/4″	5	10,5	21,0	25,0	22,5	14	3,0
5925TR186	R1/8″	6	8,5	23,5	31,5	23,5	11	1,0
5925TR146	R1/4″	6	10,5	23,0	27,5	23,0	14	3,0
5925TR386	R3/8″	6	13,0	23,0	27,5	23,0	17	4,1
5925TR126	R1/2″	6	12,5	23,0	27,5	27,0	22	7,1
5925TR188	R1/8″	8	8,0	25,0	30,5	21,5	11	3,0
5925TR148	R1/4″	8	10,5	25,0	30,5	24,5	14	5,0
5925TR388	R3/8″	8	10,5	25,0	30,5	24,5	17	6,0
5925TR128	R1/2″	8	13,0	25,0	30,5	28,5	22	7,5
5925TR1410	R1/4″	10	10,0	27,0	39,0	28,0	14	6,4
5925TR3810	R3/8″	10	10,5	27,0	39,0	28,0	17	7,3
5925TR1210	R1/2″	10	12,5	27,0	39,0	30,5	22	9,6
5925TR3410	R3/4″	10	13,0	27,0	39,0	31,5	27	11,8
5925TR1412	R1/4″	12	10,0	28,0	41,0	28,0	14	15,0
5925TR3812	R3/8″	12	10,5	28,0	41,0	28,0	17	9,0
5925TR1212	R1/2″	12	13,0	28,0	41,0	31,5	22	12,6
5925TR3412	R3/4″	12	13,0	28,0	41,0	31,5	27	14,3
5925TR3814	R3/8″	14	10,5	29,5	42,5	31,5	17	12,8
5925TR1214	R1/2″	14	12,5	29,5	42,5	34,0	22	15,0
5925TR3414	R3/4″	14	13,0	30,0	42,5	35,0	27	17,9
5925TR1216	R1/2″	16	12,5	30,0	44,0	36,0	22	15,0
5925TR3416	R3/4″	16	13,5	30,0	44,0	37,0	27	18,6
5925TR1219	R1/2″	19	12,5	31,0	45,0	36,0	22	19,6
5925TR3419	R3/4″	19	13,5	31,0	45,0	36,0	27	21,6

5930

Union elbow barb connector



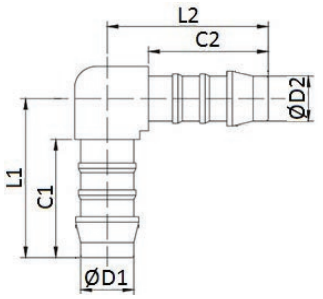


CODE	ØD	C	L	GR.
5930TR4	4	16,0	23,0	1,0
5930TR5	5	21,0	28,5	1,2
5930TR6	6	23,0	31,5	1,5
5930TR8	8	25,0	36,5	3,0
5930TR10	10	27,0	39,0	4,0
5930TR12	12	28,0	40,0	7,0
5930TR14	14	29,5	42,5	9,0
5930TR16	16	30,0	44,0	11,0
5930TR19	19	31,0	45,0	13,0

5935

Reduced union elbow barb connector



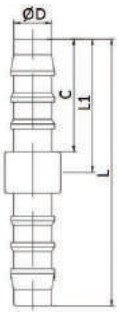


CODE	ØD1	ØD2	C1	L1	C2	L2	GR.
5935TR54	5	4	21,0	28,5	16,0	23,0	1,0
5935TR64	6	4	21,0	35,5	-	29,0	-
5935TR65	6	5	23,0	31,5	21,0	28,5	1,5
5935TR86	8	6	25,0	36,5	23,0	31,5	2,0
5935TR106	10	6	27,0	39,0	23,0	31,5	3,8
5935TR108	10	8	27,0	39,0	25,0	36,5	4,0
5935TR1210	12	10	28,0	40,0	27,0	39,0	7,0
5935TR1412	14	12	29,5	42,5	28,0	40,0	9,0
5935TR1614	16	14	30,0	44,0	29,5	42,5	11,0
5935TR1916	19	16	31,0	45,0	30,0	44,0	14,0

5940

Union barb connector



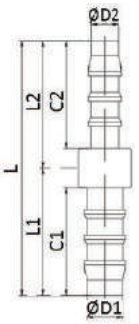


CODE	ØD	C	L1	L	GR.
5940TR4	4	16,0	18,0	36,0	1,0
5940TR5	5	21,0	23,5	47,0	1,2
5940TR6	6	23,0	26,0	52,0	1,5
5940TR8	8	25,0	29,0	58,0	2,0
5940TR10	10	27,0	31,5	63,0	3,0
5940TR12	12	28,0	33,0	66,0	4,0
5940TR14	14	29,5	35,5	71,0	7,5
5940TR16	16	30,0	36,0	72,0	9,0
5940TR19	19	31,0	37,0	74,0	11,0

5945

Reduced union barb connector



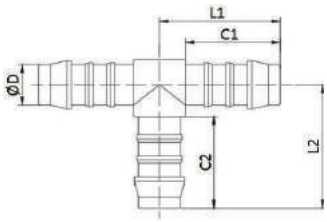


CODE	ØD1	ØD2	C1	L1	C2	L2	L	GR.
5945TR54	5	4	21,0	23,5	16,0	18,0	41,5	1,0
5945TR64	6	4	23,0	26,0	16,0	18,0	44,0	1,0
5945TR65	6	5	23,0	26,0	21,0	23,5	49,5	1,0
5945TR85	8	5	25,0	29,5	21,0	23,5	53,0	2,0
5945TR86	8	6	25,0	29,0	23,0	26,0	55,0	3,0
5945TR106	10	6	27,0	31,5	23,0	26,0	57,5	3,0
5945TR108	10	8	27,0	31,5	25,0	29,0	60,5	3,0
5945TR128	12	8	28,0	33,0	25,0	29,0	62,0	3,0
5945TR1210	12	10	28,0	33,0	27,0	31,5	64,5	5,0
5945TR1410	14	10	29,5	35,5	27,0	31,5	67,0	6,0
5945TR1412	14	12	29,5	35,5	28,0	33,0	68,5	7,0
5945TR1612	16	12	30,0	36,0	28,0	33,0	69,0	7,0
5945TR1614	16	14	30,0	36,0	29,5	35,5	71,5	8,0
5945TR1914	19	14	31,0	37,0	29,5	35,5	72,5	10,0
5945TR1916	19	16	31,0	37,0	30,0	36,0	73,0	10,0

5950

Union tee barb connector



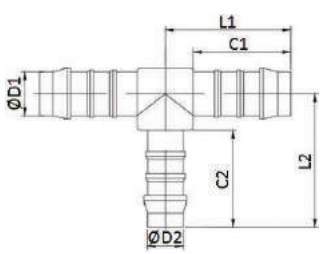


CODE	ØD	C1	L1	C2	L2	GR.
5950TR4	4	16,0	19,0	16,0	20,5	1,0
5950TR5	5	21,0	25,0	21,0	26,5	1,0
5950TR6	6	23,0	27,5	23,0	29,0	1,0
5950TR8	8	25,0	30,5	25,0	32,5	3,0
5950TR10	10	27,0	33,0	27,0	33,5	5,0
5950TR12	12	28,0	34,0	28,0	37,5	8,0
5950TR14	14	29,5	42,5	29,5	42,5	12,0
5950TR16	16	30,0	44,0	30,0	44,0	13,0
5950TR19	19	31,0	45,0	31,0	45,0	17,0

5955

Reduced union tee barb connector



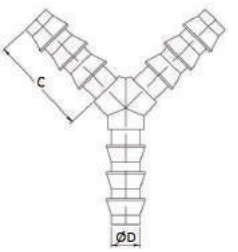


CODE	ØD1	ØD2	C1	L1	C2	L2	GR.
5955TR54	5	4	21,0	25,0	16,0	21,5	1,0
5955TR65	6	5	23,0	27,5	21,0	27,0	2,0
5955TR86	8	6	25,0	30,5	23,0	30,5	3,0
5955TR108	10	8	27,0	33,0	25,0	34,0	4,0
5955TR1210	12	10	28,0	34,5	27,0	36,5	7,0
5955TR1412	14	12	29,5	37,0	28,0	38,5	11,0
5955TR1614	16	14	30,0	39,0	29,5	41,5	13,0
5955TR1916	19	16	31,0	41,0	30,0	43,0	17,0

5960

Y barb connector



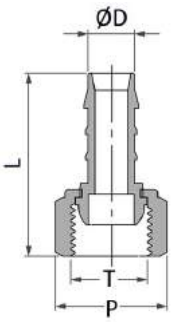


CODE	ØD	C	GR.
5960TR4	4	16,5	1,0
5960TR6	6	23,5	1,5
5960TR8	8	25,5	3,0
5960TR10	10	24,0	5,0
5960TR17	17	24,0	7,0

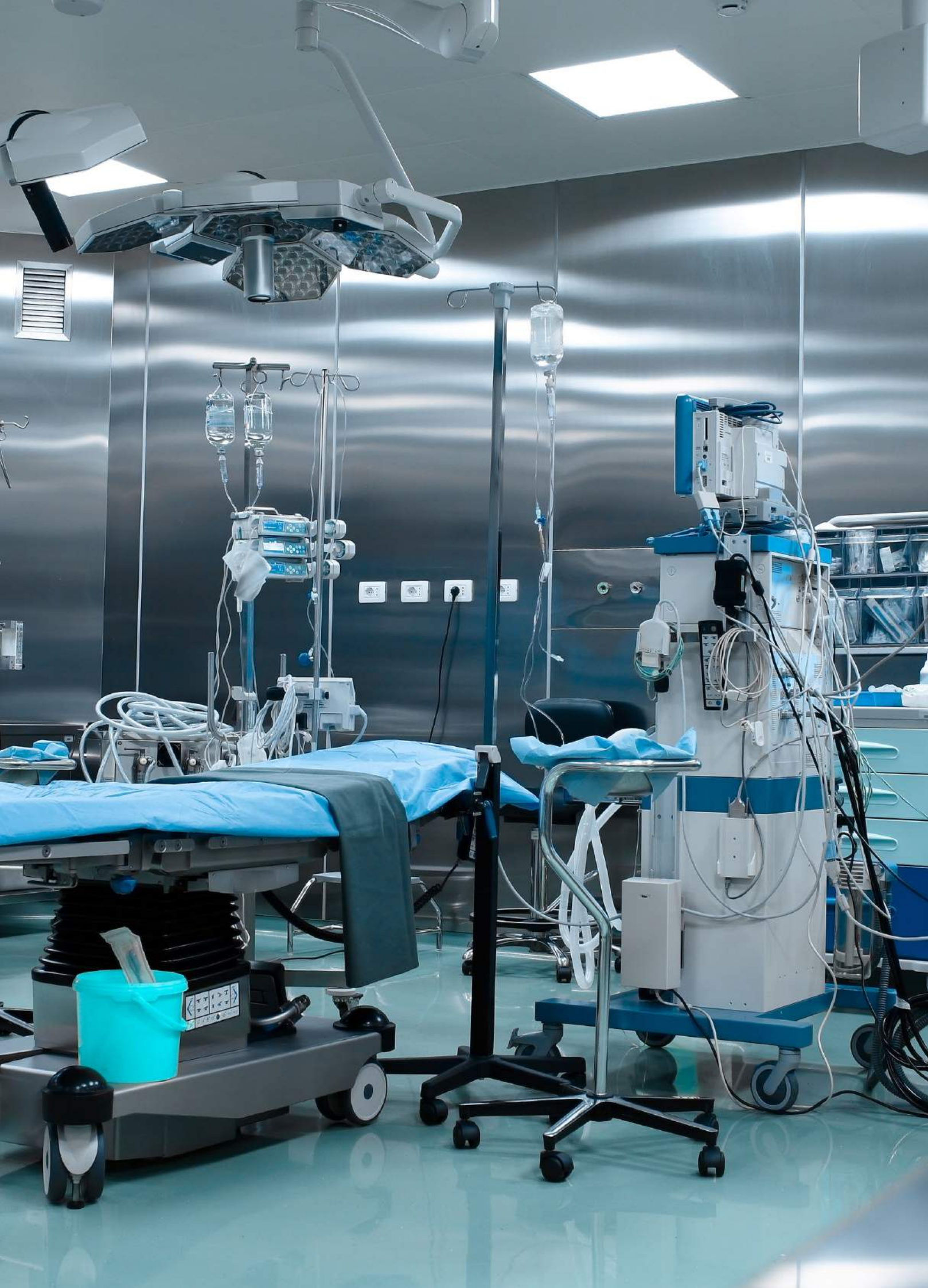
5970

Swivel female barb connector BSPT thread





CODE	T	P	ØD	L	GR.
5970TR184	R1/8"	13	4	27,5	-
5970TR144	R1/4"	17	4	31,7	-
5970TR185	R1/8"	13	5	32,0	-
5970TR145	R1/4"	17	5	36,2	-
5970TR385	R3/8"	20	5	36,0	-
5970TR146	R1/4"	17	6	37,3	-
5970TR386	R3/8"	20	6	36,8	-
5970TR126	R1/2"	24	6	39,5	-
5970TR148	R1/4"	17	8	41,3	-
5970TR388	R3/8"	20	8	40,8	-
5970TR128	R1/2"	24	8	43,6	-
5970TR348	R3/4"	30	8	43,4	-
5970TR3810	R3/8"	20	10	42,8	-
5970TR1210	R1/2"	24	10	43,6	-
5970TR3410	R3/4"	30	10	45,6	-
5970TR1212	R1/2"	24	12	46,7	-
5970TR3412	R3/4"	30	12	46,5	-
5970TR1214	R1/2"	24	14	48,9	-
5970TR3414	R3/4"	30	14	48,1	-
5970TR3416	R3/4"	30	16	48,5	-
5970TR3419	R3/4"	30	19	49,3	-



BARB CONNECTORS
INOX AISI 316

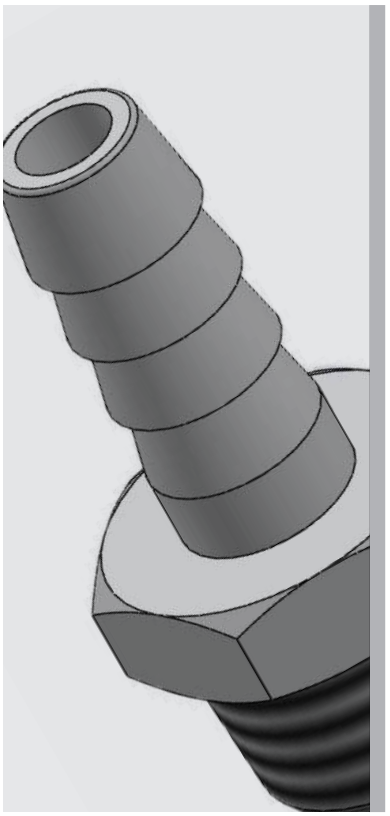
PLUS

SUITABLE FOR FOOD & POTABLE WATER CONTACT

ACCESSORIES FOR HIGHER GRIPPING AND SAFETY AVAILABLE



p. 286 / **1469**



-20°C ÷ +180°C

Up to 60 Bar

Compressed air, potable water, oil and food fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R3/4"

Polyurethane, Polyethylene, Polyamide, PTFE, FEP

Stainless steel INOX AISI 316L

REACH

Products in compliance with the directive 2002/95/EC

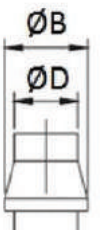
RoHS2

Products in compliance with the directive 2011/65/EU

DM174 EC1935

DIAMETER OF THE BARB

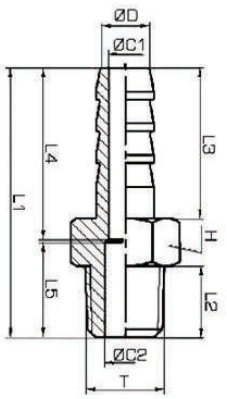
ØD	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 14 mm	Ø 20 mm
ØB (mm)	7,2 mm	9,2 mm	11,2 mm	15,2 mm	21,0 mm



1469

Male barb connector BSPT thread Inox AISI 316





CODE	T	ØD	L1	L2	L3	L4	L5	ØC1	ØC2	H	GR.
1469TR186	R1/8"	6	34,0	9,0	19,0	21,7	12,0	4,0	5,0	12	13,0
1469TR148	R1/4"	8	35,5	10,5	19,0	21,1	14,0	5,5	7,0	14	18,0
1469TR3810	R3/8"	10	41,5	11,5	23,0	25,9	15,0	8,0	10,0	17	26,0
1469TR1214	R1/2"	14	51,0	15,0	28,0	32,4	18,0	11,0	13,0	22	54,0
1469TR3420	R3/4"	20	65,0	18,0	37,0	40,8	23,0	14,0	18,0	27	119,0

BARB CONNECTORS CLAMPS

PLUS

- EASY USE
- DIFFERENT KIND OF MATERIAL
- GREAT RANGE DIAMETER TUBES
- THE ACETAL RESIN CLAMPS ARE STRONG, DURABLE, REUSABLE



p. 290 / **KC9**



p. 290 / **KCW9**



p. 291 / **KCX9**



p. 291 / **5090**

TECHNICAL SPECIFICATIONS

KC9

WORKING TEMPERATURE
Depends on the tube used

RANGE DIAMETER TUBES
From Ø8 to Ø90

REFERENCE STANDARD
Reach - RoHS2

CONSTRUCTION MATERIALS
Housing & band: stainless steel AISI 430
Screw: zinc plated steeel with white trivalent zinc planting

KCW9

WORKING TEMPERATURE
Depends on the tube used

RANGE DIAMETER TUBES
From Ø8 to Ø90

REFERENCE STANDARD
Reach - RoHS2

CONSTRUCTION MATERIALS
Housing, screw & band: stainless steel AISI 304

KCX9

WORKING TEMPERATURE
Depends on the tube used

RANGE DIAMETER TUBES
From Ø8 to Ø90

REFERENCE STANDARD
Reach - RoHS2

CONSTRUCTION MATERIALS
Housing, screw & band: stainless steel AISI 316

5090

WORKING TEMPERATURE
+4°C ÷ +90°

RANGE DIAMETER TUBES
From Ø8 to Ø49

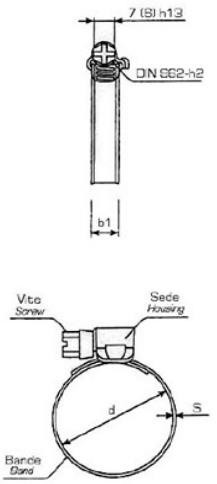
REFERENCE STANDARD
Reach - RoHS2

CONSTRUCTION MATERIALS
Acetal resin

FEATURES
The acetal resin clamps are strong, durable, reusable

KC9 Worm drive hose clamp to DIN 3017, band width 9 mm, housing in Inox AISI 430 and screw in zinc coated steel

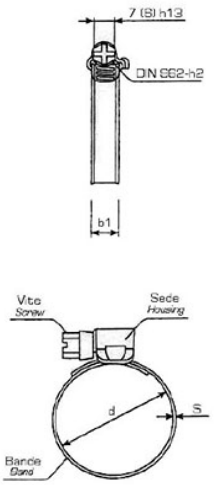




CODE	D - CAMP Ø	BANDWIDTH	B1 - SCREW	THICKNESS	TORQUE
KC9-0812	8-12	9,0	7,0	0,6	4,5
KC9-1016	10-16	9,0	7,0	0,6	4,5
KC9-1220	12-20	9,0	7,0	0,6	4,5
KC9-1222	12-22	9,0	7,0	0,6	4,5
KC9-1625	16-22	9,0	7,0	0,6	4,5
KC9-1627	16-27	9,0	7,0	0,6	4,5
KC9-2032	20-32	9,0	7,0	0,6	4,5
KC9-2535	25-35	9,0	7,0	0,6	4,5
KC9-2540	25-40	9,0	7,0	0,6	4,5
KC9-3045	30-45	9,0	7,0	0,6	4,5
KC9-3250	32-50	9,0	7,0	0,6	4,5
KC9-4060	40-60	9,0	7,0	0,6	4,5
KC9-5070	50-70	9,0	7,0	0,6	4,5
KC9-6080	60-80	9,0	7,0	0,6	4,5
KC9-7090	70-90	9,0	7,0	0,6	4,5

KCW9 Worm drive hose clamp to DIN 3017, band width 9 mm, housing and screw in Inox AISI 304





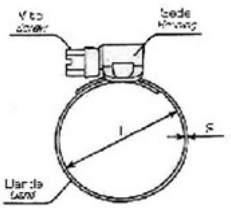
CODE	D - CAMP Ø	BANDWIDTH	B1 - SCREW	THICKNESS	TORQUE
KCW9-0812	8-12	9,0	7,0	0,6	4,5
KCW9-1016	10-16	9,0	7,0	0,6	4,5
KCW9-1220	12-20	9,0	7,0	0,6	4,5
KCW9-1625	16-25	9,0	7,0	0,6	4,5
KCW9-2032	20-32	9,0	7,0	0,6	4,5
KCW9-2535	25-35	9,0	7,0	0,6	4,5
KCW9-2540	25-40	9,0	7,0	0,6	4,5
KCW9-3045	30-45	9,0	7,0	0,6	4,5
KCW9-3250	32-50	9,0	7,0	0,6	4,5
KCW9-4060	40-60	9,0	7,0	0,6	4,5
KCW9-5070	50-70	9,0	7,0	0,6	4,5
KCW9-6080	60-80	9,0	7,0	0,6	4,5
KCW9-7090	70-90	9,0	7,0	0,6	4,5

KCX9

Worm drive hose clamp to DIN 3017, band width 9 mm, housing and screw in Inox AISI 316





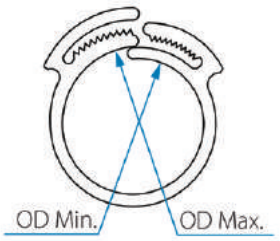


CODE	D - CAMP Ø	BANDWIDTH	B1 - SCREW	THICKNESS	TORQUE
KCX9-0812	8-12	9,0	7,0	0,6	4,5
KCX9-1016	10-16	9,0	7,0	0,6	4,5
KCX9-1220	12-20	9,0	7,0	0,6	4,5
KCX9-1625	16-25	9,0	7,0	0,6	4,5
KCX9-2032	16-27	9,0	7,0	0,6	4,5
KCX9-2535	25-35	9,0	7,0	0,6	4,5
KCX9-2540	25-40	9,0	7,0	0,6	4,5
KCX9-3045	30-45	9,0	7,0	0,6	4,5
KCX9-3250	32-50	9,0	7,0	0,6	4,5
KCX9-4060	40-60	9,0	7,0	0,6	4,5
KCX9-5070	50-70	9,0	7,0	0,6	4,5
KCX9-6080	60-80	9,0	7,0	0,6	4,5
KCX9-7090	70-90	9,0	7,0	0,6	4,5

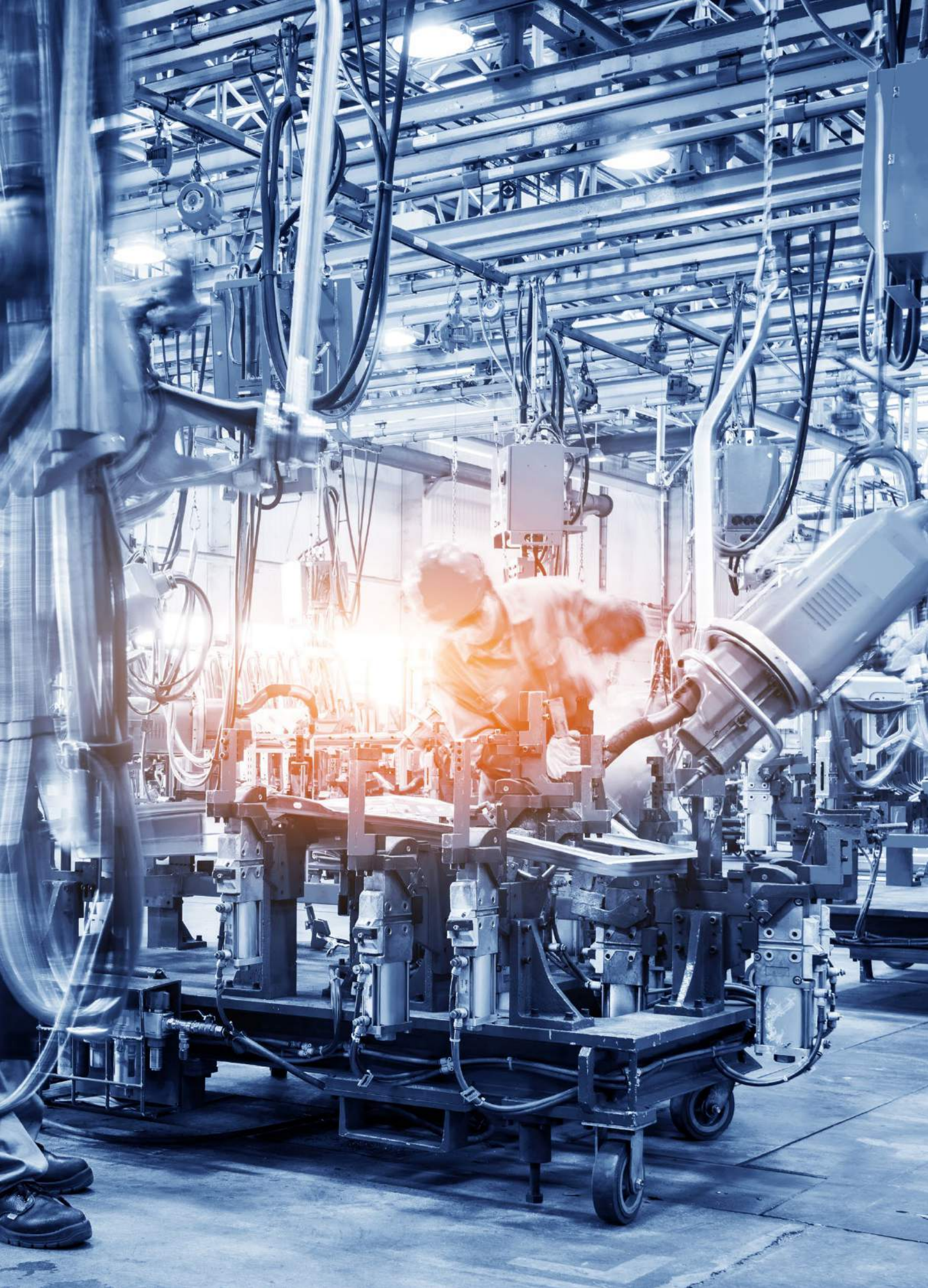
5090

Acetal resin snap clip

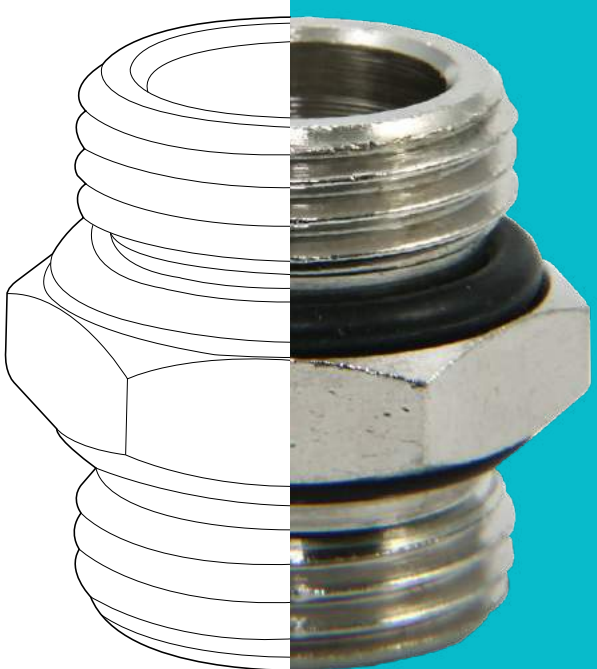




CODE	O.D. MIN	O.D. MAX
5090TR810	8	10
5090TR1012	10	12
5090TR1113	11	13
5090TR1315	13	15
5090TR1416	14	16
5090TR1517	15	17
5090TR1618	16	18
5090TR1719	17	19
5090TR1820	18	20
5090TR2022	20	22
5090TR2123	21	23
5090TR2325	23	25
5090TR2628	26	28
5090TR3032	30	32
5090TR3537	35	37
5090TR4446	44	46
5090TR4749	47	49



STANDARD FITTINGS



TECHNICAL INDEX



P. 295 /
MICROCAST FITTINGS



P. 303 /
BRASS STANDARD FITTINGS



P. 319 /
BAYONED JOINT FITTINGS AND ACCESSORIES



P. 327 /
NYLON STANDARD FITTINGS



P. 337 /
PVDF STANDARD FITTINGS



P. 343 /
STANDARD FITTINGS INOX AISI 316



P. 351 /
DISTRIBUTION MANIFOLDS



P. 355 /
DISTRIBUTION MANIFOLDS INOX AISI 304



P. 357 /
SILENCERS

STANDARD FITTINGS MICROCAST

PLUS

STAINLESS STEEL AISI 316

EASY TO ASSEMBLY



p. 297 / **1410MF**



p. 298 / **1412MF**



p. 298 / **1416MF**



p. 298 / **1420-P3**



p. 299 / **1425-P3**



p. 299 / **1425**



p. 299 / **1440**



p. 300 / **1450**



p. 300 / **1455**



p. 300 / **1469**



p. 301 / **1475**



p. 301 / **1480**



p. 301 / **1485**



p. 302 / **1490**



from -20°C to +200°C

16 Bar

Male threads taper
BSPT R1/8" to R2"
Female threads parallel BSPP
from G1/8" to G2"

Stainless steel AISI 316 microcast

FEATURES

Pressure for intermediate temperatures may be determinated by interpolation method.
Temperatures indicated are related to the internal fluid flow. External piping loads, stress and moments over external walls are not taken in consideration.

REACH

Products in compliance with the directive 2002/95/EC

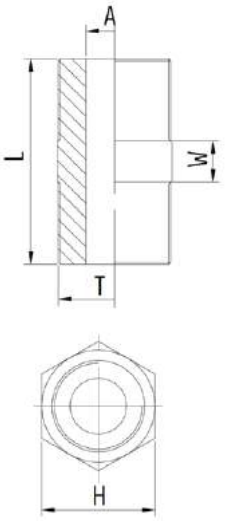
RoHS2

Products in compliance with the directive 2011/65/EU

1410MF

Nipple connector



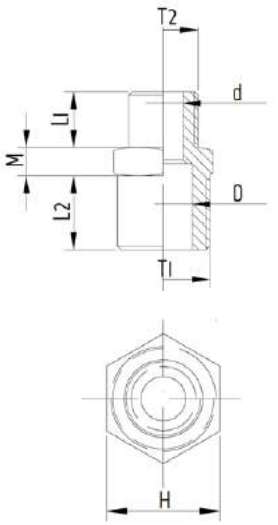


CODE	T	L	A	W	H
1410MF18	R1/8"	20,0	5,5	4,0	11,0
1410MF14	R1/4"	25,0	9,0	4,0	15,0
1410MF38	R3/8"	27,0	11,5	5,0	19,0
1410MF12	R1/2"	34,0	15,0	5,0	23,0
1410MF34	R3/4"	36,5	20,5	5,5	28,0
1410MF1	R1"	42,0	26,0	6,0	34,0
1410MF114	R1-1/4"	47,5	34,5	6,5	44,0
1410MF112	R1-1/2"	47,5	40,0	6,5	50,0
1410MF2	R2"	57,0	51,0	7,0	62,0

1412MF

Reduced nipple connector



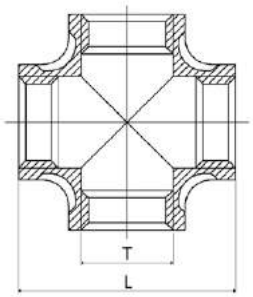


CODE	T1	T2	L1	L2	M	d	D	H
1412MF1418	R1/4″	R1/8″	8,0	10,5	4,0	5,5	8,0	14,5
1412MF3818	R3/8″	R1/8″	8,0	11,0	5,0	5,5	11,5	18,0
1412MF3814	R3/8″	R1/4″	10,5	11,0	5,0	8,0	11,5	18,0
1412MF1214	R1/2″	R1/4″	10,5	14,5	5,0	8,0	15,0	22,0
1412MF1238	R1/2″	R3/8″	11,0	14,5	5,0	11,5	15,0	22,0
1412MF3438	R3/4″	R3/8″	11,0	15,5	5,5	11,5	20,5	28,0
1412MF3412	R3/4″	R1/2″	14,5	15,5	5,5	15,0	20,5	28,0
1412MF138	1″	R3/8″	11,0	18,0	6,0	11,5	26,0	35,0
1412MF112	1″	R1/2″	14,5	18,0	6,0	15,0	26,0	35,0
1412MF134	1″	R3/4″	15,5	18,0	6,0	20,5	26,0	35,0
1412MF11434	1-1/4″	R3/4″	15,5	20,5	6,5	20,5	34,5	43,5
1412MF1141	1-1/4″	1″	18,0	20,5	6,5	26,0	34,5	43,5
1412MF1121	1-1/2″	1″	18,0	20,5	6,5	26,0	40,0	49,0
1412MF112114	1-1/2″	1-1/4″	20,5	20,5	6,5	34,5	40,0	49,0
1412MF21	2″	1″	18,0	25,0	7,0	26,0	51,0	61,5
1412MF2114	2″	1-1/4″	20,5	25,0	7,0	34,5	51,0	61,5
1412MF2112	2″	1-1/2″	20,5	25,0	7,0	40,0	51,0	61,5

1416MF

Female cross



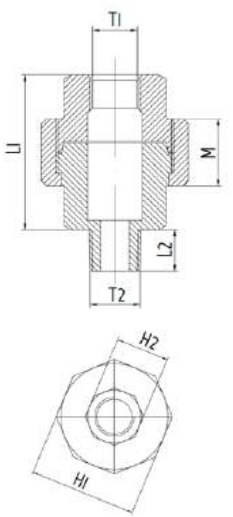


CODE	T	L	DN
1416MF18	G1/8″	34,0	6
1416MF14	G1/4″	38,0	8
1416MF38	G3/8″	45,0	10
1416MF12	G1/2″	51,0	15
1416MF34	G3/4″	62,0	20
1416MF1	G1″	72,0	25
1416MF114	G1-1/4″	86,0	32
1416MF112	G1-1/2″	95,0	40
1416MF2	G2″	110,0	50
1416MF212	G2-1/2″	132,0	65

1420-P3

Nipple M/F in 3 pieces



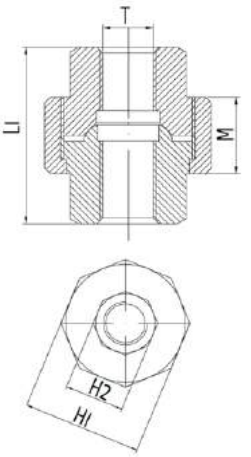


CODE	T1	T2	L1	L2	M	H1	H2
1420MF18P3	G1/8″	R1/8″	30,0	8,0	13,0	26	13
1420MF14P3	G1/4″	R1/4″	33,5	10,5	13,5	29	16,5
1420MF38P3	G3/8″	R3/8″	36,5	11,0	15,0	34	20
1420MF12P3	G1/2″	R1/2″	39,5	14,5	16,0	37	24,5

1425-P3

Nipple F/F in 3 pieces



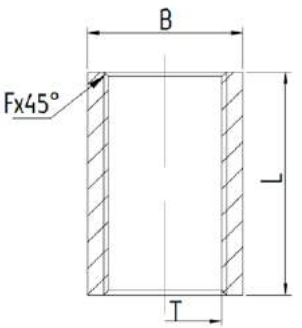


CODE	T	L1	M	H1	H2
1425MF18P3	G1/8"	30,0	13,0	26	13
1425MF14P3	G1/4"	33,5	13,5	29	16,5
1425MF38P3	G3/8"	36,5	15,0	34	20
1425MF12P3	G1/2"	39,5	16,0	37	24,5
1425MF34P3	G3/4"	42,5	17,0	44	30
1425MF1P3	G1"	50,0	20,0	52,5	37

1425

Sleeve F/F



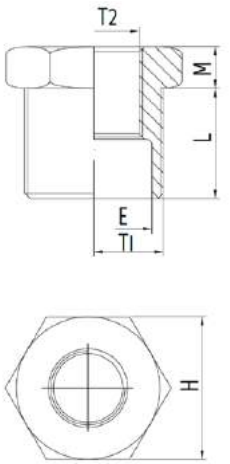


CODE	T	L	F	B
1425MF18	G1/8"	17,0	0,6	13,0
1425MF14	G1/4"	24,0	1,0	16,5
1425MF38	G3/8"	25,0	1,0	20,0
1425MF12	G1/2"	32,0	1,2	24,5
1425MF34	G3/4"	35,0	1,2	30,0
1425MF1	G1"	41,0	1,6	37,0
1425MF114	G1-1/4"	45,0	1,6	46,5
1425MF112	G1-1/2"	45,0	1,6	53,0
1425MF2	G2"	54,0	1,6	65,0

1440

M/F reducer



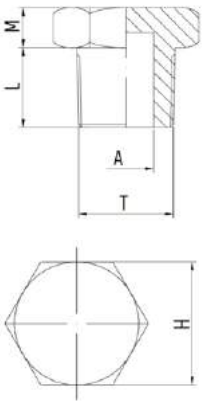


CODE	T1	T2	E	L	M	H
1440MF1418	R1/4"	G1/8"	8,0	10,5	4,0	14,5
1440MF3818	R3/8"	G1/8"	11,5	11,0	5,0	18,5
1440MF3814	R3/8"	G1/4"	11,5	11,0	5,0	18,5
1440MF1214	R1/2"	G1/4"	15,0	14,5	5,0	22,5
1440MF1238	R1/2"	G3/8"	15,0	14,5	5,0	22,5
1440MF3438	R3/4"	G3/8"	20,5	15,5	5,5	28,0
1440MF3412	R3/4"	G1/2"	20,5	15,5	5,5	28,0
1440MF112	R1"	G1/2"	26,0	18,0	6,0	35,0
1440MF134	R1"	G3/4"	26,0	18,0	6,0	35,0
1440MF11434	R1-1/4"	G3/4"	34,5	20,5	6,5	44,0
1440MF1141	R1-1/4"	G1"	34,5	20,5	6,5	44,0
1440MF1121	R1-1/2"	G1"	40,0	20,5	6,5	49,5
1440MF112114	R1-1/2"	G1-1/4"	40,0	20,5	6,5	49,5
1440MF2114	R2"	G1-1/4"	51,0	25,0	7,0	61,5
1440MF2112	R2"	G1-1/2"	51,0	25,0	7,0	61,5

1450

Male plug



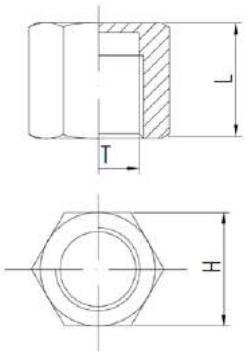


CODE	T	L	M	A	H
1450MF18	G1/8″	8,0	4,0	5,5	12,5
1450MF14	G1/4″	10,5	4,0	8,0	15,0
1450MF38	G3/8″	11,0	5,0	11,5	18,5
1450MF12	G1/2″	14,5	5,0	15,0	22,5
1450MF34	G3/4″	15,5	5,5	20,5	28,0
1450MF1	G1″	18,0	6,0	26,0	35,0
1450MF114	G1-1/4″	20,5	6,5	34,5	44,0
1450MF112	G1-1/2″	20,5	6,5	40,0	50,5
1450MF2	G2″	25,0	7,0	51,0	62,5

1455

Female plug



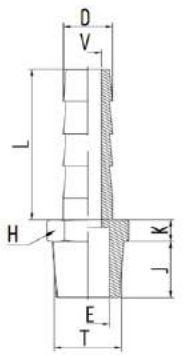


CODE	T	L	H
1455MF18	G1/8″	12,5	13
1455MF14	G1/4″	16,0	16,5
1455MF38	G3/8″	16,5	20
1455MF12	G1/2″	21,0	24,5
1455MF34	G3/4″	22,5	30
1455MF1	G1″	26,0	37
1455MF114	G1-1/4″	29,0	46,5
1455MF112	G1-1/2″	29,0	53
1455MF2	G2″	33,5	65

1469

Barb connector BSPT thread



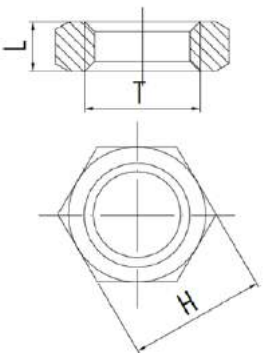


CODE	T	E	J	K	L	V	D	H
1469MF18T7	R1/8″	5,7	11,0	6,3	23,7	4,0	6,7	13
1469MF14T9	R1/4″	8,0	10,5	4,0	28,0	5,0	9,0	15
1469MF38T11	R3/8″	11,5	11,0	5,0	33,0	7,0	11,5	18
1469MF12T15	R1/2″	15,0	14,5	5,0	38,0	10,5	15,0	22
1469MF34T20	R3/4″	20,5	15,5	5,5	45,0	15,0	20,0	28
1469MF1T265	R1″	26,0	18,0	6,0	52,0	22,0	26,5	35
1469MF114T34	R1-1/4″	34,5	20,5	6,5	52,0	27,5	34	44
1469MF112T40	R1-1/2″	40,0	20,5	6,5	56,0	34,0	40	50
1469MF2T52	R2″	51,0	25,0	7,0	60,0	45,0	52,0	61,5

1475

Bulkhead locking nut



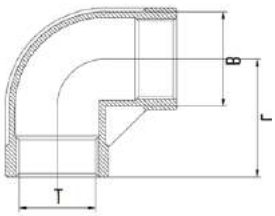


CODE	T	L	H
1475MF18	G1/8″	6,0	15
1475MF14	G1/4″	6,0	18
1475MF38	G3/8″	6,0	24
1475MF12	G1/2″	7,0	30
1475MF34	G3/4″	7,0	34
1475MF1	G1″	9,0	42,5
1475MF114	G1-1/4″	11,0	52
1475MF112	G1-1/2″	11,0	58
1475MF2	G2″	13,0	72

1480

Elbow female BSPP thread



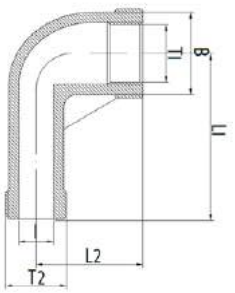


CODE	T	L	B
1480MF18	G1/8″	17,0	13,0
1480MF14	G1/4″	19,0	16,5
1480MF38	G3/8″	23,0	20,0
1480MF12	G1/2″	27,0	24,5
1480MF34	G3/4″	32,0	30,0
1480MF1	G1″	38,0	37,5
1480MF114	G1-1/4″	45,0	46,5
1480MF112	G1-1/2″	48,0	53,0
1480MF2	G2″	57,0	65,5

1485

Elbow male BSPT thread and female BSPP thread



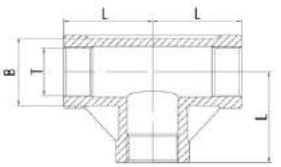


CODE	T1	T2	B	L1	L2	I
1485MF18	G1/8″	R1/8″	13,0	26,0	17,0	5,5
1485MF14	G1/4″	R1/4″	16,5	27,0	19,0	8,0
1485MF38	G3/8″	R3/8″	19,7	29,0	23,0	11,5
1485MF12	G1/2″	R1/2″	24,5	35,0	27,0	15,0
1485MF34	G3/4″	R3/4″	30,0	40,0	32,0	20,5
1485MF1	G1″	R1″	37,5	46,0	38,0	26,0
1485MF114	G1-1/4″	R1-1/4″	46,5	54,0	45,0	34,5
1485MF112	G1-1/2″	R1-1/2″	53,0	57,0	48,0	40,0
1485MF2	G2″	R2″	65,5	70,0	57,0	51,0

1490

Tee female BSPP thread





CODE	T	L	B
1490MF18	G1/8″	17,0	13,0
1490MF14	G1/4″	19,0	16,5
1490MF38	G3/8″	23,0	20,0
1490MF12	G1/2″	27,0	24,5
1490MF34	G3/4″	32,0	30,0
1490MF1	G1″	38,0	37,5
1490MF114	G1-1/4″	45,0	46,5
1490MF112	G1-1/2″	48,0	53,0
1490MF2	G2″	57,0	65,5

STANDARD FITTINGS BRASS

PLUS

MECHANICAL RESISTANCE

PRINTED MATERIAL FOR BETTER MECHANICAL STRENGHT


p. 305 / **1105**


p. 305 / **1106**


p. 306 / **1107**


p. 306 / **1108**


p. 306 / **1110**


p. 307 / **1112**


p. 307 / **1115**


p. 307 / **1116**


p. 308 / **1118**


p. 308 / **1120**


p. 308 / **1122**


p. 309 / **1125**


p. 309 / **1126**


p. 309 / **1130**


p. 310 / **1135**


p. 310 / **1136**

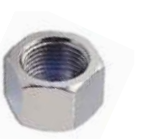

p. 310 / **1140**


p. 311 / **1145**


p. 311 / **1148**


p. 311 / **1149**


p. 311 / **1150**


p. 312 / **1155**


p. 312 / **1160**


p. 312 / **1161**


p. 312 / **1175**


p. 313 / **1176**


p. 313 / **1200**


p. 313 / **1205**


p. 313 / **1210**


p. 314 / **1215**


p. 314 / **1216**


p. 314 / **1220**


p. 314 / **1225**


p. 315 / **1230**


p. 315 / **1235**


p. 315 / **1240**


p. 315 / **1245**


p. 316 / **1300**

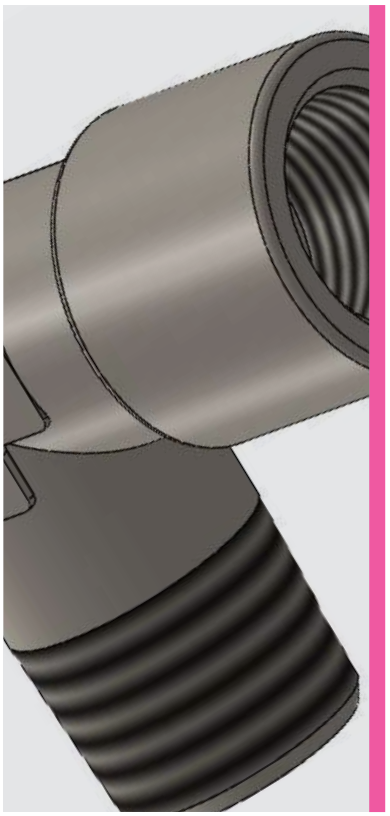

p. 316 / **1310**


p. 316 / **1320**


p. 316 / **1322**


p. 317 / **1600**


p. 317 / **1110-3PCS**



Temperature depends on the tube used, so the value will be defined according to the features of the tube itself with NBR O-Ring: -20°C ÷ +100°C

Up to 60 Bar pressure depends on the tube used, so their values will be defined according to the features of the tube itself

Compressed air, water, oil and fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R1"

Parallel gas BSPP ISO 228 from G1/8" to G1"

Metric ISO 262 - M5

Lathed: Nickel plated brass UNI EN 12164 CW 614N

Printed: Nickel plated brass UNI EN 12164 CW 617N

O'ring: NBR

- Available on demand and with minimum quantity in yellow brass.
- Available on demand Viton O-Ring.

REACH

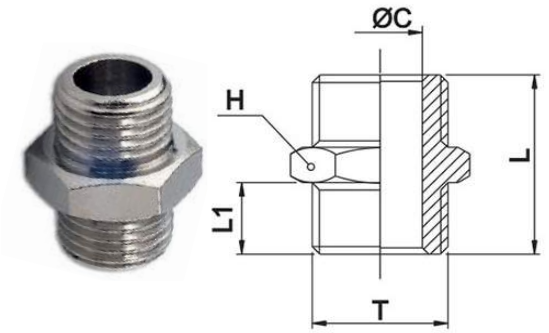
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

1105

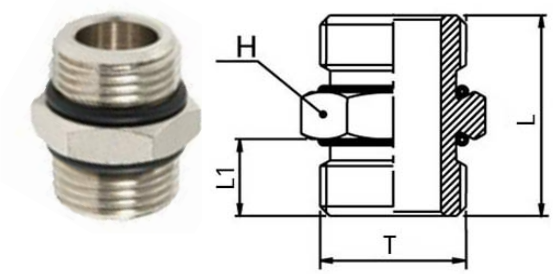
Nipple BSPP & metric thread



CODE	T	ØC	L	L1	H	GR.
1105TRM5	M5	2,5	11,0	4	8	2,0
1105TR18	G1/8"	6,0	18,5	7	14	9,0
1105TR14	G1/4"	8,5	21,0	8	17	15,0
1105TR38	G3/8"	11,5	23,0	9	19	21,0
1105TR12	G1/2"	15,0	25,0	10	24	34,0
1105TR34	G3/4"	20,0	27,5	11	30	53,0
1105TR1	G1"	26,0	32,0	13	36	84,0

1106

Nipple BSPP thread with OR

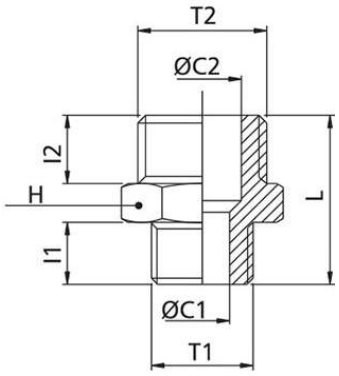


CODE	T	L	L1	H	GR.
1106TR18	G1/8"	14	6,5	17,5	8,0
1106TR14	G1/4"	17	8	21	16,0
1106TR38	G3/8"	20	9	23	24,0
1106TR12	G1/2"	24	10	26	38,0

1107

Reduced nipple BSPP & metric thread



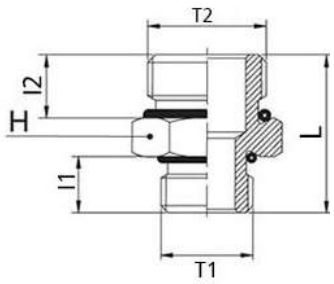


CODE	T1	T2	ØC1	ØC2	I1	I2	L	H	GR.
1107TRM518	M5	G1/8"	2,5	6,0	5,0	6,5	15,5	14	7,0
1107TR1814	G1/8"	G1/4"	5,5	8,5	6,5	8,0	19,0	17	14,0
1107TR1838	G1/8"	G3/8"	5,5	11,5	6,5	9,0	20,5	19	19,0
1107TR1438	G1/4"	G3/8"	8,5	11,5	8,0	9,0	22,0	19	19,0
1107TR1412	G1/4"	G1/2"	8,0	15,0	9,0	10,0	24,5	24	35,0
1107TR3812	G3/8"	G1/2"	11,0	15,0	9,0	10,0	24,5	24	36,0
1107TR3834	G3/8"	G3/4"	11,0	20,0	10,0	11,0	26,5	30	52,0
1107TR1234	G1/2"	G3/4"	15,0	20,0	11,0	11,0	27,5	30	52,0
1107TR341	G3/4"	G1"	20,0	25,5	11,0	13,0	30,0	36	71,0

1108

Reduced nipple BSPP thread with OR



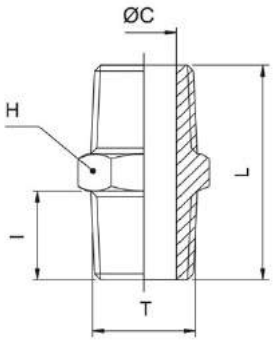


CODE	T1	T2	L	I1	I2	H	GR.
1108TR1814	G1/8"	G1/4"	19,5	6,5	8	17	14,0
1108TR1838	G1/8"	G3/8"	21	6,5	9	20	22,0
1108TR1438	G1/4"	G3/8"	22	8	9	20	24,0
1108TR1412	G1/4"	G1/2"	24	8	10	24	34,0
1108TR3812	G3/8"	G1/2"	25	9	10	24	34,0

1110

Nipple BSPT thread



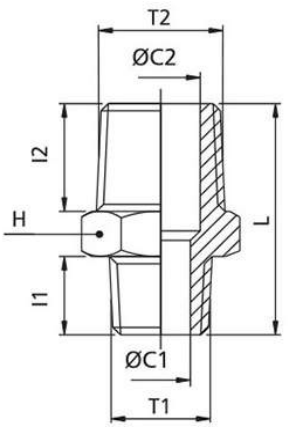


CODE	T	ØC	I	L	H	GR.
1110TR18	R1/8"	6,0	7,5	19,0	12	7,0
1110TR14	R1/4"	7,5	11,0	26,5	14	16,0
1110TR38	R3/8"	11,5	11,0	27,0	17	23,0
1110TR12	R1/2"	15,0	12,5	30,5	22	79,0
1110TR34	R3/4"	20,0	14,0	34,5	27	61,0
1110TR1	R1"	26,0	15,5	37,0	34	92,0

1112

Reduced nipple BSPT thread



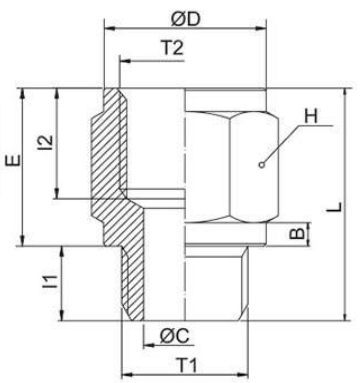


CODE	T1	T2	ØC1	ØC2	I1	I2	L	H	GR.
1112TR1814	R1/8"	R1/4"	5,5	8,5	7,5	11,0	23,0	14	12,0
1112TR1838	R1/8"	R3/8"	5,5	11,5	7,5	11,0	23,5	17	19,0
1112TR1438	R1/4"	R3/8"	8,5	11,5	10,5	11,0	26,5	17	21,0
1112TR1412	R1/4"	R1/2"	8,0	15,0	10,5	12,5	28,5	22	32,0
1112TR3812	R3/8"	R1/2"	11,0	15,0	10,5	12,5	28,5	22	35,0
1112TR1234	R1/2"	R3/4"	15,0	20,0	12,5	14,0	32,5	27	58,0
1112TR341	R3/4"	R1"	20,0	25,5	13,0	15,5	35,5	34	91,0

1115

Enlarger M/F BSPP & metric thread enlarger



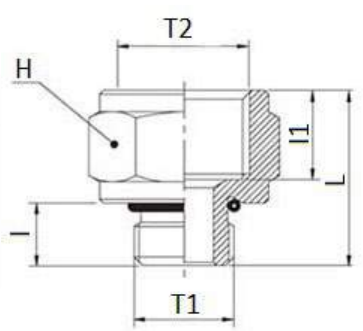


CODE	T1	T2	B	ØC	ØD	I1	I2	E	L	H	GR.
1115TRM5	M5	M5	1,5	2,5	7,5	4,5	5,0	6,5	11,0	8	3,0
1115TRM518	M5	G1/8"	2,0	2,2	13,5	5,0	7,0	11,0	16,0	14	10,0
1115TRM618	M6	G1/8"	2,0	2,7	13,5	6,0	7,0	11,0	17,0	14	10,0
1115TR18	G1/8"	G1/8"	2,0	5,5	13,5	6,5	8,0	11,0	17,5	14	11,0
1115TR1814	G1/8"	G1/4"	2,0	5,5	16,5	6,5	10,5	13,5	20,0	17	18,0
1115TR1838	G1/8"	G3/8"	2,5	5,5	21,5	6,5	10,5	14,0	20,5	22	33,0
1115TR14	G1/4"	G1/4"	2,0	8,5	16,5	8,0	10,5	13,5	21,5	17	19,0
1115TR1438	G1/4"	G3/8"	2,5	8,0	21,5	9,0	10,5	14,0	23,0	22	32,0
1115TR1412	G1/4"	G1/2"	3,0	8,0	26,5	9,0	12,5	17,0	26,0	27	51,0
1115TR38	G3/8"	G3/8"	2,5	11,0	21,5	9,0	10,5	14,0	23,0	22	32,0
1115TR3812	G3/8"	G1/2"	3,0	11,0	26,5	9,0	12,5	17,0	26,0	27	54,0
1115TR3834	G3/8"	G3/4"	3,0	11,0	31,5	9,0	12,5	17,0	26,0	32	66,0
1115TR12	G1/2"	G1/2"	3,0	15,0	26,5	10,5	12,5	16,0	26,5	27	56,0
1115TR1234	G1/2"	G3/4"	3,0	15,0	31,5	10,5	12,5	17,0	27,5	32	71,0
1115TR121	G1/2"	G1"	3,0	15,0	37,5	11,0	12,5	18,0	29,0	38	93,0
1115TR34	G3/4"	G3/4"	3,0	20,0	31,5	10,5	12,5	17,0	27,5	32	69,0
1115TR341	G3/4"	G1"	3,0	20,0	37,5	11,0	12,5	18,0	29,0	38	93,0
1115TR1	G1"	G1"	3,0	26,0	37,5	13,0	12,5	18,0	31,0	38	96,0

1116

Enlarger M/F BSPP thread with OR



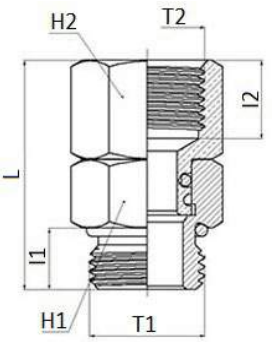


CODE	T1	T2	L	I	I1	H	GR.
1116TR18	G1/8"	G1/8"	17	6,5	8,5	17	12,3
1116TR1814	G1/8"	G1/4"	20	6,5	11	20	13,0
1116TR1838	G1/8"	G3/8"	21	6,5	11,5	21	31,0
1116TR14	G1/4"	G1/4"	21,5	8	11	21,5	18,0
1116TR1438	G1/4"	G3/8"	22,5	8	11,5	22,5	32,0
1116TR1412	G1/4"	G1/2"	26	9	14	26	36,0
1116TR38	G3/8"	G3/8"	23,5	9	11,5	23,5	32,0
1116TR3812	G3/8"	G1/2"	27	9	14	27	38,0

1118

Swivel nipple BSPP thread with OR



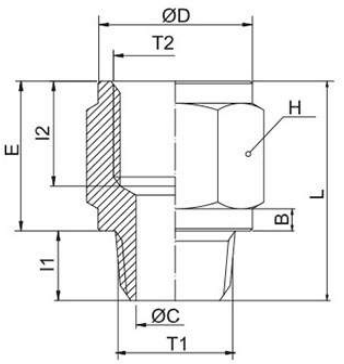


CODE	T1	T2	I1	I2	L	H1	H2	GR.
1118TR18	G1/8″	G1/8″	6,5	8	27	13	13	2,0
1118TR14	G1/4″	G1/4″	8	11	32	16	16	32,0
1118TR38	G3/8″	G3/8″	9	11,5	33,5	19	19	44,0

1120

Enlarger M BSPT thread / F BSPP thread



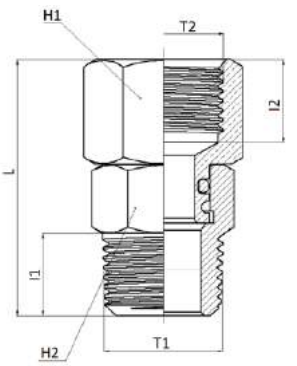


CODE	T1	T2	B	ØC	ØD	I1	I2	E	L	H	GR.
1120TR18	R1/8″	G1/8″	2,0	5,5	13,5	7,5	8	11,0	18,5	14	12,0
1120TR1814	R1/8″	G1/4″	2,0	5,5	16,5	7,5	10,5	13,5	21,0	17	18,0
1120TR1838	R1/8″	G3/8″	2,5	5,5	21,5	7,5	10,5	14,0	21,5	22	31,0
1120TR14	R1/4″	G1/4″	2,0	8,5	16,5	10,5	10,5	13,5	24,0	17	18,0
1120TR1438	R1/4″	G3/8″	2,5	8,0	21,5	10,5	10,5	14,0	24,5	22	32,0
1120TR1412	R1/4″	G1/2″	3,0	8,0	26,5	10,5	12,5	17,0	27,5	27	52,0
1120TR38	R3/8″	G3/8″	2,5	11,0	21,5	10,5	10,5	14,0	24,5	22	37,0
1120TR3812	R3/8″	G1/2″	3,0	11,0	26,5	10,5	12,5	17,0	27,5	27	55,0
1120TR3834	R3/8″	G3/4″	3,0	11,0	31,5	11,0	12,5	17,0	28,0	32	74,0
1120TR12	R1/2″	G1/2″	3,0	15,0	26,5	12,5	12,5	16,0	28,5	27	54,0
1120TR1234	R1/2″	G3/4″	3,0	15,0	31,5	12,5	12,5	17,0	29,5	32	70,0
1120TR121	R1/2″	G1″	3,0	15,0	37,5	13,0	12,5	18,0	31,0	38	91,0
1120TR34	R3/4″	G3/4″	3,0	20,0	31,5	13,0	12,5	17,0	30,0	32	74,0
1120TR341	R3/4″	G1″	3,0	20,0	37,5	13,0	12,5	18,0	31,0	38	97,0
1120TR1	R1″	G1″	3,0	26,0	37,5	15,5	12,5	18,0	33,5	38	100,0

1122

Swivel nipple BSPT thread

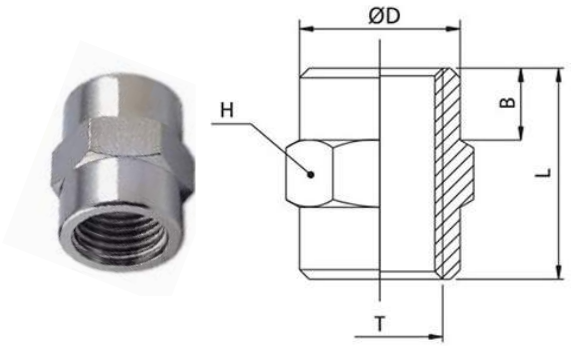




CODE	T1	T2	I1	I2	L	H1	H2	GR.
1122TR18	R1/8″	R1/8″	8	8	28	12	13	2,0
1122TR14	R1/4″	R1/4″	11	11	34	14	16	3,0
1122TR38	R3/8″	R3/8″	11,5	11,5	35,5	17	19	42,0

1125

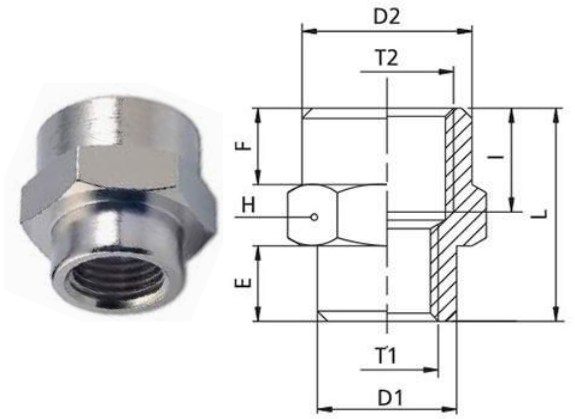
Sleeve F/F BSPP & metric thread



CODE	T	ØD	B	L	H	GR.
1125TRM5	M5	7,5	3,5	11,0	8	3,0
1125TR18	G1/8″	13,5	5,0	15,0	14	10,0
1125TR14	G1/4″	16,5	8,0	22,0	17	18,0
1125TR38	G3/8″	21,5	8,5	24,0	22	37,0
1125TR12	G1/2″	26,5	10,0	29,0	27	62,0
1125TR34	G3/4″	31,5	10,0	29,0	32	70,0
1125TR1	G1″	37,5	11,0	31,0	38	89,0

1126

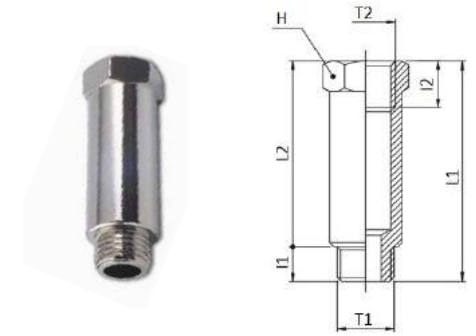
Sleeve sleeve F/F BSPP & metri thread



CODE	T1	T2	ØD1	ØD2	I	E	F	L	H	GR.
1126TRM518	M5	G1/8″	8,0	13,5	7,0	3,5	4,5	12,5	14	9,0
1126TR1814	G1/8″	G1/4″	13,0	16,5	11,0	6,0	8,0	20,0	17	18,0
1126TR1838	G1/8″	G3/8″	14,0	21,5	11,0	6,0	8,0	20,0	22	28,0
1126TR1438	G1/4″	G3/8″	17,0	21,5	11,0	7,0	8,0	21,0	22	30,0
1126TR1412	G1/4″	G1/2″	17,0	26,5	13,0	8,0	9,0	24,0	27	46,0
1126TR3812	G3/8″	G1/2″	21,5	26,5	13,0	8,0	9,0	24,0	27	48,0
1126TR3834	G3/8″	G3/4″	21,0	31,5	13,5	8,0	10,0	25,0	32	64,0
1126TR1234	G1/2″	G3/4″	26,0	31,5	13,5	8,0	10,0	25,0	32	65,0
1126TR121	G1/2″	G1″	26,0	37,0	14,0	8,0	10,0	25,0	38	84,0
1126TR341	G3/4″	G1″	32,0	37,0	14,0	8,0	10,0	25,0	38	83,0

1130

Extension M/F BSPP thread

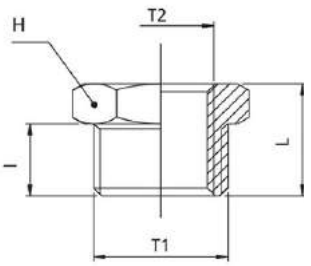


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1130TR181422	G1/8″	G1/8″	6	8,0	22	16	14	14,0
1130TR181442	G1/8″	G1/8″	6	8,0	42	36	14	30,0
1130TR181451	G1/8″	G1/8″	6	8,0	51	45	14	36,0
1130TR141735	G1/4″	G1/4″	8	11,0	35	27	17	32,0
1130TR141751	G1/4″	G1/4″	8	11,0	51	43	17	46,0

1135

Reducer M/F BSPP & metric thread



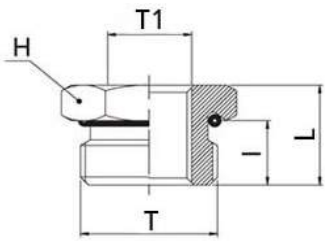


CODE	T1	T2	I	L	H	GR.
1135TRM518	G1/8″	M5	6,5	10,5	14	7,0
1135TR1418	G1/4″	G1/8″	8,0	12,5	17	10,0
1135TR3818	G3/8″	G1/8″	9,0	14,0	19	18,0
1135TR3814	G3/8″	G1/4″	9,0	14,0	19	13,0
1135TR1218	G1/2″	G1/8″	10,0	15,0	24	39,0
1135TR1214	G1/2″	G1/4″	10,0	15,0	24	32,0
1135TR1238	G1/2″	G3/8″	10,0	15,0	24	21,0
1135TR3414	G3/4″	G1/4″	11,0	16,5	30	64,0
1135TR3438	G3/4″	G3/8″	11,0	16,5	30	52,0
1135TR3412	G3/4″	G1/2″	11,0	16,5	30	36,0
1135TR138	G1″	G3/8″	13,5	19,5	36	110,0
1135TR112	G1″	G1/2″	13,0	19,0	36	90,0
1135TR134	G1″	G3/4″	13,0	19,0	36	59,0

1136

Reducer M/F BSPP thread with OR



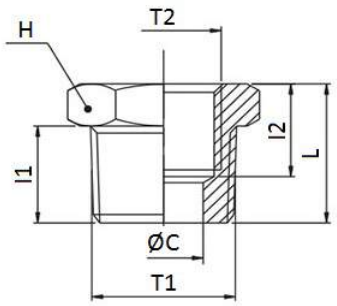


CODE	T	T1	I	L	H	GR.
1136TRM518	M5	G1/8″	6,5	11	14	8,0
1136TR1418	G1/4″	G1/8″	8	13	17	1,0
1136TR3818	G3/8″	G1/8″	9	14	20	2,0
1136TR3814	G3/8″	G1/4″	9	14	20	14,0
1136TR1218	G1/2″	G1/8″	10	15,5	24	38,0
1136TR1214	G1/2″	G1/4″	10	15,5	24	29,0
1136TR1238	G1/2″	G3/8″	10	15,5	24	2,0

1140

Reduced M BSPT thread / F BSPP thread



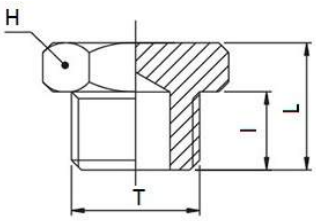


CODE	T1	T2	ØC	I1	I2	L	H	GR.
1140TR1418	R1/4″	G1/8″	6,0	11,0	9,0	15,5	14	9,0
1140TR3818	R3/8″	G1/8″	6,5	11,0	9,0	15,5	17	21,0
1140TR3814	R3/8″	G1/4″	8,5	11,0	11,0	15,5	17	13,0
1140TR1218	R1/2″	G1/8″	6,0	12,5	10,0	18,0	22	42,0
1140TR1214	R1/2″	G1/4″	8,5	12,5	11,5	18,0	22	34,0
1140TR1238	R1/2″	G3/8″	11,5	12,5	11,5	18,0	22	25,0
1140TR3414	R3/4″	G1/4″	8,5	14,0	12,0	20,0	27	74,0
1140TR3438	R3/4″	G3/8″	11,5	14,0	12,0	20,0	27	62,0
1140TR3412	R3/4″	G1/2″	15,0	14,0	14,0	20,0	27	43,0
1140TR138	R1″	G3/8″	15,0	15,5	13,0	21,5	34	123,0
1140TR112	R1″	G1/2″	15,0	15,5	14,0	21,5	34	104,0
1140TR134	R1″	G3/4″	20,0	15,5	14,0	21,5	34	73,0

1145

Plug M BSPP & metric thread



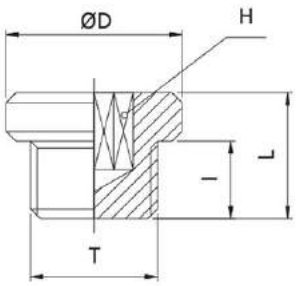


CODE	T	I	L	H	GR.
1145TRM5	M5	4,5	7,5	8	4,0
1145TR18	G1/8"	6,0	10,0	14	7,0
1145TR14	G1/4"	8,0	12,5	17	12,0
1145TR38	G3/8"	9,0	13,5	19	19,0
1145TR12	G1/2"	10,0	15,0	24	28,0
1145TR34	G3/4"	11,0	16,5	30	46,0
1145TR1	G1"	12,5	18,5	36	79,0

1148

Plug M BSPP & metric thread with exagon embedded



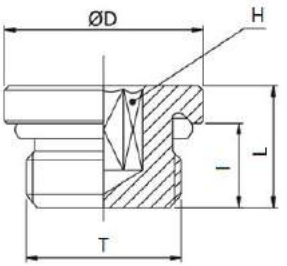


CODE	T	I	L	ØD	H	GR.
1148TRM5	M5	4,0	6,5	8,0	2,5	2,0
1148TR18	G1/8"	6,0	10,0	15,0	5	8,0
1148TR14	G1/4"	8,0	12,0	18,0	6	12,0
1148TR38	G3/8"	9,0	13,0	21,0	8	22,0
1148TR12	G1/2"	10,0	14,5	25,0	10	36,0

1149

Plug M BSPP & metric thread with exagon embedded and OR



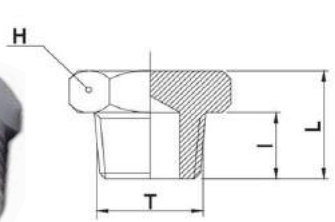


CODE	T	I	L	ØD	H	GR.
1149TRM5	M5	4,5	7,2	8,0	2,5	1,4
1149TR18	G1/8"	6,5	9,5	14,0	5	6,0
1149TR14	G1/4"	8,0	11,5	17,0	6	12,0
1149TR38	G3/8"	9,0	12,5	20,0	8	18,0
1149TR12	G1/2"	10,0	14,0	26,0	10	32,0

1150

Plug M BSPT thread



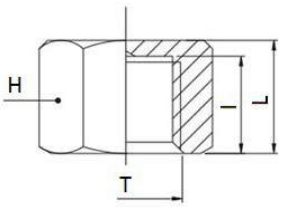


CODE	T	I	L	H	GR.
1150TR18	R1/8"	7,5	11,5	10	4,0
1150TR14	R1/4"	11,0	15,5	14	9,0
1150TR38	R3/8"	11,0	16,0	17	17,0
1150TR12	R1/2"	12,0	17,5	22	29,0
1150TR34	R3/4"	13,5	19,5	27	60,0
1150TR1	R1"	15,5	22,0	34	92,0

1155

Plug F BSPP & metric thread



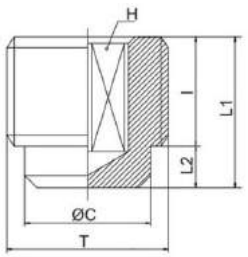


CODE	T	I	L	H	GR.
1155TRM5	M5	5,5	7,0	8	2,0
1155TR18	G1/8"	9,0	11,0	14	5,0
1155TR14	G1/4"	11,0	13,0	17	17,0
1155TR38	G3/8"	11,0	13,5	21	23,0
1155TR12	G1/2"	11,0	13,5	24	44,0
1155TR34	G3/4"	12,5	15,0	30	44,0
1155TR1	G1"	12,5	15,0	38	56,0

1160

Plug M BSPP thread with exagon embedded



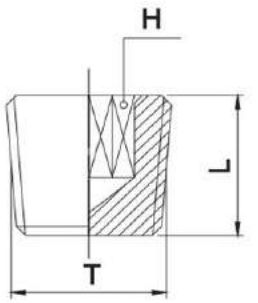


CODE	T	I	ØC	L1	L2	H	GR.
1160TR18	G1/8"	4,0	8,0	7,0	3,0	5	2,0
1160TR14	G1/4"	6,0	10,5	10,0	4,0	6	6,0
1160TR38	G3/8"	6,0	13,5	10,0	4,0	8	10,0
1160TR12	G1/2"	6,5	17,5	11,0	4,0	10	13,0

1161

Flat plug M BSPT thread exagon embedded



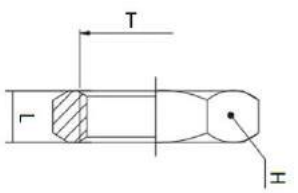


CODE	T	L	H	GR.
1161TR18	R1/8"	8,0	5	3,0
1161TR14	R1/4"	10,0	6	7,0
1161TR38	R3/8"	10,5	8	23,0
1161TR12	R1/2"	13,0	10	24,0
1161TR34	R3/4"	15,5	14	32,0
1161TR1	R1"	17,5	17	45,0

1175

Nut BSPP & metric thread



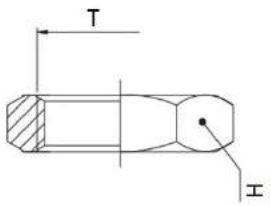


CODE	T	L	H	GR.
1175TRM5	M5	2,5	9	1,0
1175TR18	G1/8"	3,5	12	3,0
1175TR14	G1/4"	4,0	16	2,0
1175TR38	G3/8"	4,5	19	3,0
1175TR12	G1/2"	4,5	24	6,0
1175TR34	G3/4"	5,0	30	10,0
1175TR1	G1"	6,0	38	20,0

1176

Bulkhead locking nut metric thread



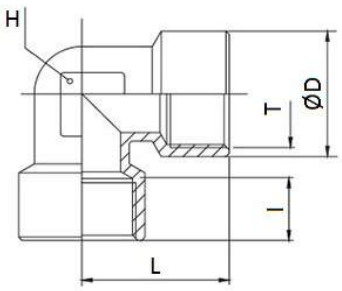


CODE	T	H	GR.
1176TRM101	M10X1	14	3,0
1176TRM121	M12X1	16	3,8
1176TRM1615	M16X1,5	19	5,0
1176TRM1815	M18X1,5	22	7,0
1176TRM2015	M20X1,5	24	18,0
1176TRM2215	M22X1,5	25	17,0
1176TRM2615	M26X1,5	32	21,0
1176TRM2815	M28X1,5	36	23,0

1200

Elbow F/F BSPP & metric thread



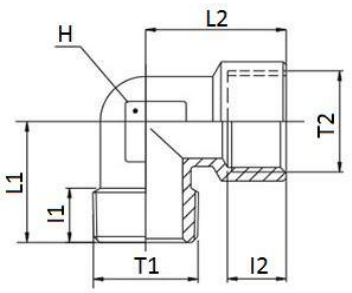


CODE	T	I	D	L	H	GR.
1200TRM5	M5	5,5	9,0	11,0	8	6,0
1200TR18	G1/8"	8,0	13,5	20,5	10	19,0
1200TR14	G1/4"	11,5	16,5	31,0	13	33,0
1200TR38	G3/8"	12,0	21,0	36,0	17	57,0
1200TR12	G1/2"	15,0	26,0	44,0	21	109,0
1200TR34	G3/4"	16,5	32,0	36,5	25	144,0
1200TR1	G1"	19,0	39,0	45,0	30	244,0

1205

Elbow male BSPT / Female BSPP & metric thread



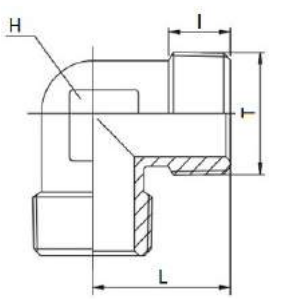


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1205TRM5	M5	M5	5,0	5,5	11,5	11	8	7,0
1205TR18	R1/8"	G1/8"	9,5	8,0	17,5	19,5	10	16,0
1205TR14	R1/4"	G1/4"	11,5	11,5	24,0	25	13	31,0
1205TR38	R3/8"	G3/8"	13,0	12,0	27,5	27,5	17	46,0
1205TR12	R1/2"	G1/2"	15,0	15,0	30,0	33,5	21	92,0
1205TR34	R3/4"	G3/4"	16,0	16,5	33,0	36,5	25	120,0
1205TR1	R1"	G1"	17,0	19,0	39,0	45,0	30	212,0

1210

Elbow M/M BSPT & metric thread



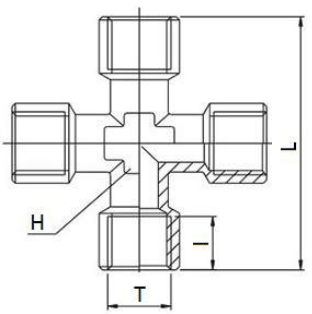


CODE	T	I	L	H	GR.
1210TRM5	M5	5,0	13,5	8	6,0
1210TR18	R1/8"	9,0	18,5	10	13,0
1210TR14	R1/4"	11,5	22,0	12	20,0
1210TR38	R3/8"	13,0	26,0	13	31,0
1210TR12	R1/2"	14,0	28,5	17	55,0
1210TR34	R3/4"	16,0	33,0	25	100,0
1210TR1	R1"	17,0	39,0	30	174,0

1215

Tee F/F/F/F equal cross BSPT thread



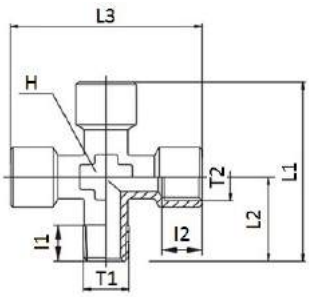


CODE	T	I	L	H	GR.
1215TR18	G1/8"	8,0	42,0	10	38,0
1215TR14	G1/4"	11,0	51,0	13	76,0
1215TR38	G3/8"	11,5	56,0	17	108,0
1215TR12	G1/2"	14,0	67,0	21	186,0

1216

Tee M/F/F/F equal cross BSPT thread



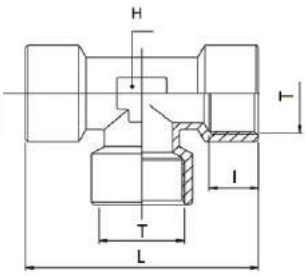


CODE	T1	T2	I1	I2	L1	L2	L3	H	GR.
1216TR18	R1/8"	G1/8"	8,0	8,0	39,5	18,5	42	10	34,0
1216TR14	R1/4"	G1/4"	11,0	11,0	49,0	23,5	51	13	68,0
1216TR38	R3/8"	G3/8"	11,5	11,5	54,0	26,0	56	17	100,0
1216TR12	R1/2"	G1/2"	14,0	14,0	64,5	31,0	67	21	168,0

1220

Tee F/F/F BSPP & metric thread



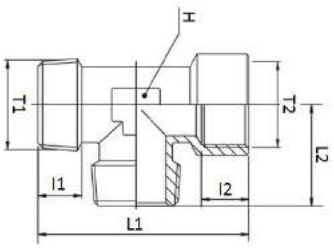


CODE	T	I	L	H	GR.
1220TRM5	M5	5,5	26,5	8	7,0
1220TR18	G1/8"	8,0	40,0	10	28,0
1220TR14	G1/4"	11,5	50,0	13	49,0
1220TR38	G3/8"	12,0	57,0	17	85,0
1220TR12	G1/2"	15,0	68,5	21	146,0
1220TR34	G3/4"	16,5	73,0	25	194,0
1220TR1	G1"	19,0	90,0	30	326,0

1225

Tee M/M/F BSPT & metric thread



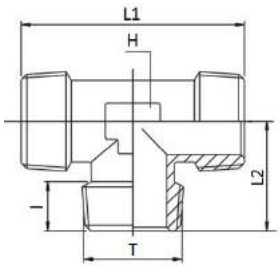


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1225TRM5	M5	M5	5,0	5,5	26,0	13,0	8	8,0
1225TR18	R1/8"	G1/8"	9,5	8,0	38,5	18,5	10	25,0
1225TR14	R1/4"	G1/4"	11,5	11,5	47,5	23,5	13	43,0
1225TR38	R3/8"	G3/8"	13,0	12,0	56,0	26,0	17	72,0
1225TR12	R1/2"	G1/2"	15,0	15,0	67,5	32,0	21	102,0
1225TR34	R3/4"	G3/4"	16,0	16,5	69,5	33,0	25	156,0
1225TR1	R1"	G1"	17,5	19,0	84,0	39,0	30	268,0

1230

Tee M/M/M BSPT & metric thread



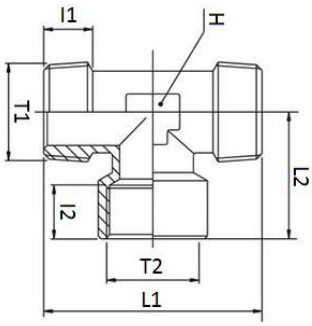


CODE	T	I	L1	L2	H	GR.
1230TRM5	M5	5,0	27,5	13,5	8	8,0
1230TR18	R1/8"	9,5	36,0	17,0	10	20,0
1230TR14	R1/4"	11,5	48,0	24,0	12	38,0
1230TR38	R3/8"	12,0	48,0	24,0	13	47,0
1230TR12	R1/2"	15,0	57,0	28,0	17	80,0
1230TR34	R3/4"	16,2	66,4	33,0	25	134,0
1230TR1	R1"	17,5	78,0	39,0	30	236,0

1235

Tee M/F/M BSPT & metric thread



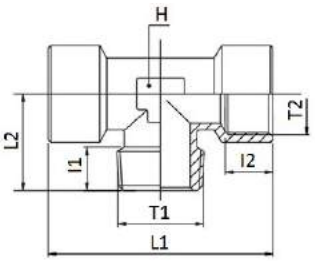


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1235TRM5	M5	M5	5,0	5,5	27,5	13,0	8	6,0
1235TR18	R1/8"	G1/8"	9,5	8,0	36,5	19,5	10	22,0
1235TR14	R1/4"	G1/4"	11,5	11,5	48,0	25,5	13	37,0
1235TR38	R3/8"	G3/8"	13,0	12,0	51,5	28,0	17	62,0
1235TR12	R1/2"	G1/2"	15,0	15,0	63,0	34,0	21	118,0
1235TR34	R3/4"	G3/4"	16,0	16,5	66,4	36,5	25	156,0
1235TR1	R1"	G1"	17,5	19,0	78,0	45,0	30	268,0

1240

Tee F/M/F BSPT & metric thread



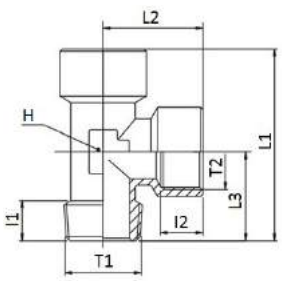


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1240TRM5	M5	M5	5,0	5,5	26,5	11,5	8	9,0
1240TR18	R1/8"	G1/8"	9,5	8,0	40,0	18,5	10	22,0
1240TR14	R1/4"	G1/4"	11,5	11,5	50,0	24,5	13	49,0
1240TR38	R3/8"	G3/8"	13,0	12,0	57,0	26,5	17	75,0
1240TR12	R1/2"	G1/2"	15,0	15,0	68,5	32,0	21	127,0
1240TR34	R3/4"	G3/4"	16,0	16,5	73,0	33,0	25	178,0
1240TR1	R1"	G1"	17,5	19,0	90,0	39,0	30	296,0

1245

Tee M/F/F BSPT & metric thread



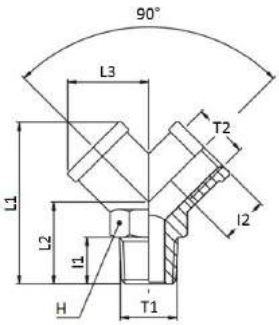


CODE	T1	T2	I1	I2	L1	L2	L3	H	GR.
1245TRM5	M5	M5	5,0	5,5	26,0	13,0	12,0	8	9,0
1245TR18	R1/8"	G1/8"	9,5	8,0	38,5	19,5	18,5	10	24,0
1245TR14	R1/4"	G1/4"	11,5	11,5	49,0	25,0	24,0	13	44,0
1245TR38	R3/8"	G3/8"	13,0	12,0	54,0	28,5	25,5	17	74,0
1245TR12	R1/2"	G1/2"	15,0	15,0	65,5	34,5	31,0	21	132,0
1245TR34	R3/4"	G3/4"	16,0	16,5	69,5	36,5	33,0	25	172,0
1245TR1	R1"	G1"	17,5	19,0	84,0	45,0	39,0	30	298,0

1300

Y F/M/F BSPT thread



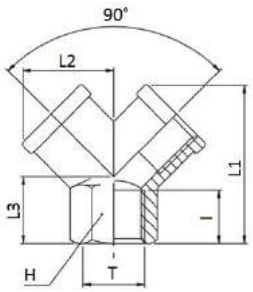


CODE	T1	T2	I1	I2	L1	L2	L3	H	GR.
1300TR18	R1/8"	G1/8"	8,0	8,0	32,0	16	14,5	13	22,0
1300TR14	R1/4"	G1/4"	11,0	11,0	38,0	20	18,0	17	38,0
1300TR38	R3/8"	G3/8"	11,5	11,5	42,5	22	20,5	20	52,0
1300TR12	R1/2"	G1/2"	14,0	14,0	53,0	27	26,5	25	110,0

1310

Y F/F/F BSPT thread



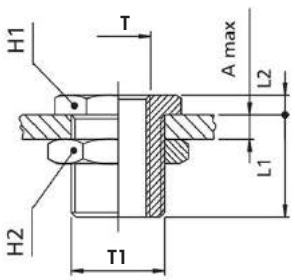


CODE	T	I	L1	L2	L3	H	GR.
1310TR18	G1/8"	8,0	26,5	14,5	12	13	18,0
1310TR14	G1/4"	11,0	32,0	18,0	14	17	32,0
1310TR38	G3/8"	11,5	37,0	20,5	16	20	44,0
1310TR12	G1/2"	14,0	45,0	26,5	19	25	92,0

1320

F/F bulkhead connector BSPP & metric thread



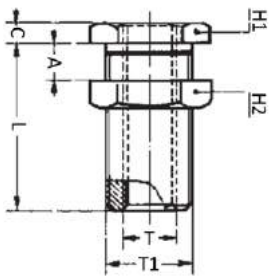


CODE	T	T1	A MAX	L1	L2	H1	H2	GR.
1320TRM5M101	M5	M10X1	7	10,5	3,5	14	14	12,0
1320TR18M1615	G1/8"	M16X1,5	10	14,0	4,0	19	22	30,0
1320TR14M2015	G1/4"	M20X1,5	16	21,0	4,0	24	27	58,0
1320TR38M2615	G3/8"	M26X1,5	15	21,0	5,0	30	32	94,0
1320TR12M2815	G1/2"	M28X1,5	21	27,0	6,0	32	36	116,0

1322

Bulkhead connector F/F in yellow brass BSPP thread



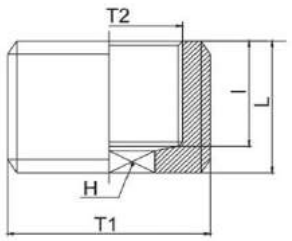


CODE	T	T1	C	L	A	H1	H2
1322TR18M1615	G1/8	M16X1,5	4	14	9	19	19
1322TR14M2015	G1/4	M20X1,5	4	21	15	24	24
1322TR38M2615	G3/8	M26X1,5	5	21	14	30	30
1322TR12M282	G1/2	M28X2	6	27	20	32	32
1322TR34M342	G3/4	M34X2	6	30	22,5	41	41
1322TR114M492	G1-1/4	M49X2	8	39	29,5	55	55

1600

Reducer M/F BSPP & metric thread with exagon embedded



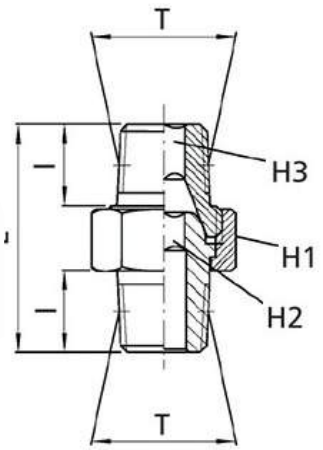


CODE	T1	T2	I	L	H	GR.
1600TRM518	G1/8"	M5	6,5	8,0	3	3,0
1600TR1418	G1/4"	G1/8"	7,0	9,0	6	7,0
1600TR3818	G3/8"	G1/8"	7,0	9,0	6	10,0
1600TR3814	G3/8"	G1/4"	7,0	9,0	8	6,0
1600TR1214	G1/2"	G1/4"	8,5	10,5	10	23,0
1600TR1238	G1/2"	G3/8"	8,5	10,5	10	10,0
1600TR3412	G3/4"	G1/2"	11,0	13,0	12	35,0
1600TR134	G1"	G3/4"	12,5	15,0	17	38,0

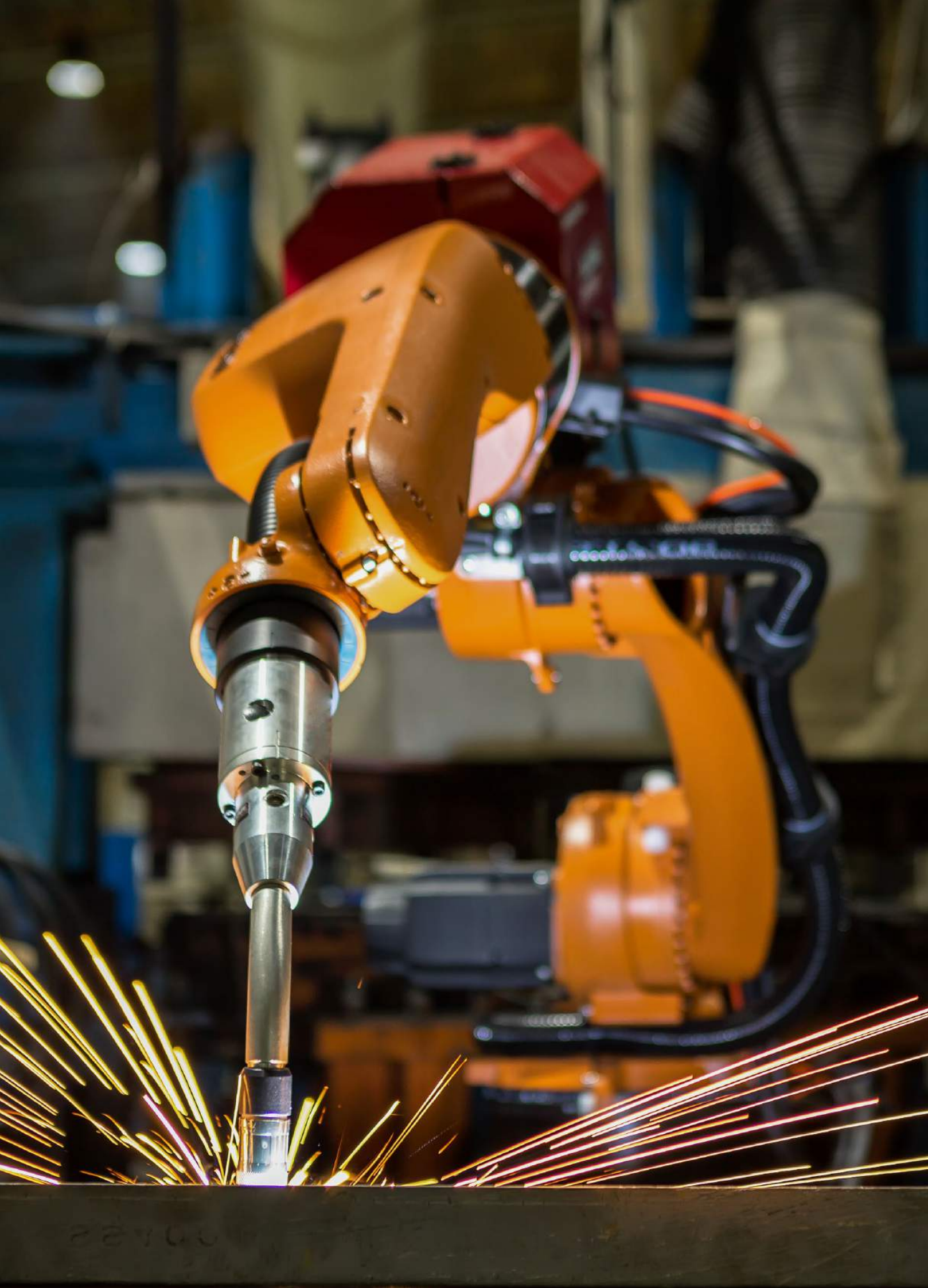
1110-3PCS

Nipple three pieces M/M BSPT thread in yellow brass





CODE	T	I	L	H1	H2	H3	GR.
1110TR18-3P	R1/8"	9,0	27,0	15	5	5	59,0
1110TR14-3P	R1/4"	12,0	33,5	19	6	6	65,0
1110TR38-3P	R3/8"	13,0	36,5	22	8	8	71,0
1110TR12-3P	R1/2"	16,0	44,0	27	12	12	86,0
1110TR34-3P	R3/4"	18,0	53,0	36	14	14	103,0
1110TR1-3P	R1"	22,0	64,0	46	19	19	124,0



STANDARD FITTINGS
BAYONET JOINT AND ACCESSORIES

PLUS

COMPLETE RANGE

MECHANICAL RESISTANCE

STANDARD AND BAYONET CONNECTION



p. 321 / **1255**



p. 321 / **1260**



p. 321 / **1265**



p. 322 / **1270**



p. 322 / **1290**



p. 322 / **1256**



p. 322 / **1280**



p. 322 / **1285**



p. 323 / **1288**



p. 323 / **1291**



p. 323 / **1275**



p. 324 / **1163**



p. 325 / **1164**



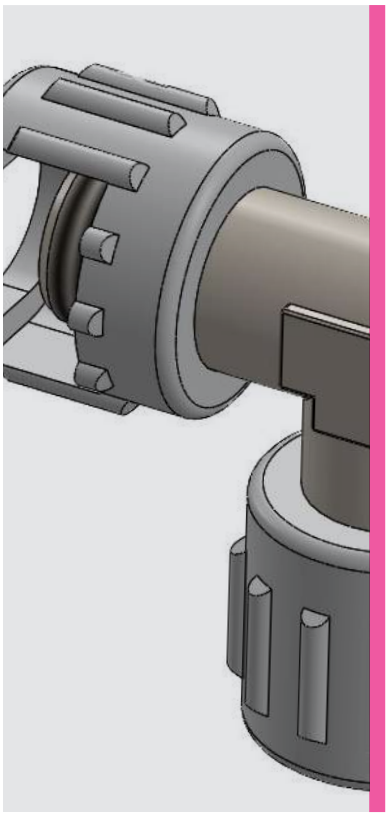
p. 325 / **1292**



p. 326 / **1293**



p. 326 / **1278**



Temperature depends on the tube used, so the value will be defined according to the features of the tube itself

Pressure depends on the tube used, so their values will be defined according to the features of the tube itself

Compressed air

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

1255

Milled nut



CODE	T	GR.
1255TR14	1/4"	14
1255TR14125	1/4"/125	14
1255TR38	3/8"	11

1260

Union tee with milled nuts



CODE	T	GR.
1260TR14	G1/4"	82

1265

Male connector BSPP thread with milled nut



CODE	T	GR.
1265TR14	G1/4"	71
1265TR38	G3/8"	73
1265TR12	G1/2"	82

1270

Union connector with millde nuts



CODE	T	GR.
1270TR14	G1/4"	81

1290

Female connector with milled nut



CODE	T	GR.
1290TR18	G1/8"	28
1290TR14	G1/4"	29
1290TR38	G3/8"	40

1256

Bayoned joints gasket



CODE	GR.
1256	10

1280

Male bayoned joint BSPP thread



CODE	T	GR.
1280TR18	G1/8"	16
1280TR14	G1/4"	16
1280TR38	G3/8"	18

1285

Female bayoned joint BSPP thread



CODE	T	GR.
1285TR18	G1/8"	17
1285TR14	G1/4"	19
1285TR38	G3/8"	18

1288

Bayoned joint with barb connector



CODE	ØTUBE	GR.
1288TR6	6	10
1288TR7	7	12
1288TR8	8	13
1288TR9	9	15
1288TR10	10	14
1288TR11	11	16
1288TR12	12	19
1288TR14	14	18

1291

Large bayoned joint with rubber hose connector



CODE	ØTUBE	GR.
1291BG1019	10X19	112
1291BG1020	10X20	112
1291BG1021	10X21	112
1291BG1022	10X22	117
1291BG1023	10X23	119
1291BG1319	13X19	117
1291BG1320	13X20	118
1291BG1323	13X23	127
1291BG1324	13X24	150
1291BG1325	13X25	150

1275

Bayoned joint with rubber hose connector



CODE	ØTUBE	GR.
1275TR610	6X10	38
1275TR612	6X12	35
1275TR613	6X13	38
1275TR614	6X14	36
1275TR716	7X16	43
1275TR812	8X12	33
1275TR813	8X13	40
1275TR815	8X15	42
1275TR817	8X17	31
1275TR1015	10X15	45
1275TR1017	10X17	49
1275TR1019	10X19	60

1163

Male connector BSPP thread with rubber hose connector



CODE	ØTUBE	T	GR.
1163TR61014	6X10	G1/4″	33
1163TR61214	6X12	G1/4″	30
1163TR61314	6X13	G1/4″	34
1163TR61414	6X14	G1/4″	34
1163TR71614	7X16	G1/4″	38
1163TR81214	8X12	G1/4″	35
1163TR81314	8X13	G1/4″	36
1163TR81514	8X15	G1/4″	39
1163TR81714	8X17	G1/4″	41
1163TR101514	10X15	G1/4″	45
1163TR101714	10X17	G1/4″	48
1163TR101914	10X19	G1/4″	48
1163TR61038	6X10	G3/8″	39
1163TR61238	6X12	G3/8″	36
1163TR61338	6X13	G3/8″	40
1163TR61438	6X14	G3/8″	40
1163TR71638	7X16	G3/8″	44
1163TR81238	8X12	G3/8″	41
1163TR81338	8X13	G3/8″	42
1163TR81538	8X15	G3/8″	45
1163TR81738	8X17	G3/8″	47
1163TR101538	10X15	G3/8″	51
1163TR101738	10X17	G3/8″	54
1163TR101938	10X19	G3/8″	54
1163TR111638	11X16	G3/8″	57

1164

Female connector BSPP thread with rubber hose connector



CODE	ØTUBE	T	GR.
1164TR61014	6X10	G1/4"	30
1164TR61214	6X12	G1/4"	30
1164TR61314	6X13	G1/4"	37
1164TR61414	6X14	G1/4"	35
1164TR71614	7X16	G1/4"	40
1164TR81214	8X12	G1/4"	32
1164TR81314	8X13	G1/4"	32
1164TR81514	8X15	G1/4"	35
1164TR81714	8X17	G1/4"	34
1164TR101514	10X15	G1/4"	38
1164TR101714	10X17	G1/4"	37
1164TR101914	10X19	G1/4"	39
1164TR61038	6X10	G3/8"	36
1164TR61238	6X12	G3/8"	36
1164TR61338	6X13	G3/8"	43
1164TR61438	6X14	G3/8"	41
1164TR71638	7X16	G3/8"	46
1164TR81238	8X12	G3/8"	38
1164TR81338	8X13	G3/8"	38
1164TR81538	8X15	G3/8"	41
1164TR81738	8X17	G3/8"	40
1164TR101538	10X15	G3/8"	44
1164TR101738	10X17	G3/8"	43
1164TR101938	10X19	G3/8"	45

1292

Large male connector BSPP thread with rubber hose connector



CODE	ØTUBE	T	CH	L	GR.
1292TR101938	10X19	G3/8"	24	65	113,0
1292TR102038	10X20	G3/8"	24	65	114,0
1292TR102138	10X21	G3/8"	24	65	114,0
1292TR102238	10X22	G3/8"	24	65	118,0
1292TR102338	10X23	G3/8"	27	65	120,0
1292TR131938	13X19	G3/8"	25	65	115,0
1292TR132038	13X20	G3/8"	25	65	117,0
1292TR132138	13X21	G3/8"	25	65	117,0
1292TR132338	13X23	G3/8"	27	65	124,0
1292TR132438	13X24	G3/8"	30	65	151,0
1292TR132538	13X25	G3/8"	30	65	149,0
1292TR101912	10X19	G1/2"	24	65	113,0
1292TR102012	10X20	G1/2"	24	65	115,0
1292TR102112	10X21	G1/2"	24	65	115,0
1292TR102212	10X22	G1/2"	24	65	119,0
1292TR102312	10X23	G1/2"	27	65	121,0
1292TR131912	13X19	G1/2"	25	65	117,0
1292TR132012	13X20	G1/2"	25	65	118,0
1292TR132112	13X21	G1/2"	25	65	118,0
1292TR132312	13X23	G1/2"	27	65	124,0
1292TR132412	13X24	G1/2"	30	65	151,0
1292TR132512	13X25	G1/2"	30	65	151,0

1293

Swivel large male rubber hose connector BSPT



CODE	ØTUBE	T	H	L	GR.
1293TR101912	10X19	R1/2"	24	69	158,0
1293TR102012	10X20	R1/2"	24	69	158,0
1293TR102112	10X21	R1/2"	24	69	159,0
1293TR102212	10X22	R1/2"	25	69	164,0
1293TR102312	10X23	R1/2"	27	69	166,0
1293TR131912	13X19	R1/2"	25	69	162,0
1293TR132012	13X20	R1/2"	25	69	164,0
1293TR132112	13X21	R1/2"	25	69	164,0
1293TR132312	13X23	R1/2"	27	69	170,0
1293TR132412	13X24	R1/2"	30	69	196,0
1293TR132512	13X25	R1/2"	30	69	196,0

1278

Sliding tap bayoned joint with rubber hose connector



CODE	ØTUBE	GR.
1278TR612	6X12	93
1278TR614	6X14	91
1278TR817	8X17	100
1278TR1019	10X19	112

STANDARD FITTINGS NYLON

PLUS

- COMPLETE RANGE
- STRONG AND DURABLE HIGH IMPACT RESI STANCE
- SUITABLE FOR FOOD



p. 329 / **1800**



p. 329 / **1802**



p. 330 / **1810**



p. 330 / **1812**



p. 330 / **1820**



p. 331 / **1825**



p. 331 / **1827**



p. 331 / **1830**



p. 331 / **1832**



p. 332 / **1834**



p. 332 / **1840**



p. 332 / **1850**



p. 332 / **1855**



p. 333 / **1875**

N



p. 333 / **1800N**

N



p. 333 / **1802N**

N



p. 333 / **1810N**

N



p. 334 / **1812N**

N



p. 334 / **1820N**

N



p. 334 / **1825N**

N



p. 335 / **1827N**

N



p. 335 / **1830N**

N



p. 335 / **1832N**

N

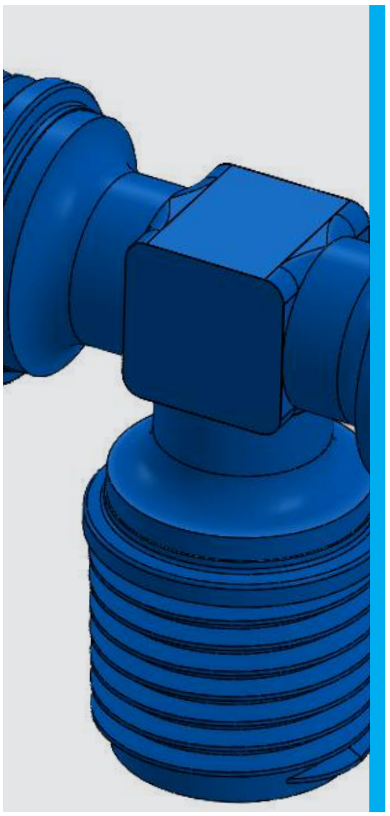


p. 335 / **1840N**

N



p. 336 / **1850N**



-20°C ÷ +110°C subject to applications

Up to 14 Bar at 20°C

Compressed air, water and food fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R3/4" NPT
from N1/8" to N3/4"

Nylon 66

PRECAUTIONS

- The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage.
  Be sure to prevent excessive torque when screwing the fittings.
- To connect the tube, insert the tube to the end and tight the cap before use.
- Cut the pressed part of the tube before connection to reuse the released tube.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

DM174 TIFQ EC1935 TIFQ

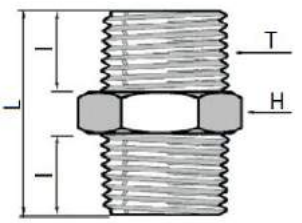
RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,1	0,07
1/4	0,8	0,6
3/8	4	3
1/2	6	4
3/4	8	6
1	10	7

1800

Nipple BSPT thread



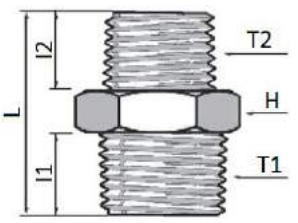


CODE	T	L	I	H	GR.
1800TR18	R1/8"	23,0	8,0	14	1,4
1800TR14	R1/4"	27,0	10,0	17	3,5
1800TR38	R3/8"	28,0	10,0	19	4,2
1800TR12	R1/2"	34,0	12,5	22	8,0

1802

Reduced nipple BSPT thread



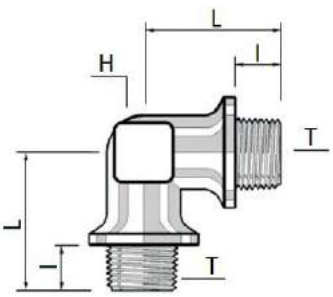


CODE	T1	T2	I1	I2	L	H	GR.
1802TR1418	R1/4"	R1/8"	10,5	8,5	25,0	17	2,5
1802TR3818	R3/8"	R1/8"	10,0	8,0	26,0	19	3,8
1802TR3814	R3/8"	R1/4"	10,0	10,0	28,0	19	4,1
1802TR1214	R1/2"	R1/4"	13,0	10,5	31,5	22	6,7
1802TR1238	R1/2"	R3/8"	13,0	10,5	31,5	22	6,0

1810

M/M elbow BSPT thread



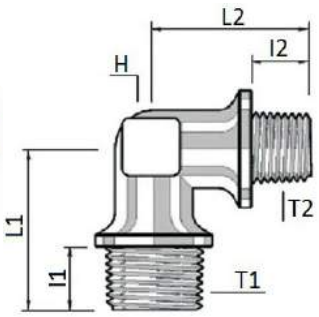


CODE	T	I	L	H	GR.
1810TR18	R1/8"	8,0	20,0	10	3,0
1810TR14	R1/4"	10,0	22,0	10	4,0
1810TR38	R3/8"	10,0	24,0	14	7,0
1810TR12	R1/2"	12,5	32,0	17	15,0

1812

Reduced M/M elbow BSPT thread



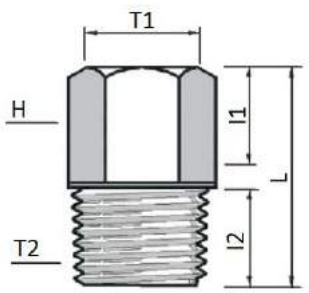


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1812TR1418	R1/4"	R1/8"	10,0	8,0	22,0	20,0	12	3,6
1812TR3814	R3/8"	R1/4"	10,0	10,0	24,0	24,0	15	6,5
1812TR1238	R1/2"	R3/8"	12,5	10,0	32,0	29,5	17	13,0

1820

Adapter M/F BSPT thread

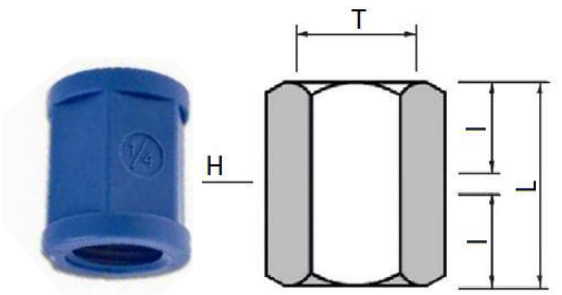




CODE	T1	T2	I1	I2	L	H	GR.
1820TR1818	R1/8"	R1/8"	9,0	8,0	21,5	14	1,0
1820TR1414	R1/4"	R1/4"	10,5	10,0	25,0	17	3,0
1820TR3838	R3/8"	R3/8"	11,0	10,5	26,0	22	5,3
1820TR1212	R1/2"	R1/2"	13,5	13,0	31,0	26	9,0
1820TR1814	R1/8"	R1/4"	10,5	10,0	23,0	14	2,4
1820TR1838	R1/8"	R3/8"	9,0	10,0	24,0	14	2,7
1820TR1812	R1/8"	R1/2"	9,0	12,0	27,0	14	4,1
1820TR1438	R1/4"	R3/8"	10,5	10,0	25,0	17	5,0
1820TR1412	R1/4"	R1/2"	10,5	10,0	27,0	17	4,8
1820TR3812	R3/8"	R1/2"	11,0	13,0	28,0	22	8,0
1820TR1418	R1/4"	R1/8"	10,5	8,0	23,0	17	2,8
1820TR3818	R3/8"	R1/8"	11,0	8,0	23,5	22	4,8
1820TR3814	R3/8"	R1/4"	11,0	10,0	25,0	22	5,1
1820TR1218	R1/2"	R1/8"	13,5	8,0	25,0	26	7,0
1820TR1214	R1/2"	R1/4"	13,5	10,0	26,0	26	7,2
1820TR1238	R1/2"	R3/8"	13,5	10,0	28,0	26	8,0

1825

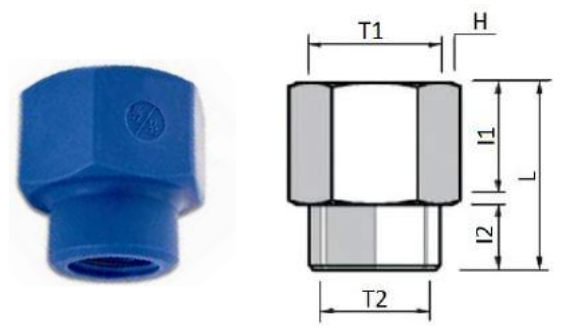
F/F sleeve BSPT thread



CODE	T	I	L	H	GR.
1825TR18	R1/8"	9,0	19,5	14	2,3
1825TR14	R1/4"	11,0	23,0	17	3,7
1825TR38	R3/8"	11,0	24,0	21	5,2
1825TR12	R1/2"	13,5	29,0	26	9,6
1825TR34	R3/4"	18,0	38,0	34	16,8

1827

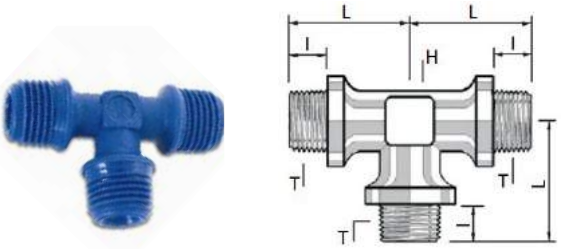
Reduced F/F sleeve BSPT thread



CODE	T1	T2	I1	I2	L	H	GR.
1827TR1418	R1/4"	R1/8"	11,0	9,0	21,5	17	3,2
1827TR3818	R3/8"	R1/8"	11,0	9,0	24,0	21	5,2
1827TR3814	R3/8"	R1/4"	11,0	11,0	24,5	21	6,0
1827TR1214	R1/2"	R1/4"	13,5	11,0	27,0	26	8,0
1827TR1238	R1/2"	R3/8"	13,5	11,0	27,0	26	7,7
1827TR3414	R3/4"	R1/4"	13,5	11,0	27,0	30	11,0
1827TR3412	R3/4"	R1/2"	13,5	11,0	27,0	30	14,5

1830

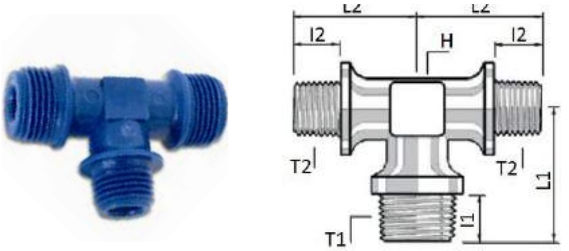
Male tee BSPT thread



CODE	T	I	L	H	GR.
1830TR18	R1/8"	8,0	20,0	12	4,0
1830TR14	R1/4"	10,0	22,0	12	5,0
1830TR38	R3/8"	10,0	25,0	15	10,0
1830TR12	R1/2"	12,5	32,0	17	22,0

1832

Central reduced male tee BSPT thread

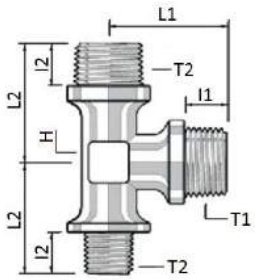


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1832TR1814	R1/8"	R1/4"	8,0	10,0	20,0	22,0	12	4,4
1832TR1438	R1/4"	R3/8"	10,0	10,0	25,0	24,0	15	9,3
1832TR3812	R3/8"	R1/2"	10,0	12,5	29,5	31,0	17	17,3
1832TR1418	R1/4"	R1/8"	10,0	8,0	22,0	20,0	12	5,6
1832TR3814	R3/8"	R1/4"	10,0	10,0	25,0	24,0	15	9,7
1832TR1238	R1/2"	R3/8"	12,5	10,0	32,0	31,0	17	17,0

1834

Lateral reduced male tee BSPT thread



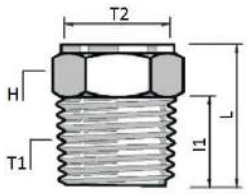


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1834TR1814	R1/8"	R1/4"	8,0	10,0	20,0	21,0	12	5,0
1834TR1438	R1/4"	R3/8"	10,0	10,0	24,0	24,0	15	9,5
1834TR3812	R3/8"	R1/2"	10,0	12,5	29,5	31,0	17	19,0
1834TR1418	R1/4"	R1/8"	10,0	8,0	22,0	21,0	12	4,9
1834TR3814	R3/8"	R1/4"	10,0	10,0	24,0	24,0	15	8,8
1834TR1238	R1/2"	R3/8"	12,5	10,0	32,0	31,0	17	17,9

1840

M/F reducer BSPT thread



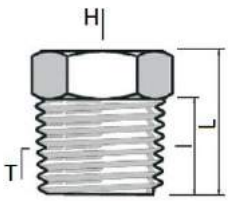


CODE	T1	T2	I1	L	H	GR.
1840TR1418	R1/4"	R1/8"	10,0	17,5	14	1,5
1840TR3818	R3/8"	R1/8"	10,5	17,5	17	2,7
1840TR3814	R3/8"	R1/4"	10,5	17,5	17	2,1
1840TR1218	R1/2"	R1/8"	12,5	20,5	22	6,0
1840TR1214	R1/2"	R1/4"	12,5	20,5	22	5,5
1840TR1238	R1/2"	R3/8"	12,5	20,5	22	3,8
1840TR3414	R3/4"	R1/4"	13,5	22,5	27	8,9
1840TR3438	R3/4"	R3/8"	13,5	22,5	27	8,1
1840TR3412	R3/4"	R1/2"	13,5	22,5	27	7,0

1850

M plug BSPT thread



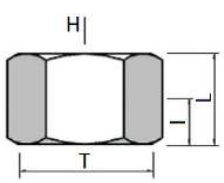


CODE	T	I	L	H	GR.
1850TR18	R1/8"	9,0	14,0	12	1,0
1850TR14	R1/4"	10,5	16,0	15	2,0
1850TR38	R3/8"	10,5	16,0	17	3,0
1850TR12	R1/2"	12,5	20,0	22	5,0
1850TR34	R3/4"	15,0	22,0	30	8,0
1850TR1	R1"	20,0	27,0	36	-

1855

Female plug BSPT thread



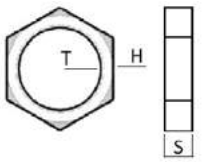


CODE	T	I	L	H	GR.
1855TR18	R1/8"	9,0	15,0	13	1,1
1855TR14	R1/4"	10,0	16,0	16	1,2
1855TR38	R3/8"	11,0	14,0	20	2,7
1855TR12	R1/2"	13,5	20,5	25	4,3
1855TR34	R3/4"	14,0	19,5	30	6,2

1875

Nut BSPT thread



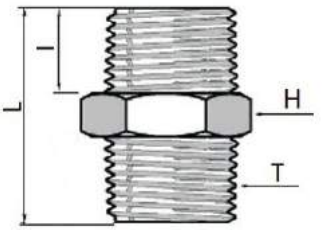


CODE	T	S	H	GR.
1875TR14	R1/4"	35,0	15,0	0,8
1875TR12	R1/2"	110,0	25,5	3,0

1800N

Nipple NPT



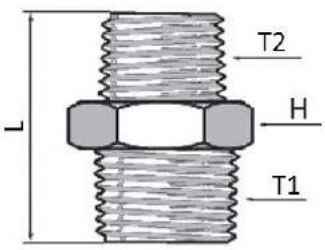


CODE	T	H	L	GR.
1800TRN18	N1/8"	11	23,9	1,4
1800TRN14	N1/4"	14	32,7	2,79
1800TRN38	N3/8"	17	34,4	4,85
1800TRN12	N1/2"	22	43,3	8,75
1800TRN34	N3/4"	27	44,4	12,44

1802N

Reduced nipple NPT thread



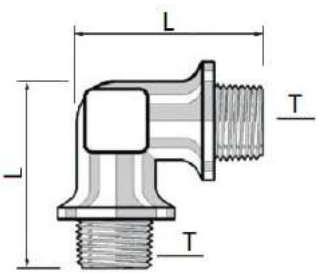


CODE	T1	T2	H	L	GR.
1802TRN1418	N1/4"	N1/8"	14	28,4	2,3
1802TRN3818	N3/8"	N1/8"	17	29,6	3,8
1802TRN1218	N1/2"	N1/8"	22	34,9	6,4
1802TRN3418	N3/4"	N1/8"	27	35,4	9,1
1802TRN3814	N3/8"	N1/4"	17	33,4	4,17
1802TRN1214	N1/2"	N1/4"	22	38,7	6,9
1802TRN3414	N3/4"	N1/4"	27	39,4	9,5
1802TRN1238	N1/2"	N3/8"	22	39,1	7,6
1802TRN3438	N3/4"	N3/8"	27	39,6	10,2
1802TRN3412	N3/4"	N1/2"	27	44,1	11,4

1810N

M/M elbow NPT thread



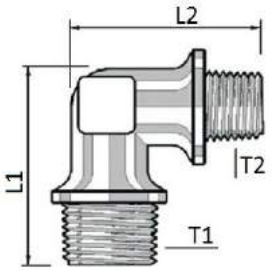


CODE	T	L	GR.
1810TRN18	N1/8"	23,8	2,2
1810TRN14	N1/4"	28,4	3,3

1812N

Reducer M/M elbow NPT thread



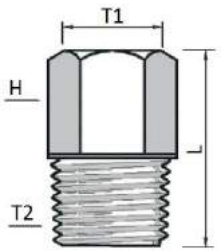


CODE	T1	T2	L1	L2	GR.
1812TRN1418	N1/4"	N1/8"	28,4	24,0	2,9

1820N

M/F adapter NPT thread



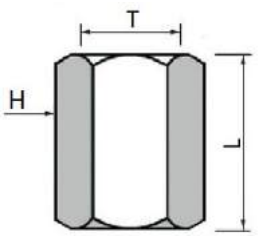


CODE	T1	T2	H	L	GR.
1820TRN1818	N1/8"	N1/8"	14	23,4	2,2
1820TRN1414	N1/4"	N1/4"	17	30,7	3,8
1820TRN3838	N3/8"	N3/8"	22	30,4	5,95
1820TRN1212	N1/2"	N1/2"	26	39,0	5,77
1820TRN1814	N1/8"	N1/4"	14	23,4	2,55
1820TRN1838	N1/8"	N3/8"	14	27,4	3,13
1820TRN1812	N1/8"	N1/2"	14	32,5	4,66
1820TRN1438	N1/4"	N3/8"	17	30,5	4,23
1820TRN1412	N1/4"	N1/2"	17	35,5	5,8
1820TRN3812	N3/8"	N1/2"	22	35,5	7,66
1820TRN1418	N1/4"	N1/8"	17	26,5	3,17
1820TRN3818	N3/8"	N1/8"	22	26,3	5,06
1820TRN3814	N3/8"	N1/4"	22	26,5	5,68
1820TRN1218	N1/2"	N1/8"	26	30,0	7,73
1820TRN1214	N1/2"	N1/4"	26	34,0	8,04
1820TRN1238	N1/2"	N3/8"	26	36,6	8,66

1825N

F/F sleeve NPT thread



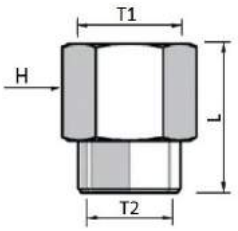


CODE	T	H	L	GR.
1825TRN18	N1/8"	14	19,7	2,3
1825TRN14	N1/4"	17	23,5	3,7
1825TRN38	N3/8"	22	24,6	5,2
1825TRN12	N1/2"	27	29,5	9,7

1827N

Reducer F/F sleeve NPT thread



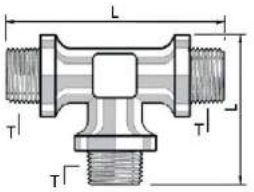


CODE	T1	T2	H	L	GR.
1827TRN1418	N1/4"	N1/8"	17	22,0	3,2
1827TRN3818	N3/8"	N1/8"	22	24,4	4,9
1827TRN3814	N3/8"	N1/4"	22	24,8	4,83
1827TRN1214	N1/2"	N1/4"	26	27,0	7,4
1827TRN1238	N1/2"	N3/8"	26	26,8	7,8

1830N

Male tee NPT thread



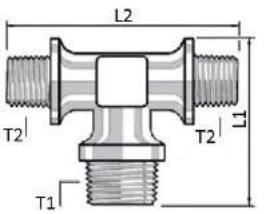


CODE	T	L	L1	GR.
1830TRN18	N1/8"	39,3	24,0	3,2
1830TRN14	N1/4"	48,4	28,5	4,8

1832N

Central reducer male tee NPT thread



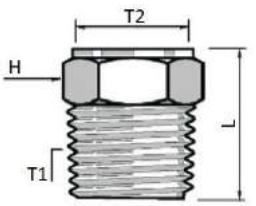


CODE	T1	T2	L1	L2	GR.
1832TRN1418	N1/4"	N1/8"	48,4	24,0	4,2

1840N

M/F reducer NPT thread



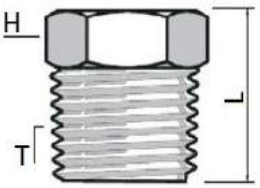


CODE	T1	T2	H	L	GR.
1840TRN1418	N1/4"	N1/8"	24	27,2	1,78
1840TRN3818	N3/8"	N1/8"	29	27,3	3,3
1840TRN3814	N3/8"	N1/4"	29	27,2	2,4
1840TRN1218	N1/2"	N1/8"	18	20,8	6,98
1840TRN1214	N1/2"	N1/4"	15	21,0	6,65
1840TRN1238	N1/2"	N3/8"	19	20,8	5,55
1840TRN3414	N3/4"	N1/4"	29	27,2	10,44
1840TRN3438	N3/4"	N3/8"	29	27,0	9,85
1840TRN3412	N3/4"	N1/2"	19	27,1	7,9

1850N

M plug NPT thread





CODE	T	H	L	GR.
1850TRN18	N1/8"	11	14,7	1,1
1850TRN14	N1/4"	14	19,4	2
1850TRN38	N3/8"	17	20,4	3,3
1850TRN12	N1/2"	22	25,6	6
1850TRN34	N3/4"	27	26,0	8,7

STANDARD FITTINGS
PVDF

PLUS

COMPLETE RANGE

FITTINGS MADE OF PVDF CAN FUNCTION WELL, EVEN WHEN EXPOSED TO A WIDE RANGE OF TEMPERATURES AND HIGH CORROSIVE CHEMICALS

SUITABLE FOR FOOD



p. 339 / **1900**



p. 339 / **1902**



p. 340 / **1910**



p. 340 / **1912**



p. 340 / **1920**



p. 341 / **1925**



p. 341 / **1927**



p. 341 / **1930**



p. 341 / **1932**



p. 342 / **1934**



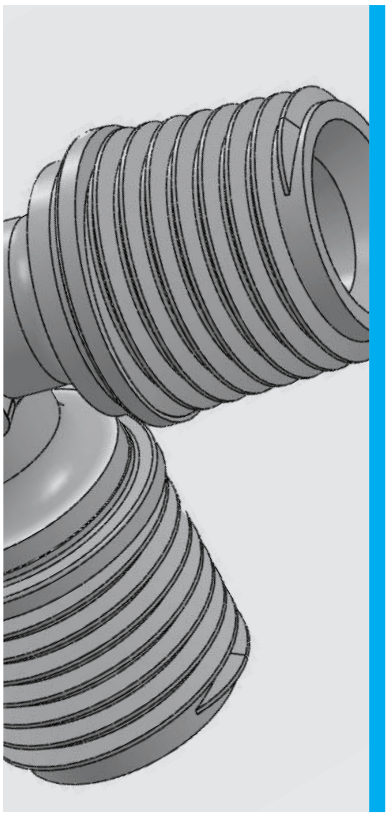
p. 342 / **1940**



p. 342 / **1950**



p. 342 / **1955**



20°C ÷ +120°C
subject to applications

Up to 14 Bar at 20°C

Compressed air, water and food fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R3/4"

Polyvinylidene fluoride (PVDF)

RECOMMENDED TIGHTENING TORQUE

THREAD SIZE	NM	FT LB
1/8	0,1	0,07
1/4	1	0,8
3/8	5	3
1/2	8	6
3/4	16	12
1	26	19

FEATURES

To be used with all kind of very corrosive fluids like acids, weak bases, halogens, alcohols, salts, heavy duty oxidants, detergents, ecc. Uv resistant, Nuclear resistant.

Available on demand with NPT thread

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

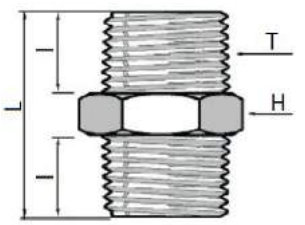
Products in compliance with the directive 2011/65/EU

DM174 EC1935

1900

Nipple BSPT thread



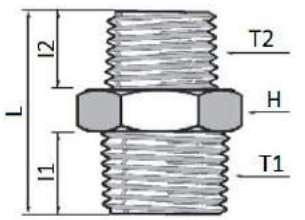


CODE	T	L	I	H	GR.
1900TR18	R1/8"	23,0	8,0	14	1,4
1900TR14	R1/4"	27,0	10,0	17	3,5
1900TR38	R3/8"	28,0	10,0	19	4,2
1900TR12	R1/2"	34,0	12,5	22	8,0

1902

Reduced nipple BSPT thread



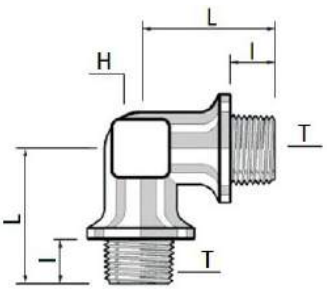


CODE	T1	T2	I1	I2	L	H	GR.
1902TR1418	R1/4"	R1/8"	10,5	8,5	25,0	17	2,5
1902TR3818	R3/8"	R1/8"	10,0	8,0	26,0	19	3,8
1902TR3814	R3/8"	R1/4"	10,0	10,0	28,0	19	4,1
1902TR1218	R1/2"	R1/8"	13,0	12,0	35,0	22	6,1
1902TR1214	R1/2"	R1/4"	13,0	10,5	31,5	22	6,7
1902TR1238	R1/2"	R3/8"	13,0	10,5	31,5	22	6,0

1910

Elbow M/M BSPT thread



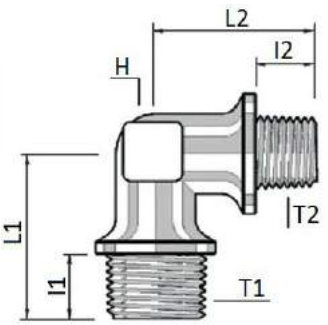


CODE	T	I	L	H	GR.
1910TR18	R1/8"	8,0	20,0	10	3,0
1910TR14	R1/4"	10,0	22,0	10	4,0
1910TR38	R3/8"	10,0	24,0	14	7,0
1910TR12	R1/2"	12,5	32,0	17	15,0

1912

Reduced elbow M/M BSPT thread



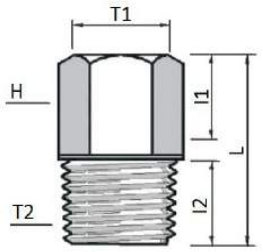


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1912TR1418	R1/4"	R1/8"	10,0	8,0	22,0	20,0	12	3,6
1912TR3814	R3/8"	R1/4"	10,0	10,0	24,0	24,0	15	6,5
1912TR1238	R1/2"	R3/8"	12,5	10,0	32,0	29,5	17	13,0

1920

Adapter M/F BSPT thread



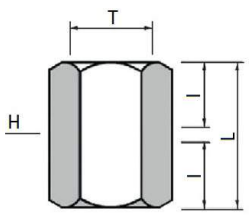


CODE	T1	T2	I1	I2	L	H	GR.
1920TR1818	R1/8"	R1/8"	9,0	8,0	21,5	14	1,0
1920TR1414	R1/4"	R1/4"	10,5	10,0	25,0	17	3,0
1920TR3838	R3/8"	R3/8"	11,0	10,5	26,0	22	5,3
1920TR1212	R1/2"	R1/2"	13,5	13,0	31,0	26	9,0
1920TR1814	R1/8"	R1/4"	10,5	10,0	23,0	14	2,4
1920TR1838	R1/8"	R3/8"	9,0	10,0	24,0	14	2,7
1920TR1812	R1/8"	R1/2"	9,0	12,0	27,0	14	4,1
1920TR1438	R1/4"	R3/8"	10,5	10,0	25,0	17	5,0
1920TR1412	R1/4"	R1/2"	10,5	10,0	27,0	17	4,8
1920TR3812	R3/8"	R1/2"	11,0	13,0	28,0	22	8,0
1920TR1418	R1/4"	R1/8"	10,5	8,0	23,0	17	2,8
1920TR3818	R3/8"	R1/8"	11,0	8,0	23,5	22	4,8
1920TR3814	R3/8"	R1/4"	11,0	10,0	25,0	22	5,1
1920TR1218	R1/2"	R1/8"	13,5	8,0	25,0	26	7,0
1920TR1214	R1/2"	R1/4"	13,5	10,0	26,0	26	7,2
1920TR1238	R1/2"	R3/8"	13,5	10,0	28,0	26	8,0

1925

Sleeve F/F BSPT thread



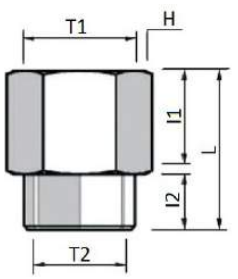


CODE	T	I	L	H	GR.
1925TR18	R1/8"	9,0	19,5	14	2,3
1925TR14	R1/4"	11,0	23,0	17	3,7
1925TR38	R3/8"	11,0	24,0	21	5,2
1925TR12	R1/2"	13,5	29,0	26	9,6
1925TR34	R3/4"	18,0	38,0	34	16,8

1927

Reduced sleeve F/F BSPT thread



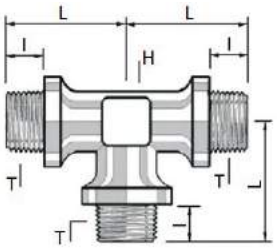


CODE	T1	T2	I1	I2	L	H	GR.
1927TR1418	R1/4"	R1/8"	11,0	9,0	21,5	17	3,2
1927TR3818	R3/8"	R1/8"	11,0	9,0	24,0	21	5,2
1927TR3814	R3/8"	R1/4"	11,0	11,0	24,5	21	6,0
1927TR1214	R1/2"	R1/4"	13,5	11,0	27,0	26	8,0
1927TR1238	R1/2"	R3/8"	13,5	11,0	27,0	26	7,7
1927TR3414	R3/4"	R1/4"	13,5	11,0	27,0	30	11,0
1927TR3412	R3/4"	R1/2"	13,5	11,0	27,0	30	14,5

1930

Male tee BSPT thread



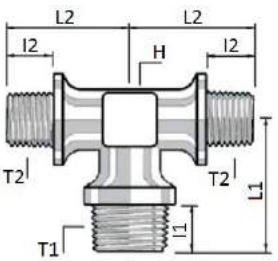


CODE	T	I	L	H	GR.
1930TR18	R1/8"	8,0	20,0	12	4,0
1930TR14	R1/4"	10,0	22,0	12	5,0
1930TR38	R3/8"	10,0	25,0	15	10,0
1930TR12	R1/2"	12,5	32,0	17	22,0

1932

Central reduced male tee BSPT thread



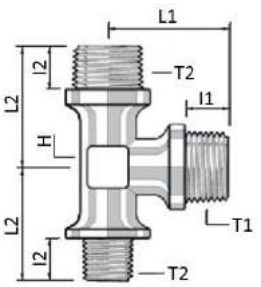


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1932TR1814	R1/8"	R1/4"	8,0	10,0	20,0	22,0	12	4,4
1932TR1438	R1/4"	R3/8"	10,0	10,0	25,0	24,0	15	9,3
1932TR3812	R3/8"	R1/2"	10,0	12,5	29,5	31,0	17	17,3
1932TR1418	R1/4"	R1/8"	10,0	8,0	22,0	20,0	12	5,6
1932TR3814	R3/8"	R1/4"	10,0	10,0	25,0	24,0	15	9,7
1932TR1238	R1/2"	R3/8"	12,5	10,0	32,0	31,0	17	17,0

1934

Lateral reduced male tee BSPT thread

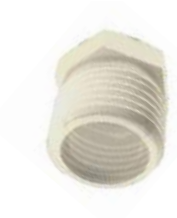


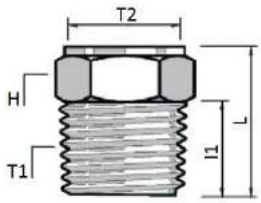


CODE	T1	T2	I1	I2	L1	L2	H	GR.
1934TR1814	R1/8"	R1/4"	8,0	10,0	20,0	21,0	12	5,0
1934TR1418	R1/4"	R1/8"	10,0	8,0	22,0	21,0	12	4,9
1934TR1438	R1/4"	R3/8"	10,0	10,0	24,0	24,0	15	9,5
1934TR3814	R3/8"	R1/4"	10,0	10,0	24,0	24,0	15	8,8
1934TR3812	R3/8"	R1/2"	10,0	12,5	29,5	31,0	17	19,0
1934TR1238	R1/2"	R3/8"	12,5	10,0	32,0	31,0	17	17,9

1940

M/F reduced BSPT thread



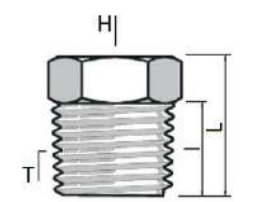


CODE	T1	T2	I1	L	H	GR.
1940TR1418	R1/4"	R1/8"	10,0	17,5	14	1,5
1940TR3818	R3/8"	R1/8"	10,5	17,5	17	2,7
1940TR3814	R3/8"	R1/4"	10,5	17,5	17	2,1
1940TR1218	R1/2"	R1/8"	12,5	20,5	22	6,0
1940TR1214	R1/2"	R1/4"	12,5	20,5	22	5,0
1940TR1238	R1/2"	R3/8"	12,5	20,5	22	3,8
1940TR3414	R3/4"	R1/4"	13,5	22,5	27	8,9
1940TR3438	R3/4"	R3/8"	13,5	22,5	27	8,1
1940TR3412	R3/4"	R1/2"	13,5	22,5	27	7,0

1950

Male plug BSPT thread



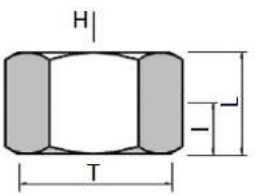


CODE	T	I	L	H	GR.
1950TR18	R1/8"	9,0	14,0	12	1,0
1950TR14	R1/4"	10,5	16,0	15	2,0
1950TR38	R3/8"	10,5	16,0	17	3,0
1950TR12	R1/2"	12,5	20,0	22	5,0
1950TR34	R3/4"	15,0	22,0	30	8,0
1950TR1	R1"	-	27,0	36	11,0

1955

Female plug BSPT thread





CODE	T	I	L	H	GR.
1955TR18	R1/8"	9,0	15,0	13	1,1
1955TR14	R1/4"	10,0	16,0	16	1,2
1955TR38	R3/8"	11,0	14,0	20	2,7
1955TR12	R1/2"	13,5	20,5	25	4,3
1955TR34	R3/4"	14,0	19,5	30	6,2

STANDARD FITTINGS
INOX AISI 316

PLUS

ALL FLUIDS IN AGGRESSIVE ENVIROMENTS

ROBUST DESIGN PRODUCTS

SUITABLE FOR FOOD



p. 345 / **1410**



p. 345 / **1412**



p. 346 / **1420**



p. 346 / **1425**



p. 346 / **1426**



p. 346 / **1430**



p. 347 / **1440**



p. 347 / **1461**



p. 347 / **1476**



p. 348 / **1449**



p. 348 / **P-SL**



p. 349 / **P-SSL**



p. 349 / **P-ST**



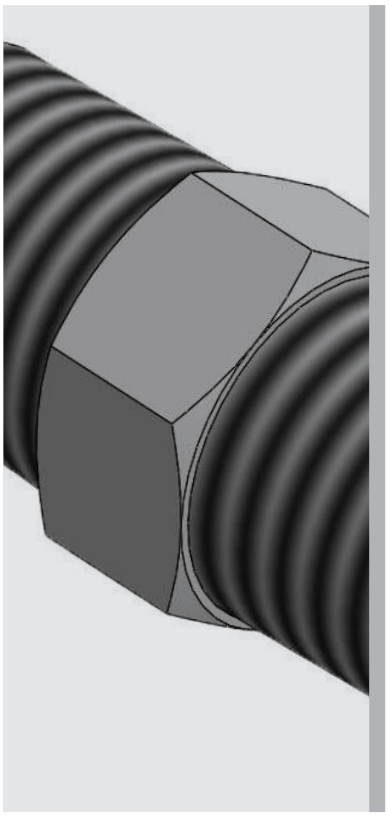
p. 349 / **P-SBT**



p. 349 / **P-SHN**



p. 350 / **P-MFAA**



-20°C ÷ +180°C

Up to 150 Bar

Compressed air, potable water and food fluids suitable with construction materials

Taper gas BSPT ISO 7
from R1/8" to R1 3/4"
Parallel BSPP ISO 228
from G1/8" to G1 3/4"

Stainless steel AISI 316

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

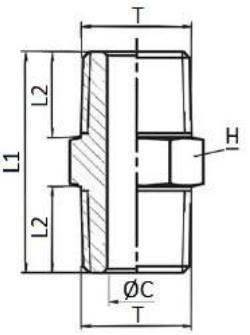
Products in compliance with the directive 2011/65/EU

DM174 EC1935

1410

Nipple BSPT thread



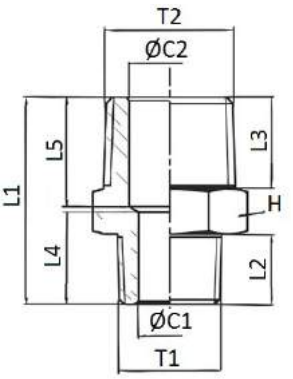


CODE	T	ØC	L1	L2	H	GR
1410TR18	R1/8"	5	24	9,0	12	11,3
1410TR14	R1/4"	7	27	10,5	14	19,6
1410TR38	R3/8"	10	30	11,5	17	29,9
1410TR12	R1/2"	13	38	15,0	22	58,0
1410TR34	R3/4"	18	46	18,0	27	95,4

1412

Reduced nipple BSPT thread



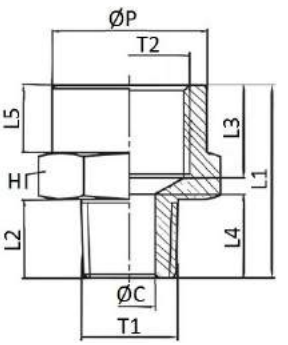


CODE	T1	T2	ØC1	ØC2	L1	L2	L3	L4	L5	H	GR.
1412TR1814	R1/8"	R1/4"	7	5	25,5	10,5	9,0	15,0	9,9	14	15,9
1412TR1438	R1/4"	R3/8"	7	10	29,0	10,5	11,5	13,10	15,0	17	26,6
1412TR1412	R1/4"	R1/2"	7	13	33,0	10,5	15,0	13,27	18,0	22	45,3
1412TR3812	R3/8"	R1/2"	10	13	34,0	11,5	15,0	15,10	18,0	22	48,5
1412TR1234	R1/2"	R3/4"	13	18	43,0	15,0	18,0	19,60	22,0	27	87,1

1420

Enlarger M BSPT thread / F BSPP thread



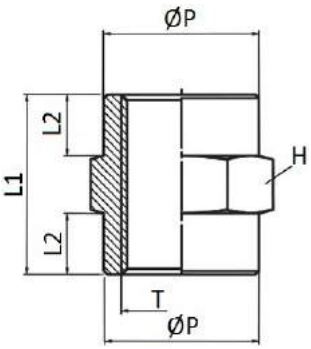


CODE	T1	T2	ØC	ØP	L1	L2	L3	L4	L5	H	GR.
1420TR1814	R1/8"	G1/4"	5	16,5	22	8	11,0	9,1	8,0	17	16,2
1420TR1438	R1/4"	G3/8"	7	21,5	27,0	11	13,0	11,7	9,5	22	33,2
1420TR3812	R3/8"	G1/2"	10	26,5	30,0	11	15,0	12,4	11,5	27	54,6

1425

Sleeve F/F BSPP thread



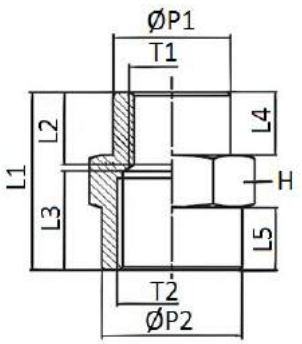


CODE	T	ØP	L1	L2	H	GR.
1425TR18	G1/8"	13,0	15	5,0	14	8,9
1425TR14	G1/4"	16,5	22	7,5	17	17,4
1425TR38	G3/8"	21,5	25	8,5	22	34,4
1425TR12	G1/2"	26,5	32	11,0	27	64,4
1425TR34	G3/4"	31,5	34	12,0	32	79,3

1426

Reduced sleeve F/F BSPP thread



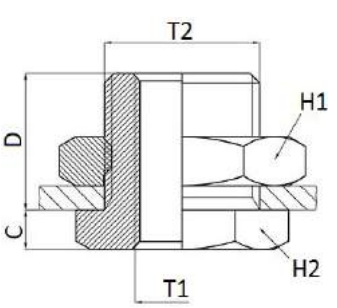


CODE	T1	T2	ØP1	ØP2	L1	L2	L3	L4	L5	H	GR.
1426TR1814	G1/8"	G1/4"	13,5	16,5	23,0	9,1	13	7,0	9,0	17	18,4
1426TR1438	G1/4"	G3/8"	18,0	21,5	27,0	11,0	15	9,5	9,5	22	36,2
1426TR1412	G1/4"	G1/2"	18,0	26,5	30,0	10,8	17	9,5	10,5	27	56,8
1426TR3812	G3/8"	G1/2"	21,5	26,5	30,0	11,8	17	8,0	13,0	27	61,6
1426TR1234	G1/2"	G3/4"	26,5	31,5	36,0	14,6	20	11,0	15,0	32	88,3

1430

Bulkhead Inox AISI 316



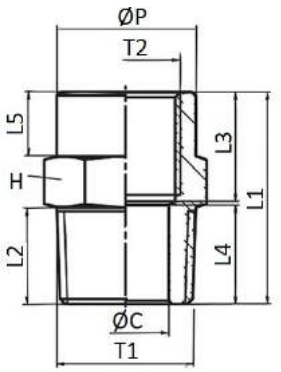


CODE	T1	T2	C	D	H1	H2	GR.
1430TR14M2015	1/4	M20X1,5	4	20	27	24	58,0
1430TR12M2815	1/2	M28X1,5	6	27	36	32	125,0

1440

Reducer M BSPT thread / F BSPP thread



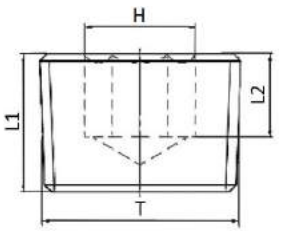


CODE	T1	T2	ØP	ØC	L1	L2	L3	L4	L5	H	GR.
1440TR1418	R1/4"	G1/8"	13,5	7,0	23,5	11,0	9	13,0	7,0	14	16,0
1440TR3814	R3/8"	G1/4"	16,5	10,0	26,5	11,5	12	13,1	8,0	17	23,7
1440TR1238	R1/2"	G3/8"	21,4	13,0	33,0	15,0	17	15,4	10,0	22	47,0

1461

Plug M BSPT thread with exagon embedded



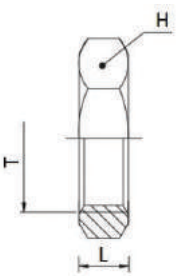


CODE	T	L1	L2	H	GR.
1461TR18	R1/8"	8,2	5,0	5	3,0
1461TR14	R1/4"	10,2	6,0	6	7,4
1461TR38	R3/8"	11,6	7,0	8	14,0
1461TR12	R1/2"	13,3	8,0	10	24,5
1461TR34	R3/4"	15,0	9,0	12	46,4

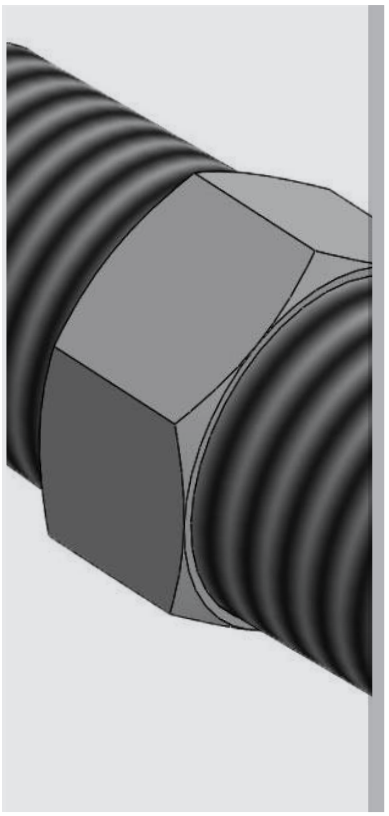
1476

Locknuts for bulkhead





CODE	T	L	H
1476TRHM1215	M12X1,5	6	17
1476TRHM1415	M14X1,5	6	19
1476TRHM1615	M16X1,5	6	22
1476TRHM1815	M18X1,5	6	24
1476TRHM2215	M22X1,5	7	30



-198°C ÷ +648°C

See the datasheet.
Pressure calculated at 37,8°C

Compressed air, water and fluids compatible with construction material.

Taper gas BSPT from R1/8" to R1"
Parallel gas BSPP from G1/8" to G1"
NPT from N1/8" to N1"

Stainless steel AISI 316

REACH

Products in compliance with the directive 2002/95/EC

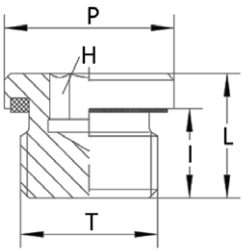
RoHS2

Products in compliance with the directive 2011/65/EU

1449

Male plug BSPP thread



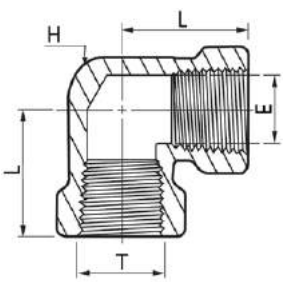


CODE	T	P	L	I	H	PN
1449TRH18	G1/8"	14	12,0	8	5	400
1449TRH14	G1/4"	19	17,0	12	6	400
1449TRH38	G3/8"	22	17,0	12	8	400
1449TRH12	G1/2"	27	19,0	14	10	400
1449TRH34	G3/4"	32	21,0	16	12	400
1449TRH1	G1"	40	22,5	16	17	400

P-SL

Elbow F/F BSPP thread



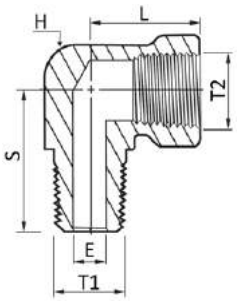


CODE	T	L	E	H WRENCH FLAT	PN (BAR)
P-SL-2G	G1/8"	24,1	8,9	12,7	448
P-SL-4G	G1/4"	29,0	11,7	17,5	455
P-SL-6G	G3/8"	34,5	15,0	20,6	365
P-SL-8G	G1/2"	37,0	18,7	25,4	338
P-SL-12G	G3/4"	46,5	23,5	31,8	317
P-SL-16G	G1"	48,8	29,7	42,9	303

P-SSL

Elbow M/F BSPP thread



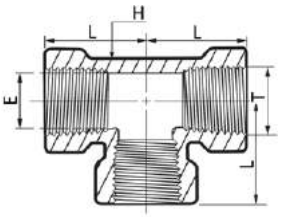


CODE	T1	T2	E	L	S	H WRENCH FLAT	PN (BAR)
P-SSL-2GR	R1/8"	G1/8"	4,8	24,1	19,6	12,7	448
P-SSL-4GR	R1/4"	G1/4"	7,1	29,0	26,5	17,5	455
P-SSL-6GR	R3/8"	G3/8"	9,6	34,5	28,2	20,6	365
P-SSL-8GR	R1/2"	G1/2"	11,9	37,0	35,3	25,4	338
P-SSL-12GR	R3/4"	G3/4"	15,7	46,5	39,6	31,8	317
P-SSL-16GR	R1"	G1"	22,3	48,8	49,2	42,9	303

P-ST

Tee F/F/F BSPP thread



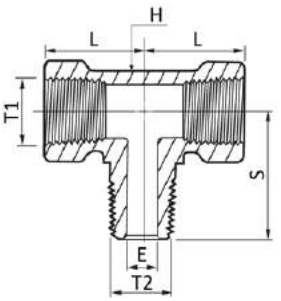


CODE	T	E	L	H WRENCH FLAT	PN (BAR)
P-ST-2G	G1/8"	8,9	24,1	12,7	448
P-ST-4G	G1/4"	11,7	29,0	17,5	455
P-ST-6G	G3/8"	15,0	34,5	20,6	365
P-ST-8G	G1/2"	18,7	37,0	25,4	338
P-ST-12G	G3/4"	23,5	46,5	31,8	317
P-ST-16G	G1"	29,7	48,5	42,9	303

P-SBT

Tee F/M/F BSPP thread



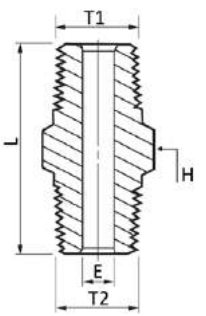


CODE	T1	T2	E	L	S	H WRENCH FLAT	PN (BAR)
P-SBT-2GR	G1/8"	R1/8"	4,8	24,1	19,6	12,7	448
P-SBT-4GR	G1/4"	R1/4"	7,1	29,0	26,5	17,5	455
P-SBT-6GR	G3/8"	R3/8"	9,6	34,5	28,2	20,6	365
P-SBT-8GR	G1/2"	R1/2"	11,9	37,0	35,3	25,4	338
P-SBT-12GR	G3/4"	R3/4"	15,7	46,5	39,6	31,8	317
P-SBT-16GR	G1"	R1"	22,3	48,8	49,2	42,9	303

P-SHN

Adaptator nipple NPT/BSPT thread



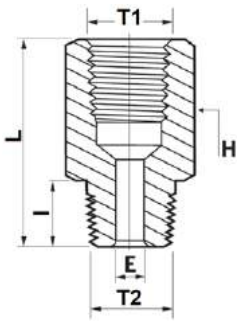


CODE	T1	T2	L	E	H WRENCH FLAT	PN (BAR)
P-SHN-2NR	N1/8"	R1/8"	24,6	4,1	11,1	689
P-SHN-4NR	N1/4"	R1/4"	35,6	6,4	14,2	551
P-SHN-6NR	N3/8"	R3/8"	36,3	9,7	17,4	538
P-SHN-8NR	N1/2"	R1/2"	46,0	11,9	22,2	531
P-SHN-12NR	N3/4"	R3/4"	46,7	15,7	26,9	503
P-SHN-16NR	N1"	R1"	58,9	22,4	34,9	365

P-MFAA

Adaptator female NPT - male BSPT thread





CODE	T1	T2	L	I	E	H	PN (BAR)
P-MFAA-2RN	N1/8"	R1/8"	27,4	9,7	4,8	14,2	448
P-MFAA-4RN	N1/4"	R1/4"	35,8	14,2	7,1	19,05	455
P-MFAA-6RN	N3/8"	R3/8"	37,6	14,2	9,7	22,2	365
P-MFAA-8RN	N1/2"	R1/2"	49,0	19,1	11,9	26,9	338
P-MFAA-12RN	N3/4"	R3/4"	50,3	19,1	15,7	31,8	317
P-MFAA-16RN	N1"	R1"	58,0	23,9	22,3	41,2	303

STANDARD FITTINGS DISTRIBUTION MANIFOLDS

PLUS

COMPACTS

LIGHT

MANY CONFIGURATIONS



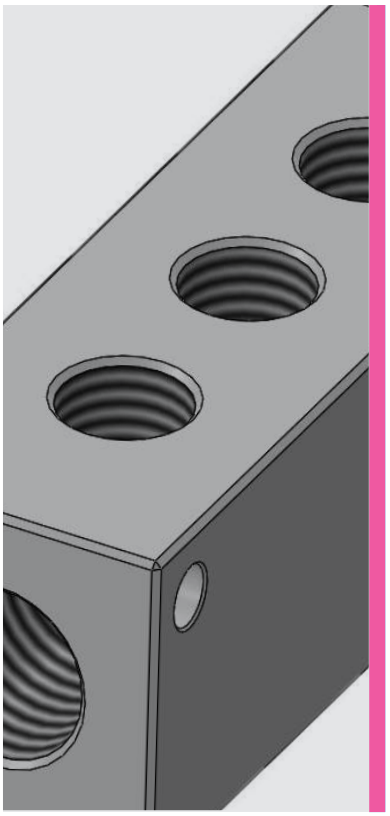
p. 353 / **4100**



p. 353 / **4150**



p. 354 / **4200**



-10°C ÷ +80°C

20 Bar

Compressed air, oil and fluids suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G1/2"
Metric ISO 262 - M5

Aluminum with tumbling
Anodized on demand

Available on demand and drawing distribution manifolds customized

REACH

Products in compliance with the directive 2002/95/EC

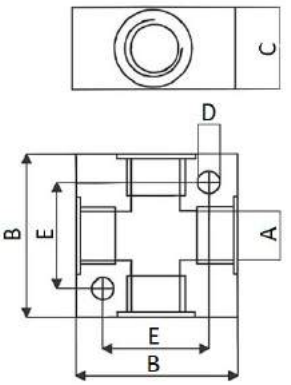
RoHS2

Products in compliance with the directive 2011/65/EU

4100

Aluminum tee cross



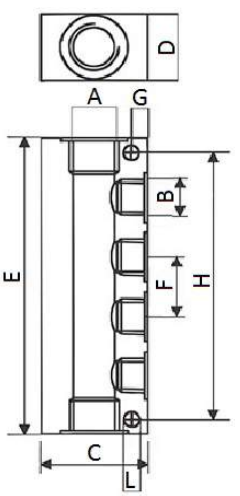


CODE	A	B	C	D	E	GR.
4100TR18	G1/8"	25,0	16,0	4,5	17,0	17,5
4100TR14	G1/4"	40,0	20,0	5,5	26,0	60,0
4100TR38	G3/8"	40,0	25,0	5,5	26,0	70,0
4100TR12	G1/2"	50,0	30,0	5,5	34,0	129,0

4150

Aluminum single distribution manifold





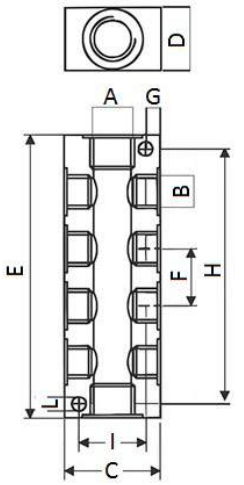
CODE	A	B	C	D	E	F	G	H	L	GR.
4150TR18M52	G1/8"	M5-2	25,0	16,0	45,0	15,0	3,5	33,0	4,5	38,0
4150TR18M53	G1/8"	M5-3	25,0	16,0	60,0	15,0	3,5	48,0	4,5	50,0
4150TR18M54	G1/8"	M5-4	25,0	16,0	75,0	15,0	3,5	63,0	4,5	64,0
4150TR18M55	G1/8"	M5-5	25,0	16,0	90,0	15,0	3,5	78,0	4,5	79,0
4150TR18M56	G1/8"	M5-6	25,0	16,0	105,0	15,0	3,5	93,0	4,5	90,0
4150TR14182	G1/4"	G1/8"-2	30,0	20,0	54,0	18,0	4,5	45,0	4,5	64,0
4150TR14183	G1/4"	G1/8"-3	30,0	20,0	72,0	18,0	4,5	63,0	4,5	86,0
4150TR14184	G1/4"	G1/8"-4	30,0	20,0	90,0	18,0	4,5	81,0	4,5	110,0
4150TR14185	G1/4"	G1/8"-5	30,0	20,0	108,0	18,0	4,5	99,0	4,5	130,0
4150TR14186	G1/4"	G1/8"-6	30,0	20,0	126,0	18,0	4,5	117,0	4,5	154,0

4150TR38142	G3/8"	G1/4"-2	40,0	25,0	68,0	24,0	4,5	51,0	5,5	136,0
4150TR38143	G3/8"	G1/4"-3	40,0	25,0	92,0	24,0	4,5	75,0	5,5	184,0
4150TR38144	G3/8"	G1/4"-4	40,0	25,0	116,0	24,0	4,5	99,0	5,5	238,0
4150TR38145	G3/8"	G1/4"-5	40,0	25,0	140,0	24,0	4,5	123,0	5,5	298,0
4150TR38146	G3/8"	G1/4"-6	40,0	25,0	164,0	24,0	4,5	147,0	5,5	338,0
4150TR12382	G1/2"	G3/8"-2	50,0	30,0	78,0	26,0	6,5	59,0	5,5	228,0
4150TR12383	G1/2"	G3/8"-3	50,0	30,0	104,0	26,0	6,5	85,0	5,5	304,0
4150TR12384	G1/2"	G3/8"-4	50,0	30,0	130,0	26,0	6,5	111,0	5,5	380,0
4150TR12385	G1/2"	G3/8"-5	50,0	30,0	156,0	26,0	6,5	137,0	5,5	456,0
4150TR12386	G1/2"	G3/8"-6	50,0	30,0	182,0	26,0	6,5	163,0	5,5	530,0
4150TR12122	G1/2"	G1/2"-2	50,0	30,0	102,0	34,0	6,5	83,0	5,5	292,0
4150TR12123	G1/2"	G1/2"-3	50,0	30,0	136,0	34,0	6,5	117,0	5,5	392,0
4150TR12124	G1/2"	G1/2"-4	50,0	30,0	170,0	34,0	6,5	151,0	5,5	488,0
4150TR12125	G1/2"	G1/2"-5	50,0	30,0	204,0	34,0	6,5	185,0	5,5	584,0
4150TR12126	G1/2"	G1/2"-6	50,0	30,0	238,0	34,0	6,5	219,0	5,5	682,0

4200

Aluminum double distribution manifold





CODE	A	B	C	D	E	F	G	H	L	I	GR.
4200TR18M522	G1/8"	M5-2+2	25,0	16,0	45,0	15,0	3,5	33,0	4,5	18,0	37,0
4200TR18M533	G1/8"	M5-3+3	25,0	16,0	60,0	15,0	3,5	48,0	4,5	18,0	50,0
4200TR18M544	G1/8"	M5-4+4	25,0	16,0	75,0	15,0	3,5	63,0	4,5	18,0	62,0
4200TR18M555	G1/8"	M5-5+5	25,0	16,0	90,0	15,0	3,5	78,0	4,5	18,0	74,0
4200TR18M566	G1/8"	M5-6+6	25,0	16,0	105,0	15,0	3,5	93,0	4,5	18,0	98,0
4200TR141822	G1/4"	G1/8"-2+2	30,0	20,0	54,0	18,0	4,5	45,0	4,5	21,0	60,0
4200TR141833	G1/4"	G1/8"-3+3	30,0	20,0	72,0	18,0	4,5	63,0	4,5	21,0	81,0
4200TR141844	G1/4"	G1/8"-4+4	30,0	20,0	90,0	18,0	4,5	81,0	4,5	21,0	100,0
4200TR141855	G1/4"	G1/8"-5+5	30,0	20,0	108,0	18,0	4,5	99,0	4,5	21,0	122,0
4200TR141866	G1/4"	G1/8"-6+6	30,0	20,0	126,0	18,0	4,5	117,0	4,5	21,0	142,0
4200TR381422	G3/8"	G1/4"-2+2	40,0	25,0	68,0	24,0	6	51,0	5,5	28,0	127,0
4200TR381433	G3/8"	G1/4"-3+3	40,0	25,0	92,0	24,0	6	75,0	5,5	28,0	170,0
4200TR381444	G3/8"	G1/4"-4+4	40,0	25,0	116,0	24,0	6	99,0	5,5	28,0	216,0
4200TR381455	G3/8"	G1/4"-5+5	40,0	25,0	140,0	24,0	6	123,0	5,5	28,0	266,0
4200TR381466	G3/8"	G1/4"-6+6	40,0	25,0	164,0	24,0	6	147,0	5,5	28,0	312,0
4200TR123822	G1/2"	G3/8"-2+2	50,0	30,0	78,0	26,0	6,5	59,0	5,5	37,0	210,0
4200TR123833	G1/2"	G3/8"-3+3	50,0	30,0	104,0	26,0	6,5	85,0	5,5	37,0	278,0
4200TR123844	G1/2"	G3/8"-4+4	50,0	30,0	130,0	26,0	6,5	111,0	5,5	37,0	344,0
4200TR123855	G1/2"	G3/8"-5+5	50,0	30,0	156,0	26,0	6,5	137,0	5,5	37,0	412,0
4200TR123866	G1/2"	G3/8"-6+6	50,0	30,0	182,0	26,0	6,5	163,0	5,5	37,0	478,0
4200TR121222	G1/2"	G1/2"-2+2	50,0	30,0	102,0	34,0	6,5	83,0	5,5	37,0	268,0
4200TR121233	G1/2"	G1/2"-3+3	50,0	30,0	136,0	34,0	6,5	117,0	5,5	37,0	348,0
4200TR121244	G1/2"	G1/2"-4+4	50,0	30,0	170,0	34,0	6,5	151,0	5,5	37,0	430,0
4200TR121255	G1/2"	G1/2"-5+5	50,0	30,0	204,0	34,0	6,5	185,0	5,5	37,0	512,0
4200TR121266	G1/2"	G1/2"-6+6	50,0	30,0	238,0	34,0	6,5	219,0	5,5	37,0	596,0

STANDARD FITTINGS
DISTRIBUTION MANIFOLDS INOX AISI 304

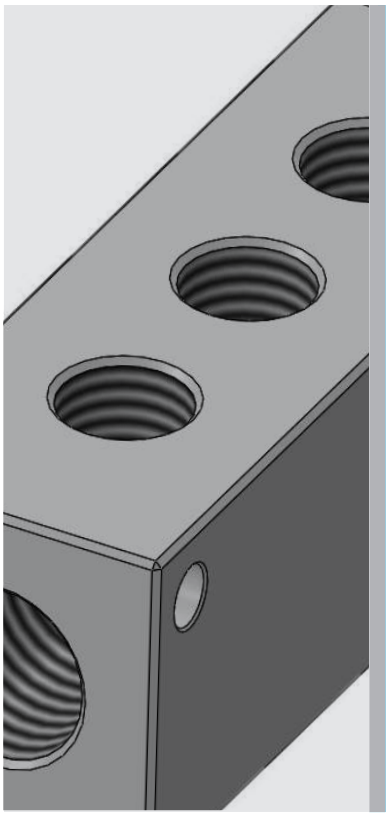
PLUS

HIGH TEMPERATURE

UP TO 25 BAR



p. 356 / **4150TRX**



Up to 100°C

Up to 25 Bar

Compressed air, water, oil and fluids suitable with construction materials

Inlet thread: parallel gas BSPP ISO 228 from G1-1/2" to G2"

Outlet thread: taper BSPT ISO 7 - R3/4"

Gauge thread: parallel gas BSPP ISO 228 – G1/2"

Stainless steel AISI 304

REACH

Products in compliance with the directive 2002/95/EC

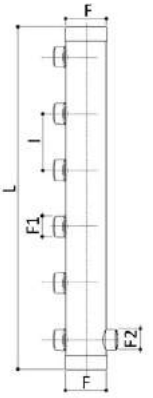
RoHS2

Products in compliance with the directive 2011/65/EU

4150TRX

Stainless steel Inox AISI 304 distribution manifold





CODE	T	F1	F2	I	L	N° HOLES
4150TRX112344	G1"1/2	R3/4"	G1/2"	70,0	291,0	4
4150TRX112345	G1"1/2	R3/4"	G1/2"	70,0	361,0	5
4150TRX112346	G1"1/2	R3/4"	G1/2"	70,0	431,0	6
4150TRX112347	G1"1/2	R3/4"	G1/2"	70,0	501,0	7
4150TRX112348	G1"1/2	R3/4"	G1/2"	70,0	571,0	8
4150TRX112349	G1"1/2	R3/4"	G1/2"	70,0	641,0	9
4150TRX1123410	G1"1/2	R3/4"	G1/2"	70,0	711,0	10
4150TRX1123411	G1"1/2	R3/4"	G1/2"	70,0	781,0	11
4150TRX1123412	G1"1/2	R3/4"	G1/2"	70,0	851,0	12
4150TRX1123413	G1"1/2	R3/4"	G1/2"	70,0	921,0	13
4150TRX1123414	G1"1/2	R3/4"	G1/2"	70,0	991,0	14
4150TRX2344	G2"	R3/4"	G1/2"	70,0	299,0	4
4150TRX2345	G2"	R3/4"	G1/2"	70,0	369,0	5
4150TRX2346	G2"	R3/4"	G1/2"	70,0	439,0	6
4150TRX2347	G2"	R3/4"	G1/2"	70,0	509,0	7
4150TRX2348	G2"	R3/4"	G1/2"	70,0	579,0	8
4150TRX2349	G2"	R3/4"	G1/2"	70,0	649,0	9
4150TRX23410	G2"	R3/4"	G1/2"	70,0	719,0	10
4150TRX23411	G2"	R3/4"	G1/2"	70,0	789,0	11
4150TRX23412	G2"	R3/4"	G1/2"	70,0	859,0	12
4150TRX23413	G2"	R3/4"	G1/2"	70,0	929,0	13
4150TRX23414	G2"	R3/4"	G1/2"	70,0	999,0	14

STANDARD FITTINGS SILENCERS

PLUS

SUITABLE BOTH FOR LOW AND HIGH TEMPEATURE ACCORDINGLY TO THE CONSTRUCTION MATERIAL

DIFFERENT KIND OF MATERIAL FOR EVERY KIND OF APPLICATION

COMPACTS



p. 359 / **6100**



p. 359 / **6150**



p. 360 / **6200**



p. 360 / **6250**



p. 360 / **6300**



p. 360 / **6350**



p. 361 / **6400**



p. 361 / **6450**



p. 361 / **6500**



p. 361 / **6550**



p. 362 / **6600**



p. 362 / **6650**



p. 362 / **6670**



p. 362 / **6700**



p. 363 / **6750**



p. 363 / **6780**



p. 363 / **6820**



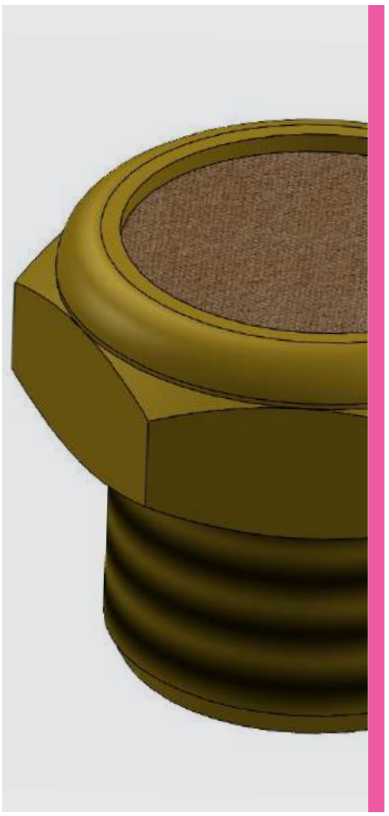
p. 363 / **6850**



p. 364 / **6880**



p. 364 / **6882**



-20°C ÷ +80°C
-20°C ÷ +300°C
for codes 6880 and 6882

10 Bar
6 Bar for code 6700,
6750 and 6780

Compressed air

Parallel gas BSPP ISO 228
from G1/8" to G1"
Metric ISO 262 - M5

- **6100, 6150, 6550 and 6600** sinterized spheric bronze powder on the coppered steel base
- **6200, 6250, 6300, 6350, 6400, 6650 and 6670** sinterized spheric bronze powder on the brass base
- **6450 and 6500** stainless steel wire on the brass base
- **6700 and 6750** plastic
- **6780** polyethylene
- **6820** stainless steel wire on nylon base
- **6850** stainless steel wire on stainless steel base
- **6880** stainless steel AISI 316L

REACH

Products in compliance with the directive 2002/95/EC

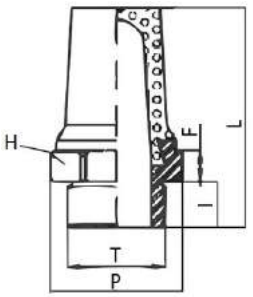
RoHS2

Products in compliance with the directive 2011/65/EU

6100

Cone-shaped silencer of sinterized spherical bronze with hex coppered steel base



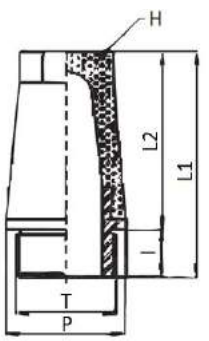


CODE	T	ØP	I	F	L	H	GR.
6100TRM5	M5	5,5	3,5	3,0	17,0	7	2,0
6100TR18	G1/8"	10,5	4,5	3,5	21,0	12	6,0
6100TR14	G1/4"	12,5	6,0	4	27,0	15	12,5
6100TR38	G3/8"	17,0	7,0	5,4	35,0	19	23,0
6100TR12	G1/2"	20,5	8,0	6,0	41,5	23	39,0
6100TR34	G3/4"	26,5	9,0	7,5	54,0	30	78,5
6100TR1	G1"	33,0	11,0	8,0	67,0	36	149,5

6150

Hexagonal head cone-shaped silencer of sinterized spherical bronze with circular coppered steel base



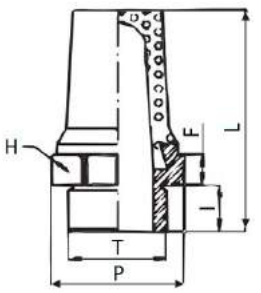


CODE	T	ØP	I	L1	L2	H	GR.
6150TR18	G1/8"	11,5	4,5	22,5	17,0	8	6,5
6150TR14	G1/4"	15,0	6,0	28,5	22,0	10	12,5
6150TR38	G3/8"	19,0	7,0	36,0	29,0	13	23,5
6150TR12	G1/2"	23,0	8,0	44,0	35,0	15	39,0
6150TR34	G3/4"	30,0	9,0	56,0	47,0	19	77,5
6150TR1	G1"	37,0	11,0	66,0	58,0	24	139,0

6200

Cone-shaped silencer of sinterized spherical bronze riveted on hexagonal brass base



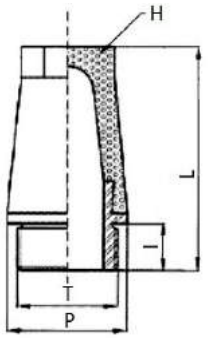


CODE	T	ØP	I	F	L	H	GR.
6200TRM5	M5	7,5	3,5	4,0	18,5	8	2,5
6200TR18	G1/8"	12,5	6,0	4,0	26,0	13	9,5
6200TR14	G1/4"	14,5	6,0	5,0	34,0	16	16,5
6200TR38	G3/8"	19,0	8,0	5,0	41,0	19	26,5
6200TR12	G1/2"	22,5	8,0	6,0	46,0	24	46,5
6200TR34	G3/4"	28,5	10,0	6,0	56,0	30	81,5
6200TR1	G1"	35,0	10,0	6,0	66,0	36	134,0

6250

Hexagonal head cone-shaped silencer of sinterized spherical bronze riveted on circular brass base



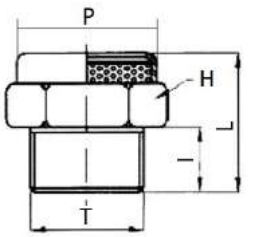


CODE	T	ØP	I	L	H	GR.
6250TR18	G1/8"	13,0	7,0	27,0	6,0	8,5
6250TR14	G1/4"	16,0	8,0	30,0	7,0	13
6250TR38	G3/8"	19,0	8,0	40,0	10,0	23
6250TR12	G1/2"	24,0	10,0	46,0	13,0	40
6250TR34	G3/4"	30,0	10,0	54,0	17,0	73,5
6250TR1	G1"	38,0	10,0	61,0	22,0	145

6300

Silencer of sinterized spherical bronze riveted on hexagonal brass pastille base



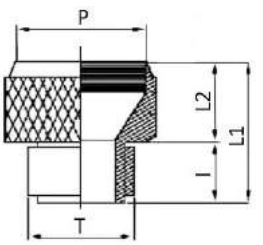


CODE	T	ØP	I	L	H	GR.
6300TRM5	M5	6,5	4,0	8,5	8	2,0
6300TR18	G1/8"	11,0	6,0	12,0	13	6,5
6300TR14	G1/4"	15,5	8,0	16,0	16	11,0
6300TR38	G3/8"	18,5	8,0	17,0	19	16,5
6300TR12	G1/2"	22,0	10,0	18,0	24	26,0
6300TR34	G3/4"	28,0	10,0	19,0	30	39,5
6300TR1	G1"	34,0	10,0	20,0	36	60,0

6350

Silencer of sinterized spherical bronze riveted on circular knurled brass pastille base



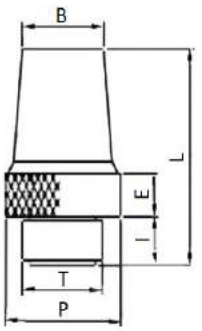


CODE	T	ØP	I	L1	L2	GR.
6350TR18	G1/8"	11,0	7,0	13,0	6,0	7,0
6350TR14	G1/4"	14,0	8,0	16,0	6,0	7,0
6350TR38	G3/8"	17,0	8,0	14,0	6,0	10,0
6350TR12	G1/2"	22,0	10,0	18,0	8,0	10,0
6350TR34	G3/4"	28,0	10,0	18,0	10,0	12,0
6350TR1	G1"	34,0	10,0	19,0	9,0	12,0

6400

Cone-shaped silencer of sinterized spherical bronze riveted on circular knurled brass base



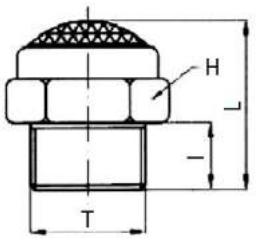


CODE	T	ØP	I	B	E	L	GR.
6400TR18	G1/8"	13,0	7,0	8,5	4,0	37,0	9
6400TR14	G1/4"	16,0	8,0	11,0	4,5	34,0	13,5
6400TR38	G3/8"	19,0	8,0	14,0	5,0	41,0	23
6400TR12	G1/2"	24,0	10,0	17,0	5,0	46,0	45
6400TR34	G3/4"	30,0	10,0	21,0	5,0	56,0	80
6400TR1	G1"	38,0	10,0	26,5	6,0	66,0	133,5

6450

Stainless steel wire silencers on hexagonal brass base



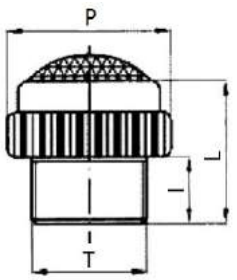


CODE	T	I	L	H	GR.
6450TRM5	M5	4,0	8,5	8,0	1,5
6450TR18	G1/8"	6,0	15,0	13,0	6,0
6450TR14	G1/4"	7,0	19,0	16,0	10,5
6450TR38	G3/8"	8,0	20,0	19,0	16,5
6450TR12	G1/2"	10,0	22,0	24,0	24,5
6450TR34	G3/4"	10,0	24,0	30,0	37,0
6450TR1	G1"	12,0	28,0	36,0	56,5

6500

Silencer of stainless steel wire riveted on circular knurled brass base



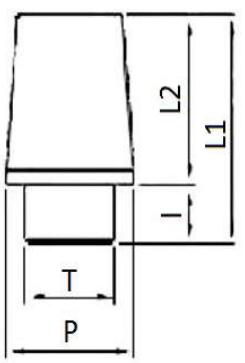


CODE	T	ØP	I	L	GR.
6500TR18	G1/8"	13,0	7,0	14,0	5
6500TR14	G1/4"	16,0	8,0	18,0	8,5
6500TR38	G3/8"	19,0	8,0	20,0	13,5
6500TR12	G1/2"	24,0	10,0	22,0	23,5
6500TR34	G3/4"	30,0	10,0	24,0	30,5
6500TR1	G1"	38,0	10,5	27,0	57,5

6550

Cone e-shaped silencer of sinterized spherical bronze with circular coppered steel base



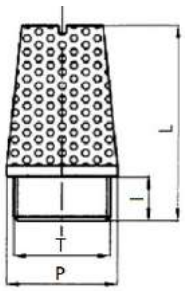


CODE	T	P	I	L1	L2	GR.
6550TR18	G1/8"	11,5	4,5	21,0	16,5	6,0
6550TR14	G1/4"	15,0	6,0	25,0	19,0	11,5
6550TR38	G3/8"	19,0	7,0	34,5	27,5	24,0
6550TR12	G1/2"	23,0	8,0	43,0	35,0	44,5
6550TR34	G3/4"	30,0	9,0	50,0	41,0	73,0
6550TR1	G1"	37,0	11,0	60,5	49,5	137,5

6600

Cone e-shaped silencer of sinterized spherical bronze with circular brass coppered and screwdriver



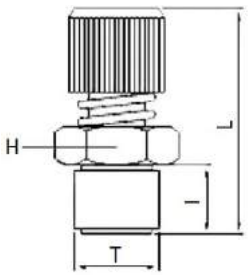


CODE	T	P	I	L	GR.
6600TR18	G1/8"	11,5	4,5	22,0	6,0
6600TR14	G1/4"	15,0	6,0	26,0	13,0
6600TR38	G3/8"	19,0	7,0	34,5	24,5
6600TR12	G1/2"	23,0	8,0	43,0	42,0
6600TR34	G3/4"	30,0	9,0	50,0	75,0
6600TR1	G1"	37,0	11,0	60,5	136,0

6650

Silencer of sinterized bronze pastille with flow control



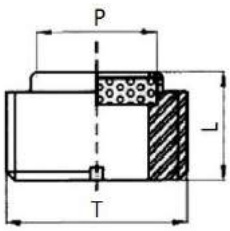


CODE	T	L MIN	L MAX	I	H	GR.
6650TR18	G1/8"	26,0	28,0	6,0	13	16,0
6650TR14	G1/4"	30,0	32,0	8,0	15	23,0
6650TR38	G3/8"	35,0	38,0	10,0	22	48,0
6650TR12	G1/2"	37,0	40,0	11,0	22	59,0

6670

Cone-shaped silencer of sinterized spherical pastille with screwdriver



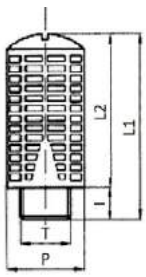


CODE	T	ØP	L	GR.
6670TR18	G1/8"	6,0	5,0	1,37
6670TR14	G1/4"	8,0	6,0	2,91
6670TR38	G3/8"	10,0	7,0	6,33
6670TR12	G1/2"	15,0	8,0	11,69
6670TR34	G3/4"	20,0	9,0	14,56
6670TR1	G1"	26,0	10,0	28,26

6700

Plastic dinamic silencer with balls



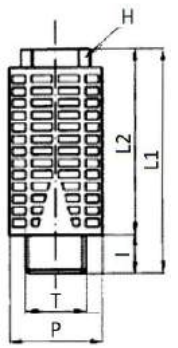


CODE	T	P	I	L1	L2	GR.
6700TR18	G1/8"	15	6	32,5	26,5	4,0
6700TR14	G1/4"	19,5	8	43	35	8,0
6700TR38	G3/8"	24,5	11	58	47	18,0
6700TR12	G1/2"	24,5	11	58	47	19,0
6700TR34	G3/4"	48	18	115	97	115,0
6700TR1	G1"	48	18	115	97	115,0

6750

Plastic dinamic silencer with balls



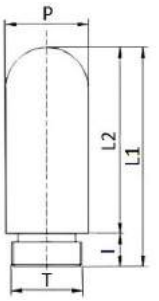


CODE	T	P	I	L1	L2	H	GR.
6750TR18	G1/8"	16	6	34	28	10	4,0
6750TR14	G1/4"	19	8	44	36	12	7,0
6750TR38	G3/8"	24	10	56	47	16	14,0
6750TR12	G1/2"	24	10	56	47	16	15,0

6780

Noise silencer in polyethylene



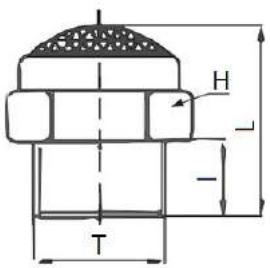


CODE	T	ØP	I	L1	L2	GR.
6780TRM5	M5	7,0	4,0	24,5	20,5	2,8
6780TR18	G1/8"	13,0	7,5	32,5	25,0	3,7
6780TR14	G1/4"	17,0	8,0	39,0	31,0	10,0
6780TR38	G3/8"	25,0	11,0	65,0	54,0	13,5
6780TR12	G1/2"	25,0	11,0	69,0	58,0	37,0
6780TR34	G3/4"	37,0	15,5	138,0	122,5	47,0
6780TR1	G1"	47,0	19,5	157,0	137,5	90,0

6820

Inox wire silencer on nylon base



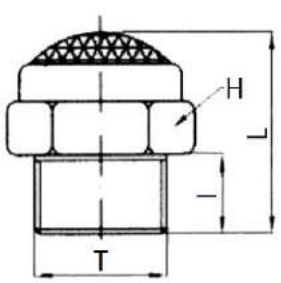


CODE	T	I	L	H	GR.
6820TR18	G1/8"	6	15	13	1,5
6820TR14	G1/4"	7	18	16	2,8
6820TR38	G3/8"	8	20	19	4,5
6820TR12	G1/2"	10	22	24	7,5

6850

Inox wire silencer



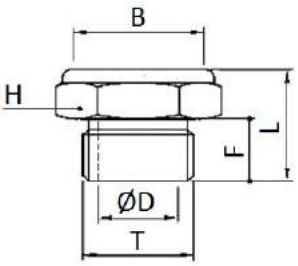


CODE	T	I	L	H	GR.
6850TR18	G1/8"	6	15	13	5,0
6850TR14	G1/4"	7	18	16	1,0
6850TR38	G3/8"	8	20	19	1,5
6850TR12	G1/2"	10	22	24	2,5
6850TR34	G3/4"	10	26	30	4,0
6850TR1	G1"	12	28	36	9,5

6880

Inox AISI 316L wire silencer on inox AISI 316L base



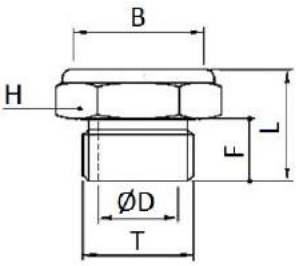


CODE	T	ØD	B	F	L	H	GR.
6880TR18	G1/8"	6,0	10,0	8,0	15,0	14,0	8,0
6880TR14	G1/4"	8,0	12,5	8,0	15,0	17,0	12,0
6880TR38	G3/8"	12,0	17,5	10,0	18,0	22,0	20,0
6880TR12	G1/2"	15,0	21,5	12,0	22,0	27,0	38,0
6880TR34	G3/4"	20,0	28,0	15,0	27,0	32,0	62,0
6880TR1	G1"	26,0	34,0	18,0	32,0	41,0	118,0

6882

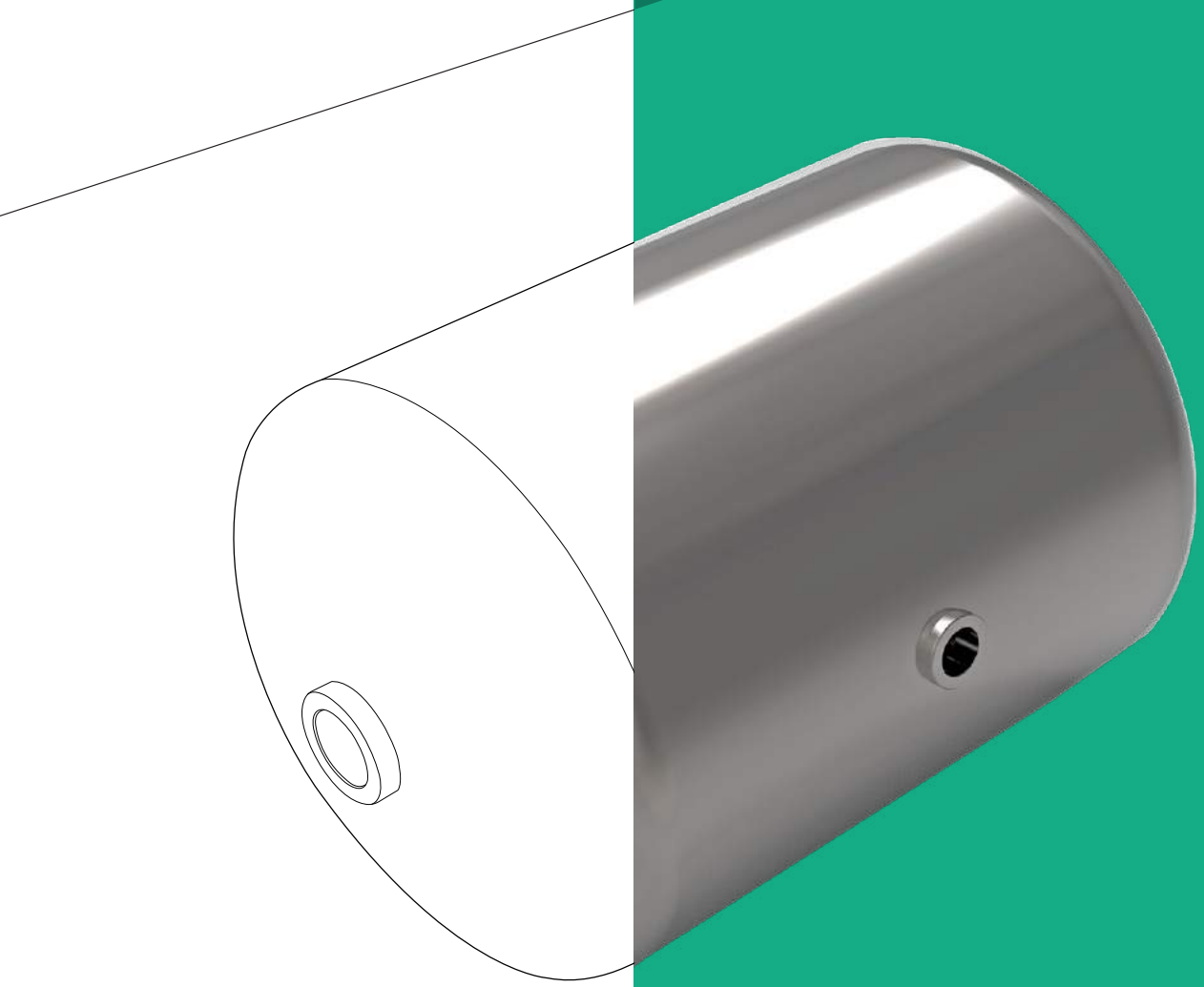
Inox AISI 316L wire silencer on inox AISI 316L base NPT thread





CODE	T	ØD	B	F	L	H	GR.
6882TR18	N1/8"	6,0	10,0	8,0	15,0	14,0	8,0
6882TR14	N1/4"	8,0	12,5	8,0	15,0	17,0	12,0
6882TR38	N3/8"	12,0	17,5	10,0	18,0	22,0	20,0
6882TR12	N1/2"	15,0	21,5	12,0	22,0	27,0	38,0
6882TR34	N3/4"	20,0	28,0	15,0	27,0	32,0	62,0
6882TR1	N1"	26,0	34,0	18,0	32,0	41,0	118,0

ACCESSORIES



TECHNICAL INDEX



P. 367 /
PRESSURE GAUGES



P. 377 /
TANKS



P. 381 /
SEALING FOR THREADED ELEMENTS

ACCESSORIES
PRESSURE GAUGES

PLUS

DIFFERENT KIND OF MATERIALS FOR
EVERY KIND OF APPLICATIONS



p. 369 / **MABR**



p. 370 / **MABP**



p. 372 / **MXBR**



p. 373 / **MXBP**



p. 374 / **MXBF**



p. 374 / **MXBS**



p. 375 / **MXXR**



p. 376 / **MXXP**



-20°C ÷ +60°C

Max 3/4 of the value of full scale for static pressure.
Max 2/3 of the value of full scale for know pressure.
100% of the value scale for short time

PROTECTION DEGREE
IP 32 (EN 60 529)

Air, gas and liquid suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R1/4"

Case: ABS
Spring: Copper alloy
Hub: Brass

APPLICATIONS
For gas and liquid media which are not highly viscous, do not crystallize and are not aggressive to copper alloys. For measuring the subject to vibration and high pressure. For measuring gas or vapour these instruments must be used in accordante with the safety recommendations of EN837-2.

REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

MABR

Impact resistant un filled pressure gauge for the industry with ABS case, spring & hub in brass, bottom connection, BSPT thread according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MABR40R0120	R1/8"	40	-1-0	
MABR40R0132	R1/8"	40	0-1	
MABR40R0133	R1/8"	40	0-1,6	
MABR40R0134	R1/8"	40	0-2,5	
MABR40R0135	R1/8"	40	0-4	
MABR40R0136	R1/8"	40	0-6	
MABR40R0137	R1/8"	40	0-10	
MABR40R0138	R1/8"	40	0-12	
MABR40R0139	R1/8"	40	0-16	
MABR40R0140	R1/8"	40	0-25	
MABR50R0234	R1/4"	50	0-2,5	CLASS 2,5
MABR50R0235	R1/4"	50	0-4	
MABR50R0236	R1/4"	50	0-6	
MABR50R0238	R1/4"	50	0-12	
MABR50R0239	R1/4"	50	0-16	
MABR50R0240	R1/4"	50	0-25	
MABR63R0220	R1/4"	63	-1-0	
MABR63R0232	R1/4"	63	0-1,0	
MABR63R0233	R1/4"	63	0-1,6	
MABR63R0234	R1/4"	63	0-2,5	
MABR63R0235	R1/4"	63	0-4	
MABR63R0236	R1/4"	63	0-6	
MABR63R0237	R1/4"	63	0-10	
MABR63R0238	R1/4"	63	0-12	CLASS 2,5
MABR63R0239	R1/4"	63	0-16	
MABR63R0240	R1/4"	63	0-25	

MAPB

Impact resistant unfilled pressure gauge for the industry with ABS case, spring & hub in brass, back connection, BSPT thread according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MABP40R0120	R1/8"	40	-1-0	
MABP40R0132	R1/8"	40	0-1,0	
MABP40R0133	R1/8"	40	0-1,6	
MABP40R0134	R1/8"	40	0-2,5	
MABP40R0135	R1/8"	40	0-4	
MABP40R0136	R1/8"	40	0-6	
MABP40R0137	R1/8"	40	0-10	
MABP40R0138	R1/8"	40	0-12	
MABP40R0139	R1/8"	40	0-16	
MABP40R0140	R1/8"	40	0-25	
MABP40R0143	R1/8"	40	0-100	
MABP50R0120	R1/8"	50	-1-0	
MABP50R0132	R1/8"	50	0-1,0	
MABP50R0133	R1/8"	50	0-1,6	
MABP50R0134	R1/8"	50	0-2,5	
MABP50R0135	R1/8"	50	0-4	
MABP50R0136	R1/8"	50	0-6	
MABP50R0138	R1/8"	50	0-12	
MABP50R0139	R1/8"	50	0-16	CLASS 2,5
MABP50R0140	R1/8"	50	0-25	
MABP50R0234	R1/4"	50	0-2,5	
MABP50R0235	R1/4"	50	0-4	
MABP50R0236	R1/4"	50	0-6	
MABP50R0238	R1/4"	50	0-12	
MABP50R0239	R1/4"	50	0-16	
MABP50R0240	R1/4"	50	0-25	
MABP63R0220	R1/4"	63	-1-0	
MABP63R0232	R1/4"	63	0-1,0	
MABP63R0233	R1/4"	63	0-1,6	
MABP63R0234	R1/4"	63	0-2,5	
MABP63R0235	R1/4"	63	0-4	
MABP63R0236	R1/4"	63	0-6	
MABP63R0237	R1/4"	63	0-10	
MABP63R0238	R1/4"	63	0-12	
MABP63R0239	R1/4"	63	0-16	
MABP63R0240	R1/4"	63	0-25	
MABP63R0245	R1/4"	63	0-250	



-20°C ÷ +60°C

Max 3/4 of the value of full scale for static pressure.
Max 2/3 of the value of full scale for know pressure
100% of the value scale for short time

PROTECTION DEGREE

IP 65 (EN 60 529)
IP 54 (25 Bar) plug allows air release from the case

Air, gas and liquid suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G1/4"

Case: Stainless steel AISI 304
Spring: Copper alloy
Hub: Brass
Filling liquid: glycerine: 99,5%

APPLICATIONS

For gas and liquid media which are not highly viscous, do not crystallize and are not aggressive to copper alloys. For measuring the subject to vibration and high pressure. For measuring gas or vapour these instruments must be used in accordante with the safety recommendations of EN837-2 .

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

MXBR



Filled pressure gauge with Inox AISI 304 case, spring & hub in brass, bottom connection, BSPP thread, according to directive EN 837-1 / 7,3

CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXBR40G0135	G1/8"	40	0-4	
MXBR40G0136	G1/8"	40	0-6	
MXBR40G0137	G1/8"	40	0-10	
MXBR40G0139	G1/8"	40	0-16	
MXBR40G0140	G1/8"	40	0-25	
MXBR40G0142	G1/8"	40	0-60	
MXBR40G0143	G1/8"	40	0-100	
MXBR40G0144	G1/8"	40	0-160	
MXBR40G0145	G1/8"	40	0-250	
MXBR40G0147	G1/8"	40	0-400	
MXBR50G0234	G1/4"	50	0-2,5	CLASSE 2,5
MXBR50G0235	G1/4"	50	0-4	
MXBR50G0236	G1/4"	50	0-6	
MXBR50G0237	G1/4"	50	0-10	
MXBR50G0239	G1/4"	50	0-16	
MXBR50G0240	G1/4"	50	0-25	
MXBR50G0241	G1/4"	50	0-40	
MXBR50G0242	G1/4"	50	0-60	
MXBR50G0243	G1/4"	50	0-100	
MXBR50G0244	G1/4"	50	0-160	
MXBR50G0245	G1/4"	50	0-250	
MXBR50G0247	G1/4"	50	0-400	
MXBR63G0220	G1/4"	63	-1-0	
MXBR63G0232	G1/4"	63	0-1,0	
MXBR63G0233	G1/4"	63	0-1,6	
MXBR63G0234	G1/4"	63	0-2,5	
MXBR63G0235	G1/4"	63	0-4	
MXBR63G0236	G1/4"	63	0-6	
MXBR63G0237	G1/4"	63	0-10	
MXBR63G0239	G1/4"	63	0-16	
MXBR63G0240	G1/4"	63	0-25	CLASSE 1,6
MXBR63G0241	G1/4"	63	0-40	
MXBR63G0242	G1/4"	63	0-60	
MXBR63G0243	G1/4"	63	0-100	
MXBR63G0244	G1/4"	63	0-160	
MXBR63G0245	G1/4"	63	0-250	
MXBR63G0246	G1/4"	63	0-315	
MXBR63G0247	G1/4"	63	0-400	
MXBR63G0248	G1/4"	63	0-600	

MXBP

Filled pressure gauge with Inox AISI 304 case, spring in copper alloy & hub in brass, back connection, BSPP thread, according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXBP40G0135	G1/8"	40	0-4	
MXBP40G0136	G1/8"	40	0-6	
MXBP40G0137	G1/8"	40	0-10	
MXBP40G0139	G1/8"	40	0-16	
MXBP40G0140	G1/8"	40	0-25	
MXBP40G0142	G1/8"	40	0-60	
MXBP40G0143	G1/8"	40	0-100	
MXBP40G0144	G1/8"	40	0-160	
MXBP40G0145	G1/8"	40	0-250	
MXBP40G0147	G1/8"	40	0-400	
MXBP50G0234	G1/4"	50	0-2,5	CLASS 2,5
MXBP50G0235	G1/4"	50	0-4	
MXBP50G0236	G1/4"	50	0-6	
MXBP50G0237	G1/4"	50	0-10	
MXBP50G0239	G1/4"	50	0-16	
MXBP50G0240	G1/4"	50	0-25	
MXBP50G0241	G1/4"	50	0-40	
MXBP50G0242	G1/4"	50	0-60	
MXBP50G0243	G1/4"	50	0-100	
MXBP50G0244	G1/4"	50	0-160	
MXBP50G0245	G1/4"	50	0-250	
MXBP63G0220	G1/4"	63	-1-0	
MXBP63G0232	G1/4"	63	0-1,0	
MXBP63G0233	G1/4"	63	0-1,6	
MXBP63G0234	G1/4"	63	0-2,5	
MXBP63G0235	G1/4"	63	0-4	
MXBP63G0236	G1/4"	63	0-6	
MXBP63G0237	G1/4"	63	0-10	
MXBP63G0239	G1/4"	63	0-16	
MXBP63G0240	G1/4"	63	0-25	CLASS 1,6
MXBP63G0241	G1/4"	63	0-40	
MXBP63G0242	G1/4"	63	0-60	
MXBP63G0243	G1/4"	63	0-100	
MXBP63G0244	G1/4"	63	0-160	
MXBP63G0245	G1/4"	63	0-250	
MXBP63G0246	G1/4"	63	0-315	
MXBP63G0247	G1/4"	63	0-400	
MXBP63G0248	G1/4"	63	0-600	

MXBF

Filled pressure gauge with 3 holes flange and Inox AISI 304 case, spring in copper alloy & hub in brass, BSPP thread, according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXBF63G0220	G1/4"	63	-1-0	CLASS 1,6
MXBF63G0232	G1/4"	63	0-1,0	
MXBF63G0233	G1/4"	63	0-1,6	
MXBF63G0234	G1/4"	63	0-2,5	
MXBF63G0235	G1/4"	63	0-4	
MXBF63G0236	G1/4"	63	0-6	
MXBF63G0237	G1/4"	63	0-10	
MXBF63G0239	G1/4"	63	0-16	
MXBF63G0240	G1/4"	63	0-25	
MXBF63G0241	G1/4"	63	0-40	
MXBF63G0242	G1/4"	63	0-60	
MXBF63G0243	G1/4"	63	0-100	
MXBF63G0244	G1/4"	63	0-160	
MXBF63G0245	G1/4"	63	0-250	
MXBF63G0246	G1/4"	63	0-315	
MXBF63G0247	G1/4"	63	0-400	
MXBF63G0248	G1/4"	63	0-600	
MXBF63G0250	G1/4"	63	0-1000	

MXBS

Filled pressure gauge with back clamp and Inox AISI 304 case, spring in copper alloy & hub in brass, BSPP thread, according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXBS63G0220	G1/4"	63	-1-0	CLASS 1,6
MXBS63G0232	G1/4"	63	0-1,0	
MXBS63G0233	G1/4"	63	0-1,6	
MXBS63G0234	G1/4"	63	0-2,5	
MXBS63G0235	G1/4"	63	0-4	
MXBS63G0236	G1/4"	63	0-6	
MXBS63G0237	G1/4"	63	0-10	
MXBS63G0239	G1/4"	63	0-16	
MXBS63G0240	G1/4"	63	0-25	
MXBS63G0241	G1/4"	63	0-40	
MXBS63G0242	G1/4"	63	0-60	
MXBS63G0243	G1/4"	63	0-100	
MXBS63G0244	G1/4"	63	0-160	
MXBS63G0245	G1/4"	63	0-250	
MXBS63G0246	G1/4"	63	0-315	
MXBS63G0247	G1/4"	63	0-400	
MXBS63G0248	G1/4"	63	0-600	
MXBS63G0250	G1/4"	63	0-1000	



Room Temperature
Max 150°C

Working Temperature
-20°C ÷ +150°C

Max 3/4 of the value of full scale for static pressure.
Max 2/3 of the value of full scale for know pressure
100% of the value scale for short time

PROTECTION DEGREE

IP 65 (EN 60 529)
IP 54 (25 Bar) plug allows air release from the case

Air, gas and liquid suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

Case: Stainless steel AISI 304
Spring & Hub: Stainless steel AISI 316

APPLICATIONS

For gas and liquid media which are not highly viscous, do not crystallize and are not aggressive to copper alloys. For measuring the subject to vibration and high pressure. For measuring gas or vapour these instruments must be used in accordante with the safety recommendations of EN 837-1 / 7,3.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

MXXR Stainless steel unfilled pressure gauge for the chemistry with Inox AISI 304 case, spring & hub Inox AISI 316, bottom connection, BSPP thread, according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXXR63G0220	G1/4"	63	-1-0	CLASSE 1,6
MXXR63G0232	G1/4"	63	0-1,0	
MXXR63G0233	G1/4"	63	0-1,6	
MXXR63G0234	G1/4"	63	0-2,5	
MXXR63G0235	G1/4"	63	0-4	
MXXR63G0236	G1/4"	63	0-6	
MXXR63G0237	G1/4"	63	0-10	
MXXR63G0239	G1/4"	63	0-16	
MXXR63G0240	G1/4"	63	0-25	
MXXR63G0241	G1/4"	63	0-40	
MXXR63G0242	G1/4"	63	0-60	
MXXR63G0243	G1/4"	63	0-100	
MXXR63G0244	G1/4"	63	0-160	
MXXR63G0245	G1/4"	63	0-250	
MXXR100G0220	G1/2"	100	-1-0	CLASSE 1,0
MXXR100G0432	G1/2"	100	0-1,0	
MXXR100G0433	G1/2"	100	0-1,6	
MXXR100G0434	G1/2"	100	0-2,5	
MXXR100G0435	G1/2"	100	0-4	
MXXR100G0436	G1/2"	100	0-6	
MXXR100G0437	G1/2"	100	0-10	
MXXR100G0439	G1/2"	100	0-16	
MXXR100G0440	G1/2"	100	0-25	
MXXR100G0441	G1/2"	100	0-40	
MXXR100G0442	G1/2"	100	0-60	
MXXR100G0443	G1/2"	100	0-100	

MXXP Stainless steel unfilled pressure gauge for the chemistry with Inox AISI 304 case, spring & hub in Inox AISI 316, back connection, BSPP thread, according to directive EN 837-1 / 7,3



CODE	CONNECTION THREAD	Ø CASE	SCALE	PRECISION
MXXP63G0220	G1/4"	63	-1-0	CLASSE 1,6
MXXP63G0232	G1/4"	63	0-1,0	
MXXP63G0233	G1/4"	63	0-1,6	
MXXP63G0234	G1/4"	63	0-2,5	
MXXP63G0235	G1/4"	63	0-4	
MXXP63G0236	G1/4"	63	0-6	
MXXP63G0237	G1/4"	63	0-10	
MXXP63G0239	G1/4"	63	0-16	
MXXP63G0240	G1/4"	63	0-25	
MXXP63G0241	G1/4"	63	0-40	
MXXP63G0242	G1/4"	63	0-60	
MXXP63G0243	G1/4"	63	0-100	
MXXP63G0244	G1/4"	63	0-160	
MXXP63G0245	G1/4"	63	0-250	

ACCESSORIES
TANKS

PLUS

AVAILABLE ON DEMAND IN STAINLESS STEEL AISI 316

AVAILABLE ON DEMAND ON CUSTOMER'S DRAWING



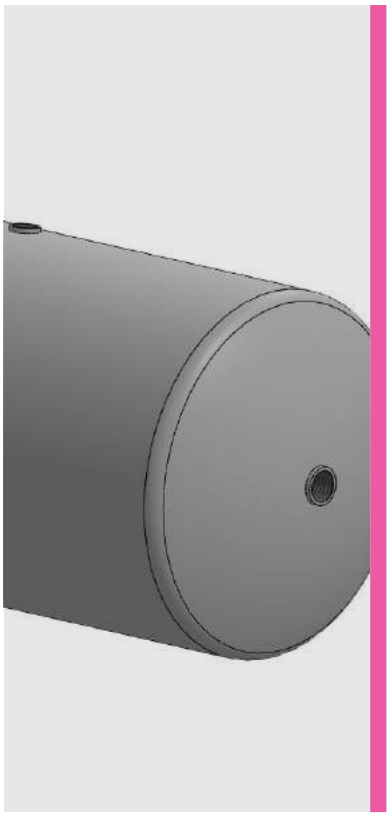
p. 380 / **SB304TR**



p. 380 / **SB304TR-STL**



p. 380 / **SB304TR-STC**



-40°C ÷ +100°C

Up to 10 Bar

Compressed air

Parallel gas BSPP
ISO 228 G1/2" and G1"

Stainless steel AISI 304
with pickling treatment

Available on demand in stainless steel AISI 316,
with electropolishing, de-greased.

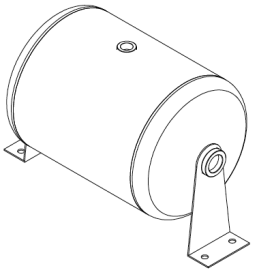
REACH

Products in compliance with
the directive 2002/95/EC

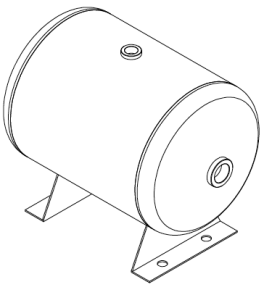
RoHS2

Products in compliance with
the directive 2011/65/EU

TANK STL: Bracked provided separately



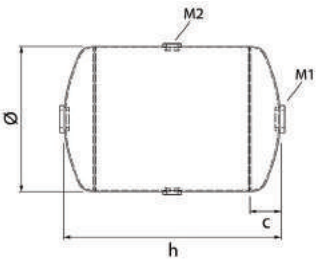
TANK STC: Bracket already mounted



SB304TR

Stainless steel AISI 304 tank





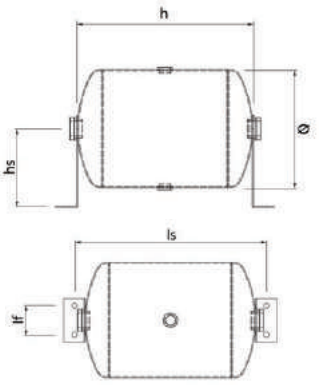
CODE	Ø	H	VOLUME	C	M1*	M2	KG
SB304TR130175-DP	130	175	2	87,5	2X1/2"	1X1/4"	1,00
SB304TR150350-DP	150	350	5,5	45	2X1/2"	2X1/4"	2,20
SB304TR170560-DP	170	560	12	50	2X1/2"	2X1/4"	3,80
SB304TR220540-DP	220	540	19	60	2X1/2"	2X1/4"	4,85

**a welded sleeve in the middle of the cap*

SB304TR-STL

Stainless steel AISI 304 with L-brackets tank





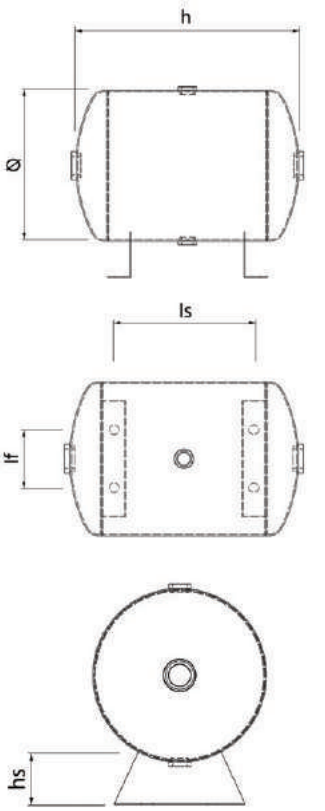
CODE	Ø	H	VOLUME	IF*	IS
SB304TR130175-STL-DP	130	175	2	40	2X15MM
SB304TR150350-STL-DP	150	350	5,5	40	2X15MM
SB304TR170560-STL-DP	170	560	12	40	2X15MM
SB304TR220540-STL-DP	220	540	19	40	2X15MM

**the brackets are supplied with two fittings (conical reducers M1/4 - F1/4). Bracket to be mounted.*

SB304TR-STC

Stainless steel AISI 304 tank with cradle brackets





CODE	Ø	H	VOLUME	IF*	IS	HS	KG
SB304TR130175-STC-DP	130	175	2	60	60	35	1,00
SB304TR150350-STC-DP	150	350	5,5	60	80	35	2,20
SB304TR170560-STC-DP	170	560	12	60	220	40	3,80
SB304TR220540-STC-DP	220	540	19	80	225	45	4,85

**all the holes have a ring.*

ACCESSORIES
SEALING FOR THREADED ELEMENTS



p. 383 / **LOX1810**



p. 384 / **LOX5811**



p. 385 / **LOX5314**



p. 386 / **LOX5503**



p. 387 / **LOX5920**



p. 388 / **IS43S**



p. 388 / **LOC5331**



p. 388 / **R-PTFE**



p. 389 / **R-PTFE-PROF**



p. 389 / **2605**



p. 389 / **2610**



p. 389 / **2612**



p. 390 / **2615**



p. 390 / **2620**

PTFE PIPE SEALANT GAS AND POTABLE WATER APPROVED



-55°C ÷ +150°C

HANDLING TIME
20 – 40 minutes

FUNCTIONAL CURING TIME
1 – 3 hours

MAX GAP FILLING
2" – 0,30 mm

LOCKING TORQUE M10 (N.M)
7 – 10

APPROVED FOR NATURAL GAS AND LPG IN VAPOUR STATE

Europe: according to norm EN751-1 approved by DIN-DVGW n° NG 514AR0574 from -20°C to +150°C up to 2" pipe.
Australia: approved AGA n.5047 up to 10 Bar and 2" pipe.
Germany: by DVGW according to TZW regulation for hot and cold water (85°C)

FEATURES

Anaerobic adhesive for sealing of metal thread pipe joints. Approved for natural gas, LPG, compressed air, oil and fuels, industrialfluids, CFC, potable water and other chemicals. Low fiction coefficient assures easy assembly, thixotropic property prevents migration from thread of the sealant before or during curing. It replaces P.T.F.E. tape and yarn. It gives instant sealing against moderate pressure and gives elastic cured film. Shock and vibrations resistances are unaffected properties of sealing in the range of temperature from -55°C to +150°C

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

APPROVED FOR POTABLE WATER

England: by WRAS according to BS6920:2000 regulation for hot and cold water (85°C)

LOX1810

Low strength PTFE anaerobic adhes ive for sealing of metal thread pipe joints



CODE	CONTAINER
LOX1810	75 ML

SEMIPERMANENT PIPE SEALANT APPROVED GAS, GPL GAS, OXYGEN AND POTABLE WATER



-55°C ÷ +150°C

HANDLING TIME
15 - 30 minutes

FUNCTIONAL CURING TIME
1 – 2 hours

MAX GAP FILLING
2" – 0,30 mm

LOCKING TORQUE M10 (N.M)
18 – 22

FEATURES
Anaerobic adhesive for sealing of metal thread pipe joints. Approved for natural gas, LPG, compressed air, oil and fuels, industrial fluids, CFC, potable water & other chemicals. Low friction coefficient assures easy assembly, thixotropic property prevents migration from thread of the sealant before or during curing. It replaces P.T.F.E tape and yarn. It gives instant sealing against moderate pressure and gives elastic cured film. Shocks and vibrations resistances are unaffected properties of sealing in the range of temperature from -55°C to +150°C.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

APPROVED FOR POTABLE WATER
England: by WRAS according to BS6920: 2000 regulation for cold water. Leave to harden the parts for 24 hours before the use with potable water.

APPROVED FOR PURE OXYGEN
Germany: by BAM up to 10 bar and 60°C (1432/95 4-755)

LOX5811

Medium strength anaerobic curing adhesive for sealing of thread metallic joints up to 2"



CODE	DESCRIPTION	CONTAINER
LOX5811	Suitable for gas, oxygen & potable water.	75 ML

THREADSEALANT FOR PNEUMATICS AND HYDRAULICS GAS APPROVED



-55°C ÷ +150°C

HANDLING TIME
10 – 20 minutes

FUNCTIONAL CURING TIME
1 – 3 hours

MAX GAP FILLING
3/4" – 0,15 mm

LOCKING TORQUE M10 (N.M)
12– 16

FEATURES
Medium strength anaerobic adhesive for metals and for sealing hydraulic and pneumatics threads connectors up to 3/4".
To replace P.T.F.E. tapes in the sealing of gases, water, GPL, hydrocarbons, oils and other chemicals.
Easy to dismantle with standard tools. Highly resistant to heat, corrosion, shocks and vibrations.
DIN-DVGW approved cert. n° NG-5146AU0038.A. for gas.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

LOX5314

Medium strength anaerobic liquid adhesive.



CODE	DESCRIPTION	CONTAINER
LOX5314	Suitable for sealing hydraulic and pneumatics threads connectors up to 3/4"	50 ML

OIL TOLERANT NUTS AND BOLTS LOCKING THREADSEALANT GAS AND POTABLE

Water approved



-55°C ÷ +200°C

HANDLING TIME
10 - 20 minutes

FUNCTIONAL CURING TIME
1 – 3 hours

MAX GAP FILLING
M36 – 0,25 mm

LOCKING TORQUE M10 (N.M)
17 – 22

FEATURES
Medium strength anaerobic adhesive for thread locking of nuts and bolts of all types that require to be dismantled.
Suitable to be used on metal oily surfaces.
Highly resistant to heat, corrosion, vibrations, water, gas, oils, hydrocarbons and other chemicals.
Approved for gas (DVGW nr. NG-5146AU0399) European norm EN 751-1 and GAZ DE FRANCE.
Approved for potable water TZW - DVGW.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

LOX5503

Medium strength anaerobic adhesive for thread locking of nuts and bolts.



CODE	DESCRIPTION	CONTAINER
LOX5503	Suitable to be used on metal oily surfaces	50 ML

SILICONE SEALANT



-55°C ÷ +180°C

FUNCTIONAL CURING TIME
3 - 6 hours

MAXIMUM THICKNESS
0,60 – 3 mm

TENSILE STRENGTH (N/MM2)
1,8 - 3

FEATURES
One component moisture silicone based sealant and adhesive releasing non corrosive and odourless by-products. Provides an extremely flexible gasket between surfaces made of various materials (metals, pastics, glass, ceramics, ecc.). Suitable for sealing gear boxes, pumps and motors flanges, oil and water containers, and air forced pipes. Resistant to vibrations, thermal shocks, pressurized air, water, gas, LPG, oil and several chemicals. Keeps its sealing properties within temperatures of -55°C and +180°C. Sealed parts can be disassembled using normal tools.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

LOX5920

Highly oil resistant, transparent, silicone sealant



CODE	CONTAINER
LOX5920	310 ML

SURFACE INSENSITIVE GRADE FOR POROUS AND ACIDIC SURFACES INSTANT ADHESIVE



-55°C ÷ +120°C

SPEED OF BONDING
2" - 5"

FEATURES
Istant cyanoacrylate adhesive with ethyl grade. Universal type insensitive grade for porous and acidic surfaces.
Suitable for speed bonding of leather, wood and metals.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

IS43S

Universal fast setting cyanoacrylate adhesive



CODE	DESCRIPTION	CONTAINER
IS43S	Suitable for plastic rubber, leather, wood and metals	20 ML

LOC5331

Liquid adhesive for threaded fittings



CODE	DESCRIPTION	CONTAINER
LOC5331	To use with potable water up to 85°C	100 GR

R-PTFE

Teflon tape



CODE	DESCRIPTION	THICKNESS	CONTEINER
R-PTFE12012	To use with air & water in a temperature range from -200°C to +260°C	0,1 MM	15 MT.

R-PTFE-PROF

Teflon tape for professional use



CODE	DESCRIPTION	THICKNESS	CONTEINER
R-PTFE190215-PROF	For professional use according to directive DIN - DVGW, BS 7786 and GASTEC norms and to use in a temperature range from -200°C to +260°C.	0,2 MM	15 MT.

2605

Metal seal



CODE	THREADS	D	THICKNESS	GR.
2605TR18	1/8"	14	1	10
2605TR14	1/4"	17	1	20
2605TR38	3/8"	22	1,3	10
2605TR12	1/2"	26	1,6	20
2605TR34	3/4"	32	1,6	22
2605TR1	1"	39	3,5	28

2610

Nylon notched washer



CODE	THREADS	A	B	C	GR.
2610TRM5	M5	8,0	5,2	1,3	2,0
2610TR18	G1/8"	14,0	10,0	2,0	26,0
2610TR14	G1/4"	18,0	13,5	2,0	42,0
2610TR38	G3/8"	21,0	16,8	2,0	28,0
2610TR12	G1/2"	26,0	21,1	2,0	38,0

2612

PVC washer



CODE	THREADS	D4	D4	H	GR.
2612TR18	G1/8"	14,0	10,0	1,5	18,0
2612TR14	G1/4"	17,5	13,5	1,5	18,0
2612TR38	G3/8"	21,0	16,7	1,5	18,0
2612TR12	G1/2"	26,0	21,3	1,5	18,0

2615

Nylon washer



CODE	THREADS	A	B	C	GR.
2615TRM5	M5	8,5	5,0	1,5	4,0
2615TR18	G1/8"	14,0	9,8	1,5	24,0
2615TR14	G1/4"	18,0	13,2	1,5	40,0
2615TR38	G3/8"	21,0	16,7	1,5	20,0
2615TR12	G1/2"	26,0	21,1	2,0	38,0
2615TR34	G3/4"	32,0	26,7	2,5	62,0

2620

Aluminum washer



CODE	THREADS	A	B	C	GR.
2620TR18	G1/8"	14,0	10,0	1,5	58,0
2620TR14	G1/4"	17,3	13,3	1,5	76,0
2620TR38	G3/8"	21,0	16,9	1,5	46,0
2620TR12	G1/2"	26,0	21,1	1,5	70,0

QUICK COUPLINGS





P. 393 /
PLASTIC QUICK COUPLINGS



P. 397 /
ACETAL RESIN QUICK COUPLINGS

TECHNICAL INDEX

QUICK COUPLINGS PLASTIC

PLUS

- FAST AND RELIABLE PUSH TO CONNECT MECHANISM
- A VARIETY OF PLUGS CAN BE CONNECTED AND USED
- LIGHTWEIGHT AND ROBUST THANK TOT H CONSTRUCTION MATERIALS
- CAN BE USED TO HYDRAULIC OR PNEUMATICS APPLICATIONS



p. 395 / **8001**



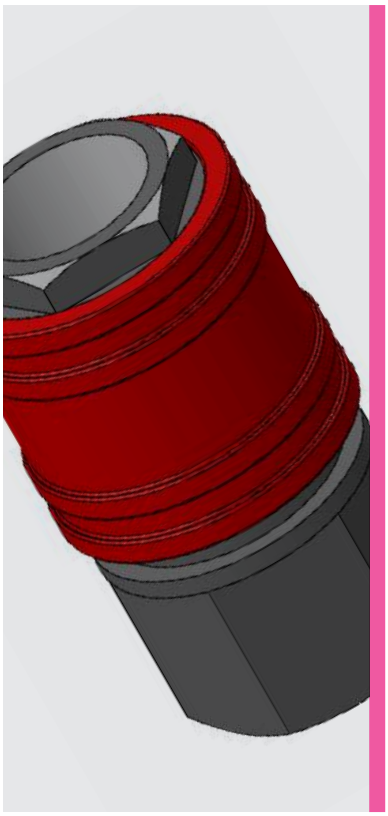
p. 395 / **8006**



p. 396 / **8007**



p. 396 / **8008**



+4°C ÷ 90°C

Up to 14 Bar at 20°C

Compressed air, water and food fluids suitable with construction materials

Taper gas BSPT ISO 7 - R1/4"

Body: Nylon
Seal: NBR
Internal parts: Acetal resin
Spring: Stainless steel AISI 316
CONNECTION: Acetal resin

PRECAUTIONS

The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings. Available on demand with EPDM seal

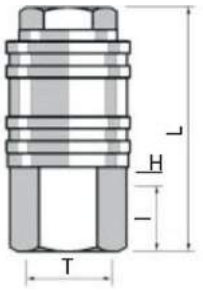
REACH Products in compliance with the directive 2002/95/EC

RoHS2 Products in compliance with the directive 2011/65/EU

8001

Plastic female quick coupler



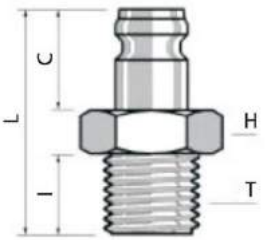


CODE	T	I	L	H	GR.
8001TR14	R1/4"	10,0	43,0	19	14,2

8006

Plastic male connection



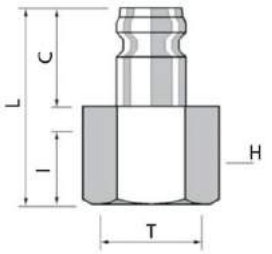


CODE	T	I	L	C	H	GR
8006TR14	R1/4"	10,0	30,0	14,0	17	3,9

8007

Plastic female connection



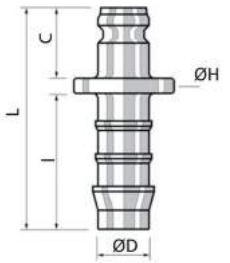


CODE	T	I	L	C	H	GR.
8007TR14	R1/4"	10,0	28,0	14,0	17	3,6

8008

Plastic barb connection





CODE	ØD	I	L	C	ØH	GR.
8008TR5	5	22,0	39,0	14,0	16,7	2,1
8008TR6	6	24,0	41,0	14,0	16,7	2,35
8008TR8	8	26,0	43,0	14,0	16,8	3,25
8008TR10	10	26,0	43,0	14,0	16,8	3,85
8008TR12	12	28,0	45,0	14,0	16,8	4,15

QUICK COUPLINGS
ACETAL RESIN

PLUS

RESISTANT TO MOST MILD CHEMICALS AND ARE MANUFACTUREDTO BE TROUBLE FREE FOR MANY YEARS

ARE PRODUCED IN A DURABLE NATURAL ACETAL THERMOPLASTIC

THEY FEATURE A THUMB-LATCH RELEASE WHICH PROVIDES A SIMPLE ONE HAND OPERATION

AVAILABLE IN BOTH VALVED AND NON-VALVED CONFIGURATIONS



p. 400 / **20AC100**



p. 400 / **40AC100**



p. 400 / **20AC110**



p. 400 / **40AC110**



p. 401 / **20AC120**



p. 401 / **40AC120**



p. 401 / **20AC101**



p. 401 / **40AC101**



p. 402 / **20AC111**



p. 402 / **40AC111**



p. 402 / **20AC121**



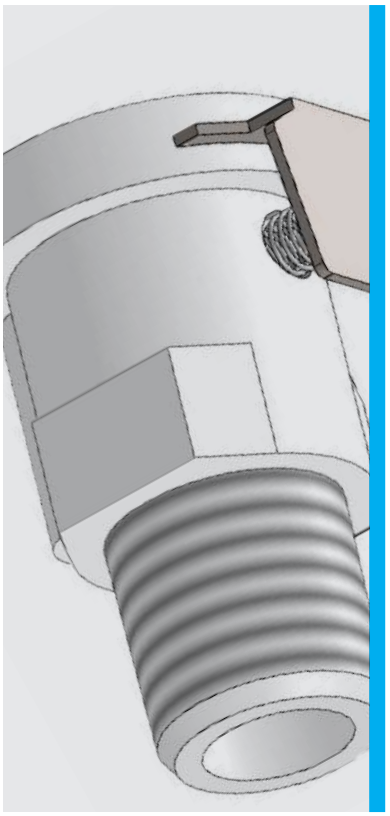
p. 402 / **40AC121**



p. 403 / **20AC131**



p. 403 / **40AC131**



From -40°C to +82°C

From -750mmHg to 8,3 Bar

20AC series: 3.0 mm
40AC series: 6.2mm

Compressed air, water and fluids suitable with construction materials

Taper gas BSPT ISO 7 from R1/8" to R1/4"

Body: POM
Internal valve: POM
Internal valve spring: stainless steel AISI 316
Seals: FDA & NSF grade Buna-N
Thumb-latch: stainless steel
Exsternal springs & Pin: stainless steel

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PRECAUTIONS

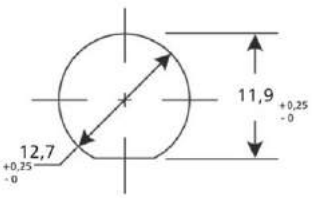
The products are made in plastic and it's necessary to use teflon coating over the thread for installation in order and to prevent air leakage. Be sure to prevent excessive torque when screwing the fittings.

FEATURES

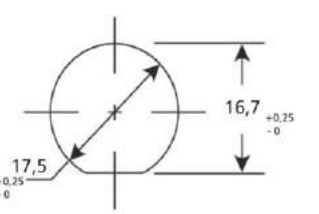
20AC acetal resin series coupling are resistant to most mild chemicals and are studied and manufactured to be trouble free for many years of service.

PANEL MOUNT DIMENSION

	MIN. WALL THICKNESS	MAX WALL THICKNESS	PANEL NUT HEX SIZE	PANEL NUT THREAD
COUPLINGS	1.3 mm	12.7 mm	16 mm	1/2" - 24 uns
CONNECTORS	1.3 mm	7.6 mm	16 mm	1/2" - 24 uns



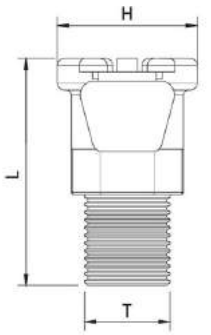
	MIN. WALL THICKNESS	MAX WALL THICKNESS	PANEL NUT HEX SIZE	PANEL NUT THREAD
COUPLINGS	1.3 mm	12.7 mm	21 mm	11/16" - 24 uns
CONNECTORS	1.3 mm	7.6 mm	21 mm	11/16" - 24 uns



20AC100

Male quick coupler



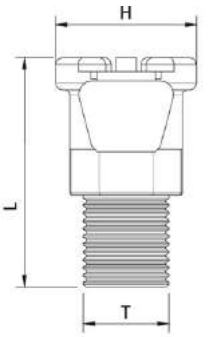


CODE	VALVED	T	L	H
20AC100L-R01	NO	R1/8"	25,4	15,7
20AC100V-R01	YES	R1/8"	25,4	15,7
20AC100L-R02	NO	R1/4"	25,4	15,7
20AC100V-R02	YES	R1/4"	25,4	15,7

40AC100

Male quick coupler



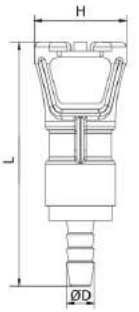


CODE	VALUED	T	L	H
40AC100L-R02	NO	R1/4"	29,2	19,1
40AC100V-R02	SI	R1/4"	29,2	19,1
40AC100L-R03	NO	R3/8"	29,2	19,1
40AC100V-R03	SI	R3/8"	29,2	19,1

20AC110

Quick coupler with barb connector



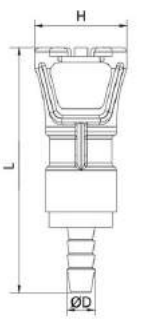


CODE	VALVED	ØD	L	H
20AC110L-48	NO	4,8	41,9	15,7
20AC110V-48	YES	4,8	41,9	15,7
20AC110L-63	NO	6,3	45,7	15,7
20AC110V-63	YES	6,3	45,7	15,7
20AC110L-76	NO	7,6	45,7	15,7
20AC110V-76	YES	7,6	45,7	15,7

40AC110

Quick coupler with barb connector



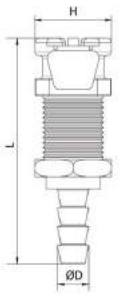


CODE	VALUED	ØD	L	H
40AC110L-76	NO	7,6	48,3	19,1
40AC110V-76	SI	7,6	48,3	19,1
40AC110L-91	NO	9,1	48,3	19,1
40AC110V-91	SI	9,1	48,3	19,1
40AC110L-107	NO	10,7	48,3	19,1
40AC110V-107	SI	10,7	48,3	19,1

20AC120

Bulkhead quick coupler with barb connector



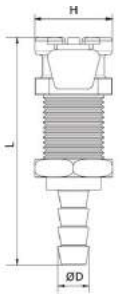


CODE	VALVED	ØD	L	H
20AC120L-48	NO	4,8	41,9	15,7
20AC120V-48	YES	4,8	41,9	15,7
20AC120L-63	NO	6,3	45,7	15,7
20AC120V-63	YES	6,3	45,7	15,7
20AC120L-76	NO	7,6	45,7	15,7
20AC120V-76	YES	7,6	45,7	15,7

40AC120

Bulkhead quick coupler with barb connector



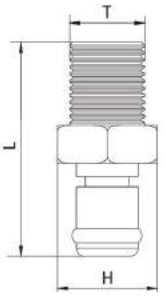


CODE	VALUED	ØD	L	H
40AC120L-76	NO	7,6	48,3	19,1
40AC120V-76	SI	7,6	48,3	19,1
40AC120L-91	NO	9,1	48,3	19,1
40AC120V-91	SI	9,1	48,3	19,1
40AC120L-107	NO	10,7	48,3	19,1
40AC120V-107	SI	10,7	48,3	19,1

20AC101

Male connection



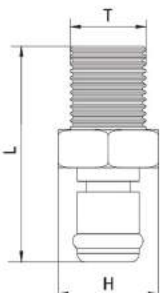


CODE	VALVED	T	L	H
20AC101L-R01	NO	R1/8"	26,2	12,7
20AC101V-R01	YES	R1/8"	34,5	12,7
20AC101L-R02	NO	R1/4"	28,7	14,2
20AC101V-R02	YES	R1/4"	35,3	14,2

40AC101

Male connection





CODE	VALUED	T	L	H
40AC101L-R02	NO	R1/4"	31,8	16,0
40AC101V-R02	SI	R1/4"	41,9	16,0
40AC101L-R03	NO	R3/8"	31,8	19,1
40AC101V-R03	SI	R3/8"	41,9	19,1

20AC111

Connector with barb connection



CODE	VALVED	ØD	L	H
20AC111L-48	NO	4,8	24,6	14,0
20AC111V-48	YES	4,8	41,9	14,0
20AC111L-63	NO	6,3	28,4	14,0
20AC111V-63	YES	6,3	45,7	14,0
20AC111L-76	NO	7,6	28,4	14,0
20AC111V-76	YES	7,6	45,7	14,0

40AC111

Connector with barb connection



CODE	VALUED	ØD	L	H
40AC111L-76	NO	7,6	31,8	17,8
40AC111V-76	SI	7,6	49,3	17,8
40AC111L-91	NO	9,1	31,8	17,8
40AC111V-91	SI	9,1	49,3	17,8
40AC111L-107	NO	10,7	31,8	17,8
40AC111V-107	SI	10,7	46,5	17,8

20AC121

Bulkhead connector with barb connection



CODE	VALVED	ØD	L	H
20AC121L-48	NO	4,8	41,1	15,7
20AC121V-48	SI	4,8	41,1	15,7
20AC121L-63	NO	6,3	44,7	15,7
20AC121V-63	SI	6,3	44,7	15,7
20AC121L-76	NO	7,6	44,7	15,7
20AC121V-76	SI	7,6	44,7	15,7

40AC121

Bulkhead connector with barb connection



CODE	VALUED	ØD	L	H
40AC121L-76	NO	7,6	47,8	19,1
40AC121V-76	SI	7,6	47,8	19,1
40AC121L-91	NO	9,1	47,8	19,1
40AC121V-91	SI	9,1	47,8	19,1
40AC121L-107	NO	10,7	47,8	19,1
40AC121V-107	SI	10,7	47,8	19,1

20AC131

Elbow barb connection



CODE	VALVED	ØD	L	H
20AC131L-48	NO	4,8	21,8	12,7
20AC131V-48	YES	4,8	30,2	12,7
20AC131L-76	NO	7,6	24,9	12,7
20AC131V-76	YES	7,6	30,2	12,7

40AC131

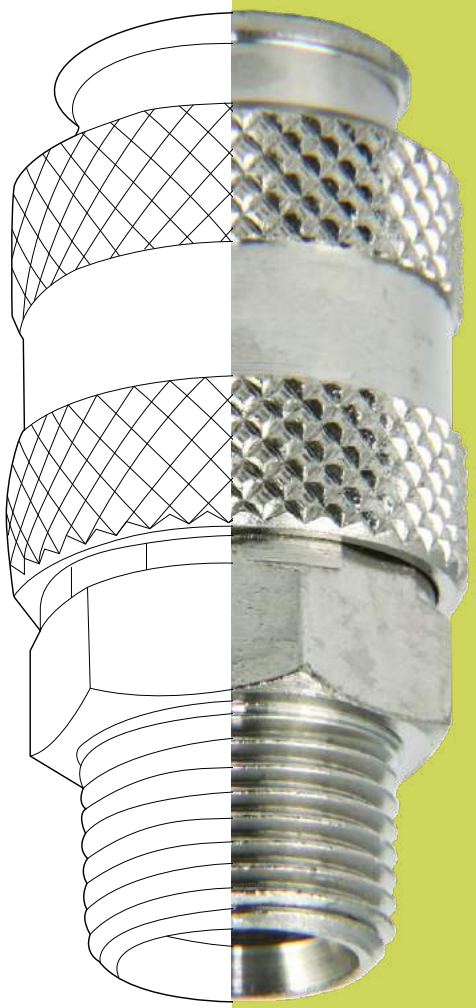
Elbow barb connection



CODE	VALUED	ØD	L	H
40AC131L-76	NO	7,6	27,9	16,0
40AC131V-76	SI	7,6	34,3	16,0
40AC131L-107	NO	10,7	27,9	12,7
40AC131V-107	SI	10,7	34,3	12,7



QUICK COUPLING FOR COMPRESSED AIR



TECHNICAL INDEX



P. 407 /
MINI SERIES



P. 413 /
TIERRE UNIVERSAL SERIES



P. 419 /
USA SERIES



P. 423 /
SWISS SERIES



P. 427 /
GERMANY SERIES



P. 433 /
ITALY SERIES



P. 439 /
LARGE ITALY SERIES



P. 443 /
JAPAN SERIES

QUICK COUPLING FOR COMPRESSED AIR
MINI SERIES

PLUS

- EASY CONNECTION AND DISCONNECTION
- STRONG AND COMPACT
- SUITABLE FOR PNUMATICS APPLICATIONS
- COMPATIBLE WITH SWISS, ITALY, USA AND GERMANY



p. 409 / **8110FM**



p. 409 / **8120FF**



p. 409 / **8130RE**



p. 410 / **8140CA**



p. 410 / **8150MO**



p. 410 / **8155BU**



p. 410 / **8160MM**



p. 410 / **8170FM**



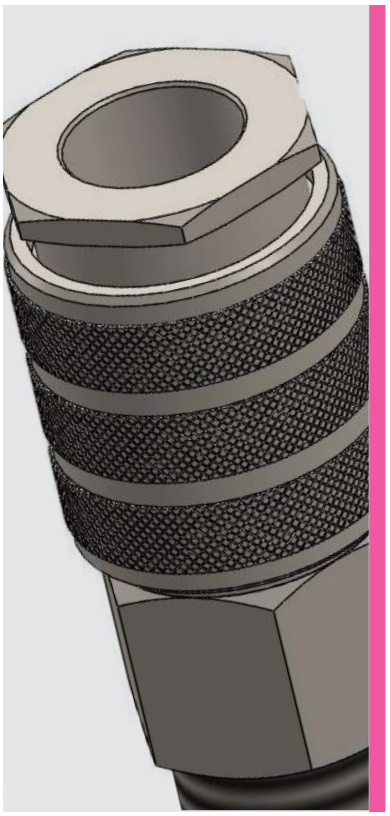
p. 411 / **8180RE**



p. 411 / **8190CA**



p. 411 / **8195MO**



-15°C ÷ +80°C

Up to 12 Bar

NOMINAL DIAMETER
4,8 mm

Compressed air

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

PROFILE



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

8110FM

Male quick coupler



CODE	T	L	H
8110FM01	R1/8"	38,9	14
8110FM02	R1/4"	37,7	14

8120FF

Female quick coupler



CODE	T	L	H
8120FF01	G1/8"	38,9	14
8120FF02	G1/4"	40,7	15

8130RE

Hose connector quick coupler



CODE	D	L	H
8130RE06	6	49	33,0
8130RE08	8	49	35,0

8140CA

Push-on quick coupler



CODE	D	L	H
8140CA46	4X6	42,9	14
8140CA68	6X8	43,6	14
8140CA810	8X10	45,0	14

8150MO

Quick coupler with spring



CODE	D	L	H1	H2
8150MO46	4X6	115,6	14	12
8150MO68	6X8	128,3	14	13
8150MO810	8X10	129,2	14	15

8155BU

Bulkhead quick coupler



CODE	D	L	H	GR.
8155BU46	4X6	57,7	14	33,0
8155BU68	6X8	58,0	-	35,0

8160MM

Male connection



CODE	T	L	H
8160MM01	R1/8"	26,0	12
8160MM02	R1/4"	28,4	14

8170FM

Female connection



CODE	T	L	H
8170FM01	R1/8"	26,0	12
8170FM02	R1/4"	28,4	14

8180RE

Connection with barb connector



CODE	D	L
8180RE06	6	33,0
8180RE08	8	34,5

8190CA

Push-on connection



CODE	D	L	H
8190CA46	4X6	32,5	12
8190CA68	6X8	33,1	12
8190CA810	8X10	34,7	14

8195MO

Connection with spring



CODE	D	L	H1	H2
8195MO46	4X6	104,3	12	12
8195MO68	6X8	117,0	12	12
8195MO810	8X10	120,4	14	15



QUICK COUPLING FOR COMPRESSED AIR

TIERRE UNIVERSAL SERIES

PLUS

- EASY CONNECTION AND DISCONNECTION
- SUITABLE FOR PNEUMATIC APPLICATIONS
- COMPATIBLE WITH SWISS, ITALY, USA AND GERMANY



p. 416 / **8410FM**



p. 416 / **8420FF**



p. 416 / **8430RE**



p. 416 / **8440PO**



p. 417 / **8450MO**



p. 417 / **8410FM-LU**



p. 417 / **8420FF-LU**



-15°C ÷ +80°C

from 0 to 16 Bar

FLOW
2100 l/m at 6 Bar
1500 l/m at 6 bar
(8410FM-LU AND 8420FF-LU)

Parallel gas
from G1/8" to G1/2"

Brass with stainless steel spheres

PROFILE



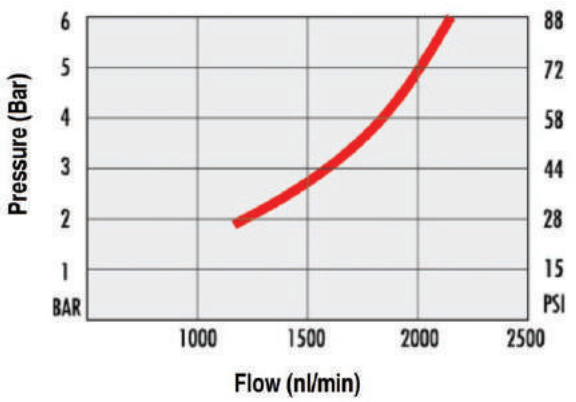
REACH

Products in compliance with
the directive 2002/95/EC

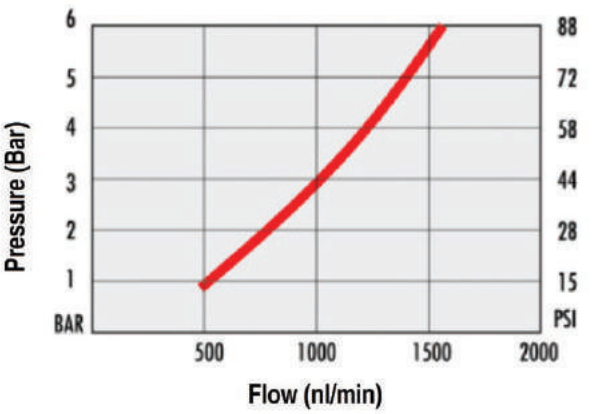
RoHS2

Products in compliance with
the directive 2011/65/EU

TIERRE UNIVERSAL SERIES



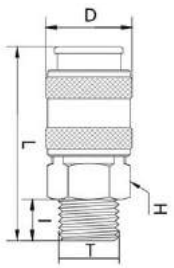
TIERRE LIGHT UNIVERSAL SERIES



8410FM

Male quick coupler



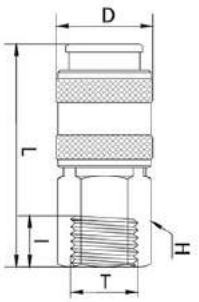


CODE	T	I	D	L	H
8410FM02	G1/4"	11,0	24,0	58,0	20
8410FM03	G3/8"	11,5	24,0	54,0	20
8410FM04	G1/2"	14,0	24,0	56,5	22

8420FF

Female quick coupler



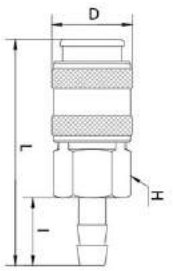


CODE	T	I	D	L	H
8420FF02	G1/4"	11,0	24,0	55,0	20
8420FF03	G3/8"	12,0	24,0	55,0	20
8420FF04	G1/2"	14,0	28,0	55,0	25

8430RE

Barb connector quick coupler



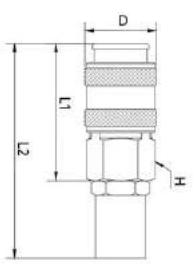


CODE	Ø	I	D	L	H
8430RE06	6	20,0	24,0	67,0	20
8430RE08	8	20,0	24,0	67,0	20
8430RE10	10	20,0	24,0	67,0	20
8430RE12	12	24,0	24,0	71,0	20

8440PO

Hose connector quick coupler



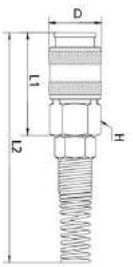


CODE	Ø	D	L1	L2	H
8440PO610	6X10	24,0	47,0	73,0	20
8440PO612	6X12	24,0	47,0	73,0	20
8440PO614	6X14	24,0	47,0	73,0	20
8440PO812	8X12	24,0	47,0	73,5	20
8440PO814	8X14	24,0	47,0	73,5	20
8440PO817	8X17	24,0	47,0	73,5	20
8440PO10145	10X14,5	24,0	47,0	73,5	20
8440PO1017	10X17	24,0	47,0	73,5	20
8440PO1019	10X19	24,0	47,0	77,0	20

8450MO

Hose connector quick coupler



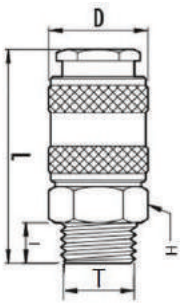


CODE	Ø	D	L1	L2	H
8450MO58	5X8	24,0	47,0	148,0	20
8450MO68	6X8	24,0	47,0	148,0	20
8450MO810	8X10	24,0	47,0	148,0	20
8450MO6510	6,5X10	24,0	47,0	148,0	20
8450MO812	8X12	24,0	42,5	160,0	20
8450MO1012	10X12	24,0	42,5	160,0	20

8410FM-LU

Male quick coupler BSPP



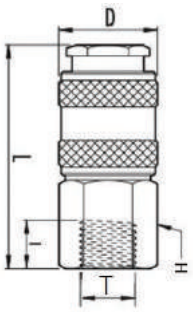


CODE	T	I	D	L	H
8410FM02LU	G1/4"	9	22	52	19
8410FM03LU	G3/8"	9	22	47,5	19
8410FM04LU	G1/2"	10,5	22	48,5	22

8420FF-LU

Female quick coupler BSPP





CODE	T	I	D	L	H
8420FF02LU	G1/4"	11	22	52,5	19
8420FF03LU	G3/8"	12	22	52,5	19



QUICK COUPLING FOR COMPRESSED AIR
USA SERIES

PLUS

EASY CONNECTION AND DISCONNECTION

SUITABLE FOR PNEUMATIC APPLICATIONS



p. 421 / **8060MM**



p. 421 / **8070FM**



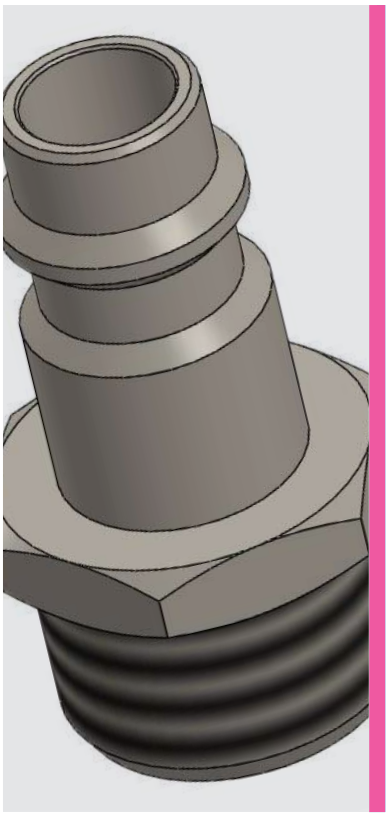
p. 422 / **8080RE**



p. 422 / **8085PO**



p. 422 / **8090MO**



-15°C ÷ +80°C

Up to 16 Bar

NOMINAL DIAMETER
5,0 mm

Compressed air

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

PROFILE



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

8060MM

Male connection



CODE	T
8060MM02	G1/4"
8060MM03	G3/8"
8060MM04	G1/2"

8070FM

Female connection



CODE	T
8070FM02	G1/4"
8070FM03	G3/8"
8070FM04	G1/2"

8080RE

Connection with barb connector



CODE	Ø
8080RE06	6
8080RE08	8
8080RE10	10
8080RE12	12

8085PO

Connection with hose connector



CODE	Ø
8085PO610	6X10
8085PO612	6X12
8085PO614	6X14
8085PO812	8X12
8085PO814	8X14
8085PO817	8X17
8085PO10145	10X14,5
8085PO1017	10X17
8085PO1019	10X19

8090MO

Connection with spring



CODE	Ø
8090MO46	4X6
8090MO58	5X8
8090MO68	6X8
8090MO810	8X10
8090MO6510	6,5X10
8090MO812	8X12
8090MO1012	10X12

QUICK COUPLING FOR COMPRESSED AIR

SWISS SERIES

PLUS

EASY CONNECTION
AND DISCONNECTION

SUITABLE FOR PNEUMATIC
APPLICATIONS



p. 425 / **8460MM**



p. 425 / **8470FM**



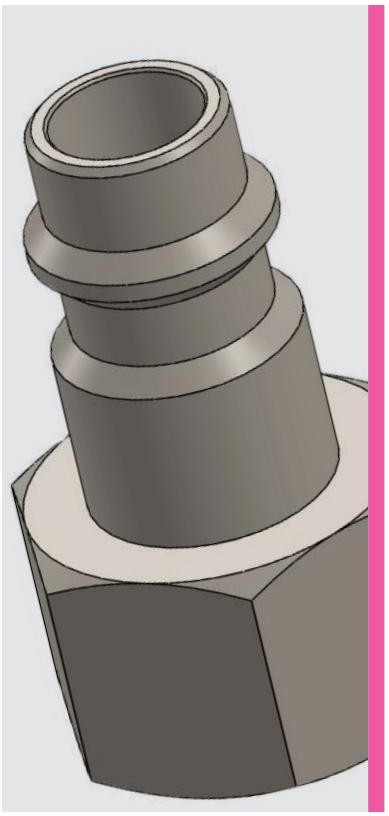
p. 426 / **8480RE**



p. 426 / **8485PO**



p. 426 / **8490MO**



-15°C ÷ +80°C

Up to 16 Bar

NOMINAL DIAMETER
5,0 mm

Compressed air

Parallel gas BSPP ISO 228
from G1/4" to G1/2"

PROFILE



Products in compliance with
the directive 2002/95/EC

Products in compliance with
the directive 2011/65/EU

8460MM

Male connection



CODE	T
8460MM02	G1/4"
8460MM03	G3/8"
8460MM04	G1/2"

8470FM

Female connection



CODE	T
8470FM02	G1/4"
8470FM03	G3/8"
8470FM04	G1/2"

8480RE

Connection with barb connector



CODE	Ø
8480RE06	6
8480RE08	8
8480RE10	10
8480RE12	12

8485PO

Connection with hose connector



CODE	Ø
8485PO610	6X10
8485PO612	6X12
8485PO614	6X14
8485PO812	8X12
8485PO814	8X14
8485PO817	8X17
8485PO10145	10X14,5
8485PO1017	10X17
8485PO1019	10X19

8490MO

Connection with spring



CODE	Ø
8490MO46	4X6
8490MO58	5X8
8490MO68	6X8
8490MO810	8X10
8490MO6510	6,5X10
8490MO812	8X12
8490MO1012	10X12

QUICK COUPLING FOR COMPRESSED AIR
GERMANY SERIES

PLUS

EASY CONNECTION AND DISCONNECTION

SUITABLE FOR PNEUMATIC APPLICATIONS



p. 429 / **8310FM**



p. 429 / **8320FF**



p. 430 / **8330RE**



p. 430 / **8390PO**



p. 430 / **8350MO**



p. 430 / **8360MM**



p. 431 / **8370FM**



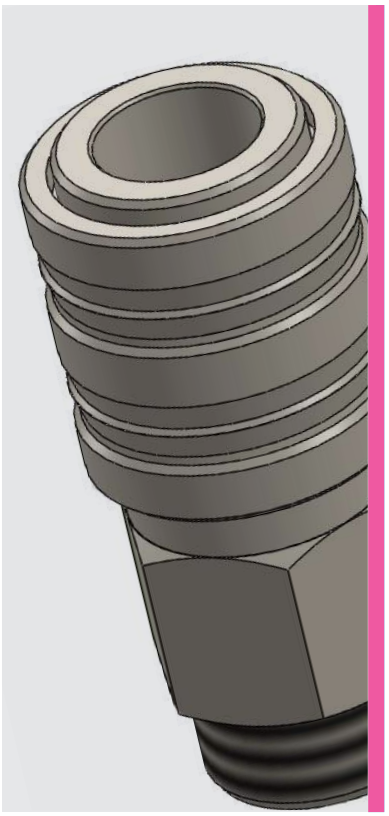
p. 431 / **8340PO**



p. 431 / **8380RE**



p. 431 / **8395MO**



-15°C ÷ +80°C

Up to 8 Bar

NOMINAL DIAMETER
7,0 mm

FLOW
2000 l/min

Compressed air

Taper gas from R1/4" to R1/2"
Parallel gas from G1/4" to G1/2"

PROFILE



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

8310FM

Male quick coupler



CODE	T	L	H
8310FM02	R1/4"	51,5	19
8310FM03	R3/8"	51,5	19
8310FM04	R1/2"	54,5	22

8320FF

Female quick couplert



CODE	T	L	H
8320FF02	G1/4"	51,4	19
8320FF03	G3/8"	57,0	19
8320FF04	G1/2"	54,3	25

8330RE

Barb connector quick coupler



CODE	D	L	H
8330RE06	6	38,5	19
8330RE07	7	61,5	19
8330RE08	8	63,1	19
8330RE09	9	63,3	19
8330RE10	10	65,7	19
8330RE12	12	66,7	19
8330RE13	13	66,3	19

8390PO

Hose connector quick coupler



CODE	D	L	H1	H2
8390PO610	6X10	72,5	19	15
8390PO612	6X12	72,5	19	15
8390PO614	6X14	73,2	19	20
8390PO812	8X12	70,0	19	15
8390PO817	8X17	70,3	19	20
8390PO1019	10X19	76,4	19	20

8350MO

Quick coupler with spring



CODE	D	L	H1	H2
8350MO46	4X6	129,0	19	12
8350MO58	5X8	139,0	19	13
8350MO68	6X8	137,0	19	13
8350MO6510	6,5X10	140,0	19	15
8350MO810	8X10	139,5	19	15
8350MO1012	10X12	144,7	19	17

8360MM

Male connection



CODE	T	L	H
8360MM02	R1/4"	33,5	14
8360MM03	R3/8"	35,5	17
8360MM04	R1/2"	38,4	22

8370FM

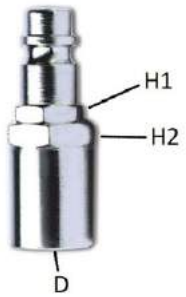
Female connection



CODE	T	L	H
8370FM02	G1/4"	33,1	15
8370FM03	G3/8"	35,0	19
8370FM04	G1/2"	38,0	25

8340PO

Connection with hose connector



CODE	D	L	H1	H2
8340PO1019	6X10	51,4	13	15
8340PO610	6X12	51,4	13	15
8340PO612	6X14	51,4	13	17
8340PO614	8X17	52,5	13	18
8340PO817	10X19	55,4	12	22

8380RE

Connection with barb connector



CODE	D	P
8380RE06	6	38,2
8380RE07	7	40,0
8380RE08	8	40,2
8380RE09	9	40,9
8380RE10	10	39,4
8380RE12	12	44,6
8380RE13	13	45,6

8395MO

Connection with barb connector



CODE	D	L	H1	H2
8395MO46	4X6	103,2	13	12
8395MO58	5X8	119,5	13	13
8395MO68	6X8	124,3	13	13
8395MO6510	6,5X10	120,5	13	15
8395MO810	8X10	123,2	13	15
8395MO1012	10X12	123,2	13	17



QUICK COUPLING FOR COMPRESSED AIR
ITALY SERIES

PLUS

EASY CONNECTION AND DISCONNECTION

STRONG

SUITABLE FOR PNEUMATIC APPLICATIONS



p. 435 / **8210FM**



p. 435 / **8220FF**



p. 436 / **8240PO**



p. 436 / **8250MO**



p. 436 / **8260MO**



p. 436 / **8270FM**



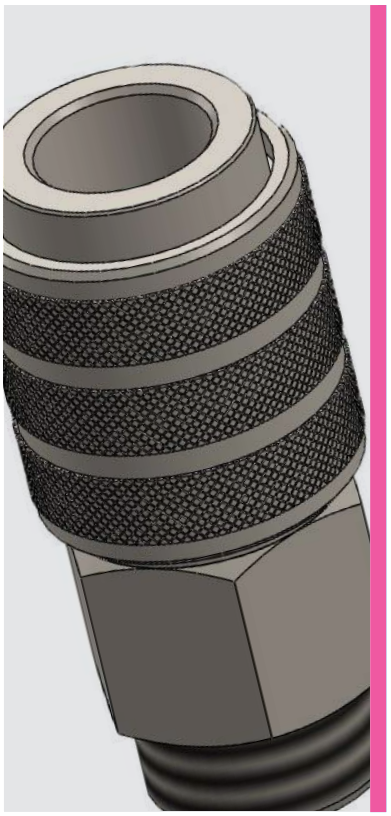
p. 437 / **8230PO**



p. 437 / **8285BM**



p. 437 / **8295MO**



-15°C ÷ +80°C

Up to 8 Bar

NOMINAL DIAMETER
4,8 mm

Compressed air

Taper gas from R1/8" to R1/2"
Parallel gas from G1/8" to G1/2"

PROFILE



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

8210FM

Male quick coupler



CODE	T	L	H
8210FM01	R1/8"	51,9	19
8210FM02	R1/4"	52,1	19
8210FM03	R3/8"	52,2	19
8210FM04	R1/2"	55,5	22

8220FF

Male quick coupler



CODE	T	L	H
8220FF02	G1/4"	52,2	19
8220FF03	G3/8"	58,0	19
8220FF04	G1/2"	58,1	25

8240PO

Hose connector quick coupler



CODE	ØD	L	H1	H2
8240PO610	6X10	70,5	19	15
8240PO612	6X12	72,0	19	15
8240PO613	6X13	70,5	19	16
8240PO614	6X14	70,5	19	17
8240PO716	7X16	73,2	19	19
8240PO812	8X12	70,5	19	15
8240PO813	8X13	70,5	19	15
8240PO815	8X15	70,5	19	15
8240PO817	8X17	71,1	19	20
8240PO1017	10X17	76,2	19	18
8240PO1019	10X19	77,8	19	20

8250MO

Quick coupler with spring



CODE	ØD	L	H1	H2
8250MO46	4X6	131,1	19	12
8250MO58	5X8	140,5	19	13
8250MO68	6X8	138,7	19	12
8250MO6510	6,5X10	140,0	19	15
8250MO810	8X10	144,3	19	15
8250MO1012	10X12	148,7	19	17

8260MM

Male connection



CODE	T	L	H
8260MM01	R1/8"	34,7	13
8260MM02	R1/4"	37,9	14
8260MM03	R3/8"	38,2	17
8260MM04	R1/2"	42,1	22

8270FM

Female connection



CODE	T	L	H
8270FM01	G1/8"	29,0	13
8270FM02	G1/4"	37,0	15
8270FM03	G3/8"	38,1	19
8270FM04	G1/2"	42,0	25

8230PO

Connection with hose connector



CODE	D	L	H1	H2
8230PO610	6X10	55,5	13	15
8230PO612	6X12	55,5	13	15
8230PO613	6X13	54,8	13	16
8230PO614	6X14	55,7	12	17
8230PO716	7X16	55,1	13	19
8230PO812	8X12	55,0	13	15
8230PO813	8X13	55,0	13	16
8230PO815	8X15	55,0	13	18
8230PO817	8X17	55,4	13	20
8230PO1017	10X17	57,9	13	20
8230PO1019	10X19	59,8	13	22

8285BM

Bayonet male connection



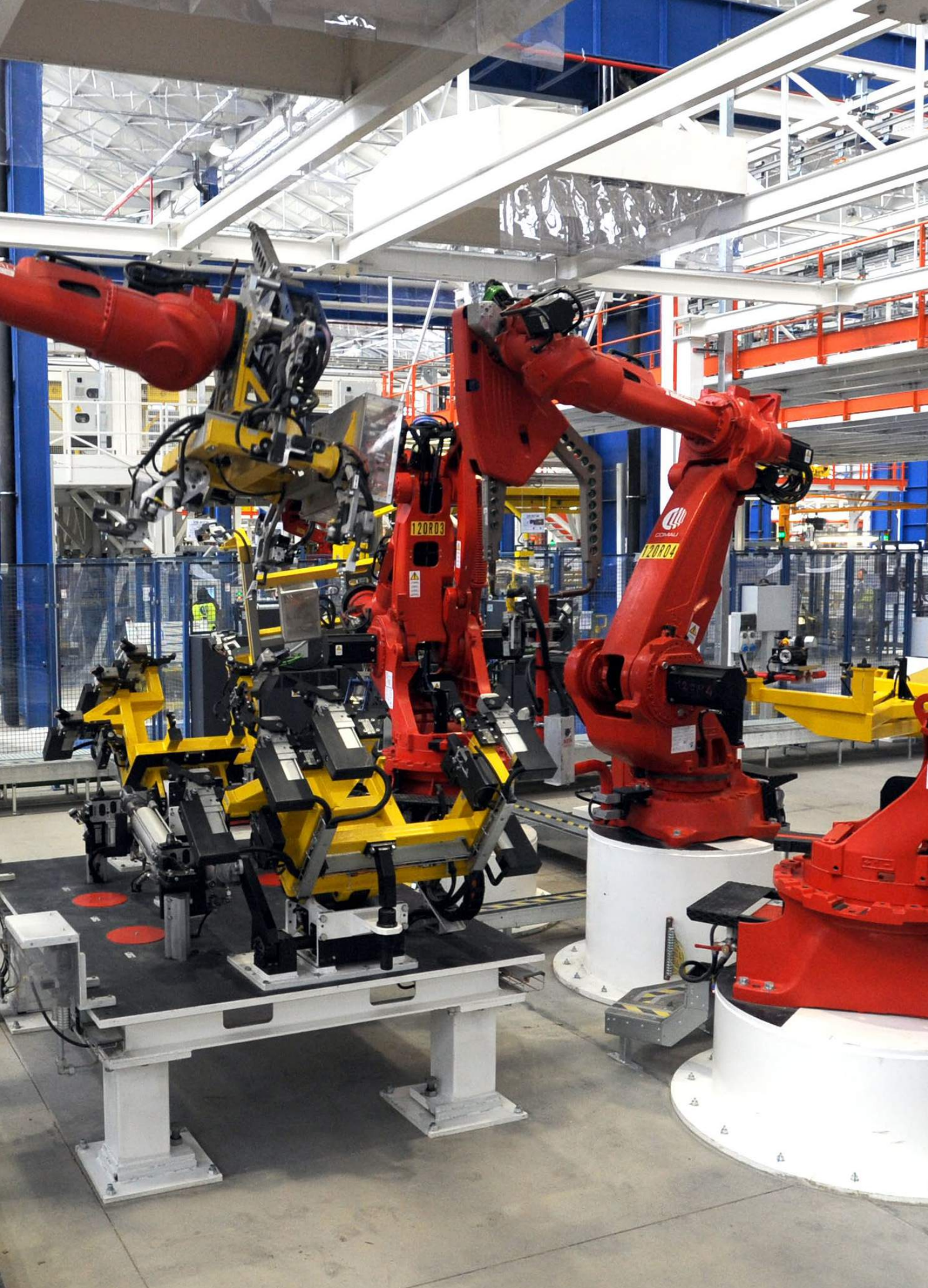
CODE	D	L	P
8285BM55	5,5	155,8	15

8295MO

Connection with spring



CODE	D	L	H1	H2
8295MO46	4X6	112,1	12	12
8295MO58	5X8	125,5	13	13
8295MO68	6X8	124,9	13	13
8295MO6510	6,5X10	126,0	12	15
8295MO810	8X10	123,7	13	15
8295MO812	8X12	125,5	15	17
8295MO1012	10X12	127,5	15	17


120R03
120R04

QUICK COUPLING FOR COMPRESSED AIR

LARGE ITALY SERIES

PLUS

EASY CONNECTION AND DISCONNECTION

STRONG

SUITABLE FOR PNEUMATIC APPLICATIONS



p. 441 / **8215FM**



p. 441 / **8225FF**



p. 442 / **8235PO**



p. 442 / **8245PO**



p. 442 / **8255MM**



-15°C ÷ +80°C

Up to 8 Bar

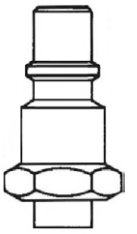
NOMINAL DIAMETER
9,2 mm

FLOW
2500l/min

Compressed air

Taper gas from R3/8" to R1/2"
Parallel gas from G3/8" to G1/2"

PROFILE



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

8215FM

Large male quick coupler



CODE	T	L	H
8215FM03	R3/8"	62,5	26
8215FM04	R1/2"	65,0	26

8225FF

Large female quick coupler



CODE	T	L	H
8225FF03	G3/8"	62,0	26
8225FF04	G1/2"	65,0	26

8235PO

Large quick coupler with hose connector



CODE	D	L	H1	H2
8235PO1019	10X19	80,0	22	25
8235PO1021	10X21	80,0	22	25
8235PO1023	10X23	81,0	22	27
8235PO1319	13X19	82,0	22	25
8235PO1320	13X20	82,0	22	25
8235PO1321	13X21	82,0	22	25
8235PO1323	13X23	82,0	22	27
8235PO1325	13X25	82,0	22	30

8245PO

Large connection with hose connector



CODE	D	L	H1	H2	GR.
8245PO1019	10X19	95,0	26	25	130,0
8245PO1021	10X21	96,0	26	25	132,0
8245PO1023	10X23	96,0	26	27	138,0
8245PO1319	13X19	97,5	26	25	137,0
8245PO1320	13X20	97,5	26	25	138,0
8245PO1321	13X21	97,5	26	25	138,0
8245PO1323	13X23	97,5	26	27	145,0
8245PO1324	13X24	97,5	26	27	-
8245PO1325	13X25	97,5	26	30	171,0

8255MM

Large male connection



CODE	T	L	H
8255MM03	R3/8"	47,5	19
8255MM04	R1/2"	50,5	22

QUICK COUPLING FOR COMPRESSED AIR

JAPAN SERIES

PLUS

EASY CONNECTION AND DISCONNECTION

STRONG

SUITABLE FOR PNEUMATIC APPLICATIONS



p. 446 / **8910FM**



p. 446 / **8920FF**



p. 446 / **8930RE**



p. 446 / **8960MM**



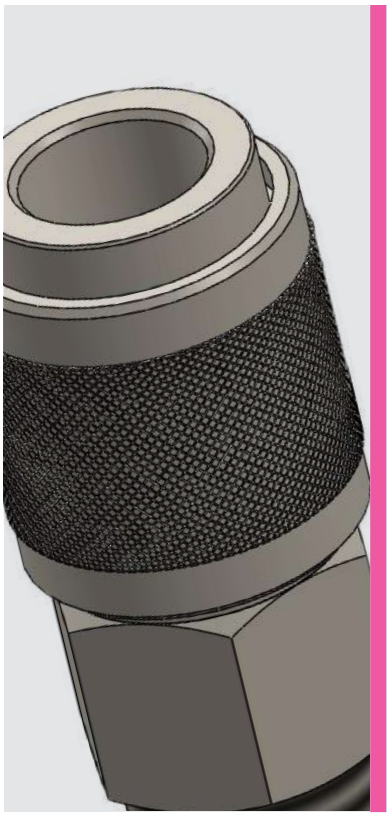
p. 447 / **8970FM**



p. 447 / **8980RE**



p. 447 / **PCP**



-15°C ÷ +80°C

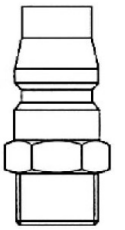
From 0 to 16 Bar

NOMINAL DIAMETER
7,5 mm

Compressed air

Parallel gas from G1/4" to G1/2"

PROFILE



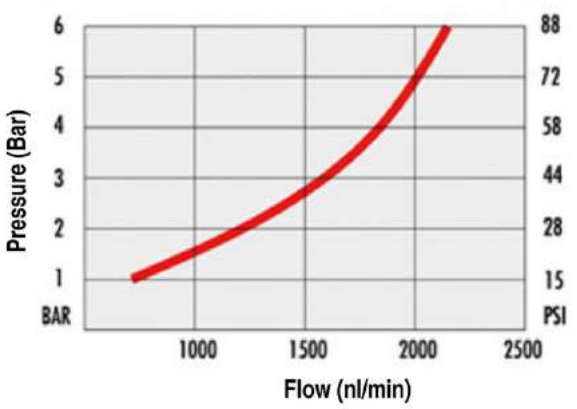
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

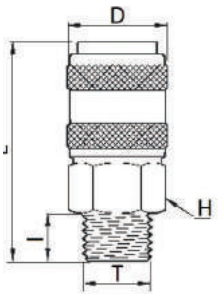
TIERRE JAPAN SERIES



8910FM

Male quick coupler



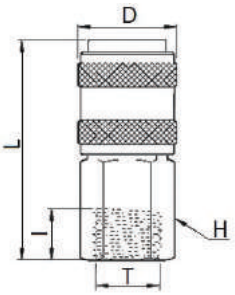


CODE	T	I	D	L	H
8910FM02	G1/4"	11,0	24,0	56,5	20
8910FM03	G3/8"	11,5	24,0	53,0	20
8910FM04	G1/2"	14,0	24,0	55,0	22

8920FF

Female quick coupler



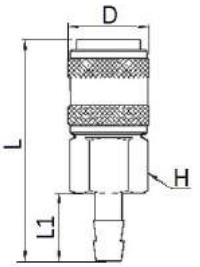


CODE	T	I	D	L	H
8920FF02	G1/4"	11,0	24,0	54,0	20
8920FF03	G3/8"	12,0	24,0	54,0	20

8930RE

Hose connector quick coupler



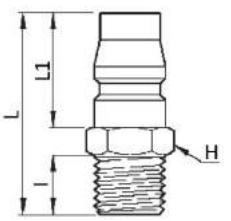


CODE	Ø	D	L1	L	H
8930RE06	6	24,0	20,0	65,5	20
8930RE08	8	24,0	20,0	65,5	20
8930RE10	10	24,0	20,0	65,5	20

8960MM

Male connection



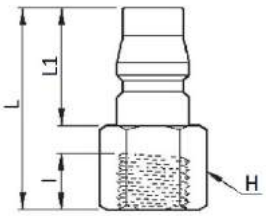


CODE	T	I	L	L1	H
8960MM02	G1/4"	11,0	37,0	21,0	14
8960MM03	G3/8"	11,5	37,5	21,0	17
8960MM04	G1/2"	14,0	40,5	21,0	22

8970FM

Female connection



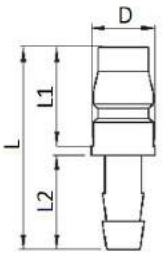


CODE	T	I	L	L1	H
8970FM02	G1/4"	12,0	36,0	21,0	17
8970FM03	G3/8"	13,0	37,0	21,0	19

8980RE

Connector with barb connector



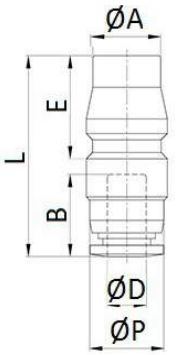


CODE	Ø	D	L	L1	L2
8980RE06	6	20,0	43,0	14,0	21,0
8980RE08	8	20,0	43,0	14,0	21,0
8980RE10	10	20,0	43,0	14,0	21,0

PCP

Push-in fittings for tube

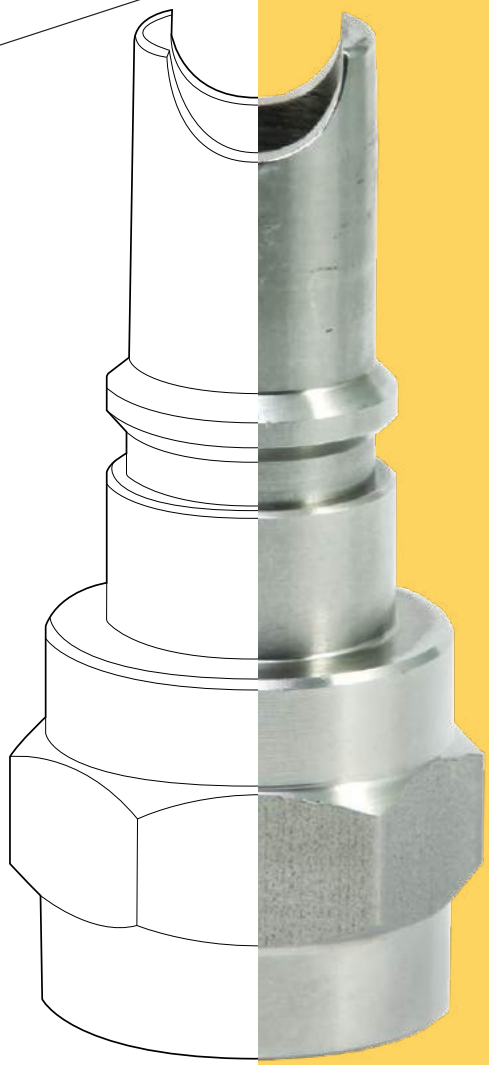




CODE	ØD	ØP	ØA	L	E	B	DN	GR.
PCP04N	4	10,0	10,9	31,0	16,3	14,8	3,0	17,0
PCP06N	6	11,9	10,9	31,7	16,3	17,4	5,0	16,0
PCP08N	8	14,0	10,9	34,9	16,3	18,4	6,0	17,0
PCP10N	10	16,0	10,9	42,4	16,3	19,7	8,0	25,0
PCP12N	12	19,0	10,9	45,4	16,3	21,9	8,0	33,0
PCP16N	16	24,0	10,9	49,3	16,3	24,5	8,0	52,0



QUICK COUPLING FOR FLUIDS



TECHNICAL INDEX



P. 453 /
CD-12



P. 459 /
CD-25



P. 463 /
CD-25N
CD-25S SAFETY



P. 469 /
CD-50



P. 473 /
CD-100



P. 477 /
CD-150



P. 483 /
ACLD
UNIDIRECTIONAL
CHECK VALVES



P. 487 /
FLUID-10N
FLUID-10S SAFETY



P. 493 /
FLUID-10N-X



P. 499 /
FLUID-20N



P. 505 /
FLUID-30



P. 509 /
FLUID-210N



P. 515 /
MICRO



P. 519 /
MINI



P. 525 /
MINI-DO



P. 531 /
EUROSTANDARD
SAFETY



P. 539 /
EUROSTANDARD-DO



P. 545 /
EUROFLUID



P. 549 /
Q-10N



P. 555 /
IRT28 SAFETY

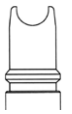
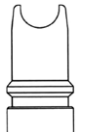
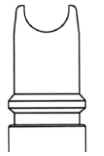
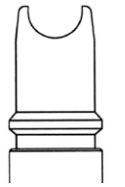


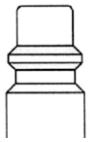
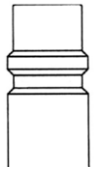
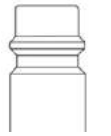
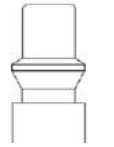
P. 559 /
CRHL12

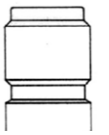
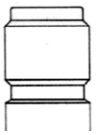


P. 565 /
CRM-55

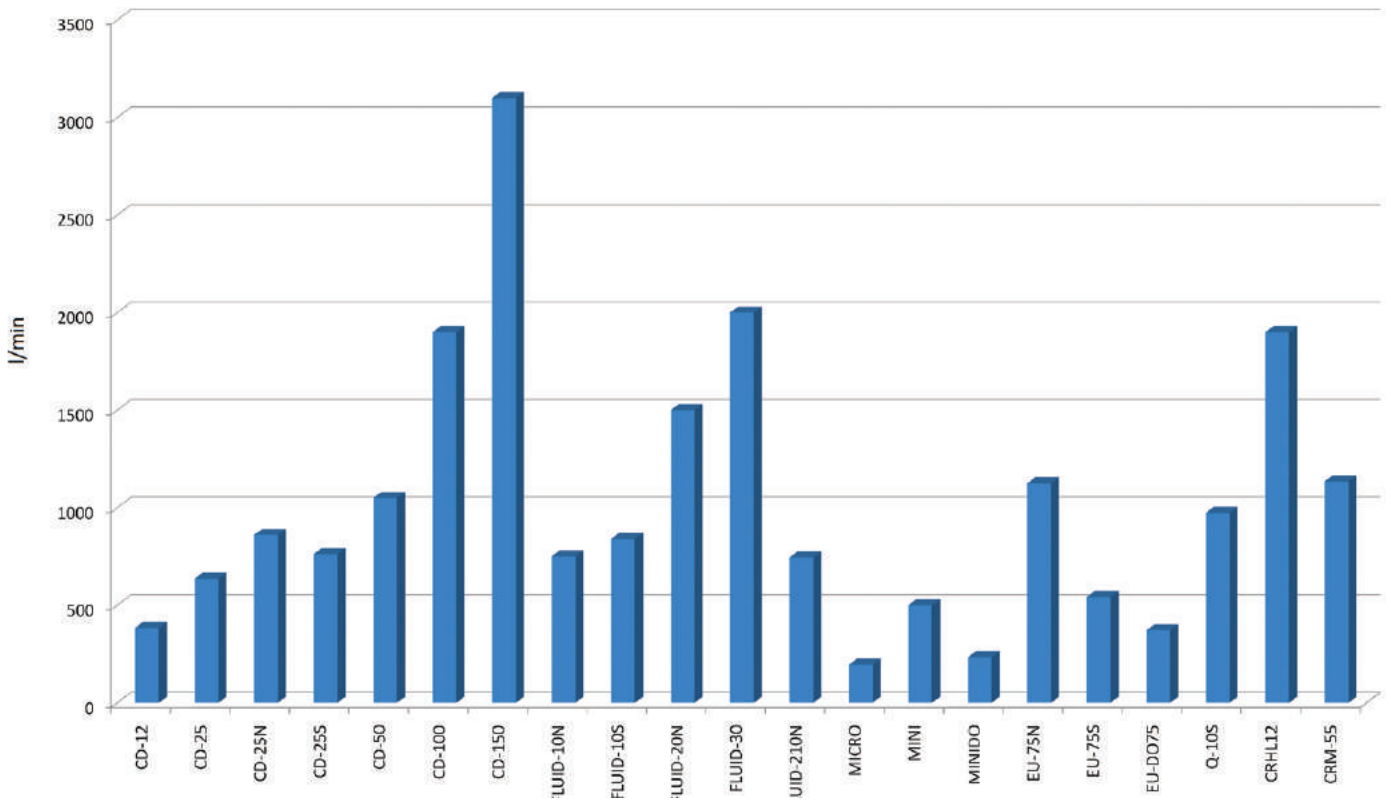
CONNECTION PROFILE

	DN 4,2	DN 5,2	DN 7	DN 10,5	DN 14
CD PROFILE					
	CD - 12	CD - 25	CD - 50	CD - 100	CD - 150

	DN 5,5	DN 8	DN 12	DN 5,5 MINI DN 4,2 - MINIDO	DN 7,5	DN 5,5
COMPATIBILE PROFILE						
	FLUID - 10N FLUID - 10S ISO6150-B-12 EUROFLUID	FLUID - 20N ISO 6150-B-15	FLIUD - 30 ISO 6150-B-17	MINI MINIDO	EU - 75N EU - 75S *Germany profile* EUROFLUID	FLUID - 210N EUROFLUID

	DN 8	DN 8,5	DN 10	DN 12,1
OTHER PROFILES				
	Q-10N	CRM	IRT-28	CRHL

FLOWS' SUMMARY CHART



MODEL	STEEL	BRASS	AISI 303	AISI 316L	SECURITY	DO	SO	PL
CD-12	X		X				X	X
CD-25	X	X	X			X	X	X
CD-25N	X						X	X
CD-25S	X				X		X	
CD-50	X	X	X			X	X	X
CD-100	X	X	X	X		X	X	X
CD-150		X	X	X		X	X	X
IRT 28				X	X			
FLUID-10N	X		X				X	X
FLUID-10S	X				X		X	
FLUID-20N		X					X	
FLUID-30		X					X	X
FLUID-210N	X						X	
MICRO		X					X	
MINI		X		X			X	
MINIDO		X		X		X		
EU-75N	X		X	X			X	X
EU-75S	X				X		X	
EU-DO75		X		X		X		
EUROFLUID	X						X	X
CRHL 12		X	X	X				X
CRM-55		X					X	X
Q-10N	X						X	

QUICK COUPLING FOR FLUIDS
CD-12

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED



p. 456 / **CD-12M**



p. 456 / **CD-12H**



p. 456 / **CD-12E**



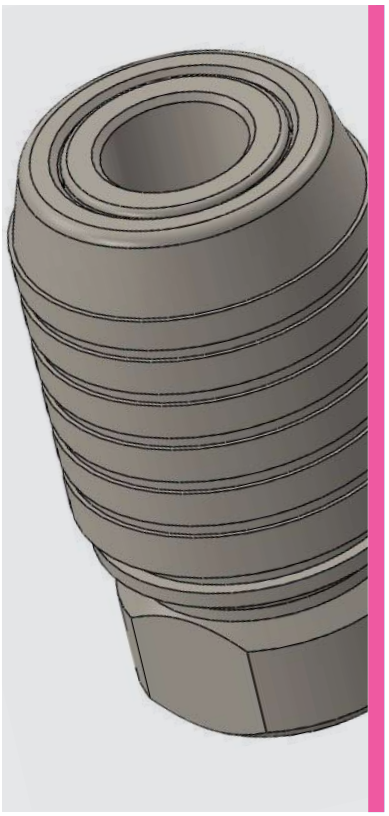
p. 456 / **ACD-12M**



p. 457 / **ACD-12H**



p. 457 / **ACD-12E**



From -10°C to +95°C
with NBR seal
From -15°C to +200°C
with VITON seal
From -40°C to +95°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

Suggest: from 0 to 12 Bar
Max: 35 Bar

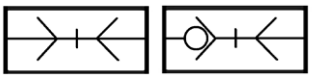
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Taper gas from R1/4" to R1/2"
Parallel gas from G1/4" to G1/2"

FLOW
384 l/min

DN 4,2 mm

CONFIGURATIONS
PL or SO



REACH

Products in compliance with the directive 2002/95/EC

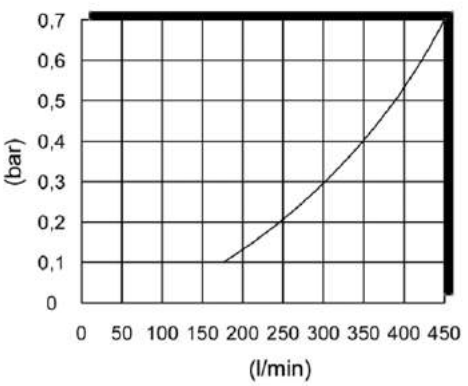
RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	CD-12	CD-12-X
Body	Nickel-plated steel	Stainless steel AISI 303
Adaptor	Nickel-plated steel	Stainless steel AISI 303
Slide	Nickel-plated steel	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon
Washer	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301
Spring	Stainless steel AISI 302	Stainless steel AISI 302

CONNECTION	ACD-12	ACD-12-X
Body	Nickel-plated steel	Stainless steel AISI 303

FLOW DROP

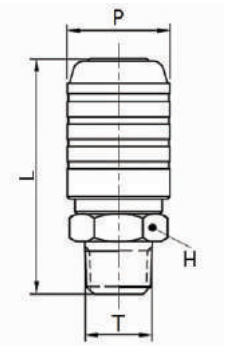


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CD-12M

Male quick coupler BSPT, DN 4.2



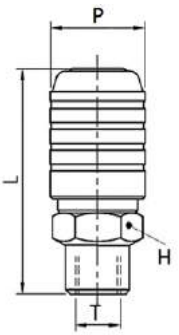


CODE	T	P	L	H
CD-12M1	R1/8"	20,5	45,5	17
CD-12M1-PL	R1/8"	20,5	45,5	17
CD-12M1-X	R1/8"	20,5	45,5	17
CD-12M1-X-PL	R1/8"	20,5	45,5	17
CD-12M	R1/4"	20,5	47,0	17
CD-12M-PL	R1/4"	20,5	47,0	17
CD-12M-X	R1/4"	20,5	47,0	17
CD-12M-X-PL	R1/4"	20,5	47,0	17

CD-12H

Female quick coupler BSPP, DN 4,2



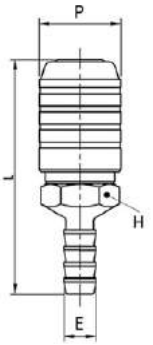


CODE	T	P	L	H
CD-12H	G1/4"	20,5	51,5	17
CD-12H-PL	G1/4"	20,5	51,5	17
CD-12H-X	G1/4"	20,5	51,5	17
CD-12H-X-PL	G1/4"	20,5	51,5	17
CD-12H1	G1/8"	20,5	48,5	17
CD-12H1-PL	G1/8"	20,5	48,5	17
CD-12H1-X	G1/8"	20,5	48,5	17
CD-12H1-X-PL	G1/8"	20,5	48,5	17

CD-12E

Quick coupler with barb connector DN 4,2



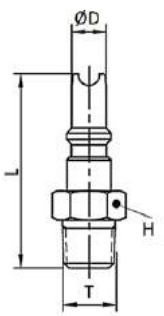


CODE	E	P	L	H
CD-12E6	7,2	20,5	58,5	17
CD-12E6-PL	7,2	20,5	58,5	17
CD-12ME6-X	7,2	20,5	58,5	17
CD-12ME6-X-PL	7,2	20,5	58,5	17
CD-12E8	9,2	20,5	58,0	17
CD-12E8-PL	9,2	20,5	58,0	17
CD-12E8-X	9,2	20,5	58,0	17
CD-12E8-X-PL	9,2	20,5	58,0	17

ACD-12M

Male connection BSPT, DN 4,2



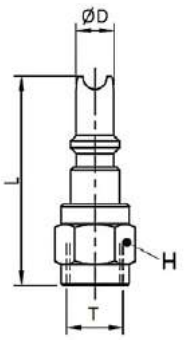


CODE	T	ØD	L	H
ACD-12M1	R1/8"	6,5	36,3	12
ACD-12M1-X	R1/8"	6,5	36,3	12
ACD-12M	R1/4"	6,5	38,3	14
ACD-12M-X	R1/4"	6,5	38,3	14

ACD-12H

Female connection BSPP, DN 4,2



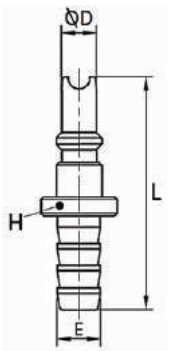


CODE	T	ØD	L	H
ACD-12H1	G1/8"	6,5	35,8	12
ACD-12H1-X	G1/8"	6,5	35,8	12
ACD-12H	G1/4"	6,5	37,8	17
ACD-12H-X	G1/4"	6,5	37,8	17

ACD-12E

Connection with barb connector, DN 4,2





CODE	E	ØD	L	H
ACD-12E6	7,2	6,5	42,3	14
ACD-12E6-X	7,2	6,5	42,3	14
ACD-12E8	9,2	6,5	42,3	14
ACD-12E8-X	9,2	6,5	42,3	14

QUICK COUPLING FOR FLUIDS
CD-25

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

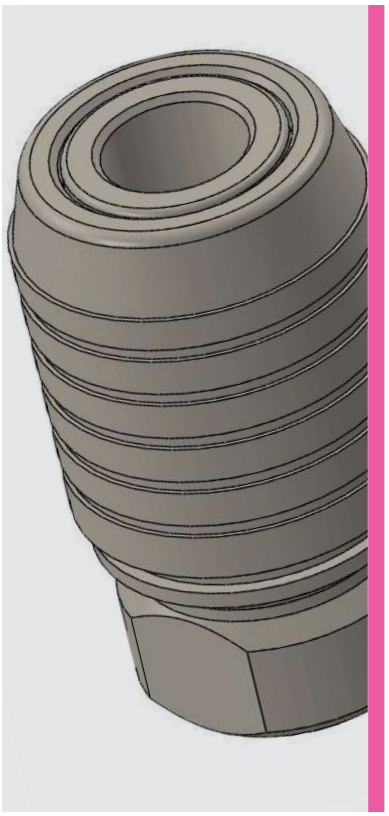
ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 303

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED
AND DOUBLE INTERCEPTED



p. 462 / **CD-25**



From -10°C to +95°C
with NBR seal
From -15°C to +200°C
with VITON seal
From -40°C to +95°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

Suggest: from 0 to 12 Bar
Max: 35 Bar

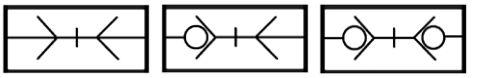
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Parallel BSPP
from G1/4" to G3/8"

FLOW
636 l/min

DN 5,2 mm

CONFIGURATIONS
PL, SO or DO



REACH

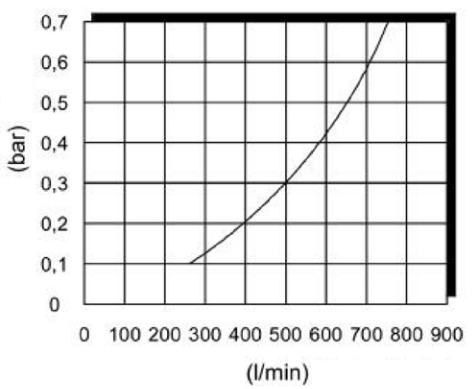
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	CD-25	CD-25-L	CD-25-X
Body	Nickel-plated steel	Brass	Stainless steel AISI 303
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302

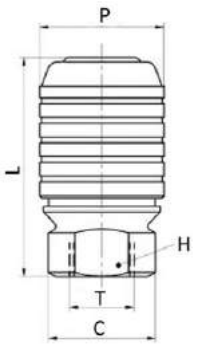
FLOW DROP



CD-25

Female quick coupler BSPP, DN 5,2





CODE	T	P	C	L	H
CD-25	G1/4″	25,5	22	45	19
CD-25-PL	G1/4″	25,5	22	45	19
CD-25-L	G1/4″	25,5	22	45	19
CD-25-L-PL	G1/4″	25,5	22	45	19
CD-25-X	G1/4″	25,5	22	45	19
CD-25-X-PL	G1/4″	25,5	22	45	19
CD-25-3/8	G3/8″	25,5	22	45	19
CD-25-3/8-PL	G3/8″	25,5	22	45	19
CD-25-3/8X	G3/8″	25,5	22	45	19
CD-25-3/8X-PL	G3/8″	25,5	22	45	19

QUICK COUPLING FOR FLUIDS

CD-25N
CD-25S

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 466 /
CD-25N-M



p. 466 /
CD-25N-H



p. 466 /
CD-25N-E



p. 466 /
CD-25N-PM



p. 467 /
CD-25S-M



p. 467 /
CD-25S-H



p. 467 /
CD-25S-E



p. 467 /
CD-25S-PM



p. 468 /
ACD-25M



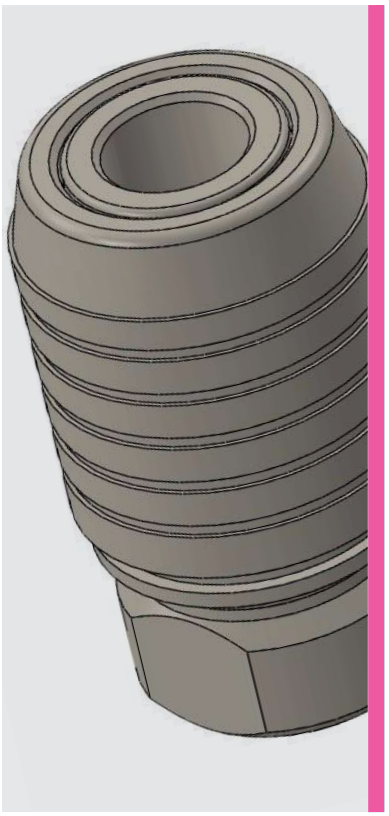
p. 468 /
ACD-25H



p. 468 /
ACD-25E



p. 468 /
ACD-25-PM



From -20°C to +100°C

Suggest:
from 0 to 12 Bar
From 0 to 7 Bar for SAFETY version
Max: 35 Bar

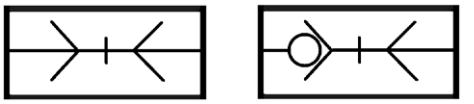
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Taper BSPT from R1/4" to R1/2"
Parallel BSPP from G1/4" to G1/2"

FLOW
860 l/min
762 l/min for SAFETY version

DN 5,2 mm

CONFIGURATIONS
PL (only for CD-25N series) or SO



REACH

Products in compliance with the directive 2002/95/EC

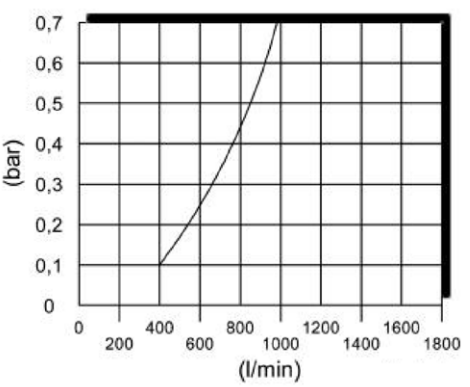
RoHS2

Products in compliance with the directive 2011/65/EU

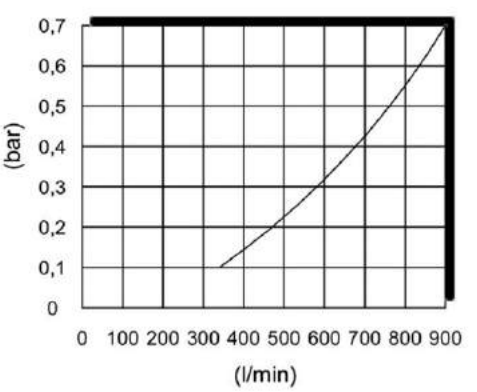
COMPONENTS	CD-25
Body	Nickel-plated steel
Adaptor	Nickel-plated brass
Slide	Nickel-plated steel
Valve	Nickel-plated brass
Seal	NBR
Ball	Chrome steel
Retaining ring	Stainless steel AISI 302
Spring	Stainless steel AISI 302

CONNECTION	ACD-25	ACD-25-L	ACD-25-X
Body	Nickel-plated steel	Nickel-plated brass	Stainless steel AISI 303

FLOW DROP CD-25N



FLOW DROP CD-25S

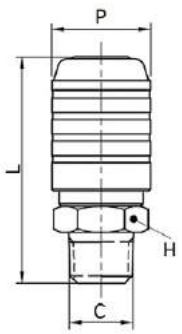


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CD-25N-M

Male quick coupler BSPT, DN 5,2



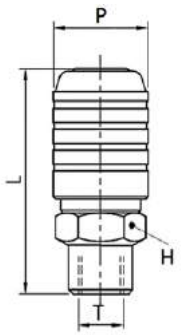


CODE	T	P	C	L	H
CD-25N-M1/4	R1/4"	23,6	21,5	52,1	19
CD-25N-M1/4-PL	R1/4"	23,6	21,5	52,1	19
CD-25N-M3/8-PL	R3/8"	23,6	21,5	53,1	19
CD-25N-M3/8-PL	R3/8"	23,6	21,5	53,1	19
CD-25N-M1/2	R1/2"	23,6	24,6	57,6	22
CD-25N-M1/2-PL	R1/2"	23,6	24,6	57,6	22
CD-25N-M1/2G	G1/2"	23,6	26,5	55,1	24
CD-25N-M1/2G-PL	G1/2"	23,6	26,5	55,1	24

CD-25N-H

Female quick coupler BSPP, DN 5,2



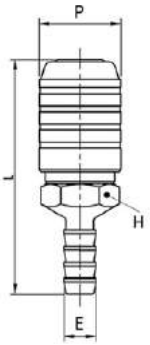


CODE	T	P	C	L	H
CD-25N-H1/4	G1/4"	23,6	21,5	50,1	19
CD-25N-H1/4-PL	G1/4"	23,6	21,5	50,1	19
CD-25N-H3/8	G3/8"	23,6	24,6	51,6	22
CD-25N-H3/8-PL	G3/8"	23,6	24,6	51,6	22
CD-25N-H1/2	G1/2"	23,6	27,5	55,8	25
CD-25N-H1/2-PL	G1/2"	23,6	27,5	55,8	25

CD-25N-E

Quick coupler with barb connector, DN 5,2



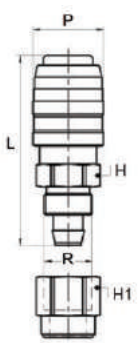


CODE	E	P	C	L	H
CD-25N-E6	7,20	23,6	21,5	59,6	19
CD-25N-E6-PL	7,20	23,6	21,5	59,6	19
CD-25N-E8	9,20	23,6	21,5	59,6	19
CD-25N-E8-PL	9,20	23,6	21,5	59,6	19
CD-25N-E10	11,20	23,6	21,5	63,6	19
CD-25N-E10-PL	11,20	23,6	21,5	63,6	19
CD-25N-E12	13,20	23,6	21,5	68,6	19
CD-25N-E12-PL	13,20	23,6	21,5	68,6	19
CD-25N-E13	13,80	23,6	21,5	68,6	19
CD-25N-E13-PL	13,80	23,6	21,5	68,6	19

CD-25N-PM

Quick coupler with push-on fitting, DN 5,2





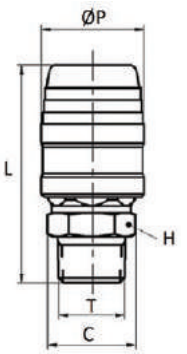
CODE	Ø TUBE	R	P	H	H1	L
CD-25N-PM08	8X12	M16X1	23,6	19	19	62,3
CD-25N-PM08-PL	8X12	M16X1	23,6	19	19	62,3
CD-25N-PM10	10X15	M20X1	23,6	22	22	67,1
CD-25N-PM10-PL	10X15	M20X1	23,6	22	22	67,1

To used with PU-PVC

CD-25S-M

Male quick coupler BSPT, DN 5,2



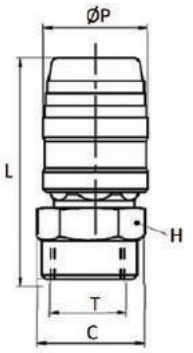


CODE	T	P	C	H	L
CD-25S-M1/4	R1/4"	26,6	21,5	19	54,1
CD-25S-M3/8	R3/8"	26,6	21,5	19	55,1
CD-25S-M1/2	R1/2"	26,6	24,6	22	59,6
CD-25S-M1/2G	G1/2"	26,6	26,5	24	57,1

CD-25S-H

Female quick coupler BSPP, DN 5,2



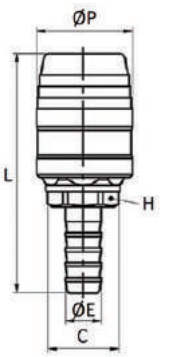


CODE	T	P	C	H	L
CD-25S-H1/4	G1/4"	26,6	21,5	19	52,1
CD-25S-H3/8	G3/8"	26,6	24,6	22	53,6
CD-25S-H1/2	G1/2"	26,6	27,5	25	57,8

CD-25S-E

Quick coupler with barb connector, DN 5,2



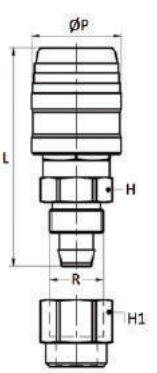


CODE	E	C	P	L	H
CD-25S-E6	7,20	21,5	26,6	61,6	19
CD-25S-E8	9,20	21,5	26,6	61,6	19
CD-25S-E10	11,20	21,5	26,6	65,6	19
CD-25S-E12	13,20	21,5	26,6	70,6	19
CD-25S-E13	13,80	21,5	26,6	70,6	19

CD-25S-PM

Quick coupler with push-on fitting, DN 5,2





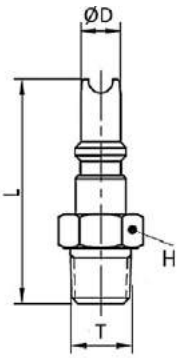
CODE	Ø TUBE	R	P	L	H	H1
CD-25S-PM08	8X12	M16X1	26,6	65,4	19	19
CD-25S-PM10	10X15	M20X1	26,6	70,2	22	22

To used with PU-PVC

ACD-25M

Male connection BSPT, DN 5,2



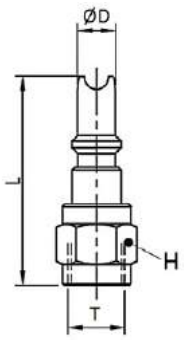


CODE	T	D	L	H
ACD-25M	R1/4"	7,9	40,8	14
ACD-25M-L	R1/4"	7,9	40,8	14
ACD-25M-X	R1/4"	7,9	40,8	14
ACD-25M-3/8	R3/8"	7,9	42,8	17
ACD-25M-3/8-X	R3/8"	7,9	42,8	17

ACD-25H

Female connection BSPP, DN 5,2



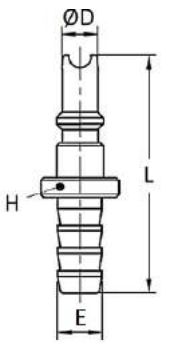


CODE	T	D	L	H
ACD-25H	G1/4"	7,9	40,3	17
ACD-25H-L	G1/4"	7,9	40,3	17
ACD-25H-X	G1/4"	7,9	40,3	17
ACD-25H-3/8	G3/8"	7,9	41,8	20

ACD-25E

Connection with barb connector, DN 5,2



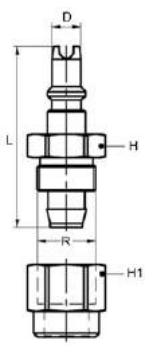


CODE	E	ØD	L	H
ACD-25E	9,2	7,9	47,0	15
ACD-25E-L	9,2	7,9	47,0	15
ACD-25E-X	9,2	7,9	47,0	15
ACD-25E-10	11,2	7,9	52,3	15

ACD-25-PM

Quick coupler with push-on fitting, DN 5,2





CODE	Ø TUBE	R	D	H	H1	L
ACD-25-PM08	8X12	M16X1	7,9	19	19	50
ACD-25-PM10	10X15	M20X1	7,9	22	22	54,7

To used with PU-PVC

QUICK COUPLING FOR FLUIDS
CD-50

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 303

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED
AND DOUBLE INTERCEPTED



p. 472 / **CD-50**



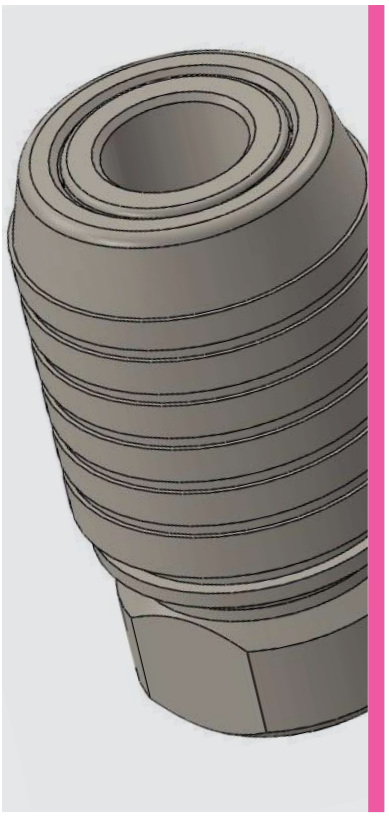
p. 472 / **ACD-50M**



p. 472 / **ACD-50H**



p. 472 / **ACD-50E**



From -10°C to +95°C
with NBR seal
From -15°C to +200°C
with VITON seal
From -40°C to +95°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

Suggest: from 0 to 12 Bar
Max: 35 Bar

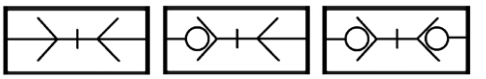
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Taper BSPT G3/8"
Parallel BSPP G3/8"

FLOW
1050 l/min

DN 7 mm

CONFIGURATIONS
PL, SO e DO



REACH

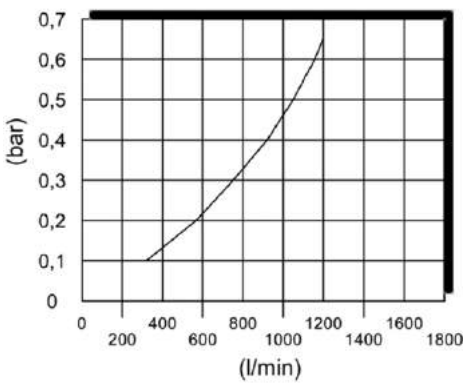
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	CD-50	CD-50-L	CD-50-X
Body	Nickel-plated steel	Brass	Stainless steel AISI 303
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
CONNECTION	**ACD-50**	**ACD-50-L**	**ACD-50-X**
Body	Nickel-plated steel	Brass	Stainless steel AISI 303

FLOW DROP

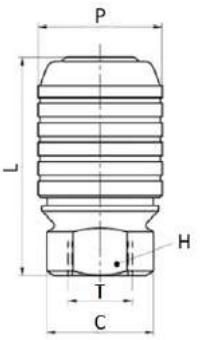


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CD-50

Female quick coupler BSPP, DN 7



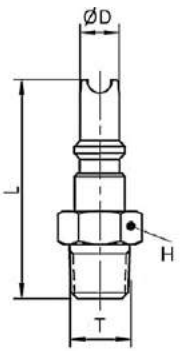


CODE	T	P	C	L	H
CD-50-L-PL	G3/8″	28,5	27	54	23
CD-50-X	G3/8″	28,5	27	54	23
CD-50-X-PL	G3/8″	28,5	27	54	23

ACD-50M

Male connection BSPT, DN 7



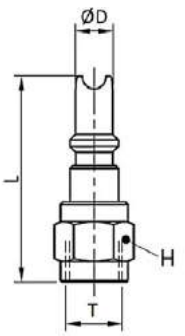


CODE	T	D	L	H
ACD-50M	R3/8″	10,3	47,5	17
ACD-50M-L	R3/8″	10,3	47,5	17
ACD-50M-X	R3/8″	10,3	47,5	17

ACD-50H

Female connection BSPP, DN 7



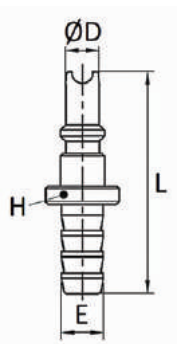


CODE	T	D	L	H
ACD-50H	G3/8″	10,3	49	22
ACD-50H-L	G3/8″	10,3	49	22
ACD-50H-X	G3/8″	10,3	49	22

ACD-50E

Connection with barb connector, DN 7





CODE	E	ØD	L	H
ACD-50E	11,2	10,3	56,5	20
ACD-50E-L	11,2	10,3	56,5	20
ACD-50E-X	11,2	10,3	56,5	20

QUICK COUPLING FOR FLUIDS
CD-100

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 303

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED
AND DOUBLE INTERCEPTED



p. 476 / **CD-100**



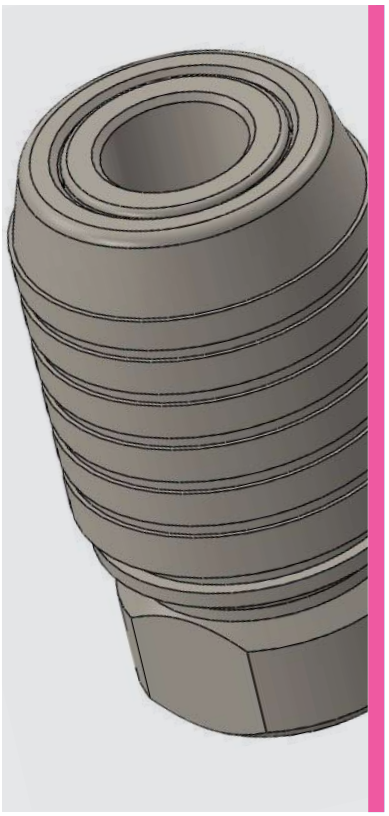
p. 476 / **ACD-100M**



p. 476 / **ACD-100H**



p. 476 / **ACD-100E**



From -10°C to +95°C
with NBR seal
From -15°C to +200°C
with VITON seal
From -40°C to +95°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

Suggest: from 0 to 12 Bar
Max: 35 Bar

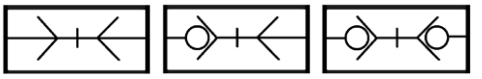
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Taper BSPT G1/2"
Parallel BSPP G1/2"

FLOW
1900 l/min

DN 10,5 mm

CONFIGURATIONS
PL, SO e DO



REACH

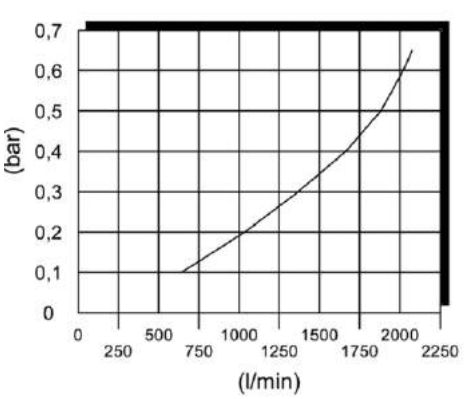
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	CD-100	CD-100-L	CD-100-X	CD-100-X-316
Body	Nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 316
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
CONNECTION	**ACD-100**	**ACD-100-L**	**ACD-100-X**	**ACD-100-X-316**
Body	Nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316

FLOW DROP

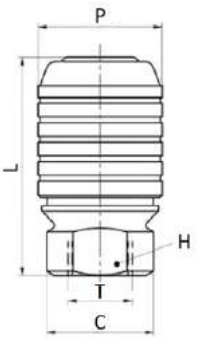


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CD-100

Female quick coupler BSPP, DN 10,5



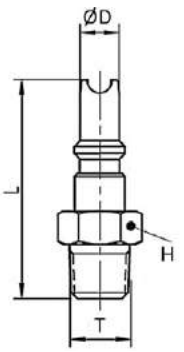


CODE	T	P	C	L	H
CD-100	G1/2"	33,5	31	61	27
CD-100-PL	G1/2"	33,5	31	61	27
CD-100-L	G1/2"	33,5	31	61	27
CD-100-L-PL	G1/2"	33,5	31	61	27
CD-100-X	G1/2"	33,5	31	61	27
CD-100-X-PL	G1/2"	33,5	31	61	27
CD-100-X-316	G1/2"	33,5	31	61	27
CD-100-X-316-PL	G1/2"	33,5	31	61	27

ACD-100M

Male quick coupler BSPT, DN 10,5



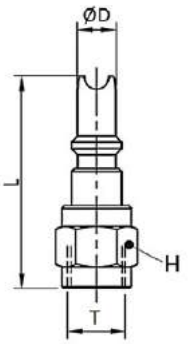


CODE	T	D	L	H
ACD-100M	R1/2"	14,3	55	22
ACD-100M-L	R1/2"	14,3	55	22
ACD-100M-X	R1/2"	14,3	55	22

ACD-100H

Female quick coupler BSPP, DN 10,5



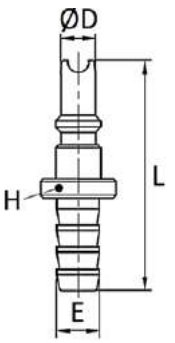


CODE	T	D	L	H
ACD-100H	G1/2"	14,3	58	27
ACD-100H-L	G1/2"	14,3	58	27
ACD-100H-X	G1/2"	14,3	58	27
ACD-100H-X-316	G1/2"	14,3	58	27

ACD-100E

Connection with barb connector, DN 10,5





CODE	E	D	L	H
ACD-100E-10	11,2	14,3	60,0	25
ACD-100E-10-L	11,2	14,3	60,0	25
ACD-100E-10X	11,2	14,3	60,0	25
ACD-100E-12X	13,2	14,3	60,0	25
ACD-100E	15,2	14,3	65,0	25
ACD-100E-L	15,2	14,3	65,0	25
ACD-100E-X	15,2	14,3	65,0	25

QUICK COUPLING FOR FLUIDS
CD-150

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 316

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED
AND DOUBLE INTERCEPTED



p. 480 / **CD-150**



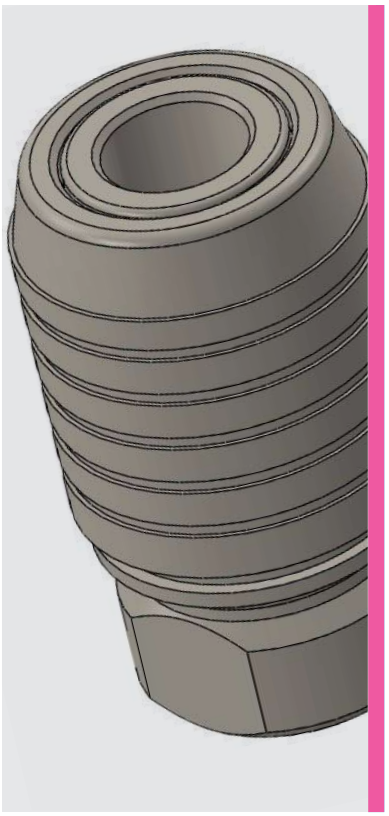
p. 480 / **ACD-150M**



p. 480 / **ACD-150H**



p. 481 / **ACD-150E**



From -10°C to +95°C
with NBR seal
From -15°C to +200°C
with VITON seal
From -40°C to +95°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

Suggest: from 0 to 12 Bar
Max: 35 Bar

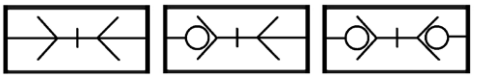
Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Taper BSPT from ¾" to 1"
Parallel BSPP from ¾" to 1"

FLOW
3100 l/min

DN 14 mm

CONFIGURATIONS
PL, SO e DO



REACH

Products in compliance with the directive 2002/95/EC

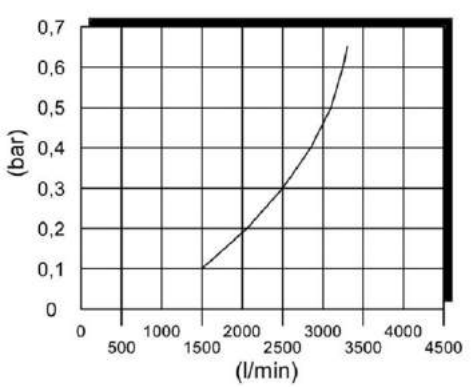
RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	CD-150-L	CD-150-X	CD-150-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Slide	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 316L
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon
Clip	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Spring	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301

CONNECTION	ACD-150-L	ACD-150-X	ACD-150-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316L

FLOW DROP

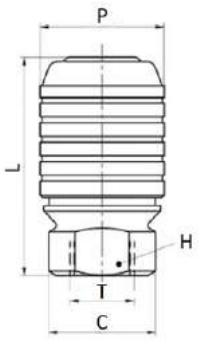


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock.

CD-150

Female quick coupler BSPP, DN 14



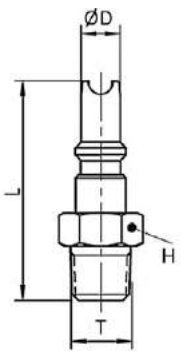


CODE	T	P	C	L	H
CD-150-L	G3/4"	44	40	85,7	34
CD-150-L-PL	G3/4"	44	40	85,7	34
CD-150-L-P	G1"	44	40	85,7	34
CD-150-L-P-PL	G1"	44	40	85,7	34
CD-150-X	G3/4"	44	40	85,7	34
CD-150-X-PL	G3/4"	44	40	85,7	34
CD-150-X-316	G3/4"	44	40	85,7	34
CD-150-X-L-P	G1"	44	42	92,7	38
CD-150-X-P	G1"	44	42	92,7	38
CD-150-X-P-PL	G1"	44	42	92,7	38
CD-150-X-316-P	G1"	44	42	92,7	38
CD-150-X-316-P-PL	G1"	44	42	92,7	38

ACD-150M

Male connection BSPT, DN 14



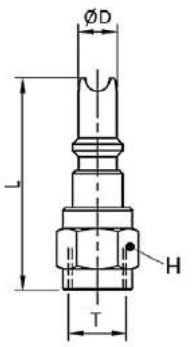


CODE	T	D	H	L
ACD-150M-L	R3/4"	19	27	74,7
ACD-150M-X	R3/4"	19	27	74,7
ACD-150M-X-316	R3/4"	19	27	74,7
ACD-150M-L-P	R1"	19	36	79,7
ACD-150M-X-P	R1"	19	36	79,7
ACD-150M-X-316-P	R1"	19	36	79,7

ACD-150H

Female connection BSPP, DN 14



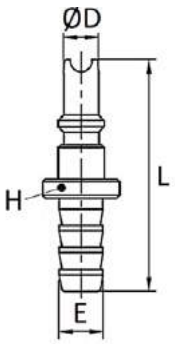


CODE	T	D	L	H
ACD-150H-L	G3/4"	19	76,7	32
ACD-150H-X	G3/4"	19	76,7	32
ACD-150H-X-316	G3/4"	19	76,7	32
ACD-150H-L-P	G1"	19	78,7	40
ACD-150H-X-P	G1"	19	78,7	41
ACD-150H-X-316-P	G1"	19	78,7	41

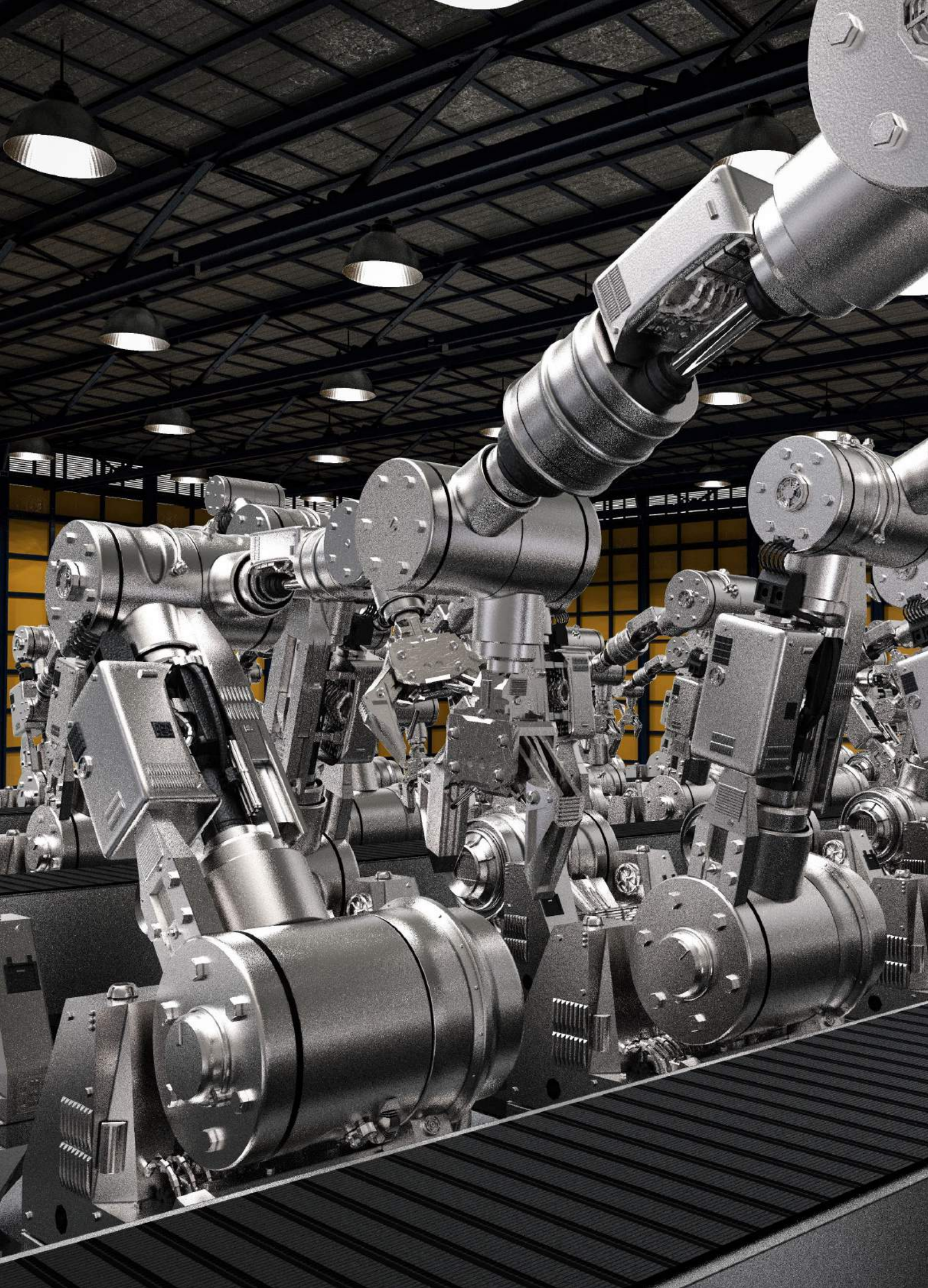
ACD-150E

Connection with barb connector, DN 14





CODE	E	D	L	H
ACD-150E-L	21	19	89,7	32
ACD-150E-X	21	19	89,7	32
ACD-150E-X-316	21	19	89,7	32



QUICK COUPLING FOR FLUIDS
ACDL

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 316



p. 486 / **ACLD-25**



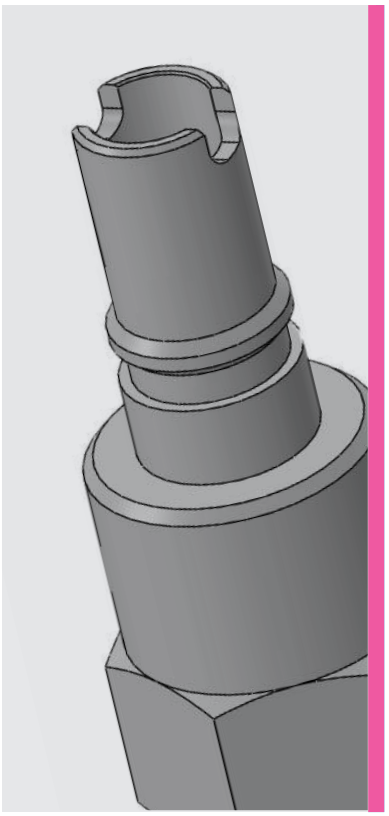
p. 486 / **ACLD-50**



p. 486 / **ACLD-100**



p. 486 / **ACLD-150**



From -20°C to +100°C with NBR seal
From -20°C to +205°C with VITON seal
From -40°C to +130°C with EPDM seal
From -60°C to +200°C with SILICONE seal

Suggest: From 0 to 12 Bar
Max: 20 Bar

Air, water, gas, vacuum, mineral and synthetic acids (not aggressive for the brass version) and fluids suitable with construction materials

Parallel BSPP from G1/4" to G1"

DN

ACLD-25 5,2mm
ACLD-50 7 mm
ACLD-100 10,5 mm
ACLD-150 14 mm

MINIMUM OPENING PRESSURE

ACLD-25	ACLD-50	ACLD-100	ACLD-150
0,30 Bar	0,30 Bar	0,08 Bar	0,1 Bar

ACLD-25 is for the CD-25 quick coupling

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

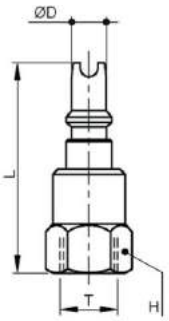
Products in compliance with the directive 2011/65/EU

COMPONENTS	ACLD-L	ACLD-X	ACLD-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Clapet	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Support clapet	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Seal	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon	NBR, Viton,EPDM,Silicon

ACLD-25

Unidirectional connection with check valve, DN 5,2





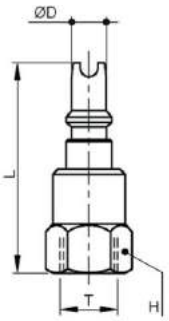
CODE	T	ØD	L	H
ACLD-25-L	G1/4"	7,9	48	17
ACLD-25-X	G1/4"	7,9	48	17

Only for CD-25
Do not used with CD-25N

ACLD-50

Unidirectional connection with check valve, DN 7



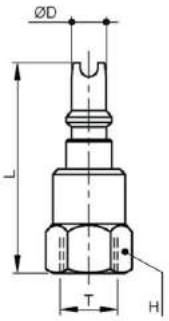


CODE	T	ØD	L	H
ACLD-50-L	G3/8"	10,3	58,5	22
ACLD-50-X	G3/8"	10,3	58,5	22

ACLD-100

Unidirectional connection with check valve, DN 10,5



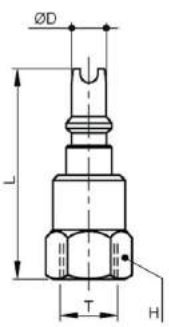


CODE	T	ØD	L	H
ACLD-100-L	G1/2"	14,3	70	27
ACLD-100-X	G1/2"	14,3	70	27

ACLD-150

Unidirectional connection with check valve, DN 14





CODE	T	ØD	L	H
ACLD-150-L	G3/4"	19	93	34
ACLD-150-X	G3/4"	19	93	36
ACLD-150X-316	G3/4"	19	93	36
ACLD-150L-P	G1"	19	93	40
ACLD-150X-P	G1"	19	93	41
ACLD-150X-316-P	G1"	19	93	41

QUICK COUPLING FOR FLUIDS

FLUID-10N
FLUID-10S

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 490 /
FLUID-10N-M



p. 490 /
FLUID-10N-H



p. 490 /
FLUID-10N-E



p. 490 /
FLUID-10N-PM



p. 491 /
FLUID-10S-M



p. 491 /
FLUID-10S-H



p. 491 /
FLUID-10S-E



p. 491 /
FLUID-10S-PM



p. 492 / **NE-10M**



p. 492 / **NE-10H**

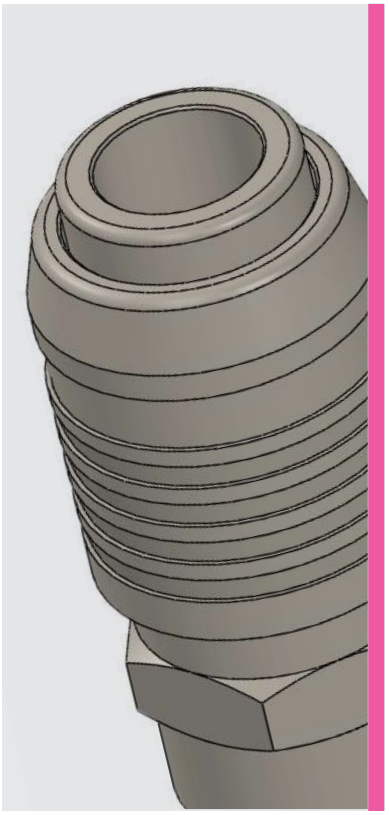


p. 492 / **NE-10E**



p. 492 / **NE-10PM**

ISO 6150 B12



From -20°C to +100°C

Suggest: From 0 to 12 Bar
From 0 to 7 Bar for SAFETY version
Max: 35 Bar

Air and not aggressive and not oxidant fluids suitable with construction materials

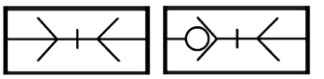
Taper BSPT from R1/4" to R1/2"
Parallel BSPP from G1/4" to G1/2"

COMPONENTS	FLUID-10N	FLUID-10S
Body	Nickel-plated steel	Nickel-plated steel
Adapter	Nickel-plated steel	Nickel-plated steel
Slide	Nickel-plated steel	Nickel-plated steel
Valve	Nickel-plated steel	Nickel-plated steel
External cartridges	-	Nickel-plated steel
Seal	NBR	NBR
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Ball	Chrome steel	Chrome steel
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302
CONNECTION	**NE-10**	
Body	Nickel-plated steel	

FLOW
750 l/min
840 l/min for SAFETY version

DN 5,5 mm

CONFIGURATIONS
PL , SO



REACH

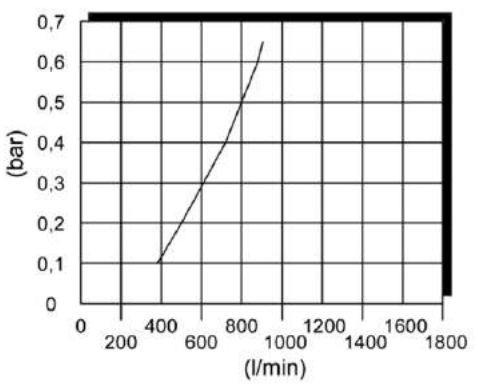
Products in compliance with the directive 2002/95/EC

RoHS2

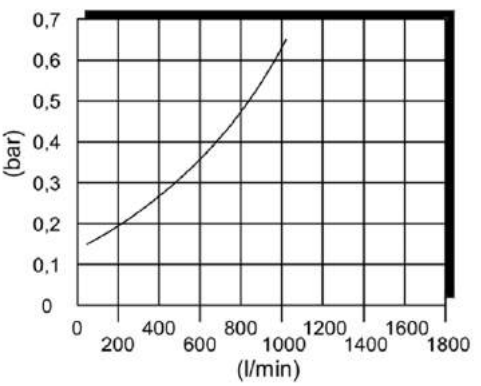
Products in compliance with the directive 2011/65/EU

FEATURES
Quick coupling system in compliance with the safety standard ISO 4414 and UNI-EN 983-1996. The disconnection phase is divided in two steps: in the first step the air is downloaded downstream, in the second step the coupling is mechanically disconnected from the connector avoiding dangerous accidental disconnections. This system has been studied in order to increase safety at work by downloading the air. Not suitable for direct connection to pneumatic devices. We recommend to use a tube of at least 30 cm lenght to absorb the device vibrations.

FLOW DROP FLUID-10N



FLOW DROP FLUID-10S

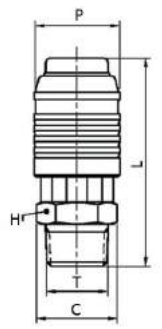


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

FLUID-10N-M

Male quick coupler DN 5,5



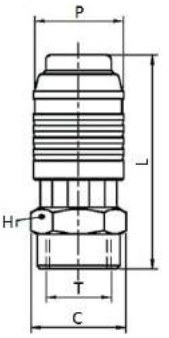


CODE	T	P	L	C	H
FLUID-10N-M1/4	R1/4"	23,4	54,5	19,0	17
FLUID-10N-M3/8	R3/8"	23,4	55,5	19,0	17
FLUID-10N-M1/2	R1/2"	23,4	60,0	24,6	22
FLUID-10N-M1/2G	G1/2"	23,4	57,5	26,5	24

FLUID-10N-H

Female quick coupler DN 5,5



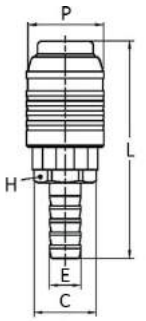


CODE	T	P	L	C	H
FLUID-10N-H1/4	G1/4"	23,4	52,5	21,5	19
FLUID-10N-H3/8	G3/8"	23,4	54,0	24,6	22
FLUID-10N-H1/2	G1/2"	23,4	58,2	27,5	25

FLUID-10N-E

Quick coupler with barb connector DN 5,5



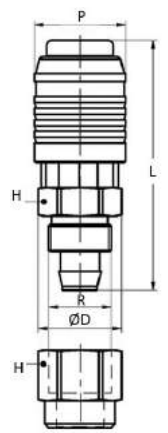


CODE	E	P	L	C	H
FLUID-10N-E6	7,20	23,4	62,0	21,5	19
FLUID-10N-E8	9,20	23,4	62,0	21,5	19
FLUID-10N-E10	11,20	23,4	66,0	21,5	19
FLUID-10N-E12	13,20	23,4	71,0	21,5	19
FLUID-10N-E13	13,80	23,4	71,0	21,5	19

FLUID-10N-PM

Joint push-on fittings DN 5,5





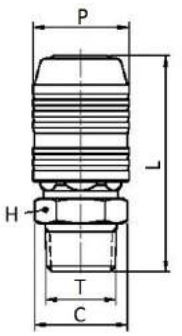
CODE	Ø TUBE	P	R	ØD	L	H
FLUID-10N-PM08	8X12	23,4	M16X1	21,3	64,7	19
FLUID-10N-PM10	10X15	23,4	M20X1	24,3	69,5	22

To used with PU-PVC

FLUID-10S-M

Safety male quick coupler DN 5,5



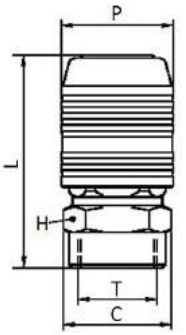


CODE	T	P	L	C	H
FLUID-10S-M1/4	R1/4"	25,6	55,7	19,0	17
FLUID-10S-M3/8	R3/8"	25,6	56,7	19,0	17
FLUID-10S-M1/2	R1/2"	25,6	61,2	24,6	22
FLUID-10S-M1/2G	G1/2"	26,6	61,2	24,6	24

FLUID-10S-H

Safety female quick coupler DN 5,5



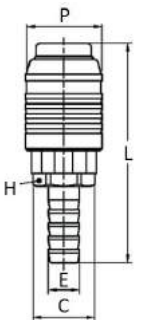


CODE	T	P	L	C	H
FLUID-10S-H1/4	G1/4"	25,6	53,7	21,5	19
FLUID-10S-H3/8	G3/8"	25,6	55,2	24,6	22
FLUID-10S-H1/2	G1/2"	25,6	59,4	27,5	25

FLUID-10S-E

Safety quick coupler with barb connector DN 5,5



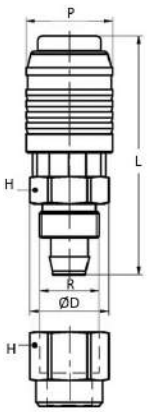


CODE	E	P	L	C	H
FLUID-10S-E6	7,2	26,6	63,2	21,5	19
FLUID-10S-E8	9,2	25,6	63,2	19	17
FLUID-10S-E10	11,2	25,6	67,2	19	17
FLUID-10S-E12	13,2	26,6	72,2	21,5	19
FLUID-10S-E13	13,8	26,6	72,2	21,5	19

FLUID-10S-PM

Safety joint push-on fitting DN 5,5





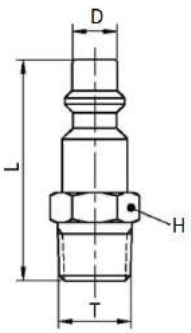
CODE	Ø TUBE	ØD	R	ØP	L	H
FLUID-10S-PM08	8X12	21,3	M16X1	26,6	64,7	19
FLUID-10S-PM10	10X15	24,3	M20X1	26,6	69,5	22

To used with PU-PVC

NE-10M

Male connection BSPT DN 5,5



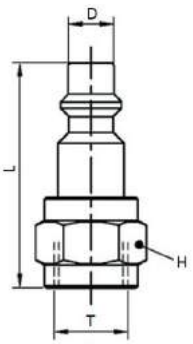


CODE	T	D	L	H
NE-10M	R1/4"	8	40,0	14
NE-10M-3/8	R3/8"	8	42,5	17
NE-10M-1/2	R1/2"	8	46,0	22

NE-10H

Female connection BSPP DN 5,5



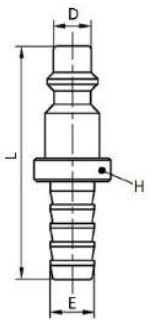


CODE	T	D	L	H
NE-10H	G1/4"	8	40,0	17
NE-10H-3/8	G3/8"	8	41,5	22
NE-10H-1/2	G1/2"	8	44,0	25

NE-10E

Connection with barb connector DN 5,5



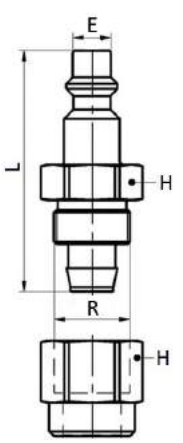


CODE	E	D	L	H
NE-10E-6	7,2	8	46	14
NE-10E-8	9,2	8	47	14
NE-10E-10	11,2	8	52	14
NE-10E-12	13,2	8	54	15

NE-10PM

Connection with push-on fitting DN 5,5





CODE	Ø TUBE	R	E	L	H
NE-10PM-08	8X12	M16X1	8	50,7	19
NE-10PM-10	10X15	M20X1	8	55,5	22

To used with PU-PVC

QUICK COUPLING FOR FLUIDS
FLUID-10N-X

PLUS

ARE INDICATED IN OXIDANT AND CORROSIVE ENVIROMENTS WITH VERSION IN AISI 303

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 496 /
FLUID-10N-M-X



p. 496 /
FLUID-10N-H-X



p. 496 /
FLUID-10N-E-X



p. 496 /
NE-10M-X

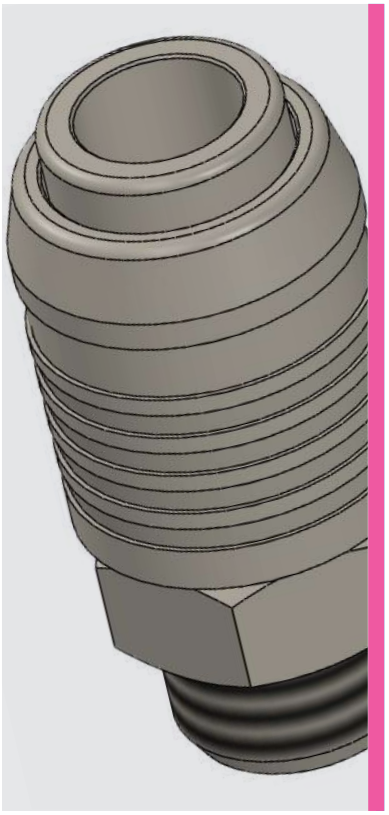


p. 497 /
NE-10H-X



p. 497 /
NE-10E-X

ISO 6150-B-12 PROFILE



From -20°C to +100°C
with NBR seal
From -20°C to +205°C
with VITON seal

Suggest: From 0 to 12 Bar
Max: 35 Bar

Air, water, grease, acids and fluid suitable with construction materials in corrosive and oxidizing environments

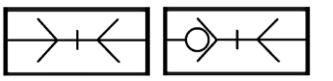
Taper BSPT
from R1/4" to R1/2"
Parallel BSPP
from G1/4" to G1/2"

COMPONENTS	FLUID-10N-X
Body	Stainless steel AISI 303
Adapter	Stainless steel AISI 303
Slide	Stainless steel AISI 303
Valve	Stainless steel AISI 303
Seal	NBR. Viton
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302
CONNECTION	**NE-10-X**
Body	Stainless steel AISI 303

FLOW
750 l/min

DN 5,5 mm

CONFIGURATIONS
PL, SO



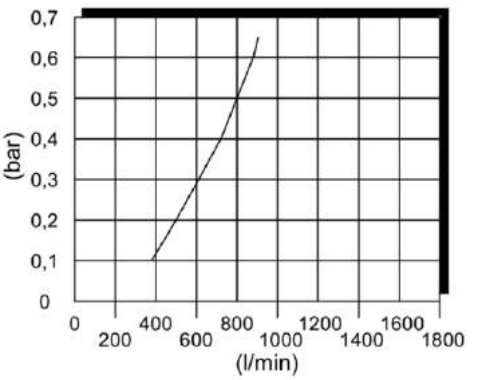
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FLOW DROP

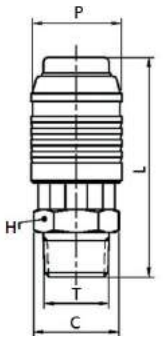


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

FLUID-10N-M-X

Male quick coupler DN 5,5



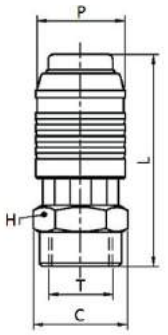


CODE	T	C	P	L	H
FLUID-10N-M1/4-X	R1/4"	21,5	23,4	54,5	19
FLUID-10N-M3/8-X	R3/8"	21,5	23,4	55,5	19
FLUID-10N-M1/2-X	R1/2"	24,6	23,4	60,0	22

FLUID-10N-H-X

Female quick coupler DN 5,5



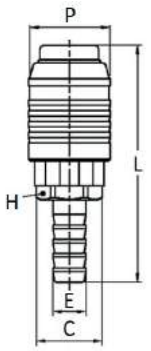


CODE	T	C	P	L	H
FLUID-10N-H1/4X	G1/4"	21,5	23,4	52,5	19
FLUID-10N-H3/8X	G1/4"	24,6	23,4	54,0	22
FLUID-10N-H1/2X	G1/2"	26,5	23,4	58,2	24

FLUID-10N-E-X

Quick coupler with barb connector DN 5,5



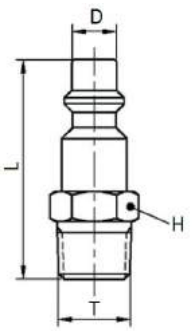


CODE	E	C	P	L	H
FLUID-10N-E8X	9,20	21,5	23,4	62,0	19
FLUID-10N-E10X	11,20	21,5	23,4	66,0	19
FLUID-10N-E12X	13,20	21,5	23,4	71,0	19

NE-10M-X

Male connection DN 5,5



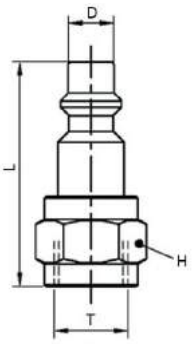


CODE	T	E	L	H
NE-10M-X	R1/4"	8	40,0	14
NE-10M-3/8-X	R3/8"	8	42,5	17
NE-10M-1/2-X	R1/2"	8	46,0	22

NE-10H-X

Female connection DN 5,5



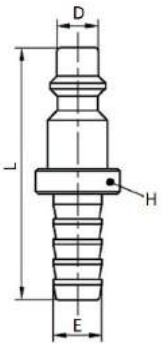


CODE	T	D	L	H
NE-10H-X	G1/4"	8	40,0	17

NE-10E-X

Connection with barb connector DN 5,5





CODE	E	D	L	H
NE-10E-X	9,20	8	47,0	14
NE-10E-10-X	11,20	8	52,0	14



QUICK COUPLING FOR FLUIDS
FLUID-20N

PLUS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH SINGLE INTERCEPTED



p. 502 /
FLUID-20N-M



p. 502 /
FLUID-20N-H



p.502 /
FLUID-20N-E



p. 502 / **NE-20M**

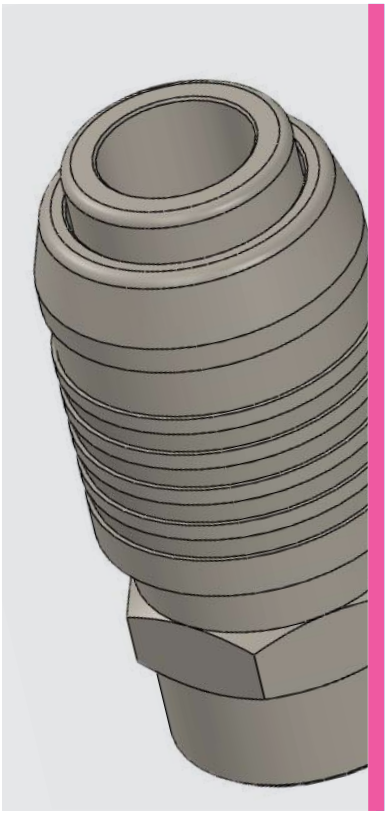


p. 503 / **NE-20H**



p. 503 / **NE-20E**

ISO 6150-B-15 PROFILE



From -20°C to +100°C

Suggest: From 0 to 12 Bar
Max: 35 Bar

Air and not aggressive and not oxidant fluids suitable with construction materials

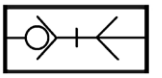
Taper BSPT
from R1/4" to R1/2"
Parallel BSPP
from G3/8" to G1/2"

COMPONENTS	FLUID-20N
Body	Nickel-plated steel
Adapter	Nickel-plated brass
Slide	Nickel-plated steel
Valve	Nickel-plated brass
Seal	NBR
Spring	Stainless steel AISI 302
Ball	Chrome steel
Retaining ring	Stainless steel AISI 302
CONNECTION	**NE-20**
Body	Nickel-plated steel

FLOW
1500 l/min

DN 8 mm

CONFIGURATIONS
SO



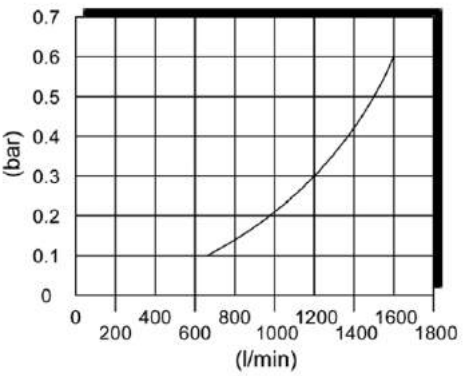
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FLOW DROP

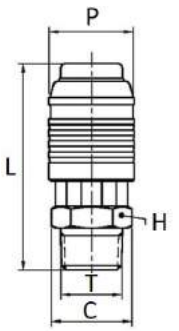


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

FLUID-20N-M

Male quick coupler DN 8



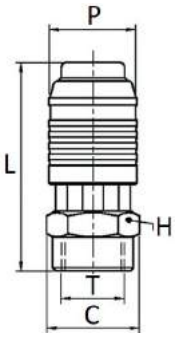


CODE	T	P	L	C	H
FLUID-20N-M3/8	R3/8"	27,6	59,5	23,2	21
FLUID-20N-M1/2	R1/2"	27,6	63,0	24,7	22

FLUID-20N-H

Female quick coupler DN 8



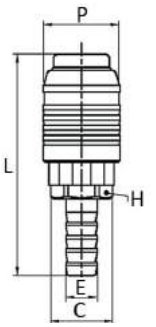


CODE	T	P	L	C	H
FLUID-20N-H3/8	R3/8"	27,6	59	24,7	22
FLUID-20N-H1/2	R1/2"	27,6	59	28,2	25

FLUID-20N-E

Quick coupler with barb connector DN 8



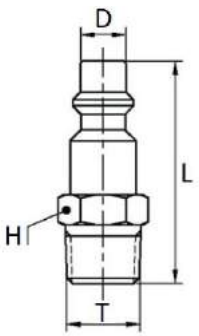


CODE	E	P	L	C	H
FLUID-20N-E10	11,2	27,6	73	23,2	21
FLUID-20N-E12	13,2	27,6	75	23,2	21

NE-20M

Male connection DN 8



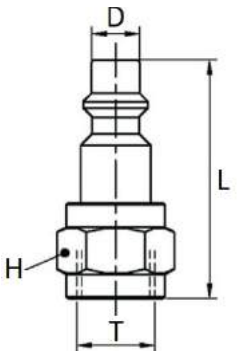


CODE	T	D	L	H
NE-20M-1/4	R1/4"	10,9	44,1	17
NE-20M	R3/8"	10,9	45,1	17
NE-20M-1/2	R1/2"	10,9	48,1	22

NE-20H

Female connection DN 8



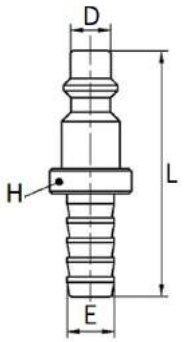


CODE	T	D	L	H
NE-20H	G3/8"	10,8	42,6	22
NE-20H-1/2	G1/2"	10,8	47,6	27

NE-20E

Connection with barb connector DN 8





CODE	E	D	L	H
NE-20E	11,2	10,8	54,1	20
NE-20E-13	14,2	10,8	59,1	20



QUICK COUPLING FOR FLUIDS
FLUID-30

PLUS

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE,
SINGLE INTERCEPTED



p. 508 / **FLUID-30**



p. 508 / **NE-30M**

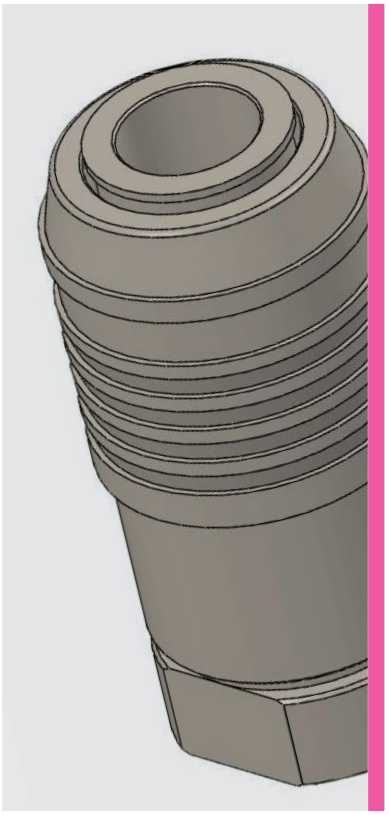


p. 508 / **NE-30H**



p. 508 / **NE-30E**

ISO 6150-B-17 PROFILE



From -20°C to +100°C

Suggest: From 0 to 12 Bar
Max: 35 Bar

Air and not aggressive and not oxidant fluids suitable with construction materials

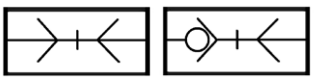
Taper BSPT R1/2
Parallel BSPP
from G3/8" to G1/2"

COMPONENTS	FLUID-30
Body	Nickel-plated steel
Slide	Nickel-plated steel
Valve	Stainless steel AISI 303
Seal	NBR
Washer	Stainless steel AISI 304
Mechanical seal	Stainless steel AISI 303
Spring	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302
CONNECTION	**NE-30**
Body	Nickel-plated steel

FLOW
2006 l/min

DN 12 mm

CONFIGURATIONS
PL, SO



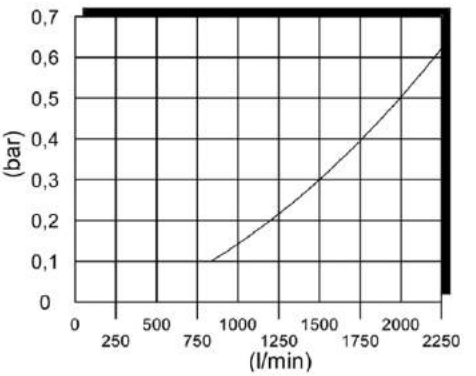
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FLOW DROP

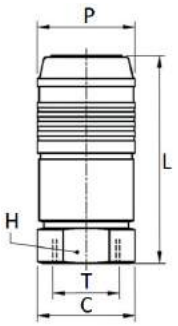


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

FLUID-30

Female quick coupler DN12



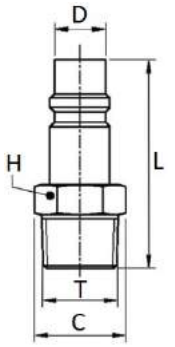


CODE	T	P	L	C	H
FLUID-30	G1/2"	30,6	65	30,6	27
FLUID-30-PL	G1/2"	30,6	65	30,6	27

NE-30M

Male connection DN12



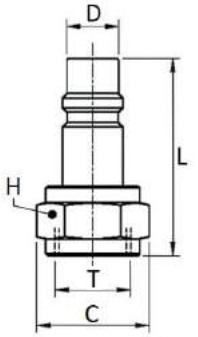


CODE	T	D	L	C	H
NE-30M	R1/2"	14,3	58,5	25,4	22

NE-30H

Female connection DN12



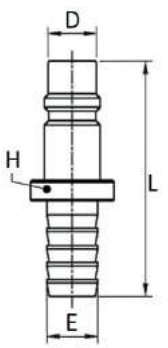


CODE	T	D	L	C	H
NE-30H-3/8	G3/8"	14,3	54	-	22
NE-30H	G1/2"	14,3	54	31,2	27

NE-30E

Connection with barb connector DN12





CODE	E	D	L	H
NE-30E	15,2	14,3	69	25

QUICK COUPLING FOR FLUIDS
FLUID-210N

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH SINGLE INTERCEPTED



p. 512 /
FLUID-210N-M



p. 512 /
FLUID-210N-H



p. 512 /
FLUID-210N-E



p. 512 /
FLUID-210N-PM



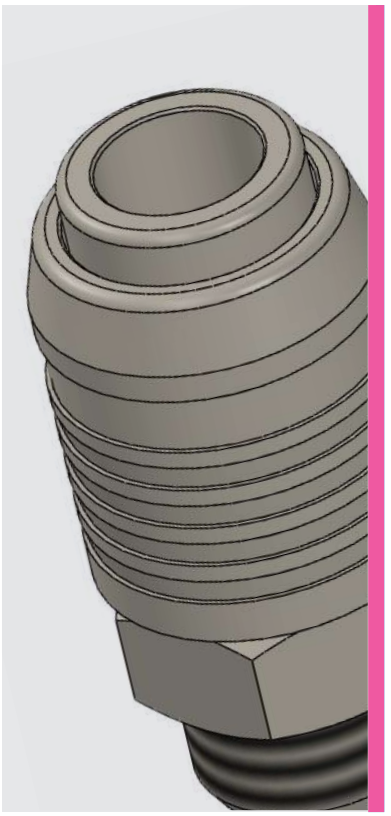
p. 513 /
AFL-210-M



p. 513 /
AFL-210-H



p. 513 /
AFL-210-E



From -20°C to +100°C

Suggest: From 0 to 12 Bar
Max: 35 Bar

Air and not aggressive and not oxidant fluids suitable with construction materials

Taper BSPT
from R1/4" to R1/2"
Parallel BSPP
from G1/4" to G1/2"

COMPONENTS	FLUID-210N
Body	Nickel-plated steel
Adapter	Nickel-plated brass
Slide	Nickel-plated steel
Valve	Nickel-plated brass
Seal	NBR
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 420
Retaining ring	Stainless steel AISI 302
CONNECTION	**AFL-210**
Body	Nickel-plated steel

FLOW
745 l/min

DN 5,5 mm

CONFIGURATIONS
SO

REACH

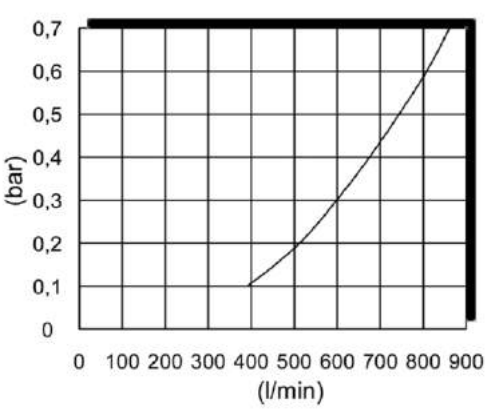
Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FEATURES
Quick coupling system in compliance with the safety standard ISO 4414 and UNI-EN 983-1996. Not suitable for direct connection to pneumatic devices. We recommend to use a tube of at least 30 cm lenght to absorb the device vibrations.

FLOW DROP FLUID-210N

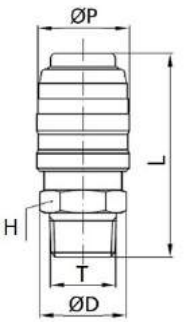


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock.

FLUID-210N-M

Male quick coupler



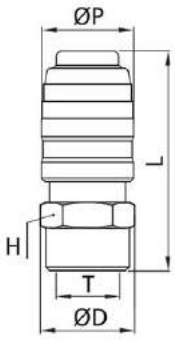


CODE	T	ØP	L	ØD	H
FLUID-210N-M1/4	R1/4"	23,6	52,1	21,5	19
FLUID-210N-M3/8	R3/8"	23,6	53,1	21,5	19
FLUID-210N-M1/2	R1/2"	23,6	57,6	24,6	22
FLUID-210N-M1/2G	G1/2"	23,6	55,1	26,5	24

FLUID-210N-H

Female quick coupler



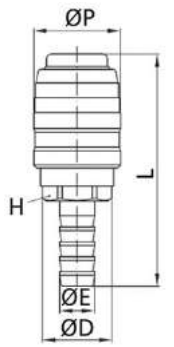


CODE	T	ØP	L	ØD	H
FLUID-210N-H1/4	G1/4"	23,6	50,1	21,5	19
FLUID-210N-H3/8	G3/8"	23,6	51,6	24,6	22
FLUID-210N-H1/2	G1/2"	23,6	55,8	27,5	25

FLUID-210N-E

Quick coupler with barb connector



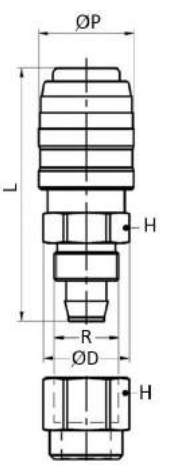


CODE	ØE	ØP	L	ØD	H
FLUID-210N-E6	7,20	23,6	59,6	21,5	19
FLUID-210N-E8	9,20	23,6	59,6	21,5	19
FLUID-210N-E10	11,20	23,6	63,6	21,5	19
FLUID-210N-E12	13,20	23,6	68,6	21,5	19
FLUID-210N-E13	13,80	23,6	68,6	21,5	19

FLUID-210N-PM

Joint push-on fitting





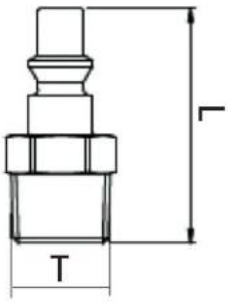
CODE	Ø TUBE	D	P	R	L	H
FLUID-210N-PM08	8X12	21,3	23,6	M16X1	62,3	19
FLUID-210N-PM10	10X15	24,3	23,6	M20X1	67,1	22

To used with PU-PVC

AFL-210-M

Male connection



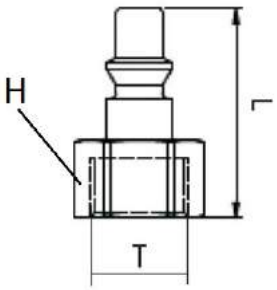


CODE	T	L
AFL-210-M	R1/4"	40,8
AFL-210-M-3/8	R3/8"	42,8

AFL-210-H

Female connection



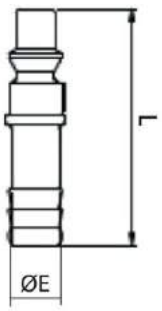


CODE	T	D	L	H
AFL-210-H	G1/4"	7,9	37,2	17

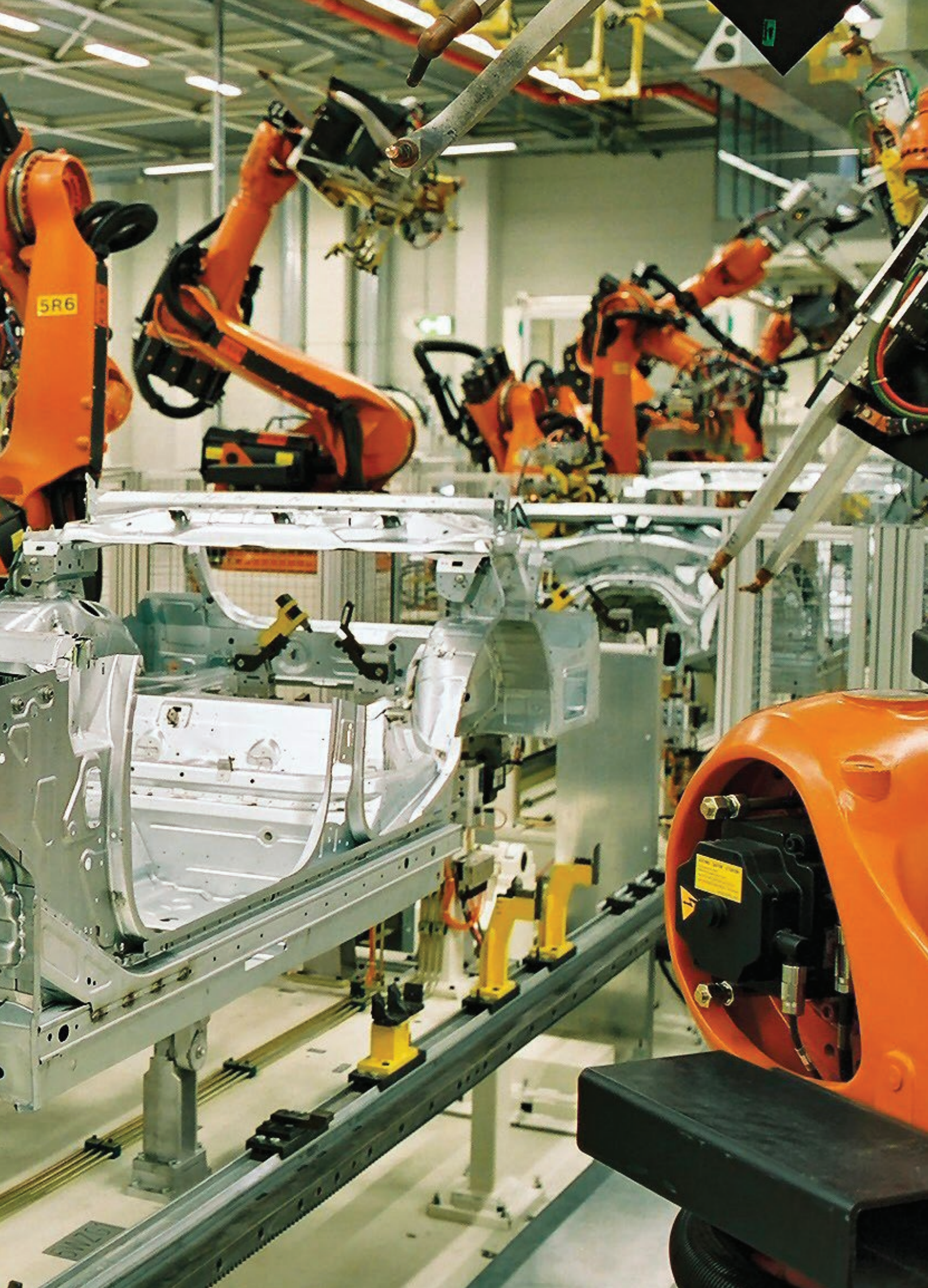
AFL-210-E

Connection with barb connector





CODE	ØE	D	L	H
AFL-210-E-8	9,2	7,9	46,2	14


5R6

QUICK COUPLING FOR FLUIDS MICRO

PLUS

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH SINGLE INTERCEPTED



p. 517 /
MICRO-HM



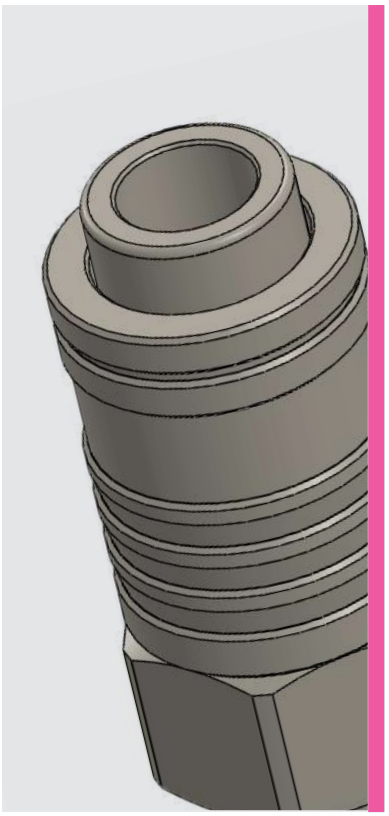
p. 518 /
MICRO-H



p. 518 / **AMC-M**



p. 518 / **AMC-H**



From -20°C to +100°C
with NBR seal
From -20°C to +205°
with VITON seal

Suggest: From 0 to 12 Bar

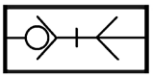
Air, water, gas, not aggressive and not oxidant acids and fluids suitable with construction materials. High resistance to organic liquids

Parallel BSPP G1/8"
Metric M5

FLOW
500 l/min

DN 2,5 mm

CONFIGURATIONS
SO



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

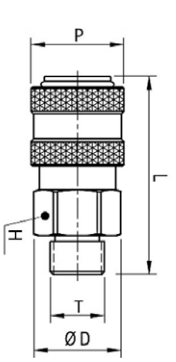
COMPONENTS	MICRO
Body	Nickel-plated brass
Adapter	Nickel-plated brass
Slide	Nickel-plated brass
Valve	Nickel-plated brass
Seal	NBR, Viton
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 420
Retaining ring	Stainless steel AISI 302

CONNECTION	AMC
Body	Nickel-plated brass

MICRO-HM

Male micro quick coupler DN 2.5



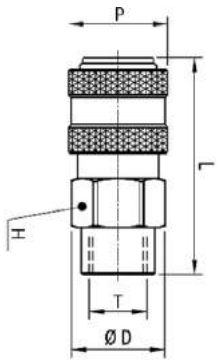


CODE	T	ØD	P	L	H
MICRO-HM508L	M5	12	16,5	32,2	11

MICRO-H

Female micro quick coupler DN 2.5



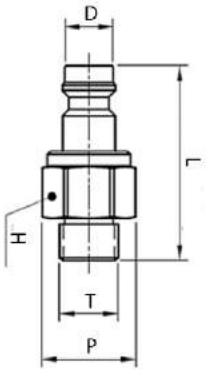


CODE	T	ØD	P	L	H
MICRO-H18-L	G1/8"	13,9	16,5	29,9	12

AMC-M

Male micro connection DN 2.5



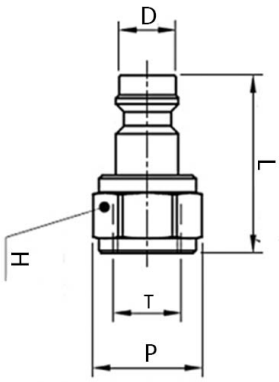


CODE	T	P	D	L	H
AMC-M5M08-L	M5	9,2	5	18,3	8

AMC-H

Female micro connection DN 2.5





CODE	T	P	D	L	H
AMC-H18-L	G1/8"	13,2	5	22,5	12

QUICK COUPLING FOR FLUIDS MINI

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 316

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH SINGLE INTERCEPTED



p. 522 / **MINI-M**



p. 522 / **MINI-H**



p. 522 / **MINI-E**



p. 522 / **MINI-MM**



p. 523 / **MINI-RR**



p. 523 / **MINI-RRR**



p. 523 / **AMN-M**



p. 523 / **AMN-H**



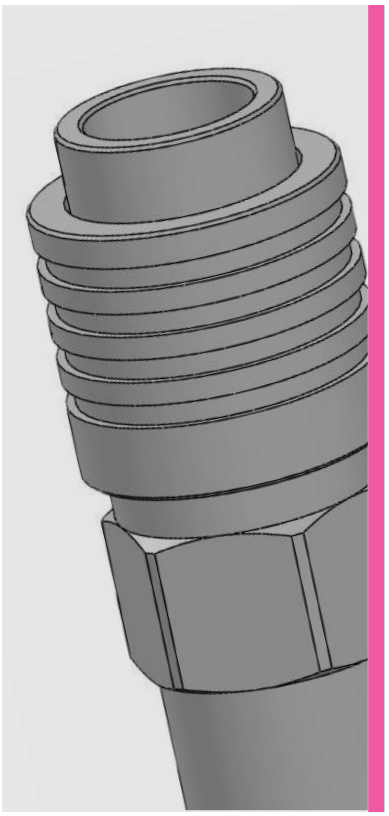
p. 524 / **AMN-E**



p. 524 / **AMN-RR**



p. 524 / **AMN-RRR**



From -20°C to +100°C
with NBR seal
From -20°C to +205°C
with VITON seal

Suggest: 12 Bar
Max: 35 Bar

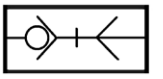
Air, water, gas, mineral and synthetic acids is not corrosive applications. It is indicated for welding and automation. The version in AISI 316 is indicated in oxidant and corrosive environments and especially in sector as food, chemical, medical, analytical laboratories, instrumentation and in the desalinization of water.

Parallel BSPP
from G1/8" to G3/8"

FLOW
500 l/min

DN 5,5 mm

CONFIGURATIONS
SO



REACH

Products in compliance with the directive 2002/95/EC

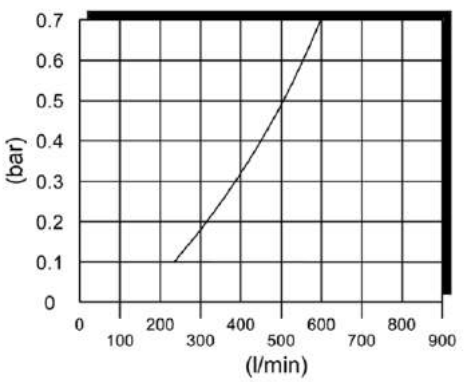
RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	MINI-L	MINI-316V
Body	Nickel-plated brass	Stainless steel AISI 316L
Slide	Nickel-plated steel	Stainless steel AISI 316L
Adapter	Nickel-plated brass	Stainless steel AISI 316L
Valve	Nickel-plated brass	Stainless steel AISI 316L
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Seal	NBR, VITON	VITON (FDA)
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316

CONNECTION	AMN-L	AMN-316
Body	Nickel-plated brass	Stainless steel AISI 316L

FLOW DROP

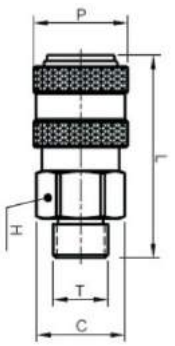


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

MINI-M

Male MINI quick coupler DN 5.5



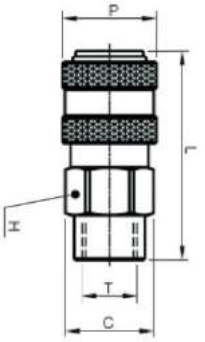


CODE	T	P	L	C	H
MINI-M1-L	G1/8"	16,5	36,2	15,7	14
MINI-M1-316V	G1/8"	16,5	36,2	15,7	14
MINI-M-L	G1/4"	16,5	38,2	15,7	14
MINI-M-316V	G1/4"	16,5	38,2	15,7	14
MINI-M3-316V	G3/8"	16,5	39,2	21	19

MINI-H

Female MINI quick coupler DN 5.5



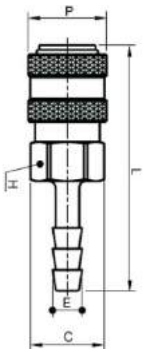


CODE	T	P	L	C	H
MINI-H1-L	G1/8"	16,5	37,2	15,7	14
MINI-H1-316V	G1/8"	16,5	37,2	15,7	14
MINI-H-L	G1/4"	16,5	39,2	19,0	17
MINI-H-316V	G1/4"	16,5	39,2	19,0	17

MINI-E

MINI quick coupler with barb connector DN 5.5



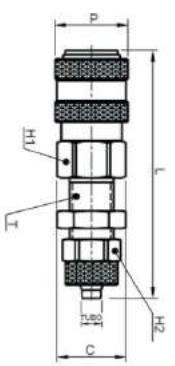


CODE	E	P	L	C	H
MINI-E6-L	6,3	16,5	48,2	15,7	14
MINI-E6-316V	6,3	16,5	48,2	15,7	14
MINI-E8-L	8,3	16,5	48,2	15,7	14
MINI-E8-316V	8,3	16,5	48,2	15,7	14

MINI-MM

Bulkhead push-on MINI quick coupler DN 5.5



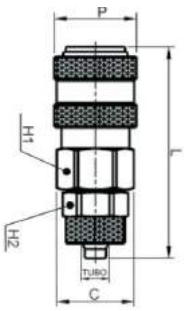


CODE	Ø	T	P	L	C	H1	H2
MINI-MM6-L	6X4	M10X1	16,5	56,7	15,7	14	12
MINI-MM6-316V	6X4	M10X1	16,5	56,7	15,7	14	13
MINI-MM8-L	8X6	M12X1	16,5	56,7	15,7	14	14
MINI-MM8-316V	8X6	M12X1	16,5	56,7	15,7	14	14

MINI-RR

Push-on MINI quick coupler DN 5.5



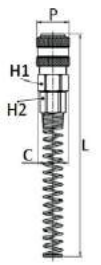


CODE	Ø	P	L	C	H1	H2
MINI-RR6-L	6X4	16,5	43,2	15,7	14	12
MINI-RR8-L	8X6	16,5	43,2	15,7	14	14

MINI-RRR

MINI quick coupler with spring DN 5.5



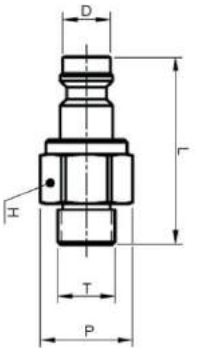


CODE	Ø	P	L	C	H1	H2
MINI-RR6R-L	6X4	16,5	124,7	15,7	14	12
MINI-RR8R-L	8X6	16,5	123,2	15,7	14	14

AMN-M

Male MINI connection DN 5.5



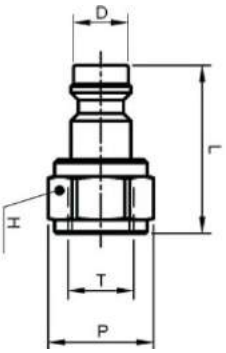


CODE	T	P	L	D	H
AMN-M1-L	G1/8"	15,7	32,1	8,1	14
AMN-M1-316	G1/8"	15,7	32,1	8,1	14
AMN-M-L	G1/4"	15,7	34,1	8,1	14
AMN-M-316	G1/4"	15,7	34,1	8,1	14

AMN-H

Female MINI connection DN 5.5



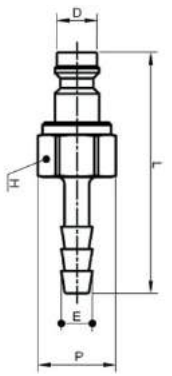


CODE	T	P	L	D	H
AMN-H1-L	G1/8"	15,7	25,1	8,1	14
AMN-H1-316	G1/8"	15,7	25,1	8,1	14
AMN-H-L	G1/4"	19,0	29,1	8,1	17
AMN-H-316	G1/4"	19,0	29,1	8,1	17

AMN-E

MINI connection with barb connector DN 5.5



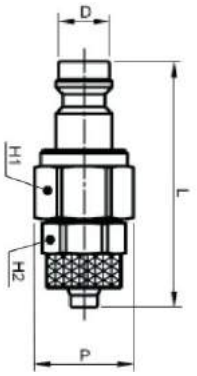


CODE	E	P	L	D	H
AMN-E6-L	6,3	15,7	44,1	8,1	14
AMN-E8-L	8,3	15,7	44,1	8,1	14

AMN-RR

Push-on MINI connection DN 5.5



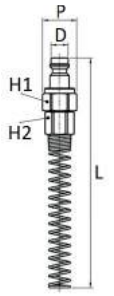


CODE	TUBE	P	L	D	H1	H2
AMN-RR6-L	6X4	15,7	39,1	8,1	14	12
AMN-RR8-L	8X6	15,7	39,1	8,1	14	14
AMN-RR8-316	8X6	15,7	39,1	8,1	14	14

AMN-RRR

MINI connection with spring DN 5.5





CODE	TUBE	P	L	D	H1	H2
AMN-RR6R-L	6X4	15,7	120,6	8,1	14	12
AMN-RR8R-L	8X6	15,7	119,1	8,1	14	14

QUICK COUPLING FOR FLUIDS
MINI-DO

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

DIFFERENT MATERIALS FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT AND CORROSIVE ENVIROMENTS WITH VERSION IN AISI 316

EASY HANDLING AND CONNECTION/DISCONNECTION

DOUBLE INTERCEPTED



p. 528 /
MINIDO-M



p. 528 /
MINIDO-H



p. 528 /
MINIDO-E



p. 528 /
MINIDO-MM



p. 529 /
MINIDO-RR



p. 529 /
MINIDO-RRR



p. 529 /
AMNDO-M



p. 529 /
AMNDO-H



p. 530 /
AMNDO-E



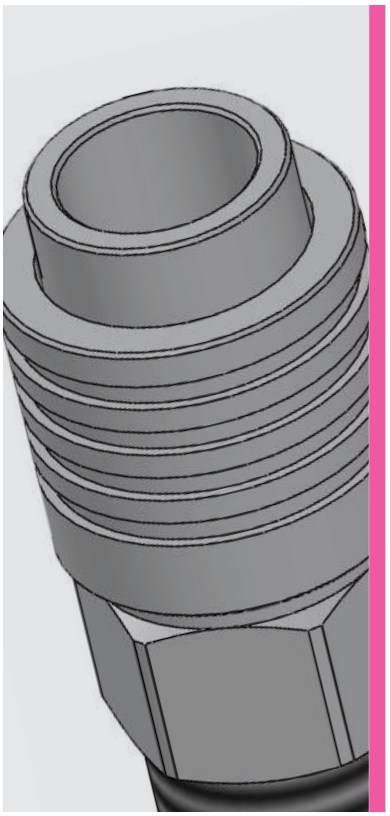
p. 530 /
AMNDO-MM



p. 530 /
AMNDO-RR



p. 530 /
AMNDO-RRR



From -20°C to +100°C
with NBR seal
From -20°C to +205°C
with VITON seal

Suggest: From 0 to 12 Bar
Max: 35 Bar

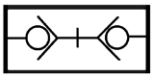
Air, water, gas, mineral and synthetic acids is not corrosive applications. It is indicated for welding and automation. The version in AISI 316 is indicated in oxidant and corrosive environments and especially in sector as food, chemical, medical, analytical laboratories, instrumentation and in the desalinization of water.

Parallel BSPP
from G1/8" to G3/8"

FLOW
233 l/min

DN 4,2 mm

CONFIGURATIONS
DO



REACH

Products in compliance with the directive 2002/95/EC

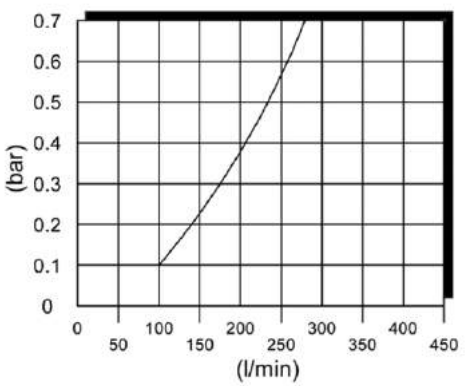
RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	MINIDO-L	MINIDO-316V
Body	Nickel-plated brass	Stainless steel AISI 316L
Slide	Nickel-plated steel	Stainless steel AISI 316L
Adapter	Nickel-plated brass	Stainless steel AISI 316L
Valve	Nickel-plated brass	Stainless steel AISI 316L
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Seal	NBR, VITON	VITON (FDA)
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316

CONNECTORS	AMNDO-L	AMNDO-316V
Body	Nickel-plated brass	Stainless steel AISI 316L
Adapter	Nickel-plated brass	Stainless steel AISI 316L
Valve	Nickel-plated brass	Stainless steel AISI 316L
Seal	NBR, VITON	VITON (FDA)
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Seal	NBR, VITON	VITON (FDA)
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316

FLOW DROP

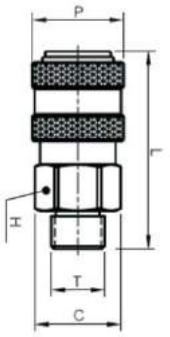


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock.

MINIDO-M

Male MINI quick co upler DN 4,2



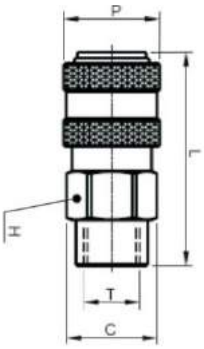


CODE	T	P	L	C	H
MINIDO-M1-L	G1/8"	16,5	36,2	15,7	14
MINIDO-M1-316V	G1/8"	16,5	36,2	15,7	14
MINIDO-M-L	G1/4"	16,5	38,2	15,7	14
MINIDO-M-316V	G1/4"	16,5	38,2	15,7	14
MINIDO-M3-316V	G3/8"	16,5	39,2	21	19

MINIDO-H

Female MINI quick coupler DN 4,2



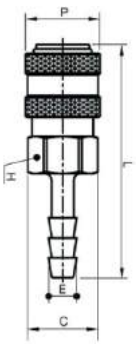


CODE	T	P	L	C	H
MINIDO-H1-L	G1/8"	16,5	37,2	15,7	14
MINIDO-H1-316V	G1/8"	16,5	37,2	15,7	14
MINIDO-H-L	G1/4"	16,5	39,2	19,0	19
MINIDO-H-316V	G1/4"	16,5	39,2	19,0	19

MINIDO-E

MINI quick coupler with barb connecto DN 4,2



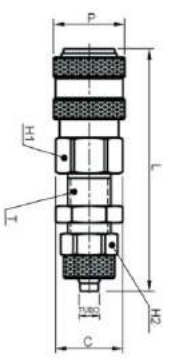


CODE	E	P	L	C	H
MINIDO-E6-L	6,3	16,5	48,2	15,7	14
MINIDO-E6-316V	6,3	16,5	48,2	15,7	14
MINIDO-E8-L	8,3	16,5	48,2	15,7	14
MINIDO-E8-316V	8,3	16,5	48,2	15,7	14

MINIDO-MM

Bulkhead-push on MINI quick coupler DN 4,2



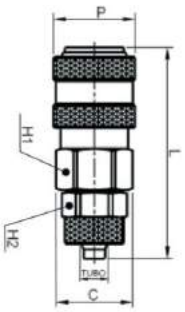


CODE	Ø TUBE	T	P	L	C	H1	H2
MINIDO-MM6-L	6X4	M10X1	16,5	56,7	15,7	14	12
MINIDO-MM6-316V	6X4	M10X1	16,5	56,7	15,7	14	13
MINIDO-MM8-L	8X6	M12X1	16,5	56,7	15,7	14	14
MINIDO-MM8-316V	8X6	M12X1	16,5	56,7	15,7	14	14

MINIDO-RR

Push on MINI quick coupler DN 4,2



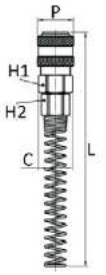


CODE	Ø	P	L	C	H1	H2
MINIDO-RR6-L	6X4	16,5	43,2	15,7	14	12
MINIDO-RR8-L	8X6	16,5	43,2	15,7	14	14

MINIDO-RRR

MINI quick coupler with spring DN 4,2



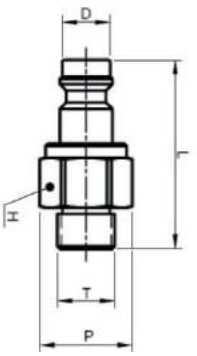


CODE	Ø	P	L	C	H1	H2
MINIDO-RR6R-L	6X4	16,5	124,7	15,7	14	12
MINIDO-RR8R-L	8X6	16,5	123,2	15,7	14	14

AMNDO-M

Male MINI connection with shutter DN 4,2



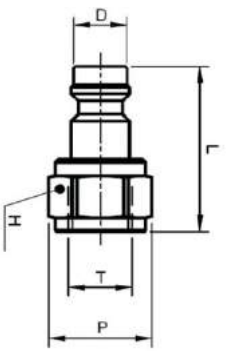


CODE	T	P	L	D	H
AMNDO-M1-L	G1/8"	15,7	40,1	8,1	14
AMNDO-M1-316V	G1/8"	15,7	40,1	8,1	14
AMNDO-M-L	G1/4"	15,7	42,1	8,1	14
AMNDO-M-316V	G1/4"	15,7	42,1	8,1	14
AMNDO-M3-316V	G3/8"	21,0	43,1	8,1	19

AMNDO-H

Female MINI connection with shutter DN 4,2



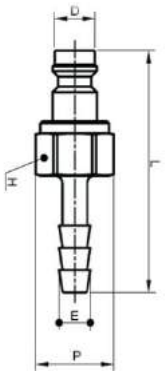


CODE	T	P	L	D	H
AMNDO-H1-L	G1/8"	15,7	41,1	8,1	14
AMNDO-H1-316V	G1/8"	15,7	41,1	8,1	14
AMNDO-H-L	G1/4"	19,0	43,1	8,1	17
AMNDO-H-316V	G1/4"	19,0	43,1	8,1	17

AMNDO-E

MINI connection with shutter with barb connector DN 4,2



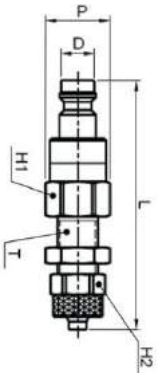


CODE	E	P	L	D	H
AMNDO-E6-L	6,3	15,7	52,1	8,1	14
AMNDO-E6-316V	6,3	15,7	52,1	8,1	14
AMNDO-E8-L	8,3	15,7	52,1	8,1	14
AMNDO-E8-316V	8,3	15,7	52,1	8,1	14

AMNDO-MM

Bulkhead push-on MINI connection with shutter DN 4,2



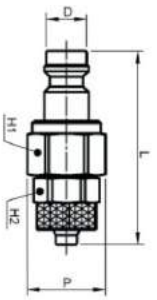


CODE	TUBE	T	P	L	H1	H2
AMNDO-MM6-L	6X4	M10X1	15,7	60,6	14	12
AMNDO-MM6-316V	6X4	M10X1	15,7	60,6	14	13
AMNDO-MM8-L	8X6	M12X1	15,7	60,6	14	14

AMNDO-RR

Push on MINI connection with shutter DN 4,2



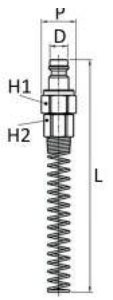


CODE	TUBE	P	L	D	H1	H2
AMNDO-RR6-L	6X4	15,7	47,1	8,1	14	12
AMNDO-RR8-L	8X6	15,7	47,1	8,1	14	14

AMNDO-RRR

MINI connection with shutter with spring DN 4,2





CODE	TUBE	P	L	D	H1	H2
AMNDO-RR6R-L	6X4	15,7	128,8	8,1	14	12
AMNDO-RR8R-L	8X6	15,7	127,1	8,1	14	14

QUICK COUPLING FOR FLUIDS
EUROSTANDARD

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

DIFFERENT MATERIALS FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT AND CORROSIVE ENVIROMENTS WITH VERSION IN AISI 316

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 534 /
EU-75N-M



p. 534 /
EU-75N-H



p. 534 /
EU-75N-E



p. 535 /
EU-75N-PM



p. 535 /
EU-75S-M



p. 535 /
EU-75S-H



p. 536 /
EU-75S-E



p. 536 /
EU-75S-PM



p. 536 /
AEU-75M



p. 537 /
AEU-75H

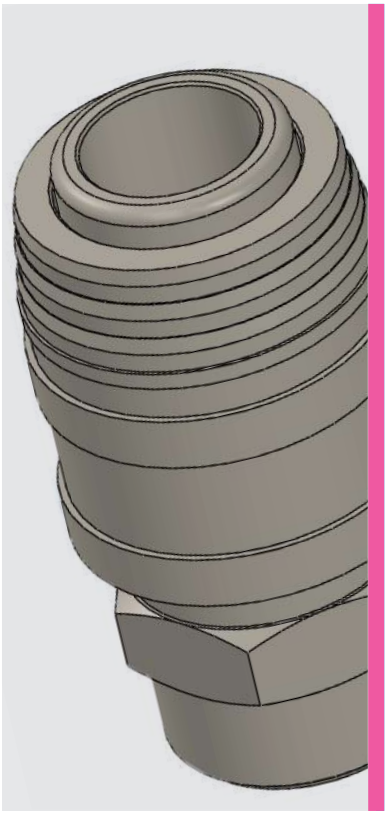


p. 537 /
AEU-75E



p. 537 /
AEU-75PM

GERMANY PROFILE



From -20°C to +100°C
with NBR seal
From -20°C to +205°C
with VITON seal
From -40°C to +130°C
with EPDM seal
From -60°C to +200°C
with SILICONE seal

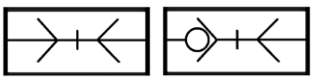
Suggest: From 0 to 12 Barr
From 0 to 7 Bar for SAFETY version
Max: 35 Bar

FLOW
1125 l/min
542 l/min for SAFETY version

DN 7,6 mm

Parallel BSPP
from G1/4" to G1/2"
Taper BSP from R1/4" to R1/2"

CONFIGURATIONS
PL (only for EUROSTANDARD no safety), SO



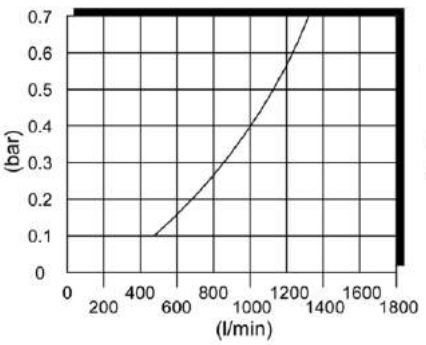
REACH
Products in compliance with
the directive 2002/95/EC

RoHS2
Products in compliance with
the directive 2011/65/EU

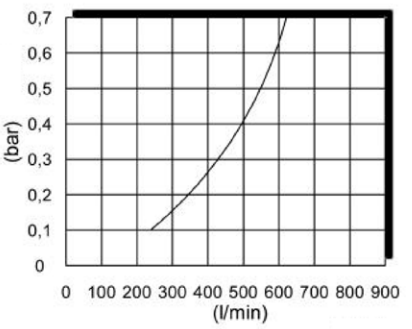
Quick coupling Germany/European profile for pneumatic applications, in general for not aggressive and not oxidant fluids. T hey are indicated, especially for applications with pneumatic tools, compressed air equipment and industrial machineries. The version in AISI 316L is indicated in oxidant and corrosive environments and especially in sector as food, chemical, medical, analytical laboratories, instrumentation and desalinization of water. Easy handling, connection - disconnection with one hand.

Suitable for pneumatic applications in general. In conformity with the safety standards ISO 4414:2011. Especially suitable for applications with pneumatic tools, compressed air equipments and industrial machineries. Not suitable for direct connection to pneumatic devices. We recommend to use a tube of at least 30 cm lenght to absorb the device vibrations.

FLOW DROP EUROSTANDARD



FLOW DROP EUROSTANDARD SAFETY



All charts have been created considering a pressure of 6 Bar
with low drop of 0.5 bar and simple lock

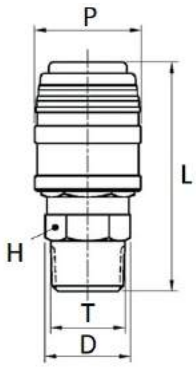
COMPONENTS	EU-75N	EU-75S	EU-75N-X	EU-75N-316
Body	Nickel-plated steel	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316L
Slide	Nickel-plated steel	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316L
Adapter	Nickel-plated brass	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316L
Valve	Nickel-plated brass	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316L
Ball	Chrome steel	Chrome steel	Stainless steel AISI 316	Stainless steel AISI 316
Seal	NBR, VITON, VITON (FDA), EPDM, SILICON	NBR	NBR, VITON, VITON (FDA), EPDM, SILICON	NBR, VITON, VITON (FDA), EPDM, SILICON
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302

CONNECTION	AEU-75	AEU-75-X	AEU-75-316
Body	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316L

EU- 75N-M

Male quick coupler



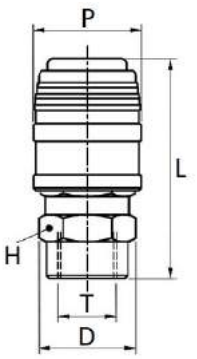


CODE	T	P	L	D	H
EU-75N-M1/4	R1/4"	24,4	51,7	21,5	19
EU-75N-M1/4-X	R1/4"	24,4	51,7	21,5	19
EU-75N-M1/4-316V	R1/4"	24,4	51,7	21,5	19
EU-75N-M3/8	R3/8"	24,4	52,7	21,5	19
EU-75N-M3/8-X	R3/8"	24,4	52,7	21,5	19
EU-75N-M3/8-316V	R3/8"	24,4	52,7	21,5	19
EU-75N-M1/2	R1/2"	24,4	57,2	24,6	22
EU-75N-M1/2-X	R1/2"	24,4	57,2	24,6	22
EU-75N-M1/2-316V	R1/2"	24,4	57,2	24,6	22
EU-75N-M1/2G	G1/2"	24,4	54,7	26,5	24

EU-75N-H

Female quick coupler



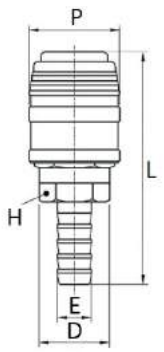


CODE	T	P	L	D	H
EU-75N-H1/4	G1/4"	24,4	49,7	21,5	19
EU-75N-H1/4-X	G1/4"	24,4	49,7	21,5	19
EU-75N-H1/4-316V	G1/4"	24,4	49,7	21,5	19
EU-75N-H3/8	G3/8"	24,4	51,2	24,6	22
EU-75N-H3/8-X	G3/8"	24,4	51,2	24,6	22
EU-75N-H3/8-316V	G3/8"	24,4	51,2	24,6	22
EU-75N-H1/2	G1/2"	24,4	55,4	27,5	25
EU-75N-H1/2-X	G1/2"	24,4	26,5	24	-
EU-75N-H1/2-316V	G1/2"	24,4	26,5	24	-

EU-75N-E

Quick coupler with barb connector



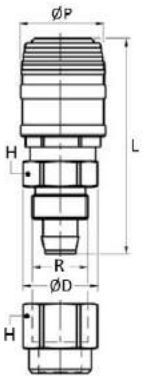


CODE	E	L	D	P	H
EU-75N-E6	7,20	59,2	21,5	24,4	19
EU-75N-E8	9,20	59,2	21,5	24,4	19
EU-75N-E8-X	9,20	59,2	21,5	24,4	19
EU-75N-E8-316V	9,20	59,2	21,5	24,4	19
EU-75N-E10	11,20	63,2	21,5	24,4	19
EU-75N-E10-X	11,20	63,2	21,5	24,4	19
EU-75N-E10-316V	11,20	63,2	21,5	24,4	19
EU-75N-E12	13,20	68,2	21,5	24,4	19
EU-75N-E12-X	13,20	-	21,5	24,4	19
EU-75N-E13	13,80	68,2	21,5	24,4	19

EU-75N-PM

Joint push-on fitting





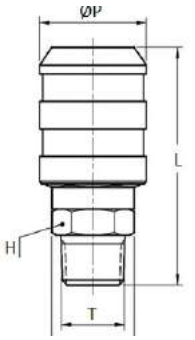
CODE	Ø TUBE	D	R	P	L	H
EU-75N-PM08	8X12	21,3	M16X1	24,4	61,9	19
EU-75N-PM10	10X15	24,3	M20X1	24,4	62,6	22

To used with PU-PVC

EU- 75S-M

Safety male quick coupler



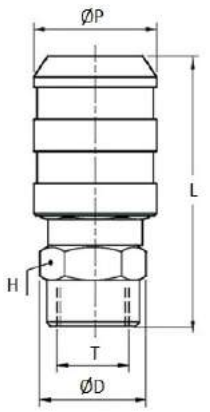


CODE	T	ØP	L	ØD	H
EU-75S-M1/4	R1/4"	28,5	53,6	21,5	19
EU-75S-M3/8	R3/8"	28,5	54,6	21,5	19
EU-75S-M1/2	R1/2"	28,5	59,1	24,6	22
EU-75S-M1/2G	G1/2"	28,5	56,6	26,5	24

EU-75S-H

Safety female quick coupler



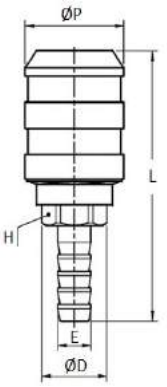


CODE	T	ØP	L	ØD	H
EU-75S-H1/4	G1/4"	28,5	51,6	21,5	19
EU-75S-H3/8	G3/8"	28,5	53,1	24,6	22
EU-75S-H1/2	G1/2"	28,5	57,3	27,5	25

EU-75S-E

Safety quick coupler with barb connector



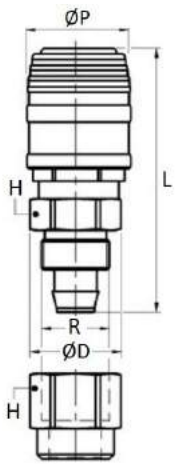


CODE	ØE	L	ØD	ØP	H
EU-75S-E6	7,20	61,1	21,5	28,5	19
EU-75S-E8	9,20	61,1	21,5	28,5	19
EU-75S-E10	11,2	65,1	21,5	28,5	19
EU-75S-E12	13,2	70,1	21,5	28,5	19
EU-75S-E13	13,8	70,1	21,5	28,5	19

EU-75S-PM

Joint push-on fitting





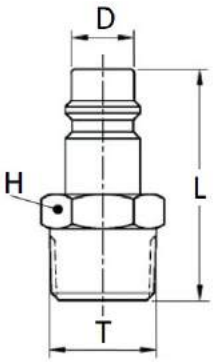
CODE	Ø TUBE	D	R	P	L	H
EU-75S-PM08	8X12	21,3	M16X1	28,5	65,2	19
EU-75S-PM10	10X15	24,3	M20X1	28,5	70	22

To used with PU-PVC

AEU-75M

Male connection



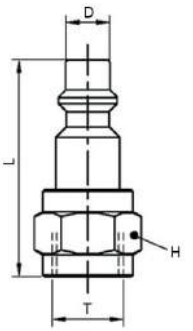


CODE	T	D	L	H
AEU-75M	R1/4"	10	36,5	14
AEU-75M-X	R1/4"	10	36,5	14
AEU-75M-316	R1/4"	10	36,5	14
AEU-75M38	R3/8"	10	37,0	17
AEU-75M38-316	R3/8"	10	37,0	17
AEU-75M12	R1/2"	10	42,0	22
AEU-75M12-316	R1/2"	10	42,0	22

AEU-75H

Female connection



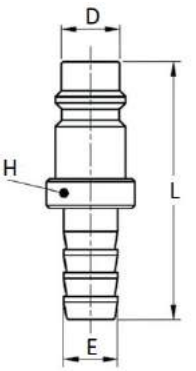


CODE	T	D	L	H
AEU-75H	G1/4"	10	34,0	17
AEU-75H-X	G1/4"	10	34,0	17
AEU-75H-316	G1/4"	10	34,0	17
AEU-75H38	G3/8"	10	34,5	20
AEU-75H38-316	G3/8"	10	34,5	22
AEU-75H12	G1/2"	10	40,0	24
AEU-75H12-316	G1/2"	10	40,0	24

AEU-75E

Connection with barb connector



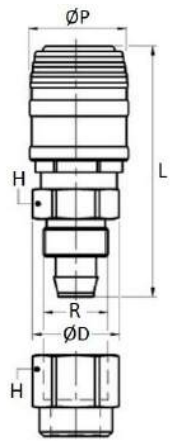


CODE	E	D	L	H
AEU-75E	9,2	10	44,0	15,0
AEU-75E-X	9,2	10	44,0	15,0
AEU-75E-10	11,2	10	48,0	15,0
AEU-75E-10-316	11,2	10	48,0	15,0
AEU-75E12	13,2	10	48,0	17,0
AEU-75E-12-316	13,2	10	48,0	17,0

AEU-75PM

Connection with push-on fitting





CODE	Ø TUBE	D	R	L	H
AEU-75PM08	8X12	10	M16X1	46,7	19
AEU-75PM10	10X15	10	M20X1	51,5	22

To used with PU-PVC



QUICK COUPLING FOR FLUIDS
EUROSTANDARD-DO

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 316

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH DOUBLE INTERCEPTED



p. 542 /
EU-DO75-M



p. 542 /
EU-DO75-H



p. 542 /
EU-DO75-E



p. 543 /
AEU-DO75M

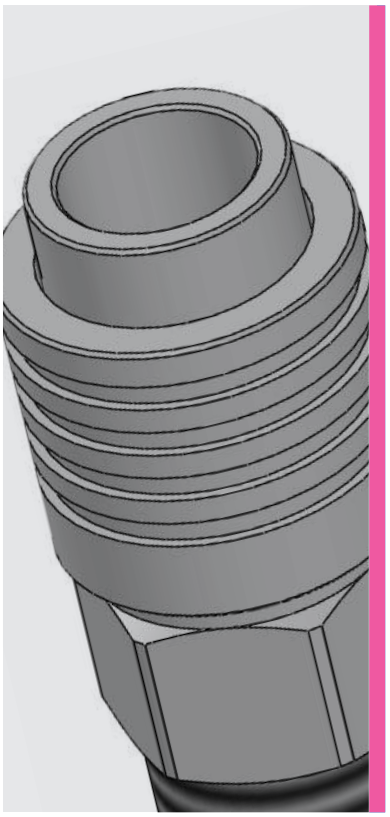


p. 543 /
AEU-DO75H



p. 543 /
AEU-DO75E

DOUBLE SHUTTER



From -20°C to +100°C
with NBR seal

Suggest: From 0 to 12 Bar

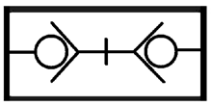
Air, water, gas, mineral and synthetic acids is not corrosive applications. It is indicated for welding and automation. The version in AISI 316 is indicated in oxidant and corrosive environments and especially in sector as food, chemical, medical, analytical laboratories, instrumentation and in the desalinization of water.

Taper BSPT from R1/4" to R1/2"
Parallel BSPP
from G1/4" to G1/2"

FLOW
371 l/min

DN 5,1 mm

CONFIGURATIONS
DO



REACH

Products in compliance with the directive 2002/95/EC

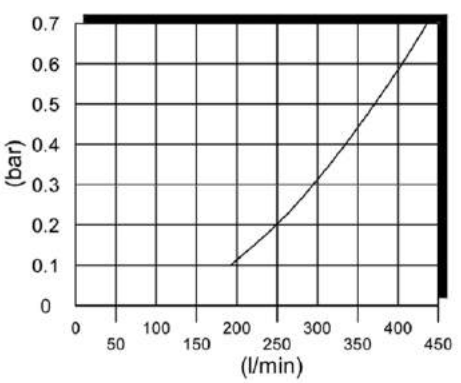
RoHS2

Products in compliance with the directive 2011/65/EU

COMPONENTS	EU-DO75-L	EU-DO75-316
Body	brass	Stainless steel AISI 316L
Slide	brass	Stainless steel AISI 316L
Adapter	brass	Stainless steel AISI 316L
Valve	brass	Stainless steel AISI 316L
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Seal	NBR, VITON, EPDM, SILICON	NBR, VITON, EPDM, SILICON
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302

CONNECTORS	AEU-DO-L	AEU-DO-316
Body	brass	Stainless steel AISI 316L
Adapter	brass	Stainless steel AISI 316L
Valve	brass	Stainless steel AISI 316L
Seal	NBR, VITON, EPDM, SILICON	NBR, VITON, EPDM, SILICON
Spring	Stainless steel AISI 302	Stainless steel AISI 302

FLOW DROP

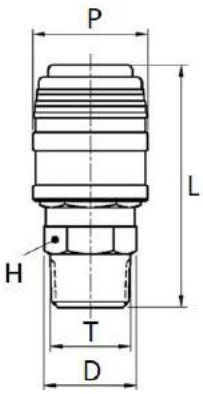


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock.

EU- DO75-M

Male quick coupler DN 5,1



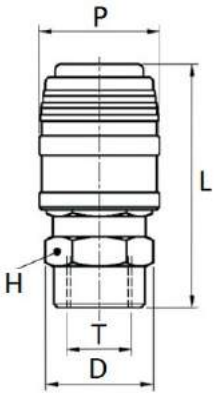


CODE	T	D	P	L	H
EU-DO75M14	R1/4"	21,5	24,4	51,7	19
EU-DO75M14-316V	R1/4"	21,5	24,4	51,7	19
EU-DO75M38-316V	R3/8"	21,5	24,4	52,7	19
EU-DO75M38-316V	R3/8"	21,5	24,4	52,7	19
EU-DO75M12	R1/2"	24,6	24,4	57,2	22
EU-DO75M12-316V	R1/2"	24,6	24,4	57,2	22
EU-DO75M12G	G1/2"	26,5	24,4	54,7	24

EU-DO75-H

Female quick coupler DN 5,1



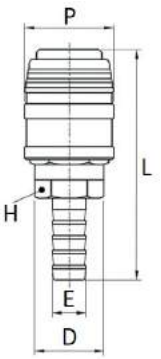


CODE	T	D	P	L	©
EU-DO75H14	G1/4"	21,5	24,4	49,7	19
EU-DO75H14-316V	G1/4"	21,5	24,4	49,7	19
EU-DO75H38	G3/8"	24,6	24,4	51,2	22
EU-DO75H38-316V	G3/8"	24,6	24,4	51,2	22
EU-DO75H12	G1/2"	27,5	24,4	55,4	25
EU-DO75H12-316V	G1/2"	27,5	24,4	55,4	25

EU-DO75-E

Quick coupler with barb connector DN 5,1



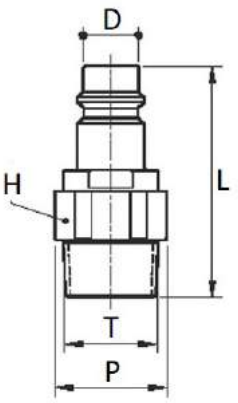


CODE	ØE	D	P	L	H
EU-DO75E6	7,20	21,5	24,4	59,2	19
EU-DO75E8	9,20	21,5	24,4	59,2	19
EU-DO75E8-316V	9,20	21,5	24,4	59,2	19
EU-DO75E10	11,20	21,5	24,4	63,2	19
EU-DO75E10-316V	11,20	21,5	24,4	63,2	19
EU-DO75E12	13,20	21,5	24,4	68,2	19
EU-DO75E13	13,80	21,5	24,4	68,2	19

AEU-DO75M

Male connector with shutter DN 5,1



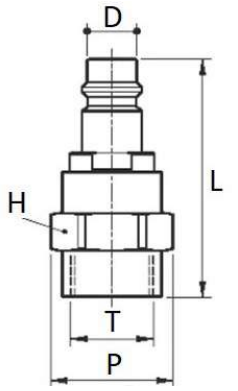


CODE	T	ØD	L	ØP	H
AEU-DO75M14	R1/4"	10	18,0	44,0	17
AEU-DO75M14-316V	R1/4"	10	18,0	44,0	17
AEU-DO75M38	R3/8"	10	20,2	44,5	19
AEU-DO75M38-316V	R3/8"	10	20,2	44,5	19
AEU-DO75M12	R1/2"	10	23,4	48,5	22
AEU-DO75M12-316V	R1/2"	10	23,4	48,5	22

AEU-DO75H

Female connection with shutter DN 5,1



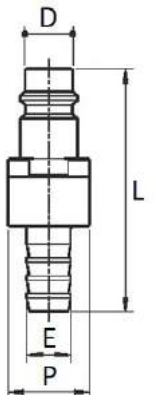


CODE	T	ØD	L	ØP	H
AEU-DO75H14	G1/4"	10,0	49,3	18,0	17
AEU-DO75H14-316V	G1/4"	10,0	49,3	18,0	17
AEU-DO75H38	G3/8"	10,0	50,8	20,2	19
AEU-DO75H38-316V	G3/8"	10,0	50,8	20,2	19
AEU-DO75H12	G1/2"	10,0	56,5	23,4	22
AEU-DO75H12-316V	G1/2"	10,0	56,5	23,4	22

AEU-DO75E

Connection with shutter with barb connector DN 5,1





CODE	E	ØD	L	ØP
AEU-DO75E8	9,2	10	54,0	17
AEU-DO75E8-316V	9,2	10	54,0	17
AEU-DO75E10	11,2	10	58,0	17

QUICK COUPLING FOR FLUIDS EUROFLUID

PLUS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 548 /
EUROFLUID-M



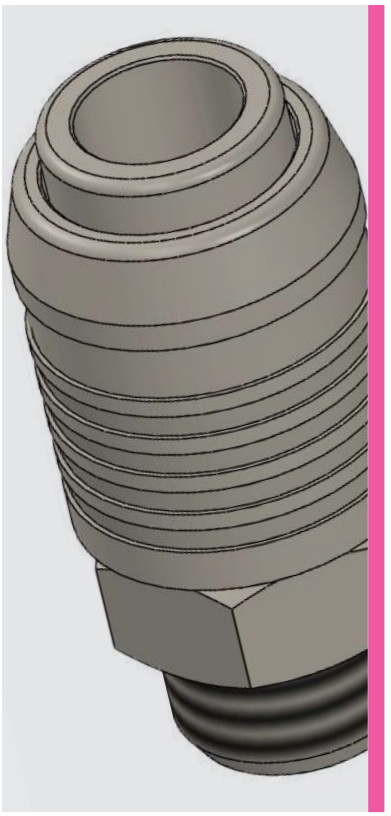
p. 548 /
EUROFLUID-H



p. 548 /
EUROFLUID-E



p. 548 /
EUROFLUID-PM



From -20°C to +100°C

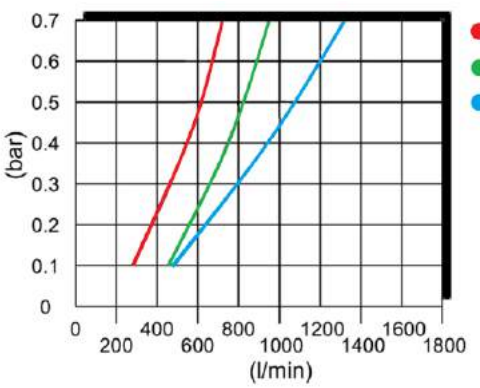
Suggest: From 0 to 12 Bar
Max: 35 Bar

They are suitable for pneumatic applications in not corrosive environments. Easy handling, connection - disconnection with one hand. Quick couplings Eurofluid series are compatible with the connectors: NE (ISO 6150-B-12 profile) - AEU (German and European profiles) - AFL 210.

Taper BSPT from R1/4" to R1/2"
Parallel BSPP from G1/4" to G1/2"

COMPONENTS	EUROFLUID
Body	Nickel-plated steel
Slide	Nickel-plated steel
Adapter	Nickel-plated brass
Valve	Nickel-plated brass
Ball	Chrome steel
Seal	NBR
Spring	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302

FLOW DROP



All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

PROFILE

EUROFLUID



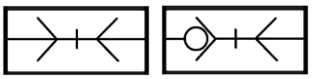
NE-10 | **AFL** | **AEU**



DN 5,5 | DN 5,5 | DN 7,6

CONFIGURATIONS

PL, SO



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

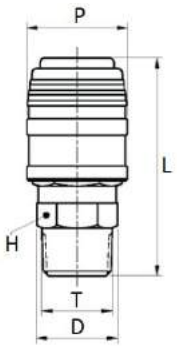
FLOW

1086 l/min with AEU-75
606 l/min with NE-10
823 l/min with FLUID-210

EUROFLUID-M

Male quick coupler



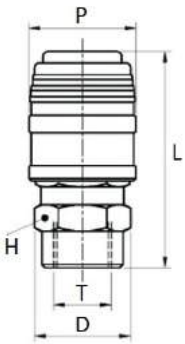


CODE	T	P	L	C	H
EUROFLUID-M1/4	R1/4"	24,4	51,7	21,5	19
EUROFLUID-M3/8	R3/8"	24,4	52,7	21,5	19
EUROFLUID-M1/2	R1/2"	24,4	57,2	24,6	22
EUROFLUID-M1/2G	G1/2"	24,4	54,7	26,5	24

EUROFLUID-H

Female quick coupler



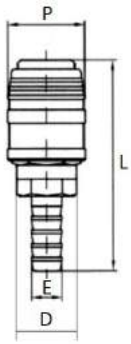


CODE	T	P	L	C	H
EUROFLUID-H1/4	G1/4"	24,4	49,7	21,5	19
EUROFLUID-H3/8	G3/8"	24,4	51,2	24,6	22
EUROFLUID-H1/2	G1/2"	24,4	55,4	27,5	25

EUROFLUID-E

Quick coupler with barb connector



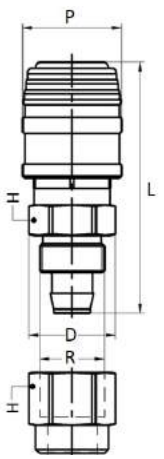


CODE	E	L	D	P	H
EUROFLUID-E6	7,20	59,2	21,5	24,4	19
EUROFLUID-E8	9,20	59,2	21,5	24,4	19
EUROFLUID-E10	11,20	63,2	21,5	24,4	19
EUROFLUID-E12	13,20	68,2	21,5	24,4	19
EUROFLUID-E13	13,80	68,2	21,5	24,4	19

EUROFLUID-PM

Joint push-on fitting





CODE	Ø TUBE	D	R	P	L	H
EUROFLUID-PM08	8X12	21,3	M16X1	24,4	61,9	19
EUROFLUID-PM10	10X15	24,3	M20X1	24,4	66,7	22

To used with PU-PVC

QUICK COUPLING FOR FLUIDS
Q -10N

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH SINGLE INTERCEPTED



p. 552 / **Q-10N-M**



p. 552 / **Q-10N-H**



p. 552 / **Q-10N-E**



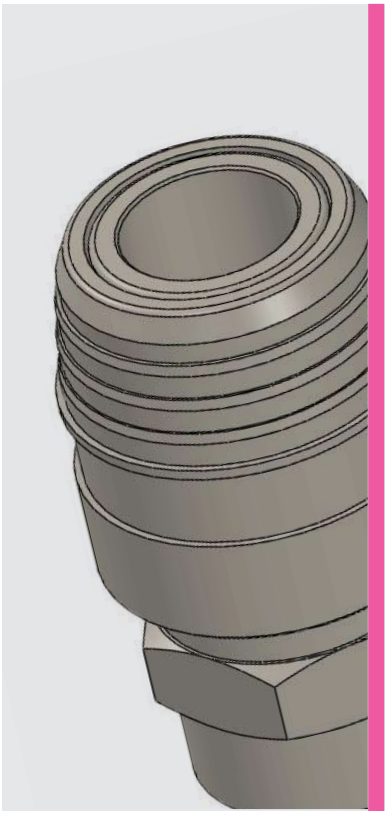
p. 553 / **Q-10N-PM**



p. 553 / **AQ-10M**



p. 553 / **AQ-10E**



From -20°C to +100°C

Suggest: From 0 to 7 Bar

Compressed air and fluids suitable with the construction materials

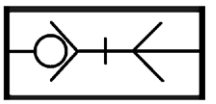
Taper BSPT from R1/4" to R1/2"
Parallel BSPP from G1/4" to G1/2"

COMPONENTS	Q-10N
Body	Nickel-plated steel
Slide	Nickel-plated steel
Adapter	Nickel-plated brass
Valve	Nickel-plated brass
Cartridges	Nickel-plated steel
Ball	Chrome steel
Seal	NBR
Spring	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302
CONNECTION	**AQ-10**
Body	Nickel-plated steel

FLOW
974 l/min

DN 8 mm

CONFIGURATIONS
SO



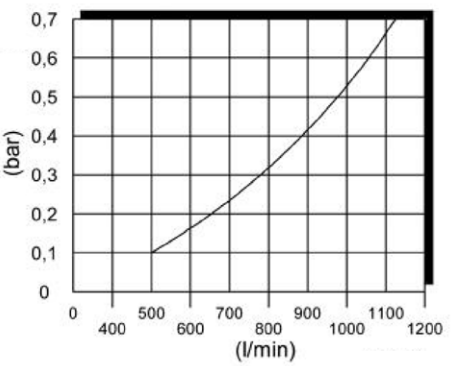
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FLOW DROP

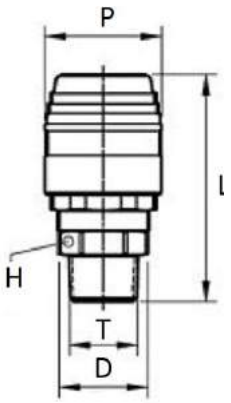


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

Q-10N-M

Male quick coupler BSPT DN 8



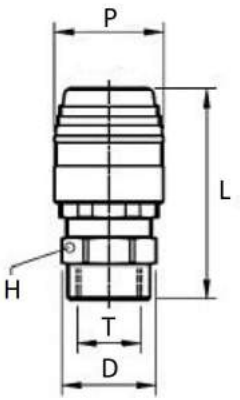


CODE	T	D	P	L	H
Q-10N-M1/4	R1/4"	21,5	28,5	56,1	19
Q-10N-M3/8	R3/8"	21,5	28,5	57,1	19
Q-10N-M1/2	R1/2"	24,6	28,5	61,6	22

Q-10N-H

Female quick coupler BSPP DN 8



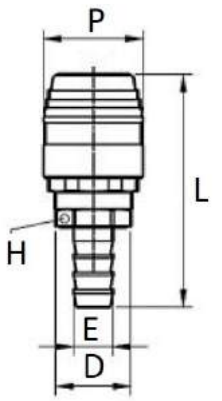


CODE	T	D	P	L	H
Q-10N-H1/4	G1/4"	21,5	28,5	54,1	19
Q-10N-H3/8	G3/8"	24,6	28,5	55,6	22
Q-10N-H1/2	G1/2"	27,5	28,5	59,8	25

Q-10N-E

Quick coupler with barb connector DN 8



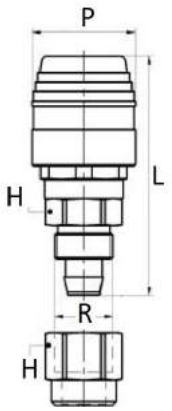


CODE	ØE	D	P	L	H
Q-10N-E6	7,20	21,5	28,5	63,6	19
Q-10N-E8	9,20	21,5	28,5	63,6	19
Q-10N-E10	11,20	21,5	28,5	67,6	19
Q-10N-E12	13,20	21,5	28,5	72,6	19
Q-10N-E13	13,80	21,5	28,5	72,6	19

Q-10S-PM

Joint push-on fitting DN 8





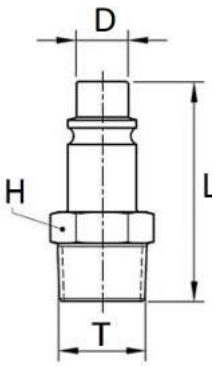
CODE	Ø TUBE	P	R	L	H
Q-10N-PM08	8X12	28,5	M16X1	65,8	19
Q-10N-PM10	10X15	28,5	M20X1	70,6	22

To used with PU-PVC

AQ-10M

Male quick coupler BSPT DN 8



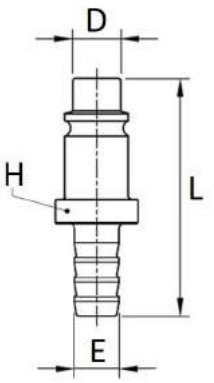


CODE	T	D	L	H
AQ-10M14	R1/4"	9,9	40,7	14
AQ-10M38	R3/8"	9,9	41,7	17
AQ-10M12	R1/2"	9,9	47,2	22

AQ-10E

Connection with barb connector DN 8





CODE	E	D	L	H
AQ-10E7	8,2	9,9	48,7	17,0



QUICK COUPLING FOR FLUIDS
IRT-28

PLUS

DIFFERENT RANGES WITH SECURITY SYSTEM AND ANTI-WHIPLASH, IN CONFORMITY WITH SAFETY STANDARDS

ARE INDICATED IN OXIDANT AND CORROSIVE ENVIROMENTS WITH VERSION IN AISI 316

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE

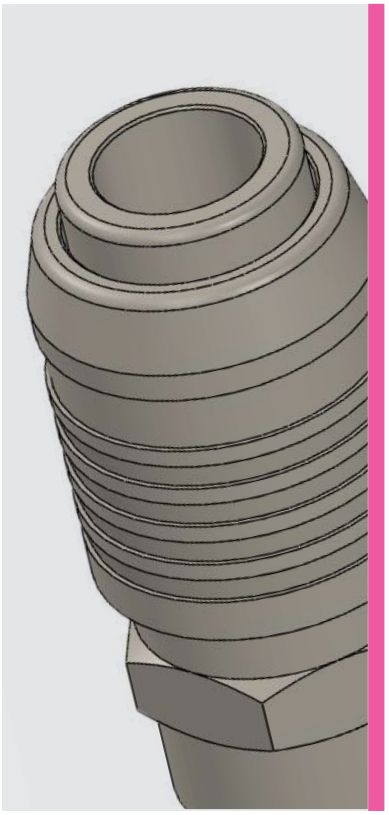


p. 558 / **IRT-28-M**



p. 558 / **AIRT28-H**

SAFETY SERIES



From -20°C to +100°C with NBR seal
From -20°C to +205°C with VITON seal
From -40°C to +130°C with EPDM seal
From -60°C to +200°C with SILICON seal

Suggest: From 0 to 12 Barr
Max: 35 Bar

Compressed air, water, grease, weak acids and breathing air applications

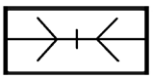
Parallel BSPP G1/2"

COMPONENTS	IRT
Body	Stainless steel AISI 316L
Slide	Stainless steel AISI 316L
Adapter	Stainless steel AISI 316L
Ball	Stainless steel AISI 316L
Seal	NBR, VITON, EPDM, SILICON
Spring	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302
CONNECTION	**AIRT**
Body	Stainless steel AISI 316L

DN 10 mm

CONFIGURATIONS

PL



REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

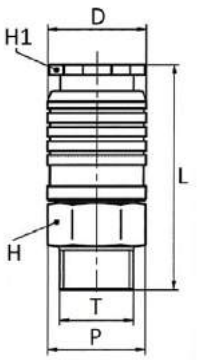
FEATURES

In conformity with the law CETOP. For applications in highly oxidizing and corrosive environments. Especially suitable for applications chemical, pharmaceutilcal, food, naval, refinery and industryal machinery. Ideal for breathing air applications where a secure locking of the slider that helps prevent accidental disconnection.

IRT-28-M

Female coupling with male thread



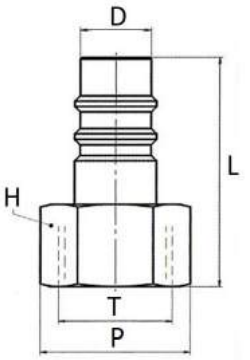


CODE	T	D	P	L	H	H1
IRT28-M12G-316V	G1/2"	28	27,6	63,9	24	27

AIRT28-H

Female quick coupler BSPP





CODE	T	D	P	L	H
AIRT28-H12-316	G1/2"	13	27,7	42	24

QUICK COUPLING FOR FLUIDS
CRHL-12

PLUS

DIFFERENT MATERIALS
FOR EVERY KIND OF APPLICATION

ARE INDICATED IN OXIDANT
AND CORROSIVE ENVIROMENTS
WITH VERSION IN AISI 316

EASY HANDLING
AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE



p. 562 /
CRHL12-M-G



p. 562 /
CRHL12-M-G-R



p. 562 /
CRHL12-H



p. 562 /
CRHL12-R



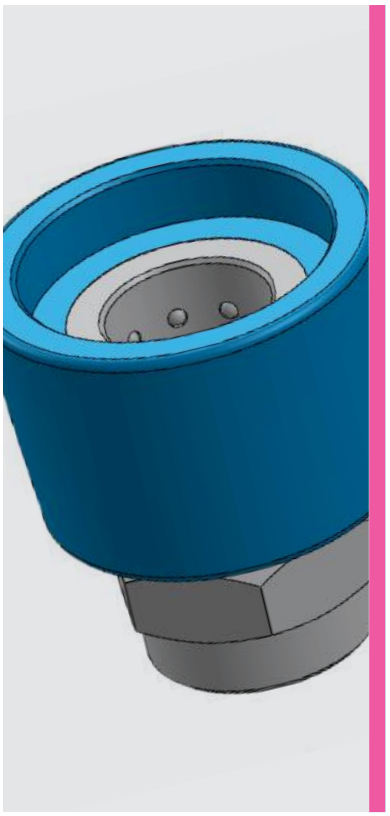
p. 563 /
ACRHL12-M-G



p. 563 /
ACRHL12-M-G-C



p. 563 /
ACRHL12-H



From -20°C to +100°C
with NBR seal
From -20°C to +205°C
with VITON seal

Max: 200 Bar

DN 12,1 mm

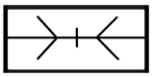
Parallel BSPP
from G3/8" to G1/2"

FEATURES

Coupling suitable for applications where a large flow is required. It is used mainly for high-pressure water jets, in the chemical, pharmaceutical and food industries and for the cooling of injection molds. Anti-magnetic properties. Corrosion resistant for stainless versions.

CONFIGURATIONS

PL



REACH

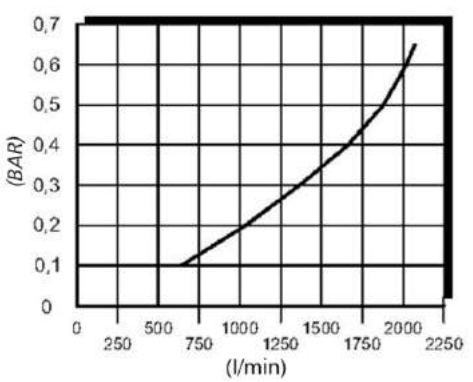
Products in compliance with
the directive 2002/95/EC

RoHS2

Products in compliance with
the directive 2011/65/EU

COMPONENTS	CRHL12	CRHL12-303	CRHL12-316L
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316L
Slide	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316L
Protection slide	Caucho EPDM Black	Caucho EPDM Black	Caucho EPDM Blue
Seal	NBR, VITON	NBR, VITON	NBR, VITON
Ball	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
CONNECTION	**ACRHL12**	**ACRHL12-303**	**ACRHL12-316L**
Body	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316L

FLOW DROP

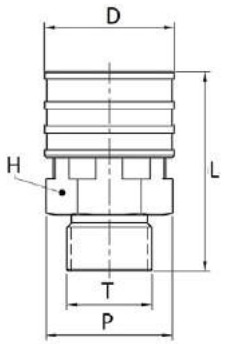


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CRHL-M-G

Male quick coupler DN 12,1



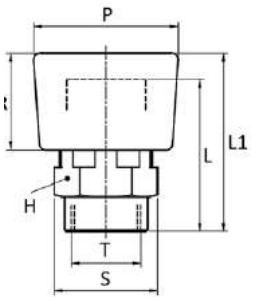


CODE	T	D	P	L	H
CRHL12-M12G	G1/2"	32	31,2	49,6	27
CRHL12-M12G-303	G1/2"	32	31,2	49,6	27
CRHL12-M12G-316	G1/2"	32	31,2	49,6	27

CRHL-M-G-R

Male quick coupler with rubber cover, DN 12,1



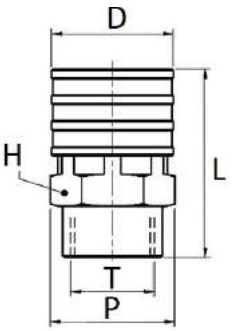


CODE	T	ØP	ØS	R	L	L1	H
CRHL12-M12GR	G1/2"	44	31,2	29,4	49,6	57,6	27
CRHL12-M12G-303R	G1/2"	44	31,2	29,4	49,6	57,6	27
CRHL12-M12G-316R	G1/2"	44	31,2	29,4	49,6	57,6	27

CRHL12-H

Female quick coupler DN 12,1



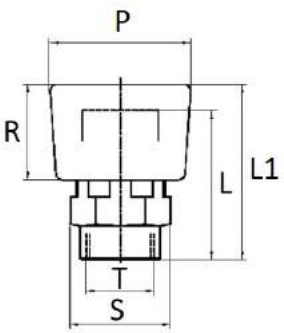


CODE	T	P	L	D	H
CRHL12-H38	G3/8"	31,2	40,7	32	27
CRHL12-H38-303	G3/8"	31,2	40,7	32	27
CRHL12-H38-316	G3/8"	31,2	40,7	32	27
CRHL12-H12	G1/2"	31,2	46,1	32	27
CRHL12-H12-303	G1/2"	31,2	46,1	32	27
CRHL12-H12-316	G1/2"	31,2	46,1	32	27

CRHL12-R

Female quick coupler with rubber cover, DN 12,1



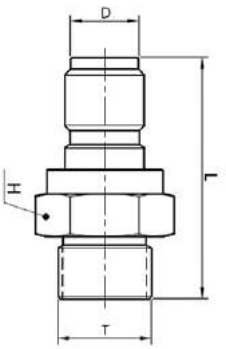


CODE	T	ØP	ØS	R	L	L1	H
CRHL12-H38R	G3/8"	44	31,2	29,4	40,7	48,7	27
CRHL12-H38-303R	G3/8"	44	31,2	29,4	40,7	48,7	27
CRHL12-H38-316R	G3/8"	44	31,2	29,4	40,7	48,7	27
CRHL12-H12R	G1/2"	44	31,2	29,4	46,1	54,1	27
CRHL12-H12-303R	G1/2"	44	31,2	29,4	46,1	54,1	27
CRHL12-H12-316R	G1/2"	44	31,2	29,4	46,1	54,1	27

ACRHL12-M-G

Male quick coupler without seal level DN 12,1



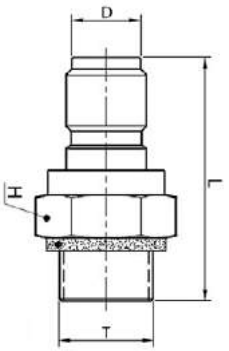


CODE	T	D	L	H
ACRHL12-M12G	G1/2"	15,3	54	27
ACRHL12-M12G-303	G1/2"	15,3	54	27
ACRHL12-M12G-316	G1/2"	15,3	54	27

ACRHL12-M-G-C

Male quick coupler with seal level DN 12,1



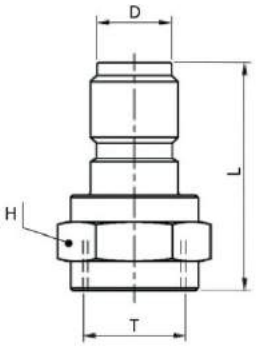


CODE	T	D	L	H
ACRHL12-M12GC	G1/2"	15,3	54	27
ACRHL12-M12G-303C	G1/2"	15,3	54	27
ACRHL12-M12G-316C	G1/2"	15,3	54	27

ACRHL12-H

Female connection12 DN 12,1





CODE	T	D	L	H
ACRHL12-H14	G1/4"	15,3	37,5	20
ACRHL12-H14-303	G1/4"	15,3	37,5	22
ACRHL12-H38	G3/8"	15,3	37,5	22
ACRHL12-H38-303	G3/8"	15,3	37,5	22
ACRHL12-H38-316	G3/8"	15,3	37,5	22
ACRHL12-H12	G1/2"	15,3	44,5	27
ACRHL12-H12-303	G1/2"	15,3	44,5	27
ACRHL12-H12-316	G1/2"	15,3	44,5	27



QUICK COUPLING FOR FLUIDS
CRM-55

PLUS

EASY HANDLING AND CONNECTION/DISCONNECTION

AVAILABLE WITH FREE PASSAGE, SINGLE INTERCEPTED



p. 568 /
CRM-55-M



p. 568 / **CRM-55**



p. 568 /
CRM-55-E



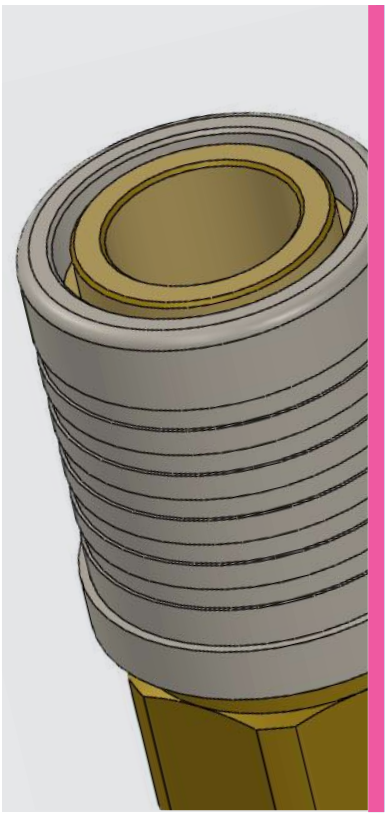
p. 568 /
ACRM-55-M



p. 569 /
ACRM-55-H



p. 569 /
ACRM-55-E



From -20°C to +100°C
with NBR seal
From -20°C to +205°
with VITON seal

Max: 35 Bar

DN 8,5 mm

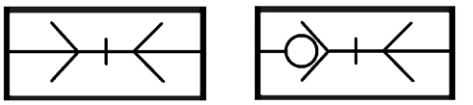
Taper BSPT
from R1/8" to R1/2"
Parallel BSPP
from G1/8" to G1/2"

COMPONENTS	CRM
Body	Brass
Adapter	Brass
Slide	Nickel-plated steel
Valve	Brass
Valve seat	Brass
Support seal	Brass
Seal	NBR, VITON
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 420
Retaining ring	Stainless steel AISI 302
Clip	Stainless steel AISI 304

CONNECTION	ACRM-L	ACRM	ACRM-X
Body	Brass	Nickel-plated steel	Stainless steel AISI 303

FLOW
1.135 l/min

CONFIGURATIONS
PL e SO



REACH

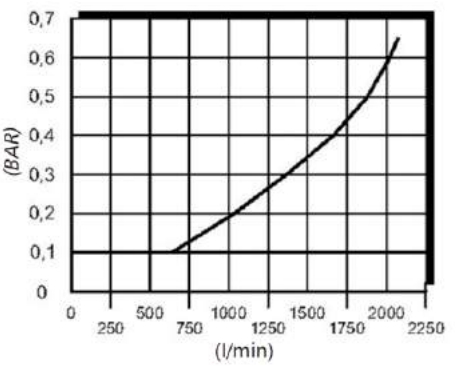
Products in compliance with
the directive 2002/95/EC

RoHS2

Products in compliance with
the directive 2011/65/EU

FEATURES
The couplings CRM-55 serie are mainly used in the process of cooling of injection molds. In spite of the reduced dimensions, they're solidly built and they can reach a very high flow. All the connectors in stainless steel are submitted to nickel-plating covering process in order to make them more durable.

FLOW DROP

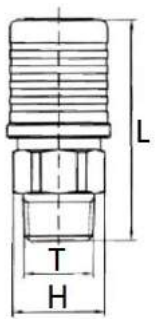


All charts have been created considering a pressure of 6 Bar with low drop of 0.5 bar and simple lock

CRM-55-M

Male quick coupler DN 8,5



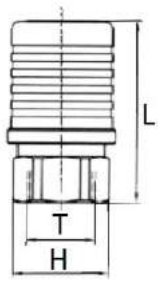


CODE	T	L	H
CRM-55-3/8-M	R3/8"	57,6	22
CRM-55-3/8-PL-M	R3/8"	57,6	22
CRM-55-1/2-M	R1/2"	61,1	22
CRM-55-1/2-PL-M	R1/2"	61,1	22

CRM-55

Female quick coupler DN 8,5



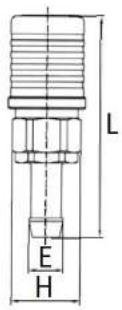


CODE	T	L	H
CRM-55-3/8	G3/8"	46	22
CRM-55-3/8-PL	G3/8"	46	22

CRM-55-E

Quick coupler with barb connector DN 8,5



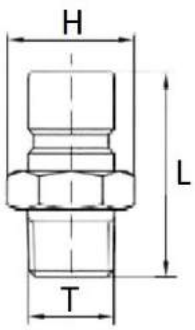


CODE	E	L	H
CRM-55-E	10	74,5	22
CRM-55-PL-E	10	74,5	22

ACRM-55-M

Male connection DN 8,5



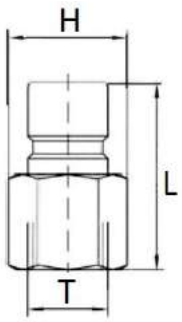


CODE	T	L	H
ACRM-55M1	R1/8"	30,3	17
ACRM-55M1-L	R1/8"	30,3	17
ACRM-55M	R1/4"	31,8	17
ACRM-55M-L	R1/4"	31,8	17
ACRM-55M-X	R1/4"	31,8	17
ACRM-55M-3/8	R3/8"	32,8	17

ACRM-55-H

Female connection DN 8,5



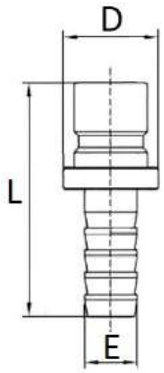


CODE	T	L	H
ACRM-55H1	G1/8"	31,3	17
ACRM-55H1-L	G1/8"	31,3	17
ACRM-55H	G1/4"	31,3	17
ACRM-55H-L	G1/4"	31,3	17
ACRM-55H-X	G1/4"	31,3	17
ACRM-55H-3/8	G3/8"	35,3	22

ACRM-55-E

Connection with barb connector DN 8,5

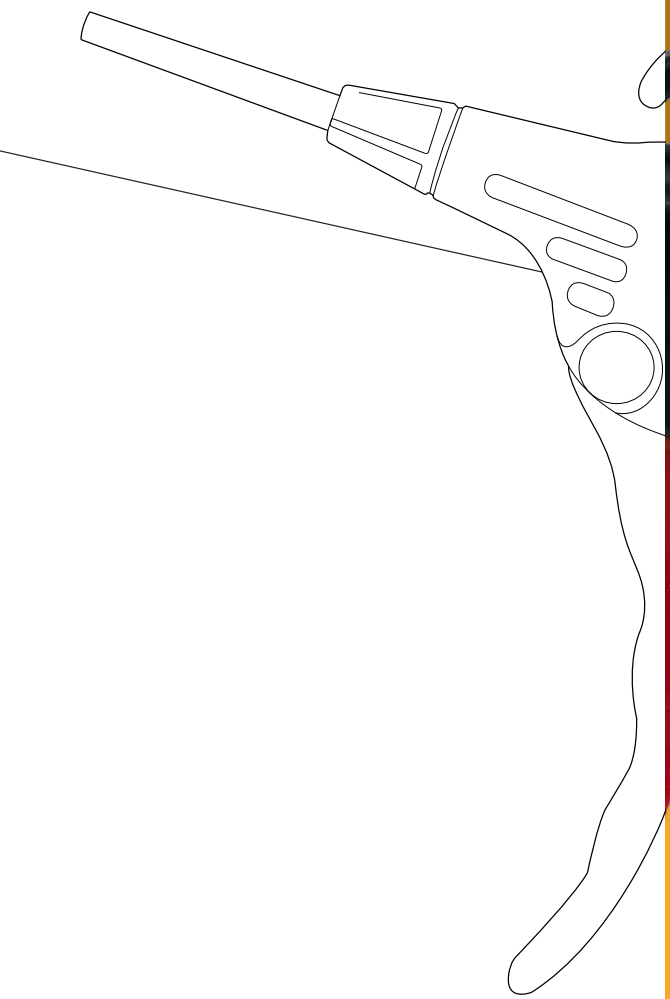




CODE	E	L	D
ACRM-55-E8	9,2	38,3	17



AIR GUNS





TECHNICAL INDEX



P. 573 /
CAF AIR GUNS



P. 575 /
CB AIR GUNS BIG FLOWRATE



P. 577 /
PSF ALUMINUM AIR GUNS



P. 581 /
CPA PLASTIC AIR BLOW GUN WITH BRASS INSERTION



P. 585 /
UGPT-7 COMB BLOW COMPRESSED AIR



P. 587 /
SAFETY CPOH AIR BLOW GUN OSHA COMPLIANT

AIR GUNS
CAF

PLUS

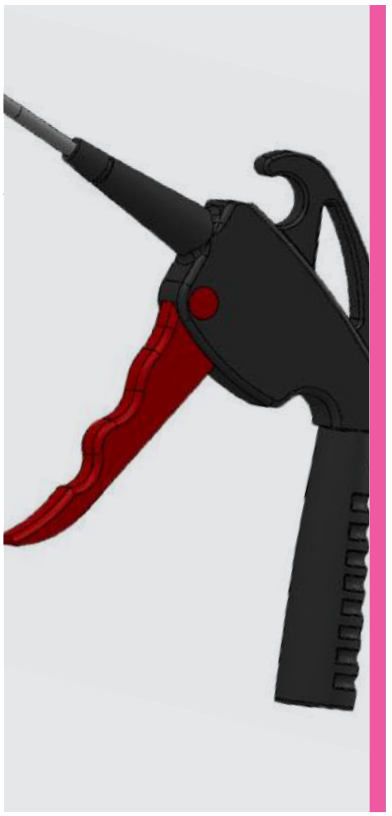
EASY HANDLE

LIGHT AND EASY TO USE

DIFFERENT RANGE OF MODEL



p. 574 / **CAF**



From 0°C to 60°C

from 0 to 10 Bar
Negative pressure: -750 mmHg

Compressed air

Parallel gas BSPP - G1/4"

SUPPLY
Progressive

Plastic and steel

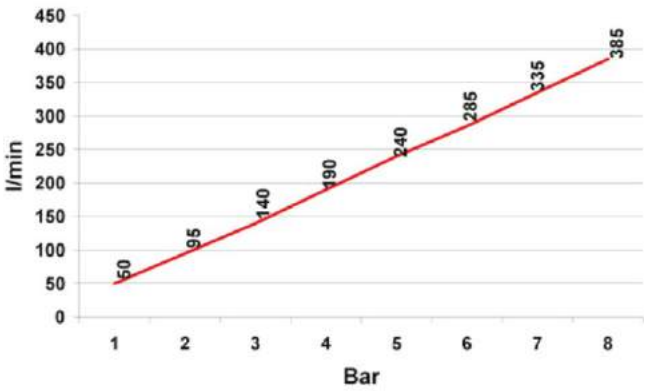
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

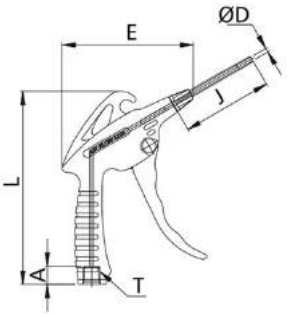
FLOWRATE



CAF

Air gun with steel nozzle & plastic BSPP thread





CODE	ØD	T	L	E	A	J	GR.
CAF005FG	3,0	G1/4"	142,1	96,8	13,5	50,0	93,0
CAF010FG	3,0	G1/4"	142,1	96,8	13,5	100,0	106,0
CAF020FG	3,0	G1/4"	142,1	96,8	13,5	200,0	113,0
CAF030FG	3,0	G1/4"	142,1	96,8	13,5	300,0	128,0

AIR GUNS
CB BIG FLOWRATE

PLUS

- BIG FLOWRATE
- EASY HANDLE
- LIGHT AND EASY TO USE
- DIFFERENT RANGE OF MODEL



p. 576 / **CB01**



From 0°C to 60°C

from 0 to 10 Bar
Negative pressure: -750 mmHg

Compressed air

Parallel gas BSPP - G1/4"

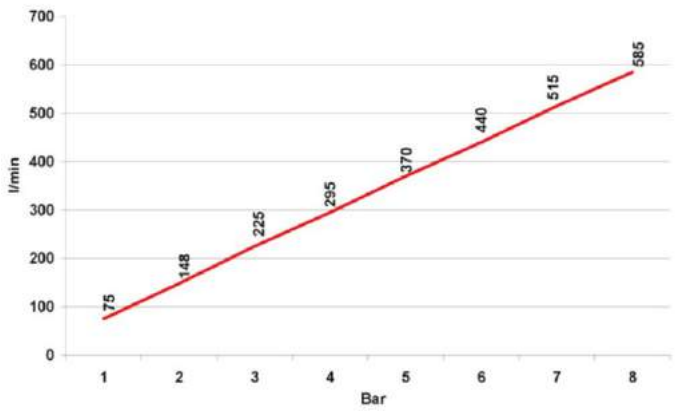
SUPPLY
Progressive

Plastic and steel

REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

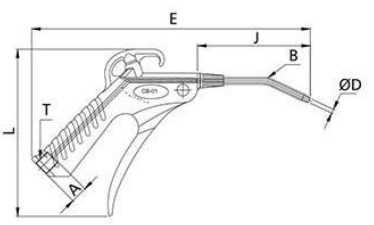
FLOWRATE



CBO1

Big flowrate air gun with steel nozzle & plastic BSPP thread





CODE	ØD	T	L	E	A	J	B	GR.
CB01F010FG	3,5	G1/4"	143,6	242,7	13,5	100,0	BENT	118,0
CB01F020FG	3,5	G1/4"	143,6	342,7	13,5	200,0	STRAIGHT	132,0
CB01F030FG	3,5	G1/4"	143,6	442,7	13,5	300,0	STRAIGHT	147,0

AIR GUNS
PSF ALUMINUM

PLUS

EASY HANDLE

LIGHT AND EASY TO USE

IN ALUMINUM



p. 580 / **PSF**



p. 580 / **L150&L225**



p. 580 / **PSF1010-4**



12 Bar

Compressed air, water, grease, oil and fluids compatible with construction material

Parallel gas BSPP - G1/4"

Body: painted aluminum
Button: PA-11
Standard nozzle: NBR
Seals: NBR
Spring: inox AISI 302

L150&L225: brass
PSF 1010-4: NBR

SUPPLY
Progressive

FLOW
210 l/min at 6 Bar

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

ADVANTAGES
Suitable for each kind of industry as it's used for cleaning elements which contain dust, bacteria and oils.

PSF

Aluminum air gun with female BSPP thread



CODE	THREAD	ESTIMATED DIMENSION	GR.
PSF1010	G1/4"	120 X 62 X 25	110

L150&L225

Brass nozzles for PSF 1010



CODE	LENGHT	THREAD	GR.
L-150	158	G1/8"	35
L-225	233	G1/8"	45

PSF1010-4

NBR nozzle for PSF 1010



CODE	LENGHT	THREAD	GR.
PSF1010-4	20	G1/8"	2

AIR GUNS
CPA PLASTIC AIR BLOW GUN WITH BRASS INSERTION

PLUS

- LIGHT AND EASY TO USE
- DIFFERENT ACCESSORIES
- BODY IN PLASTIC



p. 584 / **CPA**



p. 584 / **UG**



p. 584 / **UGPR**



-25°C ÷ +85°C

10 Bar

Compressed air

Parallel gas BSPP - G1/4"

BLOWING FORCE AT 6 BAR
300 gr.

USE AT 3,5 BAR
6 Nm^3/h

SONOROUS EMISSION AT 3,5 BAR
78 dB

SUPPLY
Progressive

Body: plastic
Thread: brass

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FEATURES
Progressive regulation of the air flow ergonomic grip. Light and sturdy body.

CPA

Blue plastic air blow gun with brass insertion



CODE	T	GR.
CPA010FG	G1/4"	98

UG

Curved nozzle for CPA010FG



CODE	L	T
UG100	100	G1/4"
UG150	150	G1/4"
UG250	250	G1/4"
UG400	400	G1/4"

UGPR

Parable nozzle with save screen for CPA010FG



CODE	L	T
UGPR	80	G1/4"

AIR GUNS
UGPT-7
COMB BLOW
COMPRESSED AIR

PLUS



p. 586 / **UGPT-7**



from 0 to 77°C

7 Bar

Compressed air

Male taper gas BSPT R1/4"

BLOWING FORCE AT 6 BAR
300 gr.

ABS Plastic

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

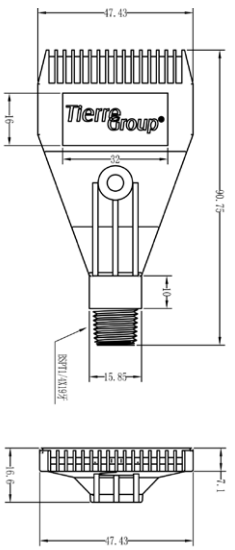
Products in compliance with the directive 2011/65/EU

FEATURES
Generate efficient, controlled flat fan air pattern for a uniform spray distribution. Recessed orifices protect against external damage and offer air escape should the nozzles accidentally be placed against a flat surface. Low noise levels.

UGPT-7

Comb blow compressed air





CODE	T	FLOW RATE - CAPACITY			
UGPT-7	R1/4"	0,7 Bar (10psi) 193 (6,8)	2 Bar (30psi) 357 (12,8)	4 Bar (60psi) 586 (21,3)	6 Bar (90psi) 816 (29,6)

AIR GUNS
SAFETY CPOH
AIR BLOW GUN
OSHA COMPLIANT

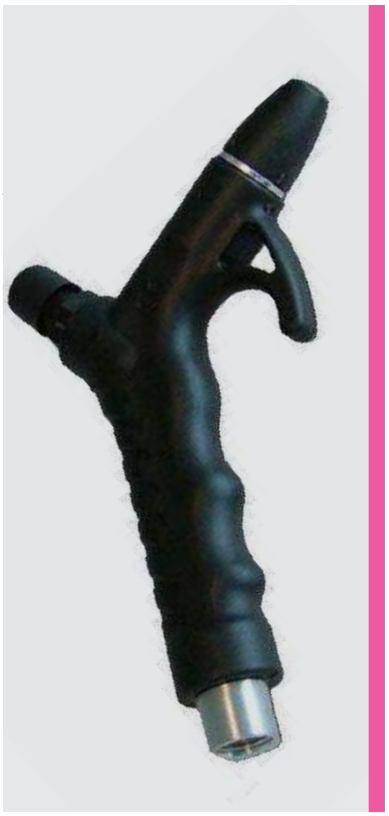
PLUS

EASY HANDLE

EXIT PRESSURE AT 2,5 BAR



p. 588 / **CPOH**



-25°C ÷ +85°C

10 Bar
Exit pressure: 2,5 Bar

Compressed air

Parallel gas BSPP - G1/4"

SUPPLY
Progressive

reinforced polypropylene

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

BLOWING FORCE AT 2,5 BAR
178 gr.

USE AT 2,5 BAR
3,25 Nm³/h

SONOROUS EMISSION AT 3,5 BAR
65 dB

FEATURES
OSHA compliant 2,5 Bar. Light and sturty body. High safety.
The outlet pressure is auto-regulated at 2,5 fixed bar whatever is the inlet pressure.

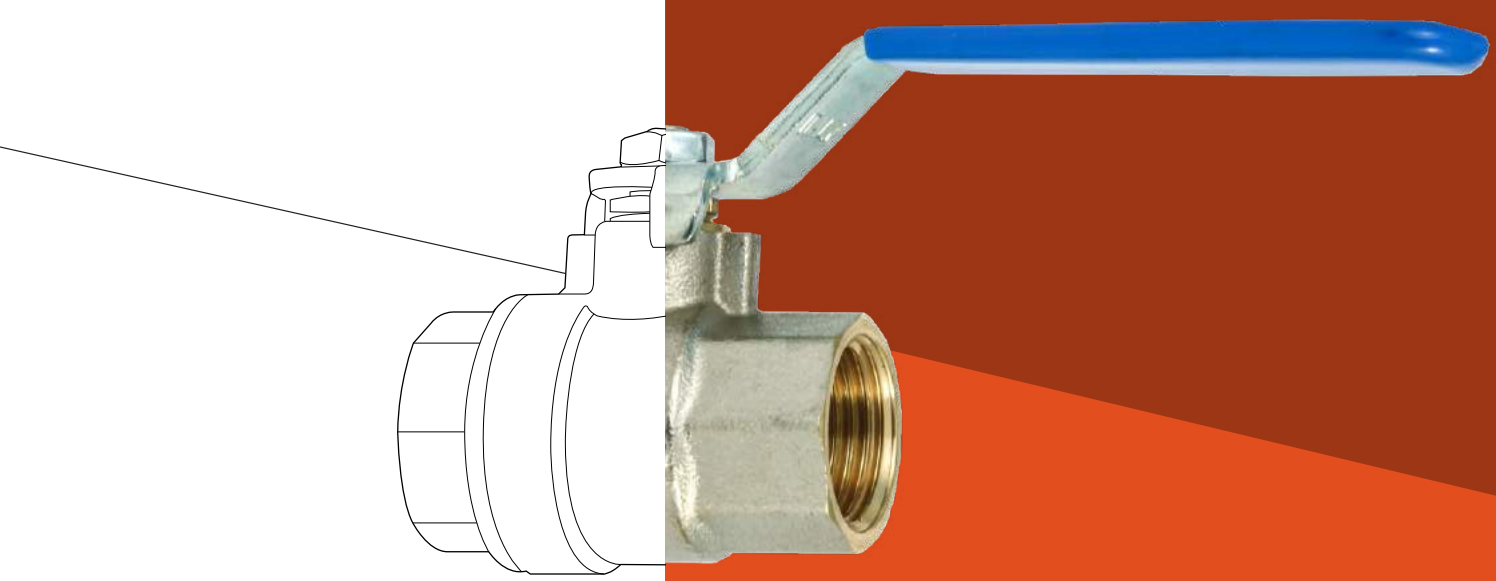
CPOH

Safety plastic air blow gun OSHA compliant



CODE	T	GR.
CPOH	G1/4"	90

INDUSTRIAL VALVES



TECHNICAL INDEX



P. 591 /
BRASS BALL VALVES



P. 617 /
SAFETY VALVE



P. 621 /
INOX BALL VALVES

INDUSTRIAL VALVES
BRASS BALL VALVES

PLUS

WIDE SOLUTIONS ACCORDINGLY TO EVERY KIND OF APPLICATION

OPTIMIZED DIMENSIONS & PERFORMANCES

THREAD UP TO 4"

BRASS EUROPE MINIBALL VALVES


p. 593 / **9110**


p. 593 / **9120**


p. 593 / **9130**

BRASS MINIBALL VALVES


p. 594 / **9110-F**


p. 594 / **9120-F**

BRASS MICRO BALL VALVES


p. 595 / **9142**


p. 595 / **9162**


p. 596 / **9168**

BRASS BALL VALVES

FOR POTABLE WATER


p. 598 / **9203**


p. 598 / **9204**

FOR GAS


p. 600 / **9208**

NPT THREAD


p. 602 / **9212**

LOCKABLE


p. 604 / **9214**

FF THREAD


p. 606 / **9210**


p. 606 / **9240**

MF THREAD


p. 606 / **9220**


p. 606 / **9250**

MM THREAD


p. 607 / **9230**


p. 607 / **9260**

HEAVY SERIES


p. 610 / **9210H**

HEAVY SERIES FOR HIGH TEMPERATURE


p. 612 / **9210HS**

THREE WAYS


p. 614 / **9270**

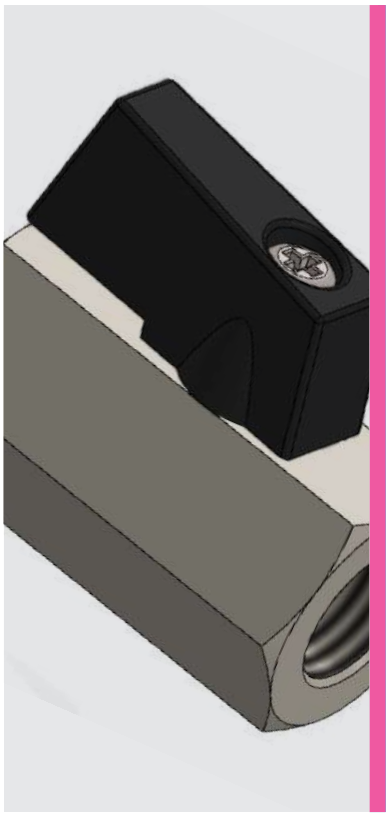

p. 614 / **9280**

BALL BIBCOCK


p. 615 / **9285**

DRAIN VALVE


p. 616 / **9611**



-10°C ÷ +90°C

up to 10 Bar at 90°C.

Compressed air, water and fluids suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G3/4"

OPERATION
90° lever rotation

Body: Brass CW 614N UNI EN 12164
Stem: Brass CW 614N UNI EN 12164
Retainer: Brass CW 614N UNI EN 12164
Ball: Brass CW 614N UNI EN 12164 nickel plated
Ball gaskets: PTFE (Teflon)
Stem sealing ring: NBR 70 on demand available viton or EPDM
Lever: Glass fiber-charged nylon 66

SURFACE FINISHING
Codes 9110 and 9120: chrome plated
Code 9130: nickel plated

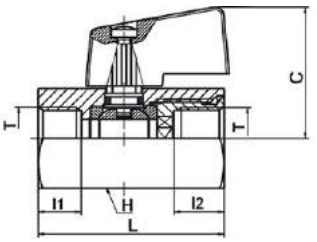
REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

9110

Mini ball valve F/F



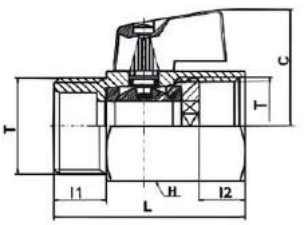


CODE	T	I1	I2	L	C	H	GR.
9110TR18	G1/8"	9,0	10,5	39	27,5	21,0	87,8
9110TR14	G1/4"	9,0	10,5	39	27,5	21,0	93,8
9110TR38	G3/8"	12,0	9,9	42	27,5	21,0	90,4
9110TR12	G1/2"	12,3	10,6	47	29,5	24,0	110,2
9110TR34	G3/4"	14,5	12,2	54	31,8	30,0	194,5

9120

Mini ball valve M/F



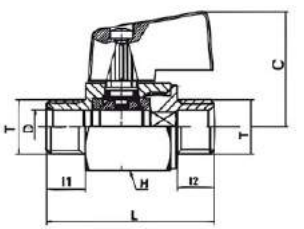


CODE	T	I1	I2	L	C	H	GR.
9120TR18	G1/8"	8,0	10,5	39	27,5	21,0	80,0
9120TR14	G1/4"	9,0	10,5	39	27,5	21,0	78,0
9120TR38	G3/8"	10,0	9,9	40	27,6	21,0	74,4
9120TR12	G1/2"	12,2	10,7	45	29,5	24,0	108,0
9120TR34	G3/4"	14,0	12,2	51	31,8	30,0	176,7

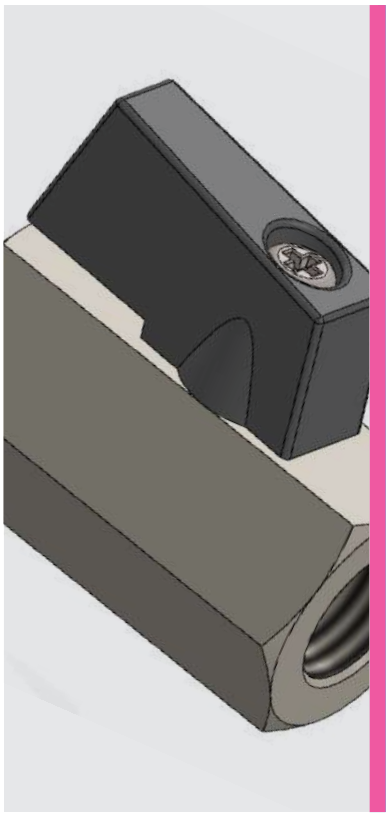
9130

Mini ball valve M/M





CODE	T	I1	I2	L	ØD	ØC	H	GR.
9130TR14	G1/4"	9,3	9,0	40,4	8,2	27,6	21,0	68,2
9130TR38	G3/8"	10,0	10,0	42,4	12,2	27,6	21,0	70,8
9130TR12	G1/2"	11,0	11,0	49,7	15,2	29,3	24,0	116,9



0°C ÷ +60°C

up to 16 Bar at 20°C

Compressed air, water and fluids suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

OPERATION
90° lever rotation

Body: Nickel-plated brass
Stem: Nickel-plated brass
Retainer: Nickel-plated brass
Ball: Chrome plated brass
Ball gaskets: PTFE (Teflon)
Ring: NBR

REACH

Products in compliance with the directive 2002/95/EC

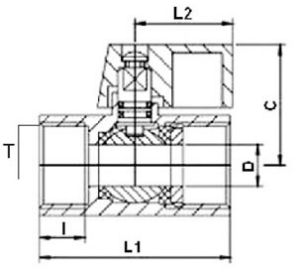
RoHS2

Products in compliance with the directive 2011/65/EU

9110-F

Mini ball valve F/F BSPP



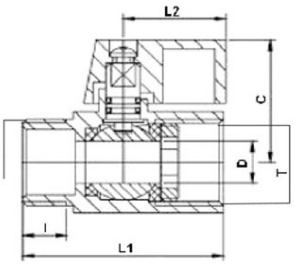


CODE	T	D	L1	L2	I	C	H	GR.
9110TR18-F	G1/8"	7	40,0	22,8	8,5	27,0	20,0	92,0
9110TR14-F	G1/4"	8	40,0	22,8	8,5	27,0	20,0	85,0
9110TR38-F	G3/8"	8	40,0	22,8	8,5	27,0	20,0	75,0
9110TR12-F	G1/2"	10	46,5	22,8	11,5	28,5	24,0	116,0

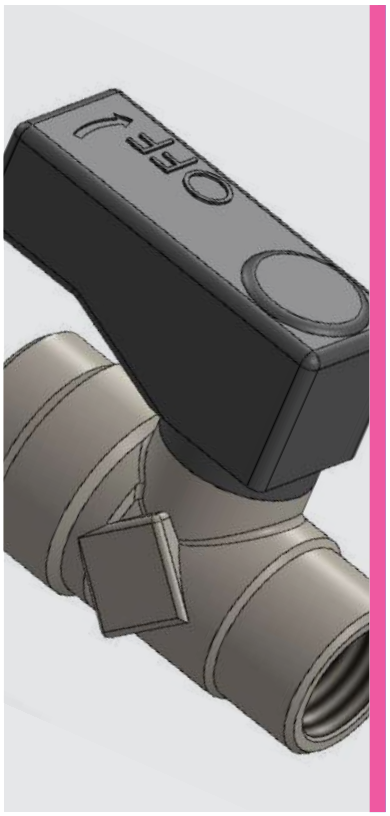
9120-F

Mini ball valve M/F BSPP





CODE	T	D	L1	L2	I	C	H	GR.
9120TR18-F	G1/8"	6	40,0	22,8	8,5	27,0	20,0	80,0
9120TR14-F	G1/4"	8	40,0	22,8	8,5	27,0	20,0	75,0
9120TR38-F	G3/8"	8	40,0	22,8	8,5	27,0	20,0	70,0
9120TR12-F	G/2"	10	46,5	22,8	10,0	28,5	24,0	109,0



-5°C ÷ +70°C

10 Bar

Compressed air, lubricated compressed air, gas and fluids suitable with construction materials

Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Taper gas ISO 7
from R1/8" to R1/2"

OPERATION
90° lever rotation

Body: Brass CW 617N
Retainer: Brass CW 614N
Stem: Brass CW 614N
Ball: Brass CW 614N nickel plated
Ball gasket: PTFE (Teflon)
Screw: Steel
Stem sealing O'ring: NBR 70 on demand viton
Lever: Nylon 6.6
Button: Nylon 6.6

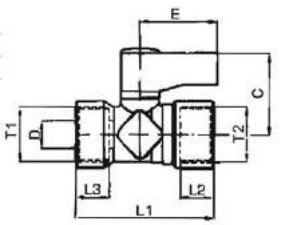
REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

9142

Micro ball valve F/F black lever



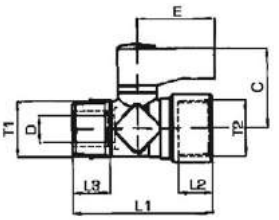


CODE	T1	T2	D	E	C	L1	L2	L3	GR.
9142TR18	G1/8"	G1/8"	6	24	23	34	8,0	8,0	35,0
9142TR14	G1/4"	G1/4"	6	24	23	38	9,5	9,5	39,0
9142TR38	G3/8"	G3/8"	8	24	24	43	10,5	10,5	55,0
9142TR12	G1/2"	G1/2"	10	34	27	49	12,0	12,0	93,0

9162

Micro ball valve M/F black lever



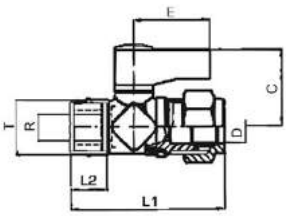


CODE	T1	T2	D	E	C	L1	L2	L3	GR.
9162TR18	R1/8"	G1/8"	6	24	23	34	8,0	7,5	32,0
9162TR14	R1/4"	G1/4"	6	24	23	39	9,5	11,0	36,0
9162TR38	R3/8"	G3/8"	8	24	24	43	10,5	11,5	51,0
9162TR12	R1/2"	G1/2"	10	24	27	50	12,0	15,0	87,0

9168

Micro ball valve M with ogive connection for copper or aluminium tube black lever





CODE	T	TUBE	R	E	C	L1	L2	GR.
9168TR186	R1/8"	6	6	24	23	41	7,5	38,0



-10°C ÷ +90°C

25 Bar

Potable water and fluids suitable with construction materials

UNI ISO 7/1Rp from G3/8" to 2"

FEATURES

The type of ball installed prevents stagnant water in this valve. In this case the bacteria, that may be in water, cannot remain in the piping for a long time differently from the other traditional valves.

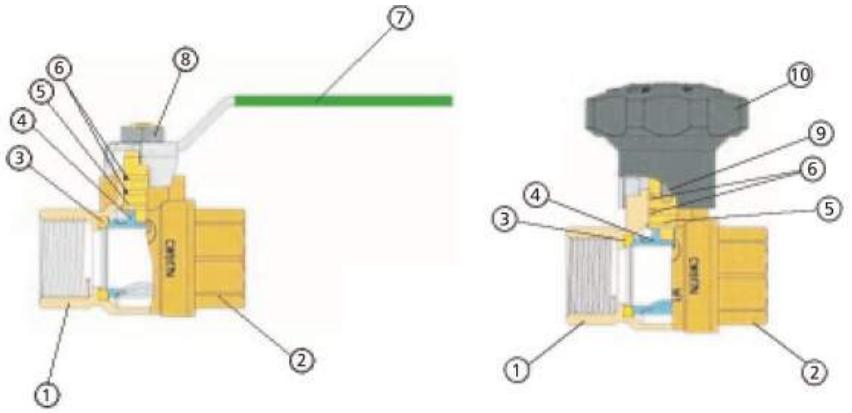
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

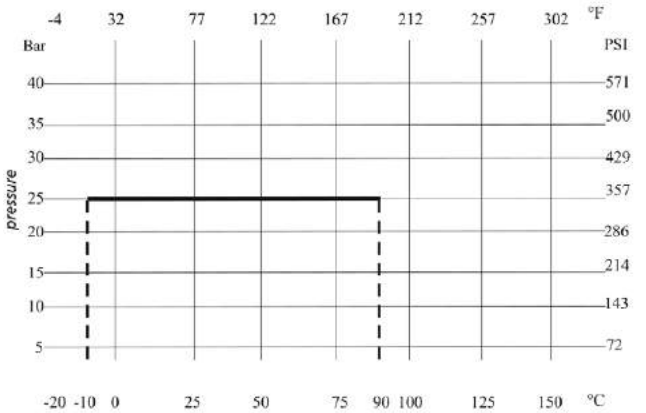
Products in compliance with the directive 2011/65/EU

kiwa ACS



1. **Body:** Brass CW 617N - UNI EN 12165/98
2. **Body End:** Brass CW 617N - UNI EN 2165/98
3. **Seat:** PTFE
4. **Ball:** Brass CW 617N - UNI EN 12165/98 chrome plated
5. **Stem:** Brass CW 614N - UNI EN 12164/98
6. **O'ring:** NBR
7. **Lever:** Steel with plastic coated
8. **Nut:** Zinc plated steel
9. **Screw:** Zinc plated steel
10. **Handle:** Nylon

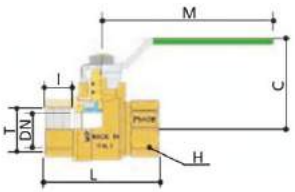
PRESSURE / TEMPERATURE CHART



9203

Full bore universal ball valve for potable water according to the certification below, threaded ends F/F UNI ISO 7/1 Rp



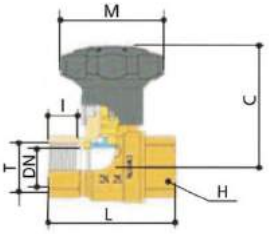


CODE	T	DN	L	M	I	C	H	GR.
9203TR38	G3/8"	10	45	80	10	41	21	120
9203TR12	G1/2"	15	63	90	15	54	26	260
9203TR34	G3/4"	20	71	90	16	58	31	340
9203TR1	G1"	25	83	125	19	66	38	580
9203TR114	G1"-1/4"	32	92	125	21	71	48	860
9203TR112	G1"-1/2"	40	104	140	21	80	55	1380
9203TR2	G2"	50	124	140	26	88	68	2000

9204

Full bore universal ball valve with geared 360-degree action for potable water according to the certification below, threaded ends F/F UNI ISO 7/1 Rp





CODE	T	DN	L	M	I	C	H	GR.
9204TR12	G1/2"	15	63	70	15	66	26	274
9204TR34	G3/4"	20	71	70	16	68	31	364
9204TR1	G1"	25	83	70	19	75	38	576
9204TR114	G1"-1/4"	32	92	70	21	80	48	870
9204TR112	G1"-1/2"	40	104	112	21	109	55	1344
9204TR2	G2"	50	124	112	26	115	68	2030



-20°C ÷ +60°C

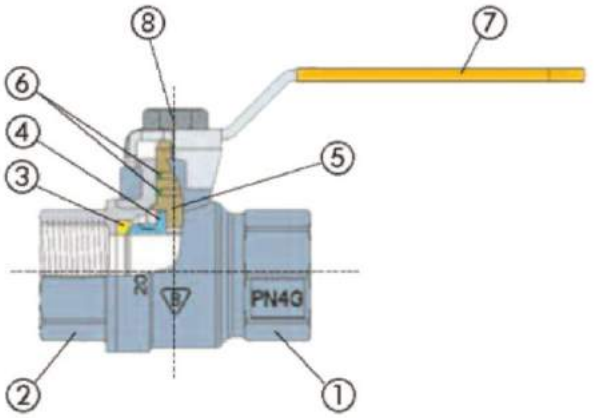
20 Bar

Medium and low pressure gas and for hydrocarbons

From G3/8" to G1"

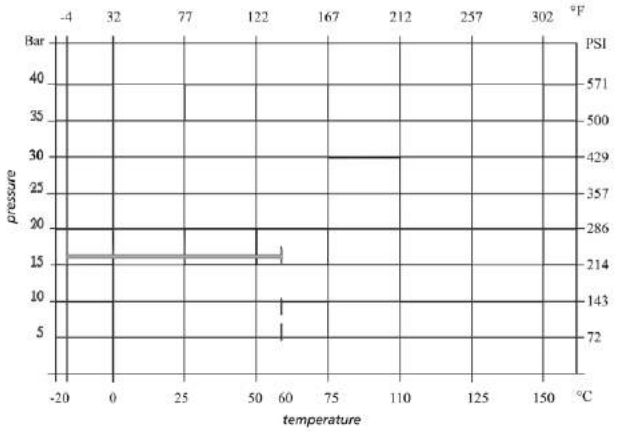
Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU



1. **Body:** Nickel plated brass CW 617N - UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N - UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** chrome plated brass CW 617N - UNI EN 12165/98
5. **Stem:** brass CW 614N - UNI EN 12164/98
6. **O'ring:** HNBR
7. **Lever:** Steel with plastic coated
8. **Nut:** zinc plated steel

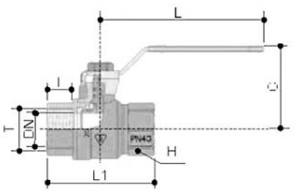
PRESSURE / TEMPERATURE CHART



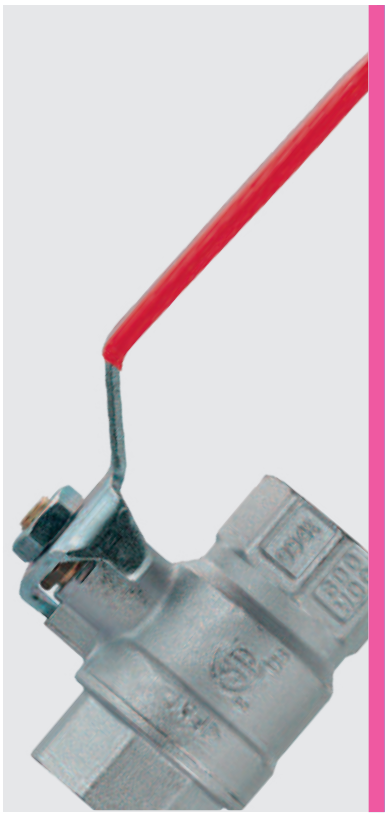
9208

Full bore universal ball valve for gas, threaded ends BSPP F/F - yellow lever





CODE	T	DN	I	L	L1	C	H	GR.
9208TR38	G3/8"	10	16	80	60	41	22	160,0
9208TR12	G1/2"	15	20	90	75	54	26	285,0
9208TR34	G3/4"	20	20	90	80	58	31	370,0
9208TR1	G1"	25	22	125	90	66	40	690,0
9208TR114	G1-1/4"	32	25	125	110	71	49	755,0
9208TR112	G1-1/2"	40	28	140	120	80	55	860,0
9208TR2	2"	50	28	140	140	88	69	930,0



-29°C ÷ +150°C

From 1/4" to 1": 40 Bar
From 1-1/4" to 1-1/2": 32 Bar

Hydraulics, sanitary, compressed air industries and hydrocarbons

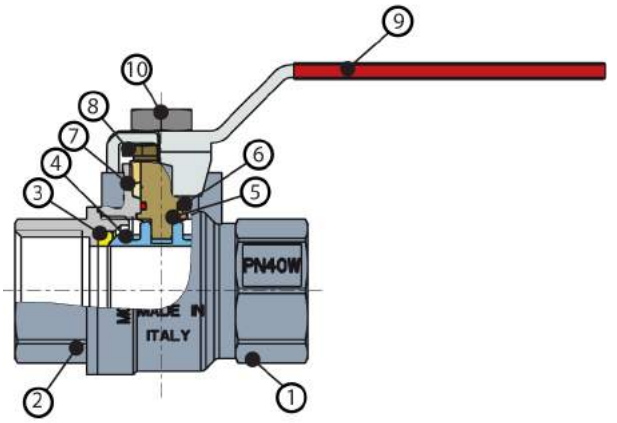
NPT from N1/4" to N 4"
It's available on demand up to 4" thread

REACH

Products in compliance with the directive 2002/95/EC

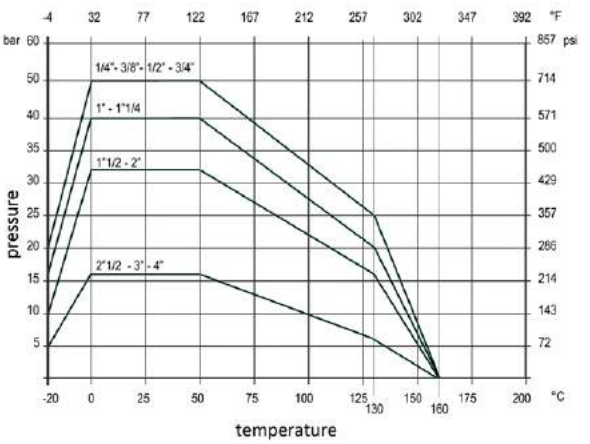
RoHS2

Products in compliance with the directive 2011/65/EU



1. **Body:**Nickel plated brass CW 617N - UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N - UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** Chrome plated brass CW 617N - UNI EN 12165/98
5. **Stem:** Brass CW 614N - UNI EN 12164/98
6. **O'ring:** Fluor carbon rubber
7. **Stem seat:** PTFE
8. **Packing nut:** Brass CW 614N - UNI EN 12164/98
9. **Lever:** Steel with plastic coated
10. **Nut:** Zinc plated steel

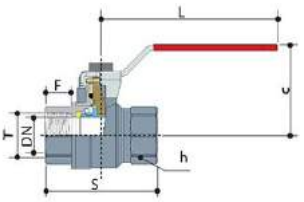
PRESSURE / TEMPERATURE CHART



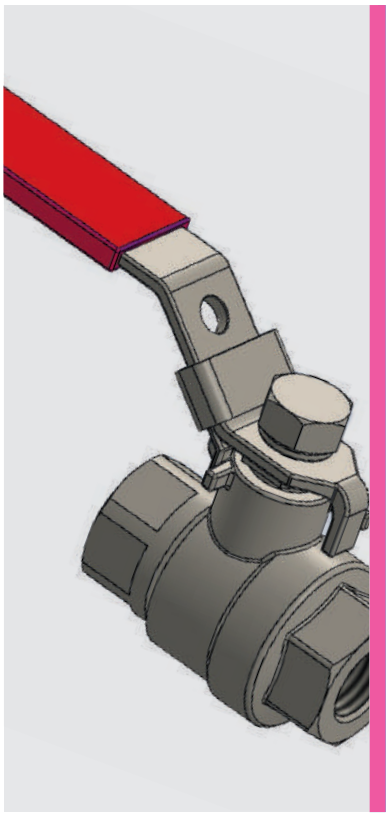
9212

Full bore universal ball valve, threaded ends NPT F/F - red lever





CODE	T	DN	F	S	L	C	H	GR.
9212TR14	N1/4"	10	12,0	45	80	41	21	135,0
9212TR38	N3/8"	10	12,0	45	80	41	21	120,0
9212TR12	N1/2"	15	17,0	63	90	54	26	260,0
9212TR34	N3/4"	20	19,5	71	90	58	31	340,0
9212TR1	N1"	25	21,0	83	125	66	38	590,0
9212TR114	N1"-1/4"	32	22,0	92	125	71	48	850,0
9212TR112	N1"-1/2"	40	23,5	104	140	80	55	1360,0
9212TR2	N2"	50	28,0	124	140	88	68	-
9212TR212	N2-1/2"	60	28,0	140	250	131	85	-
9212TR3	N3"	74	30,5	159	250	140	99	-
9212TR4	N4"	94	38,0	196	250	156	125	-

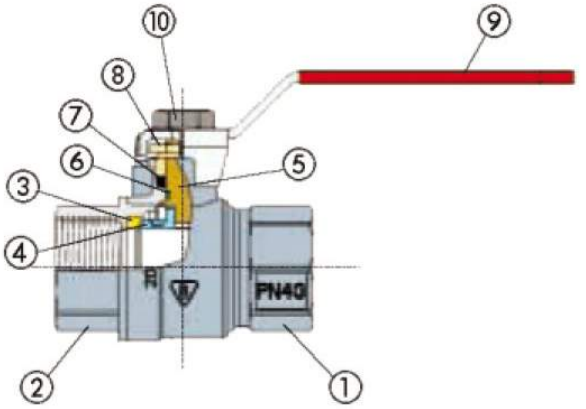


-20°C ÷ +160°C

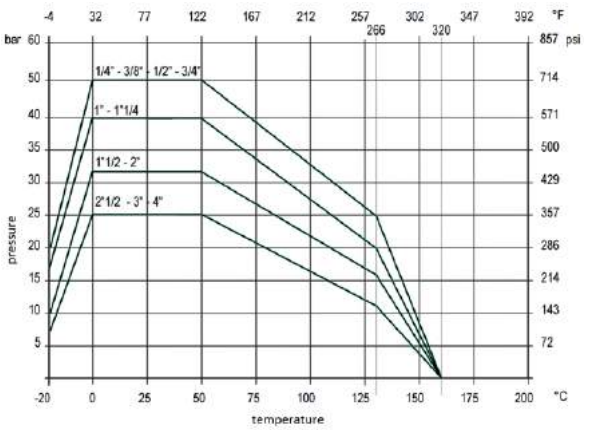
From 1/4" to 3/4": 50 Bar
From 1" to 1-1/4": 40 Bar
From 1-1/2" to 2": 32 Bar

Hydraulics, sanitary, compressed air industries and hydrocarbons

Parallel UNI ISO 228 from G1/4" to G4"



PRESSURE / TEMPERATURE CHART



FEATURES

Tierre Group lockable ball valves have been projected in order to prevent potentially dangerous consequences caused by unintended operation during services activities.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

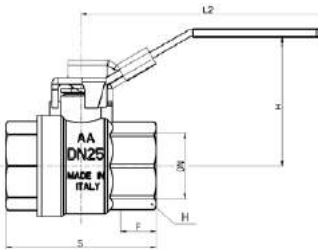
WRAS ACS

1. **Body:** Nickel plated brass CW 617N - UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N - UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** Chrome plated brass CW 617N - UNI EN 12165/98
5. **Stem:** Brass CW 614N - UNI EN 12164/98
6. **O'ring:** HNBR
7. **Stem seat:** PTFE
8. **Packing nut:** Brass CW 614N - UNI EN 12164/98
9. **Lever:** Steel with plastic coated
10. **Nut:** Zinc plated steel

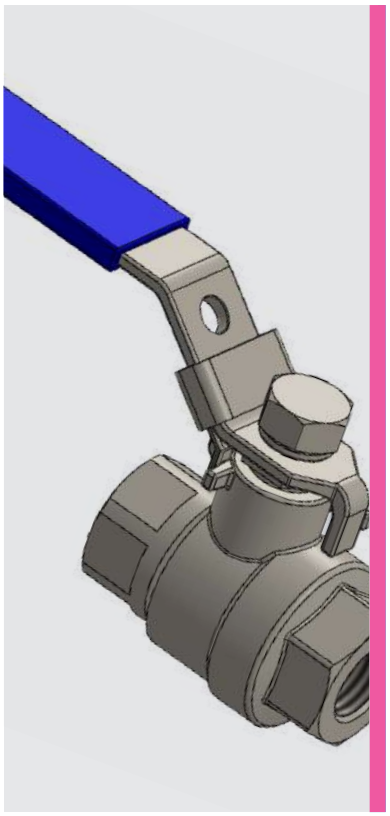
9214

Lockable full bore universal ball valve, threaded ends BSPP F/F - red lever





CODE	T	DN	F	S	C	L	H	GR.
9214TR14	G1/4"	10	12	45	41	80	21	135,0
9214TR38	G3/8"	10	12	45	41	80	21	120,0
9214TR12	G1/2"	15	17	63	54	90	26	255,0
9214TR34	G3/4"	20	19,5	71	58	90	31	340,0
9214TR1	G1"	25	21	83	66	125	38	580,0
9214TR114	G1-1/4"	32	22	92	71	125	48	860,0
9214TR112	G1-1/2"	40	23,5	104	80	140	55	1360,0
9214TR2	G2"	50	28	124	88	140	68	2020,0
9214TR212	G2-1/2"	60	28	140	131	250	85	2095,0



-20°C ÷ +160°C

From 1/4" to 3/4": 50 Bar
From 1" to 1-1/4": 40 Bar
From 1-1/2" to 2": 32 Bar
From 2-1/2" to 4": 16 Bar

Hydraulics, sanitary, compressed air industries and hydrocarbons

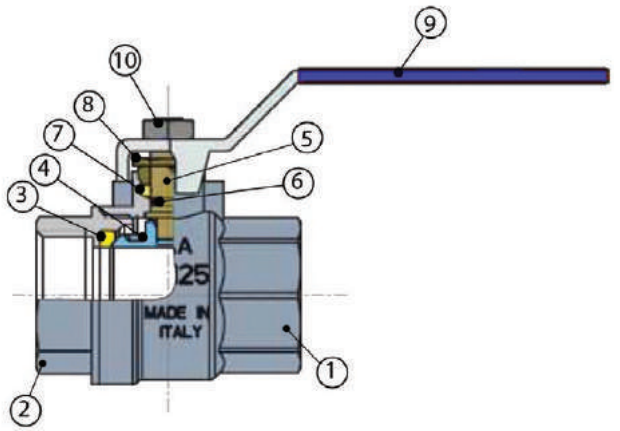
Parallel UNI ISO 228 from G1/4" to G4"

REACH

Products in compliance with the directive 2002/95/EC

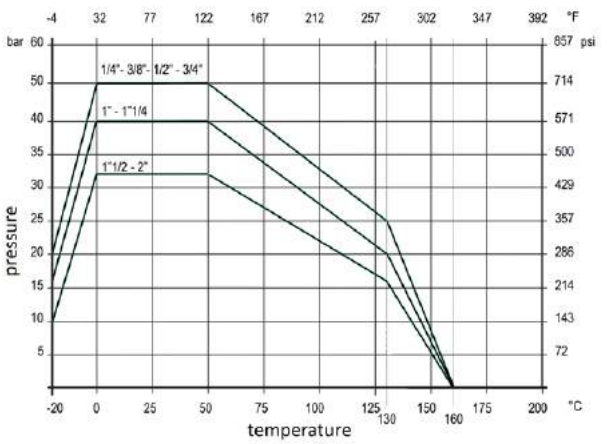
RoHS2

Products in compliance with the directive 2011/65/EU



1. **Body:** Nickel plated brass CW 617N - UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N - UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** Chrome plated brass CW 617N - UNI EN 12165/98
5. **Stem:** Brass CW 614N - UNI EN 12164/98
6. **O'ring:** NBR
7. **Stem seat:** PTFE
8. **Packing nut:** Brass CW 614N - UNI EN 12164/98
9. **Lever:** Steel with plastic coated
10. **Nut:** Zinc plated steel

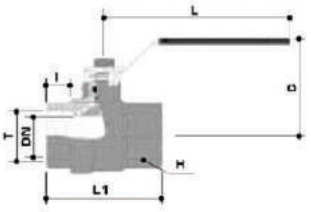
PRESSURE / TEMPERATURE CHART



9210

Full bore universal ball valve, threaded ends BSPP F/F - blue lever



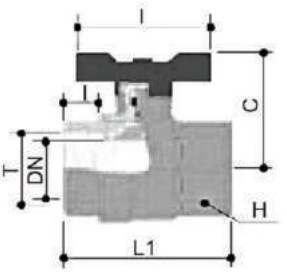


CODE	T	DN	F	S	C	L	H	GR.
9210TR14	G1/4"	10	9	42	35	80	17	115,0
9210TR38	G3/8"	10	9	44	41	80	20	120,0
9210TR12	G1/2"	15	11	50	54	92	25	175,0
9210TR34	G3/4"	20	13	58	58	92	31	250,0
9210TR1	G1"	25	15	70	66	115	38	460,0
9210TR114	G1"-1/4"	32	17	80	71	115	47	690,0
9210TR112	G1"-1/2"	40	18	91	80	150	54	990,0
9210TR2	G2"	50	20,5	108	88	150	66	1570,0
9210TR212	G2"-1/2"	60	20	132	0	240	84	3000,0
9210TR3	G3"	74	24	151	0	240	96	4000,0
9210TR4	G4"	94	27	179	0	240	123	7000,0

9240

Full bore universal ball valve, threaded ends BSPP F/F - blue butterfly lever



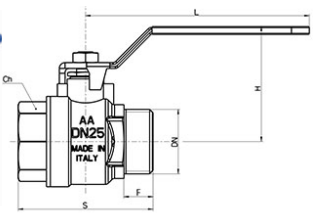


CODE	T	DN	F	S	C	L	H	GR.
9240TR14	G1/4"	10	9	42	35	50	17	100,0
9240TR38	G3/8"	10	9	44	41	50	20	100,0
9240TR12	G1/2"	15	11	50	54	61	25	155,0
9240TR34	G3/4"	20	13	58	58	61	31	230,0
9240TR1	G1"	25	15	70	66	72	38	415,0

9220

Full bore universal ball valve, threaded ends BSPP M/F - blue lever



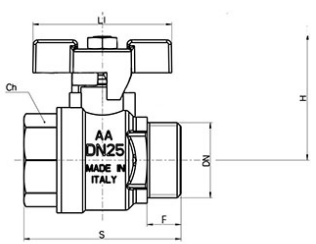


CODE	T	DN	F	S	C	L	H	GR.
9220TR14	G1/4"	10	9	44	35	80	17	115,0
9220TR38	G3/8"	10	9	45	41	80	20	120,0
9220TR12	G1/2"	15	11	50	54	92	25	170,0
9220TR34	G3/4"	20	13	58	58	92	31	260,0
9220TR1	G1"	25	15	70	66	115	38	410,0
9220TR114	G1"-1/4"	32	17	81	71	115	47	620,0
9220TR112	G1"-1/2"	40	18	91	80	150	54	930,0
9220TR2	G2"	50	20,5	108	88	150	66	1430,0

9250

Full bore universal ball valve, threaded ends BSPP M/F - blue butterfly lever



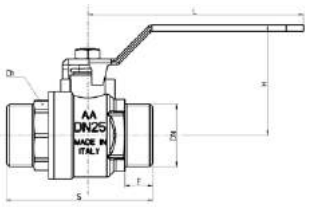


CODE	T	DN	F	S	C	L1	H	GR.
9250TR14	G1/4"	10	9	44	35	50	17	115,0
9250TR38	G3/8"	10	9	45	41	50	20	120,0
9250TR12	G1/2"	15	11	50	54	61	25	170,0
9250TR34	G3/4"	20	13	58	58	61	31	235,0
9250TR1	G1"	25	15	70	66	72	38	380,0

9230

Full bore universal ball valve, threaded ends BSPP M/M - blue lever



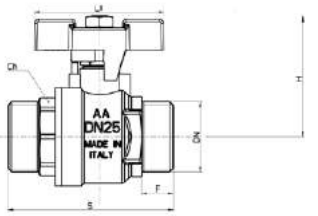


CODE	T	DN	F	S	C	L	H	GR.
9230TR14	G1/4"	10	9	52	35	80	17	120,0
9230TR38	G3/8"	10	9	52	41	80	20	120,0
9230TR12	G1/2"	15	11	58	54	92	25	190,0
9230TR34	G3/4"	20	13	66	58	92	31	275,0
9230TR1	G1"	25	15	79	66	115	38	430,0
9230TR114	G1"-1/4"	32	17	91	61	115	47	780,0
9230TR112	G1"-1/2"	40	18	102	72	150	54	1150,0
9230TR2	G2"	50	20,5	118	77	150	66	1700,0

9260

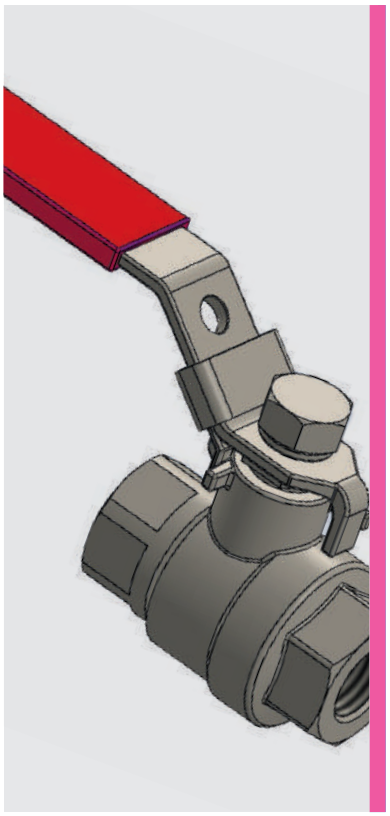
Full bore universal ball valve, thraeded ends M/M - blue butterfly lever





CODE	T	DN	F	S	C	L1	H	GR.
9260TR14	G1/4"	10	9	52	35	50	17	120,0
9260TR38	G3/8"	10	9	52	41	50	20	120,0
9260TR12	G1/2"	15	11	58	54	61	25	170,0
9260TR34	G3/4"	20	13	66	58	61	31	260,0
9260TR1	G1"	25	15	79	66	72	38	463,0





-20°C ÷ +160°C

From 1/4" to 3/4": 50 Bar
From 1" to 1-1/4": 40 Bar
From 1-1/2" to 2": 32 Bar

Air, neutral gases, water, vapour, hydronic solarand heating installation. Suitable for installations with a glicol mix up to 50%.

UNI ISO 228 from G1/4" to G2"

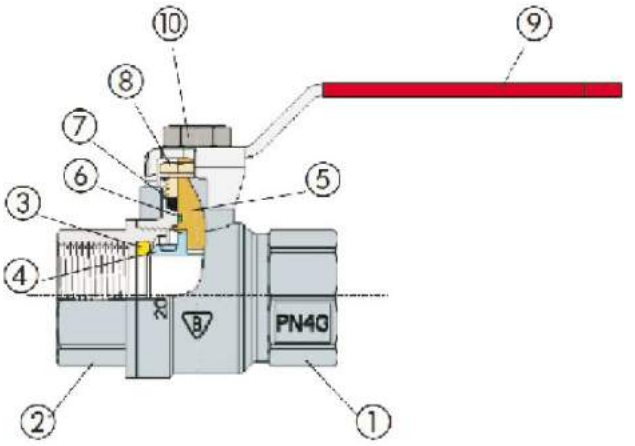
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

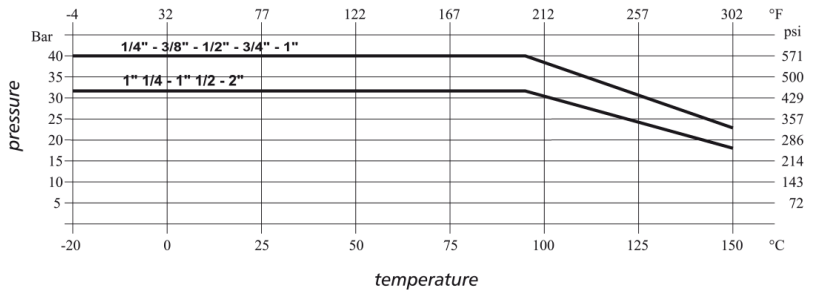
Products in compliance with the directive 2011/65/EU

WRAS ACS



1. **Body:** Nickel plated brass CW 617N – UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N – UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** chrome plated brass CW 617N – UNI EN 12165/98
5. **Stem:** brass CW 614N – UNI EN 12164/98
6. **O'ring:** HNBR
7. **Stem seat:** PTFE
8. **Packing nut:** brass CW 614N – UNI EN 12164/98
9. **Lever:** Steel with plastic coated
10. **Nut:** zinc plated steel

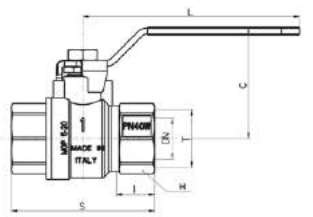
PRESSURE / TEMPERATURE CHART



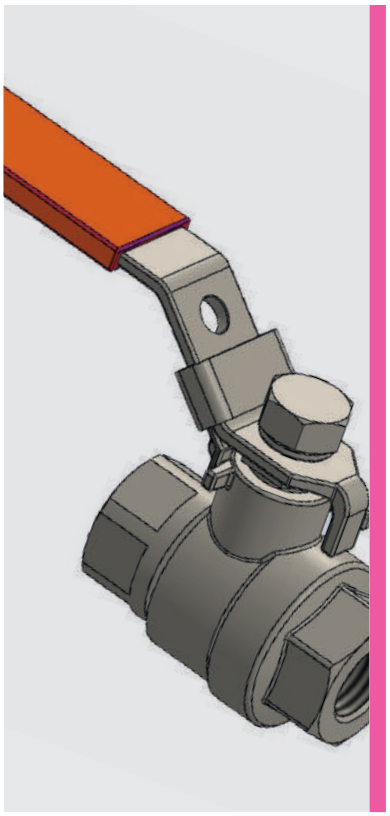
9210H

Full bore universal ball valve, HEAVY SERIES, threaded ends BSPP F/F





CODE	T	DN	I	L	S	C	H	GR.
9210TRH38	G3/8"	10	10	80	45	41	21	120
9210TRH12	G1/2"	15	15	90	63	54	26	255
9210TRH34	G3/4"	20	16	90	71	58	31	340
9210TRH1	G1"	25	19	125	83	66	38	580
9210TRH114	G1"-1/4"	32	21	125	92	71	48	860
9210TRH112	G1"-1/2"	40	21	140	104	80	55	1360
9210TRH2	G2"	50	26	140	124	88	68	2020



-30°C ÷ +180°C

From 3/8" to 3/4": 50 Bar
From 1" to 1-1/4": 40 Bar
From 1-1/2" to 2": 32 Bar

Hydraulic, sanitary, compressed air industries

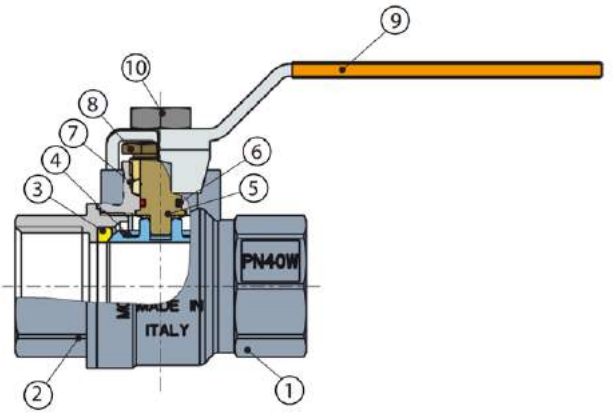
Parallel UNI ISO 228 from G1/4" to G2"

REACH

Products in compliance with the directive 2002/95/EC

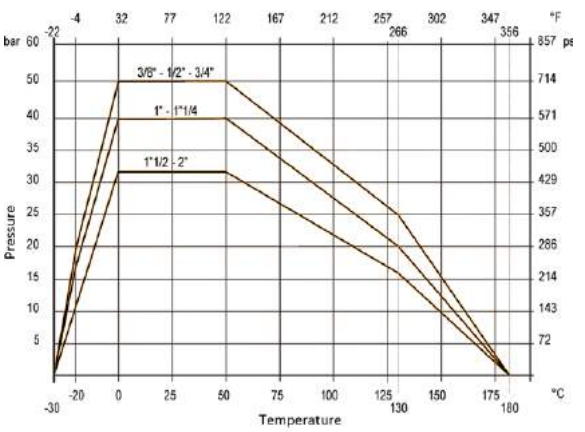
RoHS2

Products in compliance with the directive 2011/65/EU



1. **Body:** Nickel plated brass CW 617N – UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N – UNI EN 12165/98
3. **Seat:** Graphite reinforced PTFE
4. **Ball:** Chrome plated brass CW 617N – UNI EN 12165/98
5. **Stem:** Brass CW 614N – UNI EN 12164/98
6. **O'ring:** FP - Fluor carbon rubber
7. **Stem seat:** Graphite reinforced PTFE
8. **Packing nut:** Brass CW 614N – UNI EN 12164/98
9. **Lever:** Steel with plastic coated
10. **Nut:** Stainless steel AISI 304

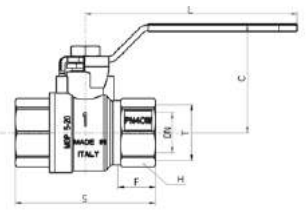
PRESSURE / TEMPERATURE CHART



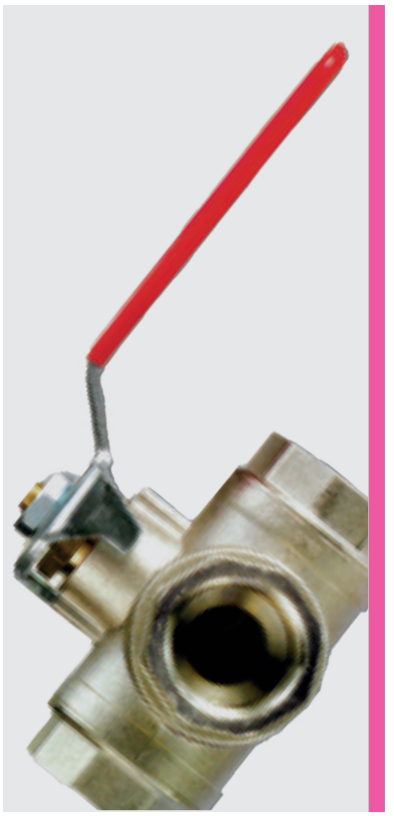
9210HS

Full bore universal ball valve, HEAVY SERIES FOR HIGH TEMPERATURE, threaded ends BSPP F/F





CODE	T	DN	F	S	L	C	H
9210TRHS38	G3/8"	10	12	45	80	41	21
9210TRHS12	G1/2"	15	15	63	90	54	26
9210TRHS34	G3/4"	20	16	71	90	58	31
9210TRHS1	G1"	25	19	83	125	66	38
9210TRHS114	G1"-1/4"	32	20,5	92	125	71	48
9210TRHS112	G1"-1/2"	40	21,5	104	140	80	55
9210TRHS2	G2"	50	24,5	124	140	88	68



-20°C ÷ +150°C

From 1/4" to 1": 32 Bar
From 1-1/4" to 2": 25 Bar

Hydraulic, sanitary, irrigation and compressed air industries and system of irrigation

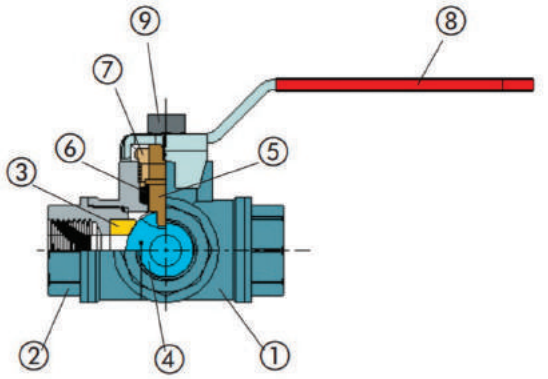
Parallel UNI ISO 228 from G1/4" to G2"

REACH

Products in compliance with the directive 2002/95/EC

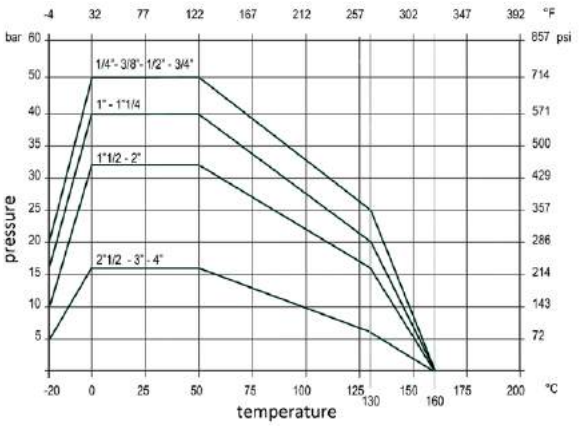
RoHS2

Products in compliance with the directive 2011/65/EU



1. **Body:** Nickel plated brass CW 617N - UNI EN 12165/98
2. **Body End:** Nickel plated brass CW 617N - UNI EN 12165/98
3. **Seat:** PTFE
4. **Ball:** Chrome plated brass CW 617N - UNI EN 12165/98
5. **Stem:** Brass CW 614N - UNI EN 12164/98
6. **Stem seat:** PTFE
7. **Packing nut:** Brass CW 614N - UNI EN 12164/98
8. **Lever:** Steel with plastic coated
9. **Nut:** Zinc plated steel

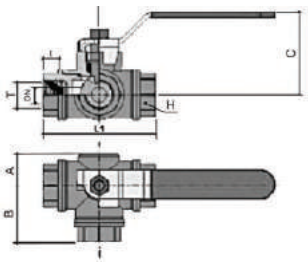
PRESSURE / TEMPERATURE CHART



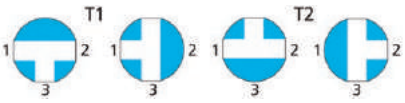
9270

Three ways reduced bore universal ball valve T PORT, threaded ends BSPP F/F/F - red lever





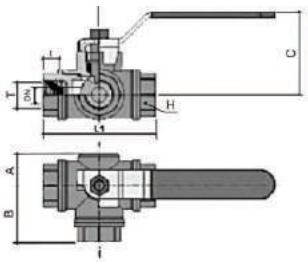
CODE	T	DN	I	L	L1	C	A	B	H	GR.
9270TR14	G1/4"	10	12	90	74	58	22	37	22	450,0
9270TR38	G3/8"	10	12	90	74	58	22	37	22	420,0
9270TR12	G1/2"	12	14	125	80	60	24	39	29	660,0
9270TR34	G3/4"	15	16	125	90	64	28	46	34	870,0
9270TR1	G1"	20	19	140	105	73	31	52	42	1530,0
9270TR114	G1"-1/4"	25	21	140	115	79	35	58	50	1840,0
9270TR112	G1"-1/2"	32	23	220	138	100	42	69	57	3650,0
9270TR2	G2"	40	26	220	161	105	48	80	68	5170,0



9280

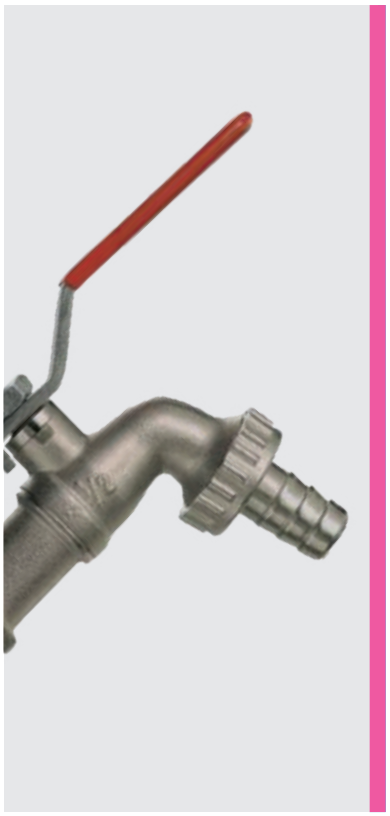
Three ways reduced bore universal ball valve L PORT, threaded ends BSPP F/F/F - red lever





CODE	T	DN	I	L	L1	C	A	B	H	GR.
9280TR14	G1/4"	10	12	90	74	58	22	37	22	450,0
9280TR38	G3/8"	10	12	90	74	58	22	37	22	420,0
9280TR12	G1/2"	12	14	125	80	60	24	39	29	650,0
9280TR34	G3/4"	15	16	125	90	64	28	46	34	860,0
9280TR1	G1"	20	19	140	105	73	31	52	42	1490,0
9280TR114	G1"-1/4"	25	21	140	115	79	35	58	50	1790,0
9280TR112	G1"-1/2"	32	23	220	138	100	42	69	57	3610,0
9280TR2	G2"	40	26	220	161	105	48	80	68	5200,0



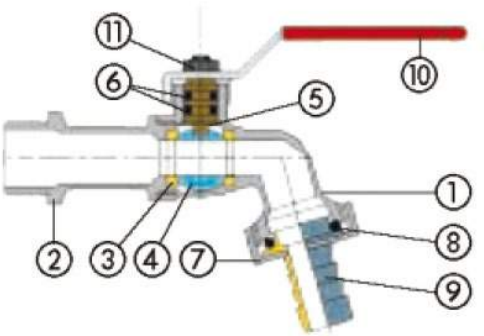


From -10°C to +110°C

16 Bar

Water

Parallel UNI ISO 228
from G3/8" to G1"



REACH

Products in compliance with
the directive 2002/95/EC

RoHS2

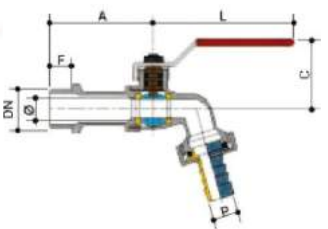
Products in compliance with
the directive 2011/65/EU

1 **Body:** Nickel plated brass CW 617N – UNI EN 12165/98
2 **Body End:** Nickel plated brass CW 617N – UNI EN 12165/98
3 **Seat:** PTFE
4 **Ball:** Chrome plated brass CW 614N – UNI EN 12165/98
5 **Stem:** brass CW 614N – UNI EN 12164/98
6 **Oring:** NBR
7 **Hose tall nut:** Brass CW 614N – UNI EN 12164/98
8 **Seal hose tall nut:** NBR
9 **Hose connector:** Brass CW 614N – UNI EN 12164/98
10 **Lever:** Steel with plastic coated
Nut: Zinc plated steel

9285

Ball bibcock with hose connector





CODE	T	DN	I	L	L1	A	P	C	GR.
9285TR38	G3/8"	12	10,0	82	51	52	14	38	185,0
9285TR12	G1/2"	16	11,5	82	51	54	14	38	190,0
9285TR34	G3/4"	20	14,0	82	51	62	20	40	250,0
9285TR1	G1"	26	16,0	82	51	69	26	44	425,0

BRASS BALL VALVES / DRAIN VALVE

9611

Drain valve



CODE	T
9611TR18	R1/8"
9611TR14	R1/4"
9611TR38	R3/8"
9611TR12	R1/2"

INDUSTRIAL VALVES
SAFETY VALVE

PLUS

PRECISE REGULATION ABLE TO ENSURE THE HIGHEST ENERGY SAVING

OPTIMIZED DIMENSIONS & PERFORMANCES

LARGE RANGE OF CALIBRATION



p. 619 /**9613**



p. 619 / **9614**



p. 620 / **9615**



-10°C ÷ +80°C with NBR seal
-10°C ÷ +200°C with VITON seal

20 Bar

Organisation, the safety valve can be used for air, coolants and inert gases belonging to group 2 (Article 9 directiva 97/23/CE)Compressed air free from impurities for 9614

Parallel UNI ISO 228 from G1/4" to G1/2"

Body: Brass CW614N EN12164:98
Pad: NBR or VITON Sh50
Shutter: Brass CW614N EN 12164:98
Rod: EN 10263-2-4
Spring: EN 10270-1-DH
Nut: Brass CW614N EN12164:98
Regulation Screw: Brass CW614N EN12164:98

FEATURES

The valve opens when the pressure accumulated inside the container exceeds the calibrated valve pressure value by 10% and then re-closes when the pressure drops by more than 20%

REACH

Products in compliance with the directive 2002/95/EC

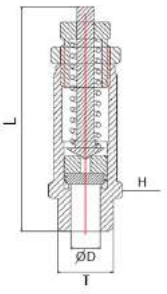
RoHS2

Products in compliance with the directive 2011/65/EU

9613

Safety valve set



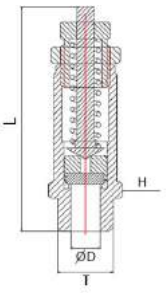


CODE	T	ØD INT.	H	L	CALIBRATION (BAR)	GR.
9613TR14	G1/4"	7	15	50	0,5 - 15	35,0
9613TR38	G3/8"	11	20	63	0,5 - 16	83,0
9613TR12	G1/2"	11	22	65	0,5 - 16	96,0

9614

Safety valve adjustable



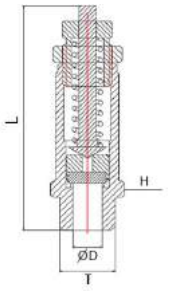


CODE	T	ØD INT.	H	L	CALIBRATION (BAR)	GR.
9614TR14	G1/4"	7	15	50	0,5 - 18	42,0
9614TR38	G3/8"	11	20	75	1 - 14	95,0
9614TR12	G1/2"	11	22	78	1 - 14	108,0

9615

Safety valve TUV-CE certifield





CODE	T	ØD INT.	H	L	CALIBRATION (BAR)	GR.
9615TR14	G1/4"	7	17	62	11	67,5
9615TR38	G3/8"	7	20	64	11	120,0
9615TR12	G1/2"	7	22	66	11	133,0

INDUSTRIAL VALVES
INOX BALL VALVES

PLUS

WIDE SOLUTIONS ACCORDINGLY TO EVERY KIND OF APPLICATION

OPTIMIZED DIMENSIONS & PERFORMANCES

AVAILABLE DM174 AND EC1935/2004

INOX MINIBALL VALVES



p. 623 / **9170**



p. 623 / **9180**

INOX BALL VALVES



FULL BORE
INOX AISI 316

p. 626 / **9320**



THREE PIECES
FULL BORE
INOX AISI 316

p. 628 / **9325**



THREE WAYS
REDUCED BORE
INOX AISI 316

p. 630 / **9340**



p. 630 / **9342**



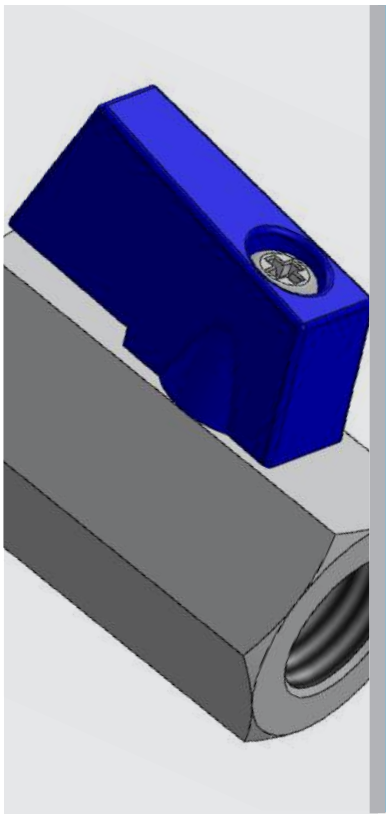
FLANGED
ENDS PN 16
BALL VALVES

p. 632 / **9350**



INLINE FILTER INOX

p. 633 / **9400**



-25°C ÷ +180°C

63 Bar

Compressed air, water and fluids suitable with construction materials

Parallel gas BSPP ISO 228 from G1/8" to G1/2"

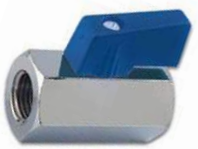
Body: Stainless steel AISI 316
Ball: Stainless steel AISI 316
Gasket seat: PTFE
Lever: Aluminum

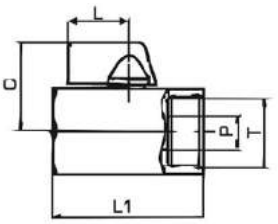
Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

9170

Mini ball valve F/F Inox AISI 316



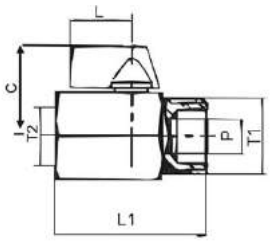


CODE	T	DN	P	L	L1	C	GR.
9170TR14	G1/4"	6	7,0	22,8	42,0	26,5	83,0
9170TR38	G3/8"	8	7,0	22,8	42,0	26,5	82,0
9170TR12	G1/2"	10	9,2	22,8	46,0	28,3	116,0
9170TR34	G3/4"	12	12,5	22,8	54,0	31,5	193,0
9170TR1	G1"	15	15,0	22,8	65,0	34,0	235,0

9180

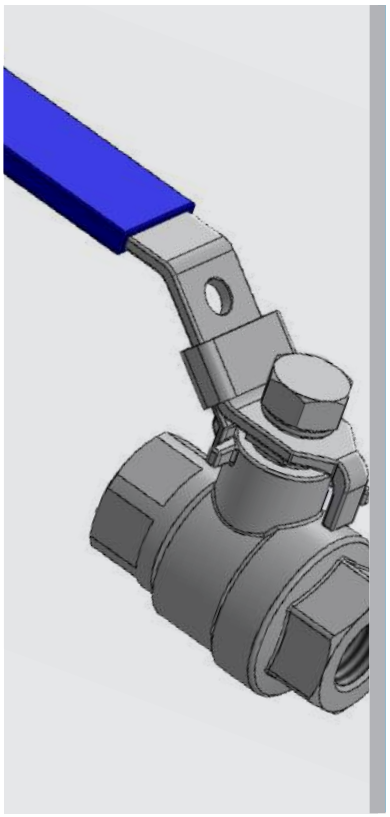
Mini ball valve M/F Inox AISI 316





CODE	T1	T2	DN	P	L	L1	C	GR.
9180TR14	R1/4"	G1/4"	6	7,0	22,8	42,0	26,5	104,0
9180TR38	R3/8"	G3/8"	8	7,0	22,8	42,0	26,5	92,0
9180TR12	R1/2"	G1/2"	10	9,2	22,8	46,0	28,3	125,0
9180TR34	R3/4"	G3/4"	12	12,5	22,8	54,0	31,5	211,0
9180TR1	R1"	G1"	15	15,0	22,8	65,0	34,0	259,0





From -25°C to +180°C

From 1/4" to 1": 85 Bar
From 1-1/4" to 1-1/2": 70 Bar
From 2" to 4": 63 Bar

Industrial, chemical and food installations

Parallel UNI ISO 228
from G1/4" to G4"

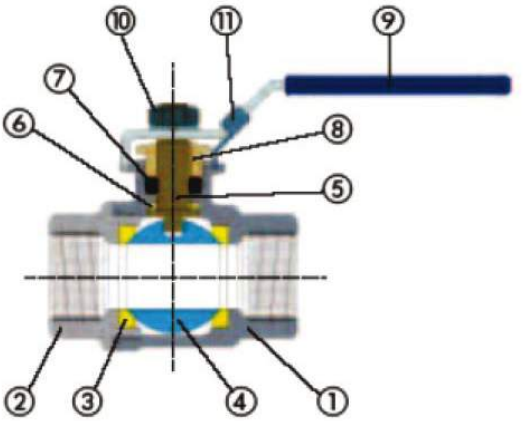
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

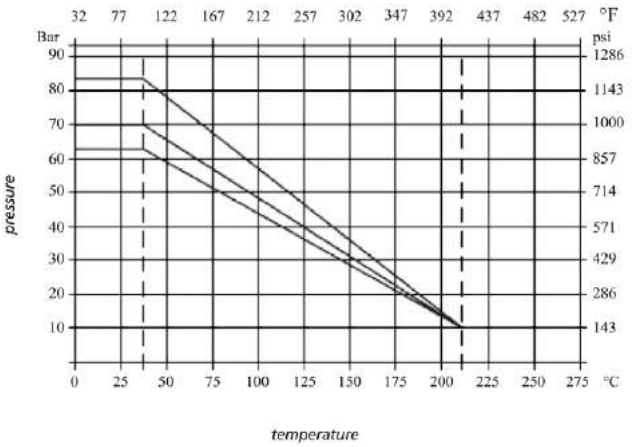
Products in compliance with the directive 2011/65/EU

DM174 EC1935 TIFQ TIFQ



1. **Body:** Stainless steel AISI 316
2. **Body End:** Stainless steel AISI 316
3. **Seat:** PTFE 15% glassfiber
4. **Ball:** Stainless steel AISI 316
5. **Stem:** Stainless steel AISI 316
6. **Seal:** PTFE
7. **Stem seat:** PTFE
8. **Packing nut:** Stainless steel AISI 304
9. **Lever:** Stainless steel AISI 304 with plastic coated
10. **Nut:** Stainless steel AISI 304
11. **Locking:** Stainless steel AISI 304

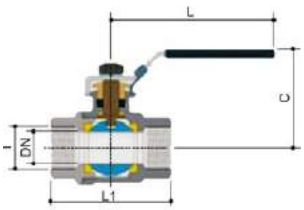
PRESSURE / TEMPERATURE CHART



9320

Full bore universal ball valve, Inox AISI 316, threaded ends BSPP F/F - blue lever





CODE	T	DN	L	L1	C	GR.
9320TR14	G1/4"	11,6	100	49,0	48	230,0
9320TR38	G3/8"	12,7	100	49,0	48	230,0
9320TR12	G1/2"	15,0	100	55,0	52	260,0
9320TR34	G3/4"	20,0	115	66,0	57	480,0
9320TR1	G1"	25,0	150	78,5	75	650,0
9320TR114	G1"-1/4"	32,0	150	90,0	80	1140,0
9320TR112	G1"-1/2"	40,0	180	98,5	95	1650,0
9320TR2	G2"	50,0	180	120,0	96	2750,0
9320TR212	G2" 1/2"	65,0	245	147,0	125	4900,0
9320TR3	G3"	76,0	245	172,0	135	7700,0
9320TR4	G4"	94,0	278	220,0	160	16100,0



From -25°C to +180°C

From 1/4" to 1": 85 Bar
From 1-1/4" to 1-1/2": 70 Bar
From 2" to 4": 60 Bar

Industrial, chemical and food installations

Taper UNI ISO 7
from R1/4" to R4"

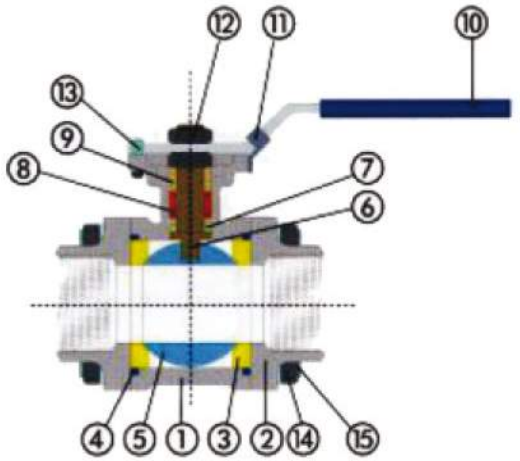
REACH

Products in compliance with the directive 2002/95/EC

RoHS2

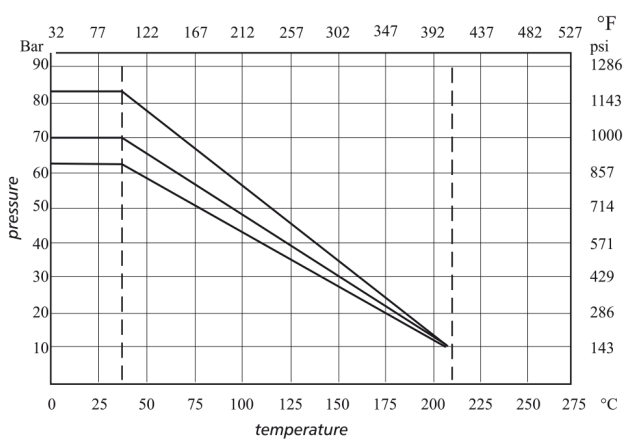
Products in compliance with the directive 2011/65/EU

DM174 EC1935



1. **Body:** Stainless steel AISI 316
2. **Body End:** Stainless steel AISI 316
3. **Seat:** PTFE 15% glassfiber
4. **Body seat:** PTFE
5. **Ball:** Stainless steel AISI 316
6. **Stem:** Stainless steel AISI 316
7. **Seal:** PTFE
8. **Stem seat:** PTFE
9. **Packing nut:** Stainless steel AISI 304
10. **Lever:** Stainless steel AISI 304 with plastic coated
11. **Locking:** Stainless steel AISI 304
12. **Nut:** Stainless steel AISI 304
13. **Stop PIN:** Stainless steel AISI 304
14. **Nut:** Stainless steel AISI 304
15. **Bolt:** Stainless steel AISI 304

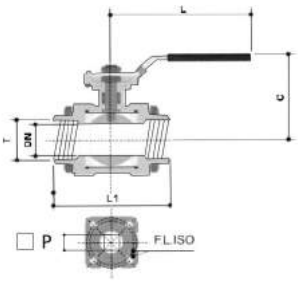
PRESSURE / TEMPERATURE CHART



9325

Three pieces full bore universal ball valve Inox AISI 316 threaded ends BSPP F/F, ISO 5211 mounting pad - blue lever





CODE	T	DN	L	L1	C	F.L. ISO	P	GR.
9325TR14	R1/4"	11,0	117	48	62	F03/F04	9	380,0
9325TR38	R3/8"	12,7	117	48	63	F03/F04	9	380,0
9325TR12	R1/2"	15,0	117	55	68	F03/F04	9	420,0
9325TR34	R3/4"	20,0	135	74	72	F04/F05	11	820,0
9325TR1	R1"	25,0	135	81	75	F04/F05	11	1050,0
9325TR114	R1"-1/4"	32,0	203	91	90	F05/F07	14	1840,0
9325TR112	R1"-1/2"	40,0	203	103	95	F05/F07	14	2530,0
9325TR2	R2"	50,0	203	120	102	F05/F07	14	3520,0
9325TR212	R2"-1/2"	65,0	260	142	140	F07/F10	17	8800,0
9325TR3	R3"	80,0	260	182	162	F07/F10	17	12600,0
9325TR4	R4"	100,0	280	220	170	F07/F10	17	19450,0



-50°C ÷ +250°C

From 1/4" to 1": 83 Bar
From 1-1/4" to 1-1/2": 69 Bar
For 2" : 63 Bar

Industrial, chemical and food installations

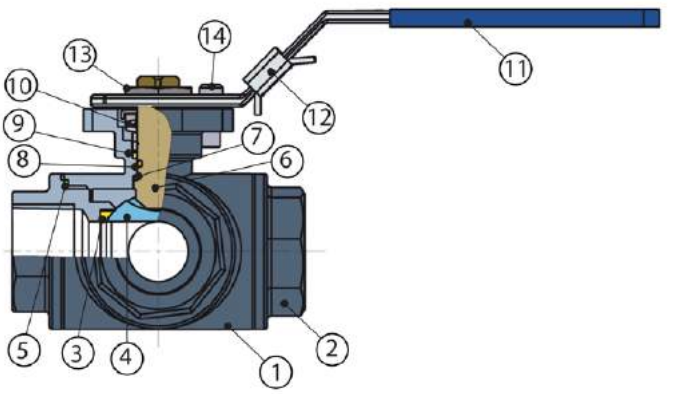
Taper UNI ISO 228
from G1/4" to G2"

REACH

Products in compliance with the directive 2002/95/EC

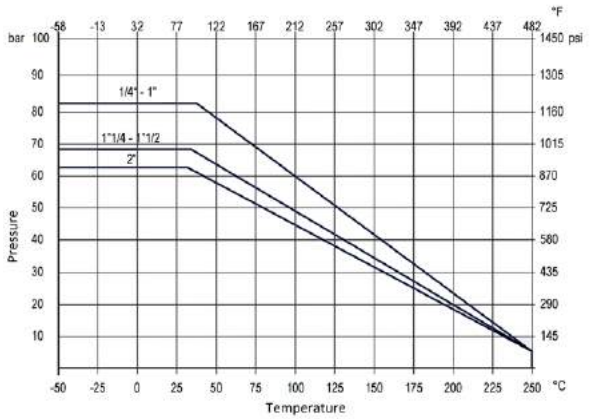
RoHS2

Products in compliance with the directive 2011/65/EU



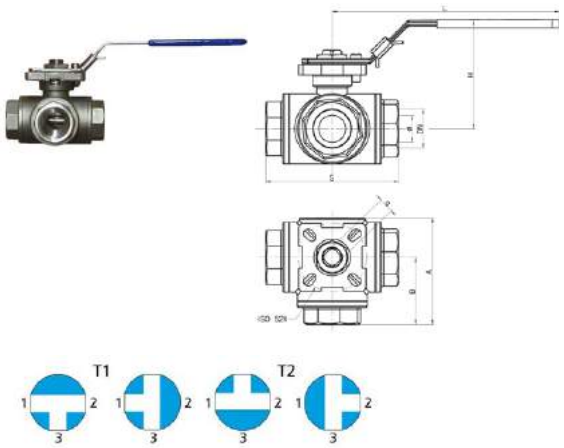
1. **Body:** Stainless steel AISI 316
2. **Body End:** Stainless steel AISI 316
3. **Seat:** PPL
4. **Ball:** Stainless steel AISI 316
5. **Gasket:** PPL
6. **Stem:** Stainless steel AISI 316
7. **Oring:** FP
8. **Stem packing:** PPL
9. **Packing nut:** Stainless steel AISI 316
10. **Handle:** Stainless steel AISI 304 with plastic coated
11. **Locking:** Stainless steel AISI 304
12. **Nut:** Stainless steel AISI 304
13. **Stop PIN:** Stainless steel AISI 304

PRESSURE / TEMPERATURE CHART



9340

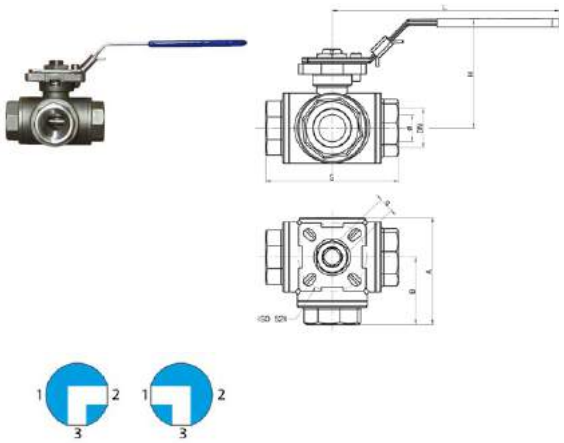
Three ways reduced bore universal ball valves as T PORT Inox AISI 316, threaded ends BSPP F/F/F, ISO 5211 mounting pad



CODE	T	DN	S	A	B	H	H1	F.L. ISO	C	H	GR.
9340TR14	G1/4"	9,5	75	57,5	37,5	66	36,8	F03/F04	9	8,5	780,0
9340TR38	G3/8"	11	75	57,5	37,5	66	36,8	F03/F04	9	8,5	770,0
9340TR12	G1/2"	12	75	57,5	37,5	66	36,8	F03/F04	9	8,5	690,0
9340TR34	G3/4"	15	85	65,5	42,5	72	41,2	F04/F05	11	11,0	1136,0
9340TR1	G1"	20	100	79,0	50,0	77	46,5	F04/F05	11	12,0	1764,0
9340TR112	G1"-1/4"	25	122	97,0	61,0	92	56,0	F05/F07	14	13,5	2780,0
9340TR114	G1"-1/2"	32	131	106,5	65,5	96	60,0	F05/F07	14	13,5	4000,0
9340TR2	G2"	40	158	129,0	79,0	107	70,5	F05/F07	14	13,0	6800,0

9342

Three ways reduced bore universal ball valves as L PORT Inox AISI 316, threaded ends BSPP F/F/F, ISO 5211 mounting pad



CODE	T	DN	S	A	B	H	H1	F.L. ISO	C	H	GR.
9342TR14	G1/4"	9,5	75	57,5	37,5	66	36,8	F03/F04	9	8,5	780,0
9342TR38	G3/8"	11	75	57,5	37,5	66	36,8	F03/F04	9	8,5	770,0
9342TR12	G1/2"	12	75	57,5	37,5	66	36,8	F03/F04	9	8,5	690,0
9342TR34	G3/4"	15	85	65,5	42,5	72	41,2	F04/F05	11	11,0	1136,0
9342TR1	G1"	20	100	79,0	50,0	77	46,5	F04/F05	11	12,0	1764,0
9342TR112	G1"-1/4"	25	122	97,0	61,0	92	56,0	F05/F07	14	13,5	2780,0
9342TR114	G1"-1/2"	32	131	106,5	65,5	96	60,0	F05/F07	14	13,5	4000,0
9342TR2	G2"	40	158	129,0	79,0	107	70,5	F05/F07	14	13,0	6800,0

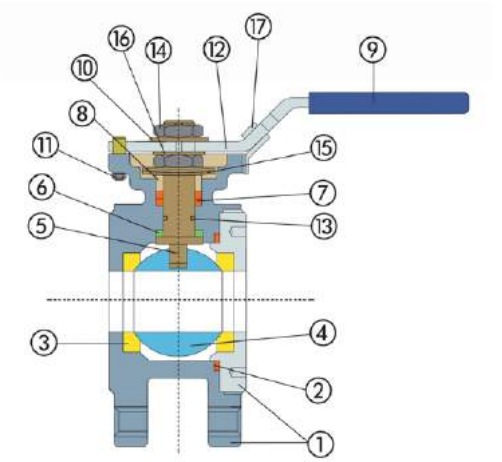


From -20°C to +220°C

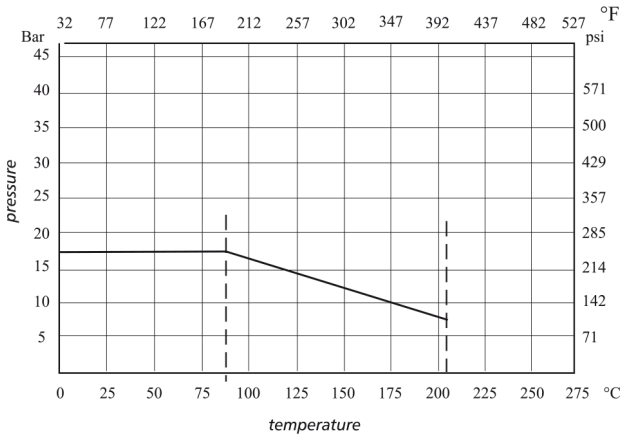
16 Bar

Industrial, chemical and food installations

Flanged endds PN16 – ISO 5211 top for actuator



PRESSURE / TEMPERATURE CHART



Products in compliance with the directive 2002/95/EC

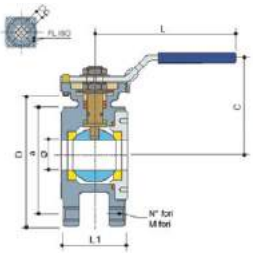
Products in compliance with the directive 2011/65/EU

1. **Body/Flange:** Stainless steel AISI 316
2. **Body seal:** PTFE
3. **Seat:** PTFE 15% glassfiber
4. **Ball:** Stainless steel AISI 316
5. **Stem:** Stainless steel AISI 316
6. **Seal:** PTFE
7. **Stem seat:** PTFE
8. **Packing nut:** Stainless steel AISI 304
9. **Handle:** Stainless steel AISI 304 with pvc coated
10. **Washer:** Stainless steel AISI 304
11. **Nut:** Stainless steel AISI 304
12. **Stop PIN:** Stainless steel AISI 304
13. **Oring:** Viton
14. **Nut:** Stainless steel AISI 304
15. **Belleville washer:** Stainless steel AISI 301
16. **Tab Washer:** Stainless steel AISI 304
17. **Locking:** Stainless steel AISI 304

9350

Universal ball valve Inox AISI 316, flanged ends PN16 - blue lever





CODE	DN	L	L1	D	A.	C	N°HOLES	M HOLES	F.L. ISO	P	ØHOLES	GR.
9350TR1	25	170	50	115	85	95	4	M12	F04/F05	11	42	2600,0
9350TR114	32	170	53	140	100	100	4	M16	F04/F05	11	42	2800,0
9350TR112	40	210	65	150	110	105	4	M16	F05/F07	14	50	4700,0
9350TR2	50	210	78	165	125	115	4	M16	F05/F07	14	50	6800,0
9350TR212	65	260	98	180	145	130	4	M16	F07/F10	17	70	10700,0
9350TR3	76	260	118	200	160	195	8	M16	F07/F10	17	70	14000,0
9350TR4	94	260	140	220	180	175	8	M16	F07/F10	17	102	24000,0



-20°C ÷ +200°C

40 Bar

Industrial, chemical and food installations

Taper UNI ISO 228 from G1/4" to G2"

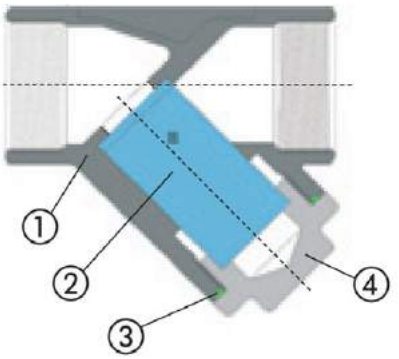
FILTERING
1000 µ / 170 Mesh

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

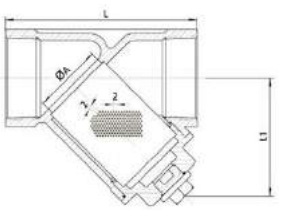


1. **Body:** stainless steel AISI 316
2. **Filter:** stainless steel AISI 316
3. **Gasket:** PTFE
4. **Plug:** stainless steel AISI 316

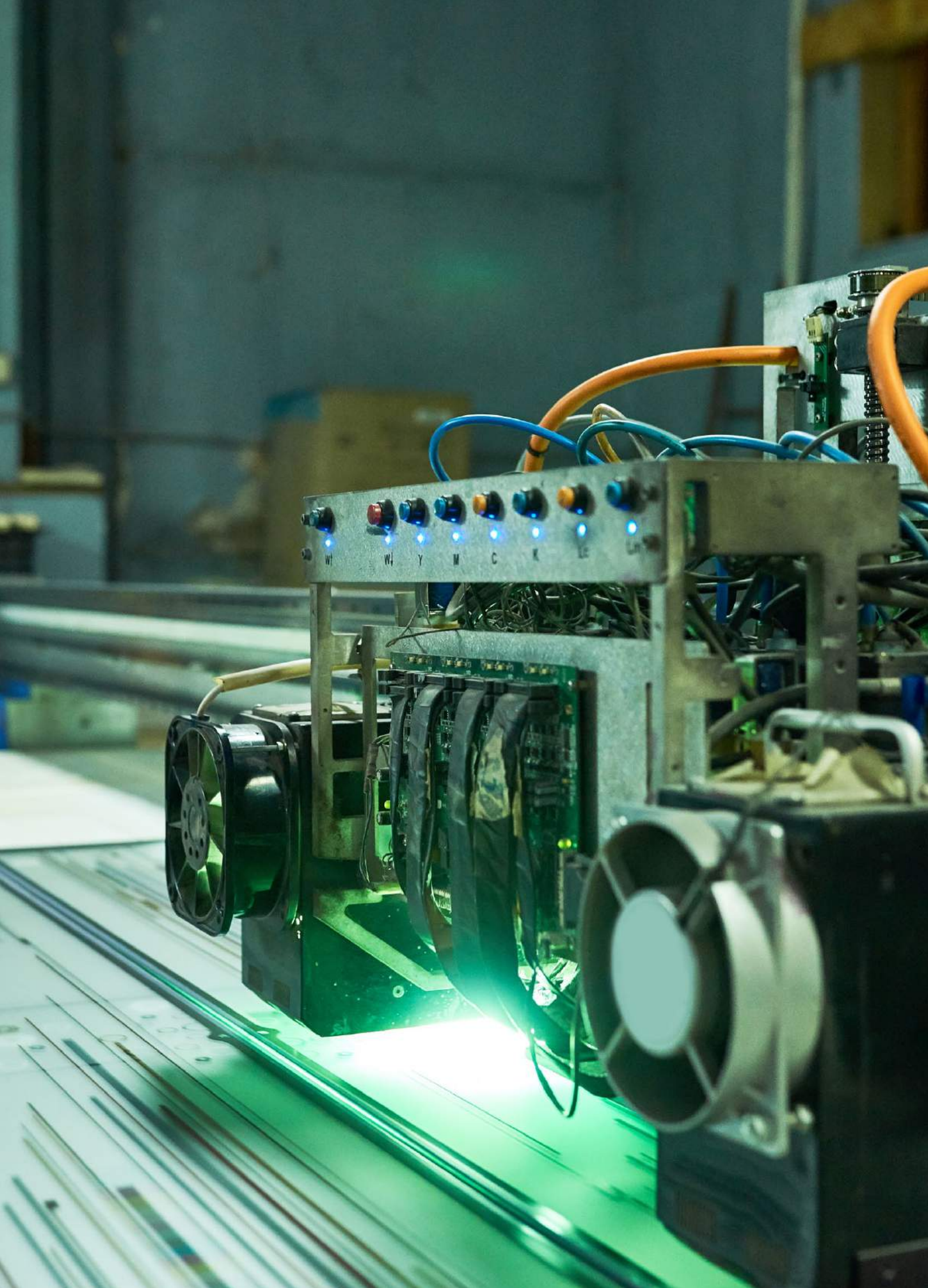
9400

Filter, threaded ends BSPP F/F

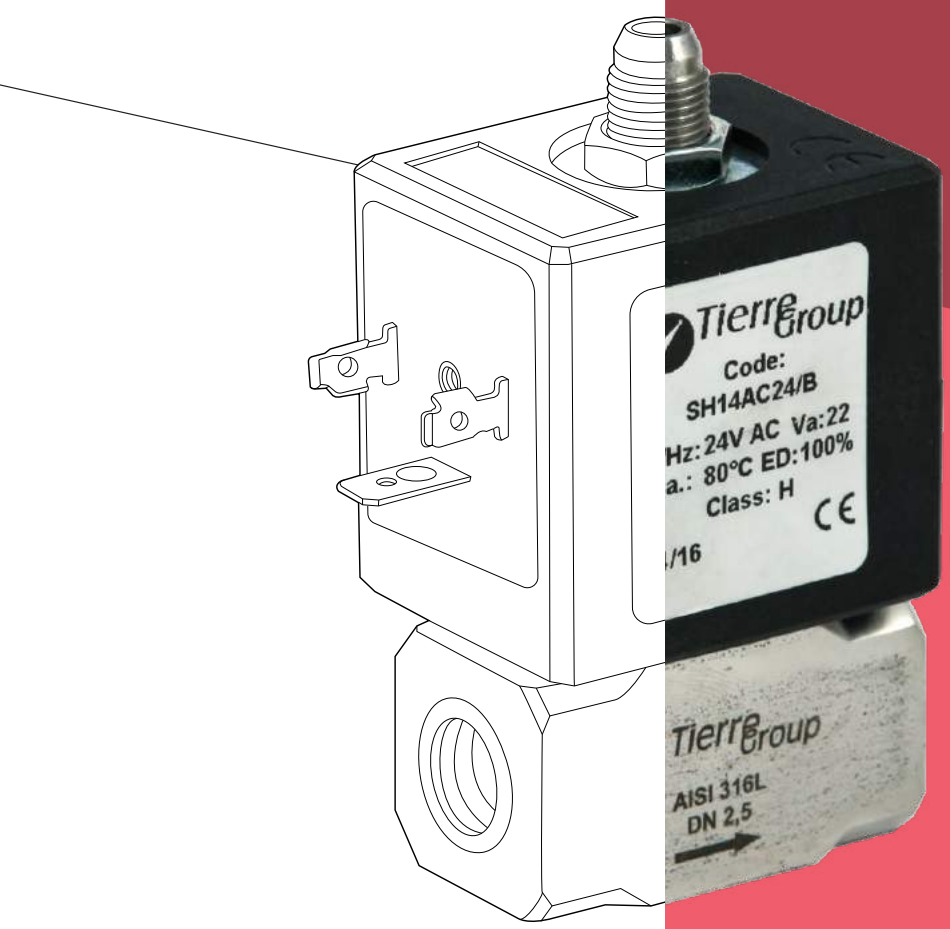




CODE	T	ØA	L	L1
9400TR14	G1/4"	10	65	51
9400TR38	G3/8"	12	65	51
9400TR12	G1/2"	15	65	51
9400TR34	G3/4"	20	80	60
9400TR1	G1"	25	90	72
9400TR114	G1"-1/4"	32	105	77
9400TR112	G1"-1/2"	40	120	87
9400TR2	G2"	50	140	103



SOLENOID VALVES







P. 637 /
NYLON SOLENOID VALVES





P. 645 /
SOLENOID VALVES INOX AISI 316L

TECHNICAL INDEX

SOLENOID VALVES NYLON

PLUS

BODY IN NYLON WITH FIBER GLASS

AVAILABLE WITH THREAD
OR PUSH-IN SYSTEM

FOR WATER



p. 639 /
SVP2CIR10IR10



p. 640 /
SVP2CIR38IR38



p. 640 /
SVP2CAL34IR10



p. 641 /
SVP2CAL34IR38



p. 641 /
SVP2CM38M38



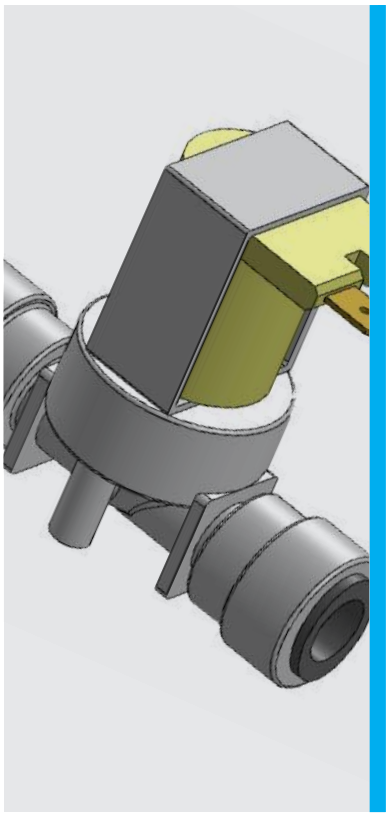
p. 642 /
SVP2CM12M12



p. 642 /
SVP2CM34M34



p. 643 /
SVP2CAL34CL10



Continuous use with media up to 25°C.
3/5 minutes with media up to 90°C
room temperature 60°C

From 0,2 to 10 Bar
Burst Pressure: 80 Bar

Water

ELETTRIC ATTACHEMENT
Terminal tab 6,3 mm

Body: Nylon with fiber glass
Solenoid: Encapsuled in material, waterproof, self estinguishing

WATER HAMMER AT 6 BAR
lower than 2 Bar

FEATURES
Construction electromagnetic valves according to EN 60730-1 & EN 60730-2-8 standards.

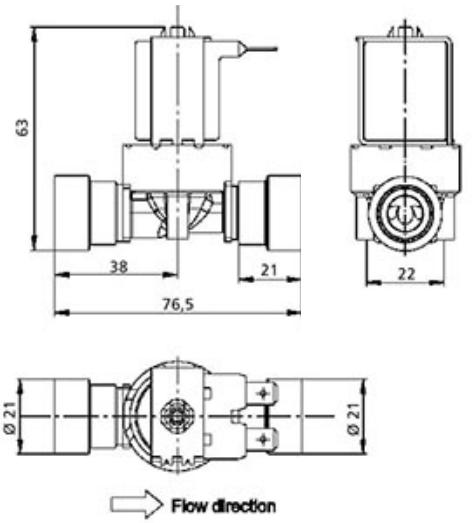
REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

SVP2CIR10IR10

Solenoid valve in nylon 2/2 ways direct acting NC





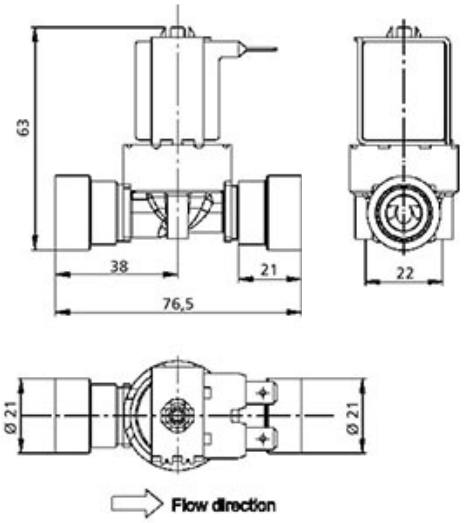
CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CIR10IR10M1	12 V DC/AC	2 BORES Ø 2,7MM	Ø10MM TUBE PUSH-IN SYSTEM	Ø10MM TUBE PUSH-IN SYSTEM	77,0
SVP2CIR10IR10M2	24 V DC/AC				77,0
SVP2CIR10IR10M5	220/240 V AC				77,0
SVP2CIR10IR10M7	110 V AC				77,0
SVP2CIR10IR10M9	BISTABLE 5,5 - 12 V DC				77,0

SVP2CIR38IR38

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CIR3/8IR3/8M1	12 V DC / AC	2 BORES Ø 2,7MM	Ø3/8" TUBE PUSH-IN SYSTEM	Ø3/8" TUBE PUSH-IN SYSTEM	77,0
SVP2CIR3/8IR3/8M2	24 V DC / AC				77,0
SVP2CIR3/8IR3/8M5	220/240 V AC				77,0
SVP2CIR3/8IR3/8M7	110 V AC				77,0
SVP2CIR3/8IR3/8M9	BISTABLE 5,5 -12 V DC				77,0

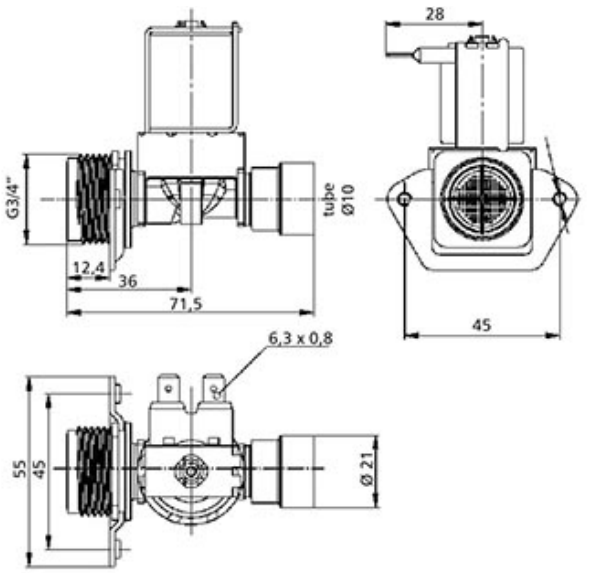


SVP2CAL34IR10

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CAL34IR10M1	12 V DC/AC	2 BORES Ø 2,7MM AND UNIVERSAL BRACKET WITH M4 BORES	3/4" BSPP PARALLEL THREAD	Ø10MM TUBE PUSH-IN SYSTEM	76,0
SVP2CAL34IR10M2	24 V DC/AC				76,0
SVP2CAL34IR10M5	220/240 V AC				76,0
SVP2CAL34IR10M7	110 V AC				76,0
SVP2CAL34IR10M9	BISTABLE 5,5 - 12 V DC				76,0

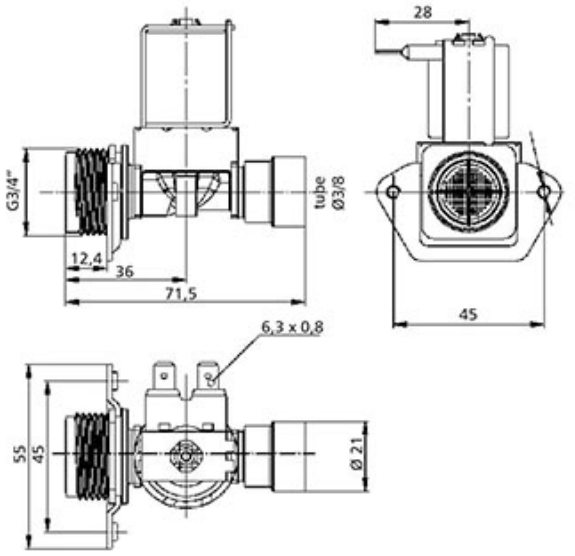


SVP2CAL34IR38

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CAL34IR3/8M1	12 V DC / AC	2 BORES Ø 2,7MM AND UNIVERSAL BRACKET WITH M4 BORES	3/4" BSPP PARALLEL THREAD	Ø3/8" TUBE PUSH-IN SYSTEM	76,0
SVP2CAL34IR3/8M2	24 V DC / AC				76,0
SVP2CAL34IR3/8M5	220/240 V AC				76,0
SVP2CAL34IR3/8M7	110 V AC				76,0
SVP2CAL34IR3/8M9	BISTABLE 5,5 - 12 V DC				76,0

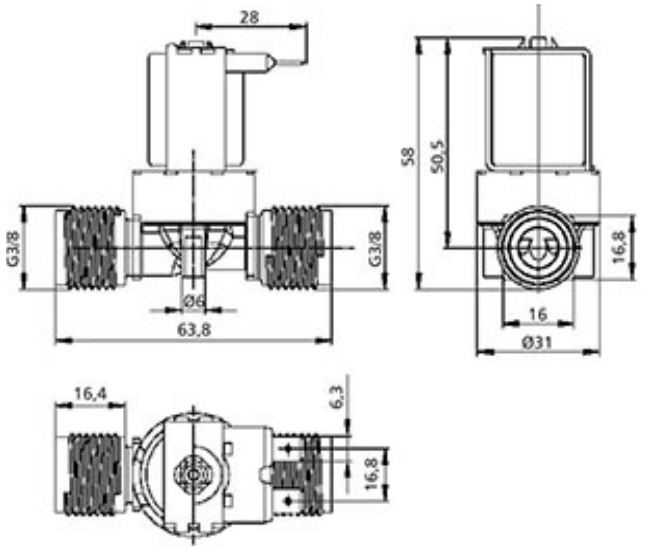


SVP2CM38M38

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CM38M38M1	12 V DC/AC	2 BORES Ø 2,7MM	3/8" BSPP PARALLEL THREAD	3/8" BSPP PARALLEL THREAD	70,0
SVP2CM38M38M2	24 V DC/AC				70,0
SVP2CM38M38M5	220/240 V AC				70,0
SVP2CM38M38M7	110 V AC				70,0
SVP2CM38M38M9	BISTABLE 5,5 - 12 V DC				70,0

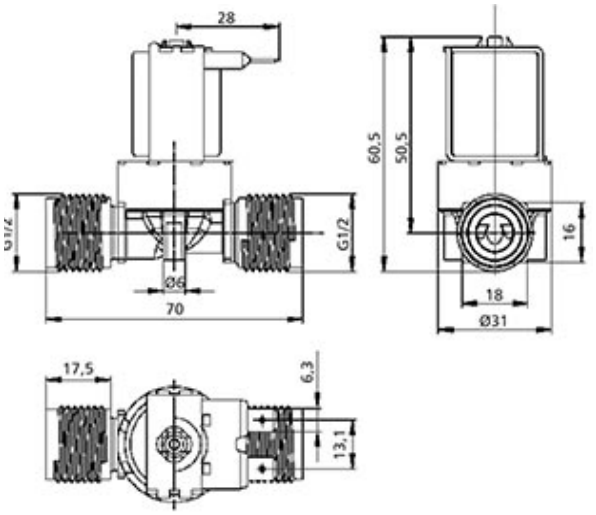


SVP2CM12M12

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CM12M12M1	12 V DC/AC	2 BORES Ø 2,7MM	1/2" BSPP PARALLEL THREAD	1/2" BSPP PARALLEL THREAD	72,0
SVP2CM12M12M2	24 V DC/AC				72,0
SVP2CM12M12M5	220/240 V AC				72,0
SVP2CM12M12M7	110 V AC				72,0
SVP2CM12M12M9	BISTABLE 5,5 - 12 V DC				72,0

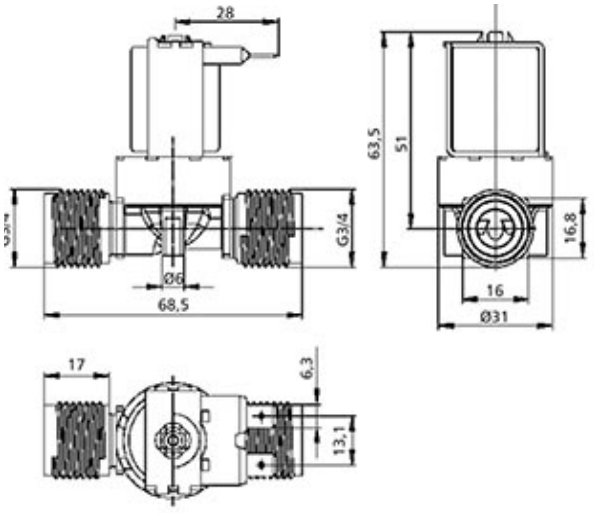


SVP2CM34M34

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CM34M34M1	12 V DC/AC	2 BORES Ø 2,7MM	3/4" BSPP PARALLEL THREAD	3/4" BSPP PARALLEL THREAD	70,0
SVP2CM34M34M2	24 V DC/AC				70,0
SVP2CM34M34M5	220/240 V AC				70,0
SVP2CM34M34M7	110 V AC				70,0
SVP2CM34M34M9	BISTABLE 5,5 - 12 VDC				70,0

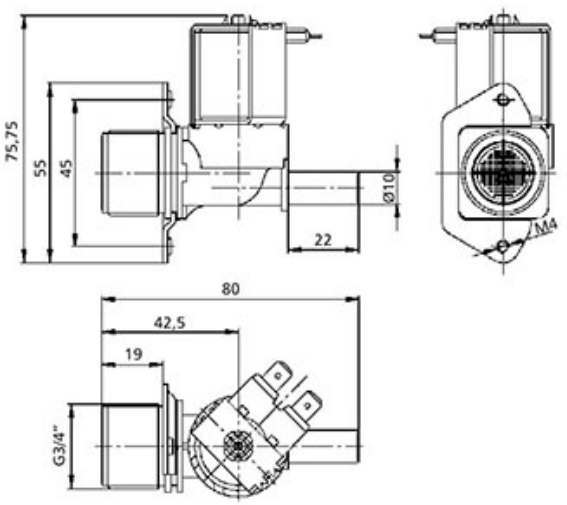


SVP2CAL34CL10

Solenoid valve in nylon 2/2 ways direct acting NC



CODE	VOLTAGE	FIXING	INLET CONNECTION	OUTLET CONNECTION	GR.
SVP2CAL34CL10M1	12 V DC/AC	UNIVERSAL BRACKET WITH M4 BORES	3/4" BSPP PARALLEL THREAD	Ø10MM STEM	89,0
SVP2CAL34CL10M2	24 V DC/AC				89,0
SVP2CAL34CL10M5	220/240 V AC				89,0
SVP2CAL34CL10M7	110 V AC				89,0
SVP2CAL34CL10M9	BISTABLE 5,5 - 12 VDC				89,0





SOLENOID VALVES
INOX AISI 316L

PLUS

- BODY IN STAINLESS STEEL AISI 316L
- AVAILABLE DIFFERENT SEAL
- DIFFERENT NOMINAL DIAMETER



p. 648 / **SVX2**



p. 648 / **SVX3**



p. 649 / **SH14-N**



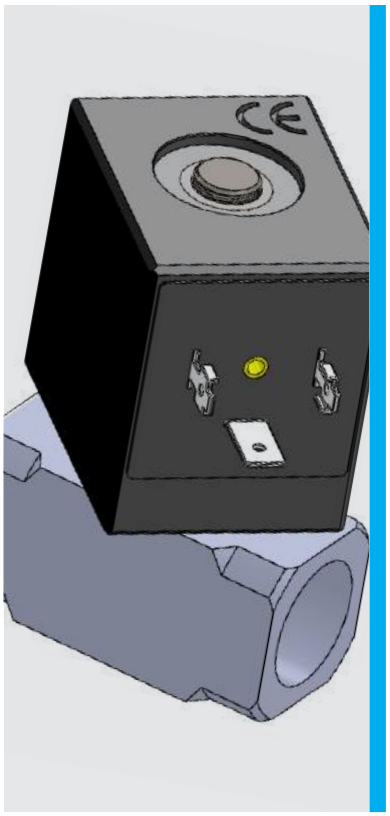
p. 649 / **SH14-B-N**



p. 649 / **SH14-HP-N**



p. 649 / **CN14**



Room Temperature:
from -10°C to +80°C
Fluid Temperature:
from -10°C to +150°C

see the table

MAXIMUM FLUID VISCOSITY
2° E (Engel degrees)

Parallel gas ISO 228
from 1/8" to 1/2"

ON DEMAND
- EPDM (-20°C +145°C)
- PTFE 25% carbon charged (-40°C +200) except VX2C100G12, SVX3C15G18 SVX3C25G14, SVX3C40G14
- Ruby (-40°C +180°C)

Body: Stainless steel AISI 316L
Seat: Stainless stell AISI 316L
Seal: Food Viton FKM
Armature tube: Stainless steel
Armature & core: Stainless steel IMRE
Springs: Stainless steel
Protection: IP 65 with connector
Connection type: DIN 43650/A DIN 43650/B
Coil: IXEF cover, wire insulation 180°C class H 12-24 V DC 24 110 220 240 AC V - AC 50/60 Hz special voltages on demand
Voltage tolerances: AC -10% +5% Volt DC -5% +10% Volt

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

APPLICATIONS
Pneumatics, water, food, chemical, vacuum, medical & pharmaceutical apps.
For non gaseous fluids installation and functioning must be done horizzontally.

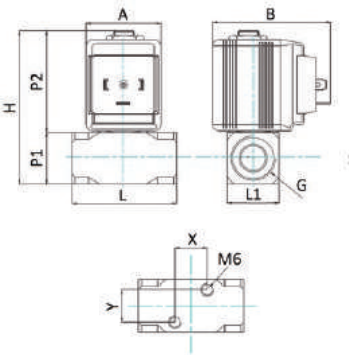
ADVANTAGES
The solenoid valves are direct 2/2 acting valves & 3/2 ways NC. They are compatible with neutral liquids suitable for food Viton (FKM) NSF & stainless steel INOX AISI 316L. It's not necessary a minimum working pressure.
The sealing o'ring between body & armature tube, 360° welding of the armature tube with core guarantee reliability & endurance.

MODEL	TIPE	CODE	THREAD	DN	KV	COIL	ΔP BAR			TA. TEMP AMBIENT °C	POWER		CONNECTOR	ALTERNATIVE SEAL			KG
				MM	M³/H		MIN	MAX			VA AC	W DC	CN 14	EPDM	PTFE	RUBINO	
								AC	DC								
STANDARD	2/2 NC	SVX2C15G18	G1/8	1,5	0,07	SH14/B	0	25	20	80	22	12	*	*	*	*	0,405
		SVX2C30G18	G1/8	3	0,2	SH14/B	0	16	12	80	22	12	*	*	*	*	0,4
		SVX2C25G14	G1/4	2,5	0,12	SH14/B	0	20	12	80	22	12	*	*	*	*	0,4
		SVX2C40G14	G1/4	4	0,39	SH14/HP	0		8	60		25	*	*	*		0,4
						SH14		15	6	60	34	17	*	*	*		0,4
						SH14/B		7		80	22		*	*	*		0,4
		SVX2C50G38	G3/8	5	0,48	SH14/HP	0		5	60		25	*	*	*		0,404
						SH14		10	2	60	34	17	*	*	*		0,404
						SH14/B		5		80	22		*	*	*		0,404
		SVX2C64G38	G3/8	6,4	0,68	SH14/HP	0		4	60		25	*	*	*		0,404
						SH14		7	1,5	60	34	17	*	*	*		0,404
						SH14/B		3		80	22		*	*	*		0,404
		SVX2C64G12	G1/2	6,4	0,68	SH14/HP	0		4	60		25	*	*	*		0,378
						SH14		7	1,5	60	34	17	*	*	*		0,378
						SH14/B		3		80	22		*	*	*		0,378
		SVX2C100G12	G1/2	10	1,65	SH14/HP	0		10	60		25	*				0,515
						SH14		10	6	60	34	17	*				0,515
	3/2 NC	SVX3C15G18	G1/8	1,5	0,07	SH14/B	0	18	18	80	22	12	*	*		*	0,405
		SVX3C25G14	G1/4	2,5	0,12	SH14/B	0	10	10	80	22	12	*	*		*	0,4
		SVX3C40G14	G1/4	4	0,39	SH14/B	0	4	4	80	22	12	*	*			0,4

SVX2

Solenoid valve Inox AISI 316L STANDARD series 2/2 ways & direct acting NC





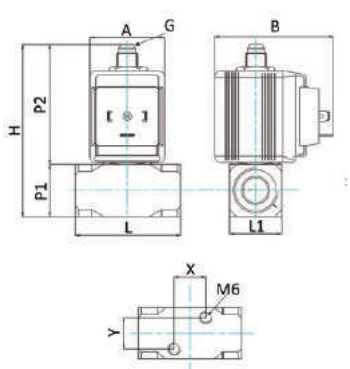
CODE	G	L	L1	H	P1	P2	A	B	YS
SVX2C15G18	G1/8"	41,0	25	75	25	50	36	57	15,4
SVX2C30G18	G1/8"	41,0	25	75	25	50	36	57	15,4
SVX2C25G14	G1/4"	41,0	25	75	25	50	36	57	15,4
SVX2C40G14	G1/4"	41,0	25	75	25	50	36	57	15,4
SVX2C50G38	G3/8"	46,5	25	75	25	50	36	57	15,4
SVX2C64G38	G3/8"	46,5	25	75	25	50	36	57	15,4
SVX2C64G12	G1/2"	50,5	25	75	25	50	36	57	15,4

SUPPLIED WITHOUT COILS

SVX3

Solenoid valve Inox AISI 316L STANDARD series 3/2 ways direct acting NC





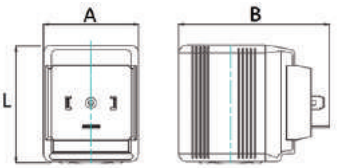
CODE	G	L	L1	H	P1	P2	A	B	YS
SVX3C15G18	G1/8"	41,0	25	84	25	59	36	57	15,4
SVX3C25G14	G1/4"	41,0	25	84	25	59	36	57	15,4
SVX3C40G14	G1/4"	41,0	25	84	25	59	36	57	15,4

SUPPLIED WITHOUT COILS

SH14-N

Coil



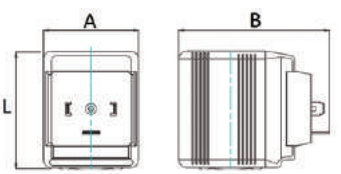


CODE	A	B	L	TENSION	GR.
SH14AC24-N	36	55	43	24 AC	185
SH14AC110-N	36	55	43	110 AC	181
SH14AC220-N	36	55	43	220 AC	178
SH14AC240-N	36	55	43	240 AC	183
SH14DC12-N	36	55	43	12 DC	183
SH14DC24-N	36	55	43	24 DC	185

SH14-B-N

Coil low absorption



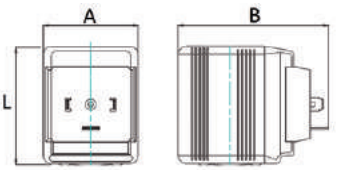


CODE	A	B	L	TENSION	GR.
SH14AC24/B-N	36	55	43	24AC	185
SH14AC110/B-N	36	55	43	110AC	170
SH14AC220/B-N	36	55	43	220AC	175
SH14AC240/B-N	36	55	43	240AC	179
SH14DC12/B-N	36	55	43	12DC	179
SH14DC24/B-N	36	55	43	24DC	181

SH14-HP-N

High performance coil





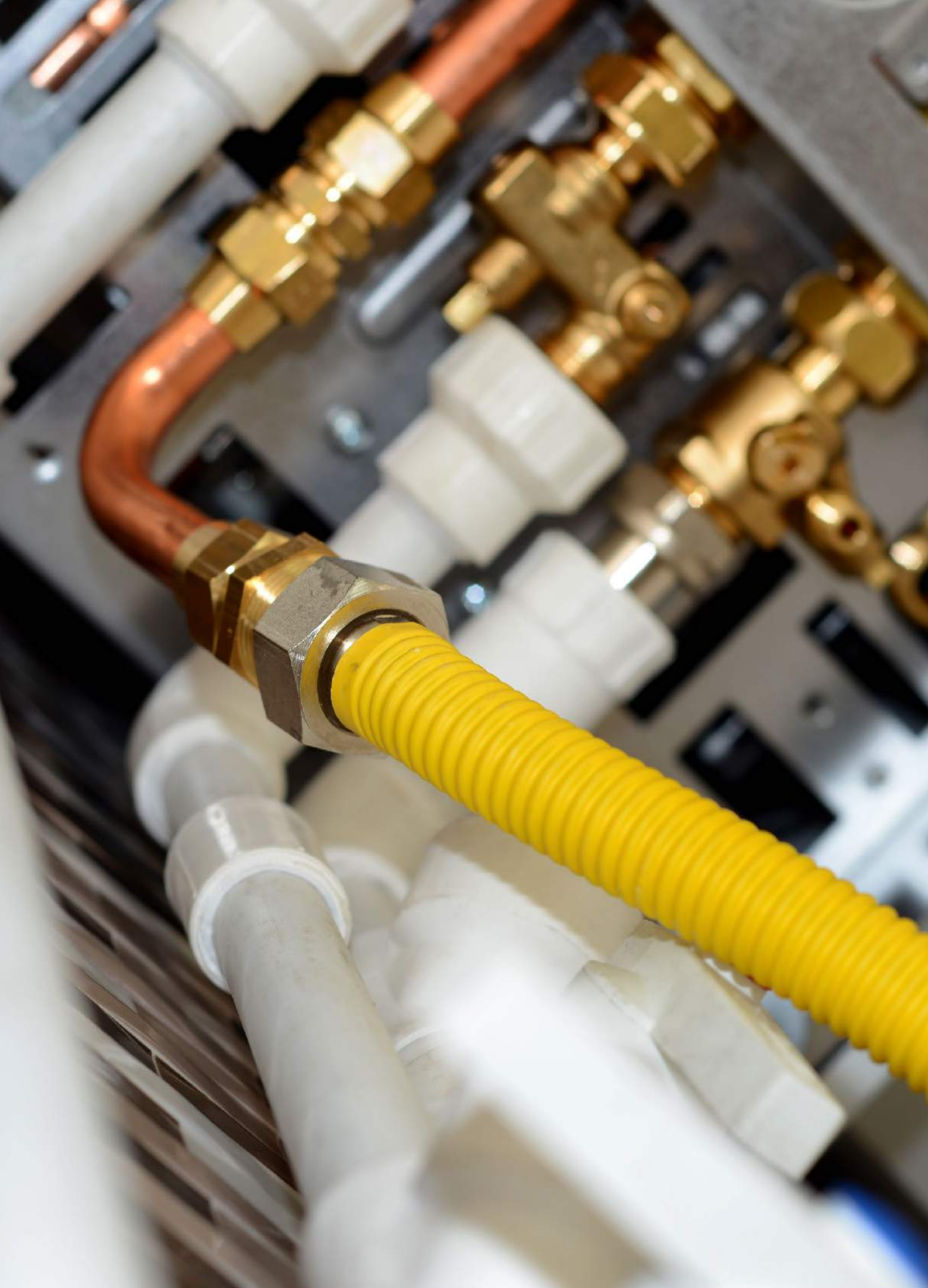
CODE	A	B	L	TENSION	GR.
SH14DC12/HP-N	36	55	43	12 DC	179
SH14DC24/HP-N	36	55	43	24 DC	181

CN14

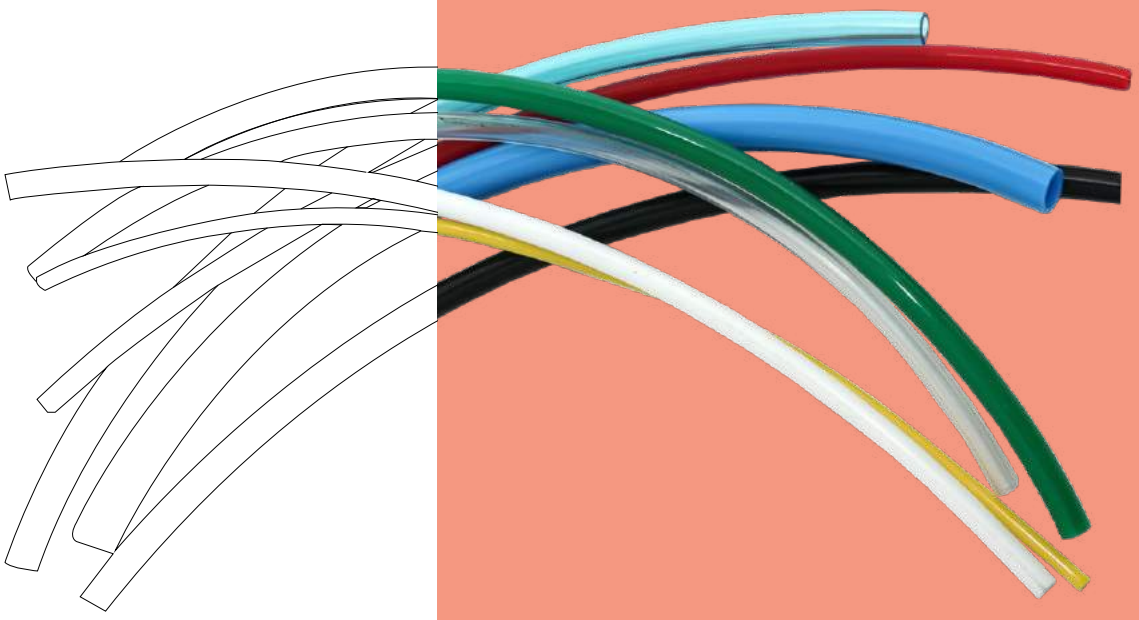
Connector



CODE	GR.
CN14	**20**



TUBES



TECHNICAL INDEX



P. 653 /
POLYURETHANE TUBE ON POLYESTER BASIS



P. 657 /
HIGH QUALITY POLYURETHANE TUBE ON POLYESTER BASIS



P. 661 /
POLYURETHANE TUBE ON POLYETHER BASIS FDA



P. 665 /
ANTISTATIC POLYURETHANE TUBE



P. 667 /
ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID



P. 671 / **ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID FOR HEAVY DUTIES**



P. 675 /
ANTISPARKLING POLYURETHANE TUBE DIN 5510-2



P. 677 /
POLYAMMIDE TUBE PA12



P. 681 /
POLYETHYLENE TUBE



P. 685 /
PTFE TUBE



P. 689 /
FEP TUBE



P. 693 /
SILICON TUBE



P. 695 /
PVC TRASPARENT TUBE



P. 697 /
PVC WIRED TUBE



P. 699 /
POLYURETHANE TUBE WITH INTERNAL PVC NON-TOXIC COATING



P. 701 /
PVC TUBE WITH REIFORCEMENT IN POLYESTER FIBER



P. 703 /
FLEXLOCK TUBE



P. 705 /
COILED TUBE AND ACCESSORIES



P. 713 /
SELF FASTENING TUBE



P. 719 /
AIR DISTRIBUTION

TUBES
POLYURETHANE TUBE ON POLYESTER BASIS

PLUS

EXCEPTIONAL FLEXIBILITY ALLOWS A LOWER DEGREE OF TUBING CURVATURE RADIUS

DURABLE, LIGHT WEIGHT, ABRASION RESISTANT, CHEMICAL RESISTANT, AND COST-EFFECTIVE.

IDEAL FOR PNEUMATIC CONNECTIONS IN LOW AMBIENT TEMPERATURE CONDITIONS.

SELF-RETRACTING AND SELF-STORING COIL TUBE CHARACTERISTICS WITH EXCELLENT MEMORY



p. 655 /**PUES**



p. 656 / **PUES-BX**



0°C ÷ +60°C

Working: See the table
Burst: See the table
Negative: -750 mmHG

Compressed air & vacuum
Do not use for water application

TOLERANCE

From Ø3 to Ø8: ± 0,1
From Ø10 to Ø16: ± 0,15

HARDNESS

Shore 98 A

polyurethane on polyester basis

FEATURES

Polyurethane tube on polyester basis has a high flexibility at low temperatures and a good tolerance to wear and tear & chemicals.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PUES

Polyurethane tube on polyester basis



CODE	SIZES	MINIMUM BENDING RADIUS (MM)	WORKING PRESSURE 23°C (BAR)	BURST PRESSURE 23°C (BAR)	GR./ MT.	Q.TY FOR ROLL (MT)
PUES0302	3X2	8	10,0	30,0	7,5	200
PUES0402	4X2	10	10,0	30,0	10,0	200
PUES0425	4X2,5	12	10,0	30,0	9,0	200
PUES0604	6X4	15	8,5	25,5	18,0	100
PUES0805	8X5	20	8,5	25,5	35,0	100
PUES0855	8X5,5	20	8,5	25,5	38,0	100
PUES1065	10X6,5	25	8,5	25,5	55,0	100
PUES1007	10X7	25	8,0	24,0	49,0	100
PUES1208	12X8	35	8,5	25,5	78,0	100
PUES1209	12X9	35	7,0	21,0	61,0	100
PUES1410	14X10	45	8,0	24,0	108,0	50
PUES1611	16X11	55	8,0	24,0	132,0	50
PUES1612	16X12	60	8,5	25,5	122,0	50

PUES COLORS

Sizes ODxID	light blue	black	red	yellow	green	transparent	transparent light blue	silver
3X2	PUES0302AZ							
4X2	PUES0402AZ							
4X2,5	PUES0425AZ	PUES0425NE	PUES0425RO	PUES0425GL	PUES0425VD	PUES0425TR	PUES0425AZTR	PUES0425SL
6X4	PUES0604AZ	PUES0604NE	PUES0604RO	PUES0604GL	PUES0604VD	PUES0604TR	PUES0604AZTR	PUES0604SL
8X5	PUES0805AZ			PUES0805GL				
8X5,5	PUES0855AZ	PUES0855NE	PUES0855RO	PUES0855GL	PUES0855VD	PUES0855TR	PUES0855AZTR	PUES0855SL
10X6,5	PUES1065AZ			PUES1065GL				
10X7	PUES1007AZ	PUES1007NE	PUES1007RO	PUES1007GL	PUES1007VD	PUES1007TR	PUES1007AZTR	
12X8	PUES1208AZ	PUES1208NE		PUES1208GL				
12X9	PUES1209AZ	PUES1209NE	PUES1209RO	PUES1209GL	PUES1209VD	PUES1209TR	PUES1209AZTR	PUES1209SL
14X10	PUES1410AZ							
16X11	PUES1611AZ							
16X12	PUES1612AZ							

PUES-BX

Polyurethane tube on polyester basis in box



CODE	SIZES	MIN BENDING RADIUS	WORKING PRESSURE 23°C	BURST PRESSURE 23°C	GR. MT.	BOX
PUES0425AZ-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425NE-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425RO-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425GL-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425VD-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425TR-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425AZTR-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0425SL-25BX	4X2,5	12	10,0	30,0	9,0	25MT.
PUES0604AZ-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0604NE-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0604RO-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0604GL-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0604VD-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0604TR-25BX	6X4	15	8,5	25,5	18,0	25MT.
PUES0855SL-25BX	8X5,5	20	8,5	25,5	38,0	25MT.
PUES1007AZ-25BX	10X7	25	8,0	24,0	49,0	25MT.
PUES1209AZ-25BX	12X9	35	7,0	21,0	61,0	25MT.

TUBES
HIGH QUALITY POLYURETHANE TUBE ON POLYESTER BASIS

PLUS

- VERY FLEXIBLE WITH EXCELLENT RECOVERY PROPERTIES
- FREE OF PLASTICISERS
- VERY FLEXIBLE AT LOW TEMPERATURES
- HIGH FINAL ELONGATION
- HIGH ABRASION RESISTANCE
- SUITABLE FOR VACUUM APPLICATIONS
- IDEALLY SUITABLE FOR USE IN ENERGY/DRAG CHAINS



p. 659 /
PUHQ-BLNE



p. 660 / **PUHQ**



Tierre Group polyester tube provides optimum mechanical properties and excellent value for pressure / temperature. Moreover, even at high temperatures provides an adequate margin of safety.

ELASTOLLAN® C 98A

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

	UNIT OF MISURE	STANDARD	VALUE
HARDNESS	SHORE D	DIN 53505	52
TENSILE STRENGTH	MPA	DIN 53504	50
ABRASION	MM^3	DIN 53516	30
DENSITY	G/CM^3	DIN 53479	1,22
IMPACT VALUE HARPY + 23°C / -30°C	KJ/M^2	DIN 53453	NO BREAK

PUHQ

Twin - tube



CODE	D1	D2	W-WALL THINKNESS	BANDING RADIUS	WORKING PRESSURE AT 20°C (BAR)	BURST PRESSURE AT 20°C (BAR)	GR./MT.	MT.
PUHQ0425BLNE	4 +0,05/0,07	2,5	0,75 +/-0,05	12	11	33	18,66	50
PUHQ0604BLNE	6 +0,05/0,10	4	1,00 +/-0,05	18	11	33	39,84	50
PUHQ0806BLNE	8 +/-0,10	5,7	1,15 +/-0,05	30	9	27	60,38	50

PUHQ

High quality polyester tube



CODE	D1	D2	W-WALL THINKNESS	BANDING RADIUS	WORKING PRESSURE AT 20°C (BAR)	BURST PRESSURE AT 20°C (BAR)	GR./MT.	MT.
PUHQ0425-25	4 +0,05/0,07	2,5	0,75 +/-0,05	12	13	38	9,33	25
PUHQ0425	4 +0,05/0,07	2,5	0,75 +/-0,05	12	13	38	9,33	100
PUHQ0604-25	6 +/-0,10	4	1,00 +/-0,05	18	12	34	19,16	25
PUHQ0604	6 +/-0,10	4	1,00 +/-0,05	18	12	34	19,16	100
PUHQ0855-25	8 +/-0,10/0,05	5,5	1,25 +0,1	25	11	32	30,75	25
PUHQ0855	8 +/-0,10/0,05	5,5	1,25 +0,1	25	11	32	30,75	100
PUHQ1075-25	10	7,5	1,25 +0,1	45	10	26	41,92	25
PUHQ1075	10	7,5	1,25 +0,1	45	10	26	41,92	100
PUHQ1209-25	12 +/-0,15/0,1	9	1,50 +0,1	55	9	27	60,37	25
PUHQ1411-25	14 +/-0,15/0,1	11	1,50 +0,1	60	7	20	71,86	25
PUHQ1611-25	16 +/-0,15	11	2,50 +0,1	65	12	36	129,36	25

PUHQ COLORS

Sizes ODxID	Blue	Black
4X2,5	PUHQ0425BL-25	PUHQ0425NE-25
4X2,5	PUHQ0425BL	PUHQ0425NE
6X4	PUHQ0604BL-25	PUHQ0604NE-25
6X4	PUHQ0604BL	PUHQ0604NE
8X5,5	PUHQ0855BL-25	PUHQ0855NE-25
8X5,5	PUHQ0855BL	PUHQ0855NE
10X7,5	PUHQ1075BL-25	PUHQ1075NE-25
10X7,5	PUHQ1075BL	PUHQ1075NE
12X9	PUHQ1209BL-25	PUHQ1209NE-25
12X9	PUHQ1209BL	PUHQ1209NE
14X11	PUHQ1411BL-25	PUHQ1411NE-25
16X11	PUHQ1611BL-25	PUHQ1611NE-25

TUBES
POLYURETHANE TUBE ON POLYETHER BASIS FDA

PLUS

HYDROLYSIS-RESISTANT SUITABLE FOR APPLICATIONS IN OR WITH WATER

RESISTANT AGAINST MICROBES AND THEREFORE IDEALLY SUITABLE FOR OUTDOOR APPLICATIONS

COMPLIES WITH THE HYGIENE REQUIREMENTS FOR FOODSTUFFS MACHINERY TO DIN EN 1672-2 FOR THE INJECTION AREA

SUITABLE FOR USE WITH FOODSTUFFS TO 2002/72/EG

FDA-COMPLIANT TO TITLE 21 CFR 177.2600

GOOD RESISTANCE AGAINST MANY CHEMICAL CONTACT MATERIALS

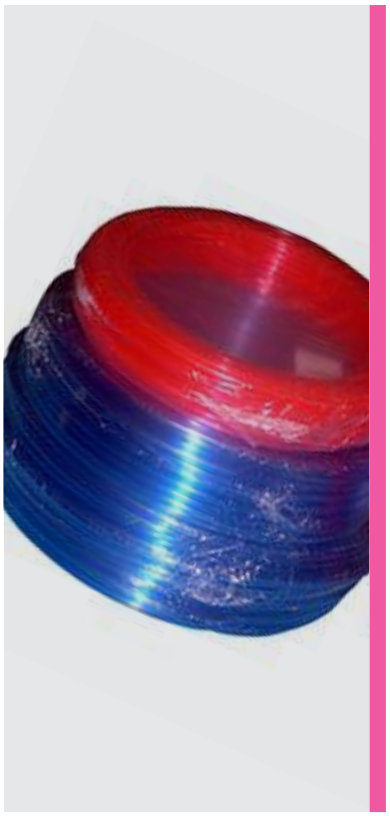
CAN BE USED AS A WATER PIPE
(manufacturer's declaration can be requested)

IDEALLY SUITABLE FOR USE IN ENERGY/DRAG CHAINS

SUITABLE FOR CABLE BUNDLES, PARTICULARLY IN COMBINATION WITH FLAME-PROTECTED CABLES



p. 663 / **PUET**



Tierre Group polyurethane tube on polyether basis, in addition to the PUET properties as high flexibility, optimum resilience, high elongation at break and good abrasion resistance.

ELASTOLLAN® C 1198A

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

	UNIT OF MISURE	STANDARD	VALUE
HARDNESS	SHORE D	DIN 53505	52
TENSILE STRENGTH	MPA	DIN 53504	50
ABRASION	MM^3	DIN 53516	25
DENSITY	G/CM^3	DIN 53479	1,16
IMPACT VALUE HARPY + 23°C / -30°C	KJ/M^2	DIN 53453	NO BREAK

PUET

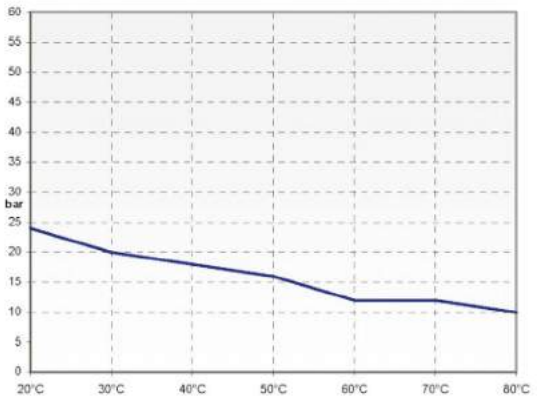
Polyurethane tube on polyether basis FDA



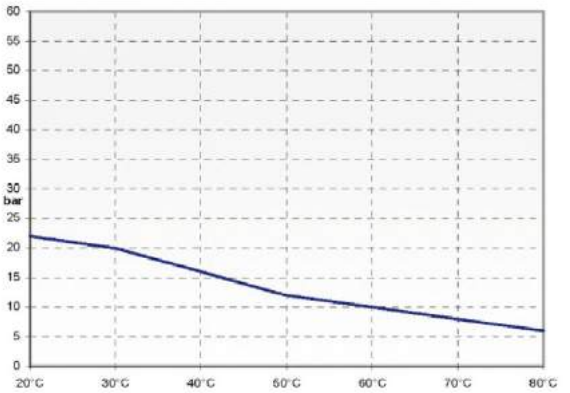
CODE	D1	D2	W-WALL THINKNESS	BANDING RADIUS	WORKING PRESSURE AT 20°C (BAR)	BURST PRESSURE AT 20°C (BAR)	GR./MT.	MT.
PUET0425	4 +0,05/0,1	2,5	0,75 +/-0,05	12	13	40	8,88	50
PUET0639	6 +/-0,1	3,9	1,05 +/-0,05	15	11	34	18,84	50
PUET0855	8 +/-0,1	5,5	1,25 +/-0,05	25	10	31	30,75	50
PUET1007	10 +0,15/-0,1	7,0	1,5 +/-0,05	40	9	27	46,46	50
PUET1208	12 +/-0,15	8,0	2 +/-0,1	35	10	32	72,88	50
PUET1410	14 +/-0,15	10,0	2 +/-0,1	55	8	25	87,46	50
PUET1611	16 +/-0,15	11,0	2,5 +0,15/-0,1	55	9	27	122,59	50

Sizes ODxID	Transparent red	Transparent blue
4X2,5	PUET0425ROTR	PUET0425AZTR
6X3,9	PUET0639ROTR	PUET0639AZTR
8X5,5	PUET0855ROTR	PUET0855AZTR
10X7	PUET1007ROTR	PUET1007AZTR
12X8	PUET1208ROTR	PUET1208AZTR
14X10	PUET1410ROTR	PUET1410AZTR
16X11	PUET1611ROTR	PUET1611AZTR

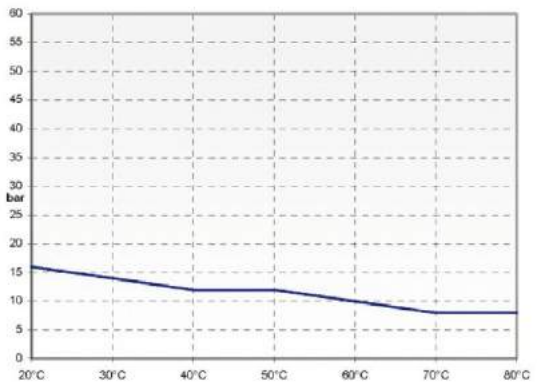
PUET 0425



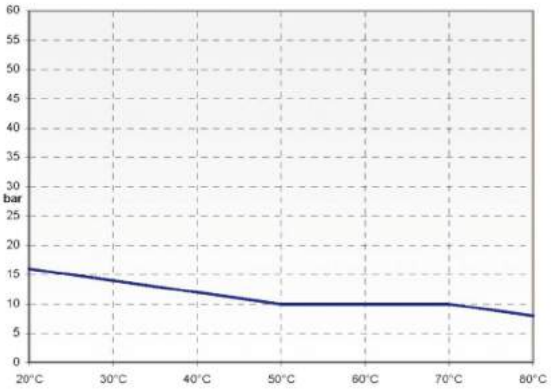
PUET 0639



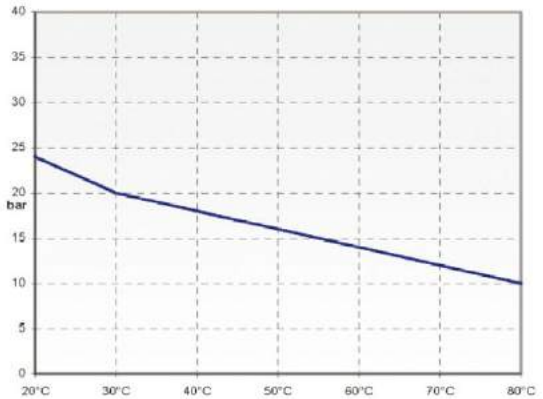
PUET 0855



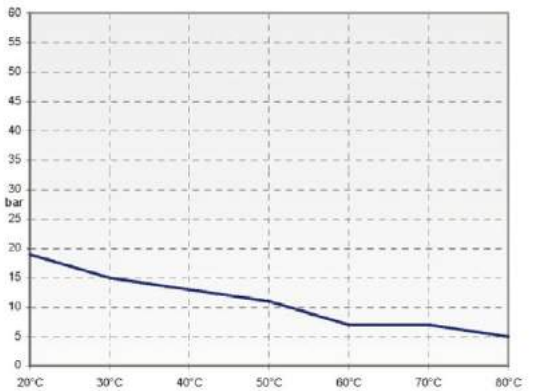
PUET 1007



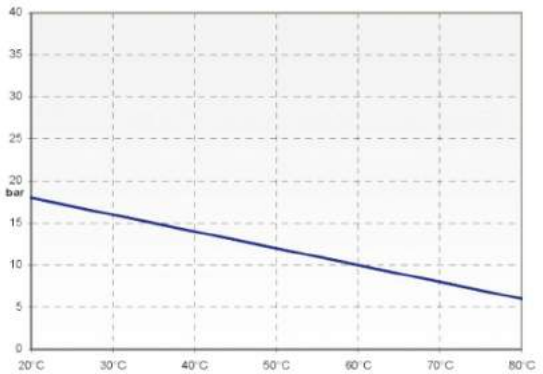
PUET 1208



PUET 1410



PUET 1611



TUBES
ANTISTATIC POLYURETHANE TUBE

PLUS

- HIGH ANTISTATIC PROTECTION WITH SURFACE RESISTANCE OF ≤ 10 Ω
- HIGH COMPRESSIVE STRENGTH
- CALIBRATED OUTSIDE DIAMETER WHICH FITS ALL CONVENTIONAL PLUG-INS
- RESISTANCE TO MICROBES
- RESISTANCE TO HYDROLYSIS
- VERY NARROW BENDING RADIUS
- VERY GOOD UV RESISTANCE
- GOOD LONG SERVICE LIFE



p. 666 / **PUAS**



Antistatic polyurethane tube is complied to EU Directive 94/9/ EC (ATEX). The antistatic tube is the special polyurethane tubing to be used in those applications where antistatic charges must be prevented.

The tube is therefore used for the production of manufacturing eletronic components, in the coating industry, in explosion-proof areas, in mining or for conveying and sorting components, to name just a few examples.

It can be employed as pneumatic tubing, feed or supply tubing.

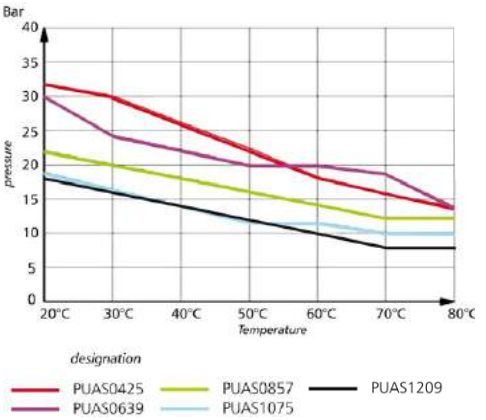
Since tubing is not a component within the meaning of the ATEX Directive 94/9/EC, no certificate of conformity with this directive can be issued. However, Tierre Group tube has been examined by the TUV SERVICE PRODUCT, which has proved the unrestricted **conformity of our tubing for all fields of application according to ATEX directive 94/9/EC.**

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU



PUAS

Antistatic polyurethane tube



CODE	ØD1	ØD2	W-WALL THINKNESS	BANDING RADIUS	BURST PRESSURE AT 20°C (BAR)	GR./MT.	MT.
PUAS0425NE	4 +/-0,1	2,5	0,75 +/-0,1	14	44	9,04	50
PUAS0639NE	6 +/-0,1	3,9	1,05 +/-0,05	13	40	19,28	50
PUAS0857NE	8 +/-0,1	5,7	1,15 +/-0,05	10	30	29,22	50
PUAS1075NE	10 +0,15/0,1	7,5	1,25 +0,1	9	27	40,58	50
PUAS1209NE	12 +0,15/-0,1	9	1,5 +0,15	8	24	59,39	50

Sizes ODxID	Black
4X2,5	PUAS0425NE
6X3,9	PUAS0639NE
8X5,7	PUAS0857NE
10X7,5	PUAS1075NE
12X9	PUAS1209NE

TUBES
ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID

PLUS

- GOOD FLEXIBILITY WITH A GOOD PRESSURE RESISTANCE
- EXTREMELY RESISTANT AGAINST ALL KIND OF WELDING SPARKS
- LONG LIFE
- SELF-EXTINGUISHING IN CASE OF FIRE
- FIRE CLASSIFICATION LISTED UL 94 FROM V2 TO V0
- EASY AND QUICK INSTALLATION THANKS TO THE SINGLE WALLED TUBE
- SUITABLE FOR ALL PUSH-IN FITTINGS
- RESISTANT AGAINST MICROBES
- HIGH CHEMICAL RESISTANCE (most detergents and solvents)
- SMALL BENDING RADIUS
- EXCELLENT UV-RESISTANCE
- TOP RESISTANCE TO ABRASION
- HIGH BURST PRESSURE
- SUITABLE FOR VACUUM APPLICATIONS
- RECYCLABLE
- SILICON FREE
- RELEASED TO GERMAN AUTOMOTIVE INDUSTRY



p. 669 / **PUFW**



Special polyurethane tube Flamex hybrid, hydrolisis proof and resistant against microbes and welding sparks, suitable for WATER & other LIQUIDS.

REACH

Products in compliance with the directive 2002/95/EC

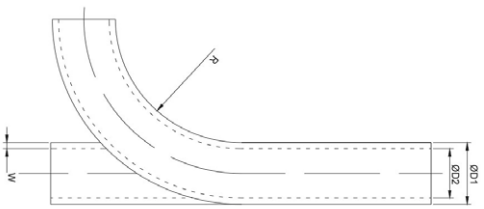
RoHS2

Products in compliance with the directive 2011/65/EU

PUFW

Antisparkling polyurethane tube flamex

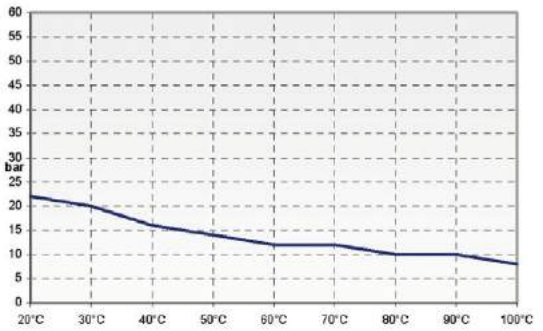




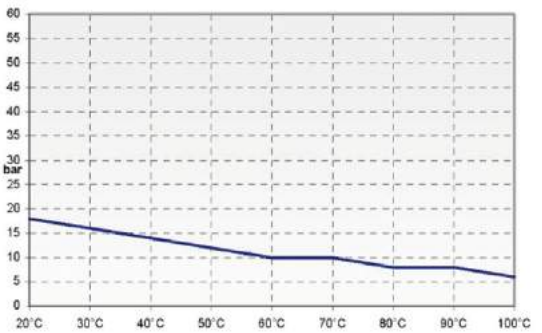
CODE	D1	D2	DN	W (MM)	BANDING RADIUS	WORKING PRESSURE AT 20°C (BAR)	BURST PRESSURE AT 20°C (BAR)	GR.	MT.
PUFW1006	10	6	6	2,0	20	10	29	60,0	50
PUFW1208	12	8	8	2,0	27	9	27	75,0	50
PUFW1410	14	10	10	2,0	50	8	25	90,0	50
PUFW1611	16	11	11	2,5	58	8	25	125,0	50

Sizes ODxID	Light Blue	Red	Green
10X6	PUFW1006AZ	PUFW1006RO	PUFW1006VD
12X8	PUFW1208AZ	PUFW1208RO	PUFW1208VD
14X10	PUFW1410AZ	PUFW1410RO	PUFW1410VD
16X11	PUFW1611AZ	PUFW1611RO	PUFW1611VD

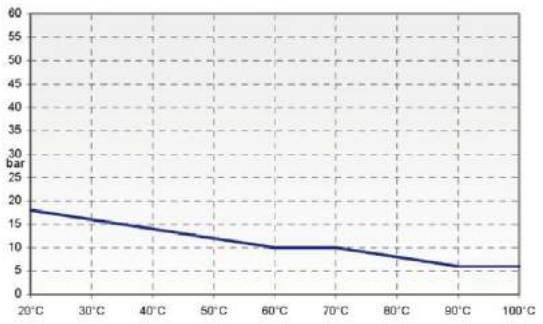
PUFW 1006



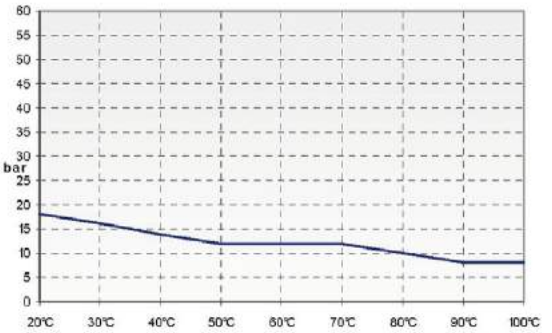
PUFW 1208



PUFW 1410



PUFW 1611



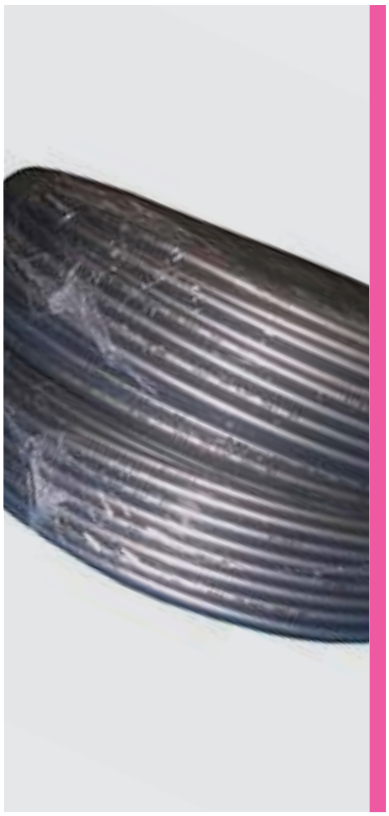
TUBES
ANTISPARKLING POLYURETHANE TUBE FLAMEX HYBRID FOR HEAVY DUTIES

PLUS

- GOOD FLEXIBILITY WITH A GOOD PRESSURE RESISTANCE
- EXTREMELY RESISTANT AGAINST ALL KIND OF WELDING SPARKS
- LONG LIFE
- SELF-EXTINGUISHING IN CASE OF FIRE
- FIRE CLASSIFICATION LISTED UL 94 FROM V2 TO V0
- EASY AND QUICK INSTALLATION THANKS TO THE SINGLE WALLED TUBE
- SUITABLE FOR ALL PUSH-IN FITTINGS
- RESISTANT AGAINST MICROBES
- HIGH CHEMICAL RESISTANCE (most detergents and solvents)
- SMALL BENDING RADIUS
- EXCELLENT UV-RESISTANCE
- TOP RESISTANCE TO ABRASION
- HIGH BURST PRESSURE
- SUITABLE FOR VACUUM APPLICATIONS
- RECYCLABLE
- SILICON FREE
- RELEASED TO GERMAN AUTOMOTIVE INDUSTRY



p. 673 / **PUFH**



Special polyurethane tube Flamex hybrid, hydrolisis proof and resistant against microbes with extreme load-bearing capacity.
Suitable for AIR, WATER and other LIQUIDS or GAS.

REACH

Products in compliance with the directive 2002/95/EC

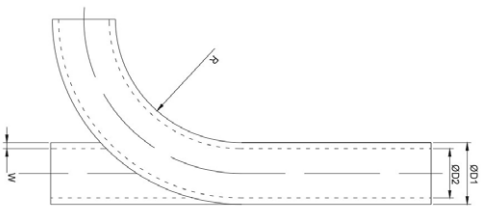
RoHS2

Products in compliance with the directive 2011/65/EU

PUFH

Antisparkling polyurethane tube flamex heavy duty

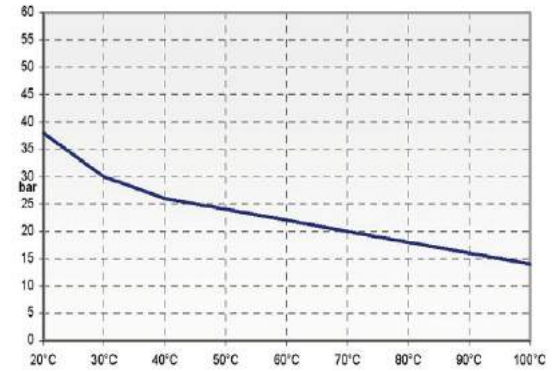




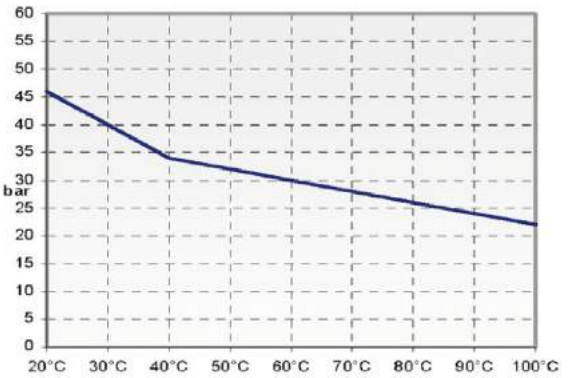
CODE	D1	D2	DN	W (MM)	BANDING RADIUS	WORKING PRESSURE AT 20°C (BAR)	BURST PRESSURE AT 20°C (BAR)	GR.	MT.
PUFH0402	4	2	2	1,0	7	20	60	12,0	50
PUFH0804	8	4	4	2,0	15	22	65	48,0	50
PUFH1006	10	6	6	2,0	20	17	51	64,0	50
PUFH1208	12	8	8	2,0	28	15	44	80,0	50
PUFH1410	14	10	10	2,0	45	13	38	96,0	50
PUFH1611	16	11	11	2,5	55	12	37	135,0	50

Sizes ODxID	Black
4X2	PUFH0402
8X4	PUFH0804
10X6	PUFH1006
12X8	PUFH1208
14X10	PUFH1410
16X11	PUFH1611

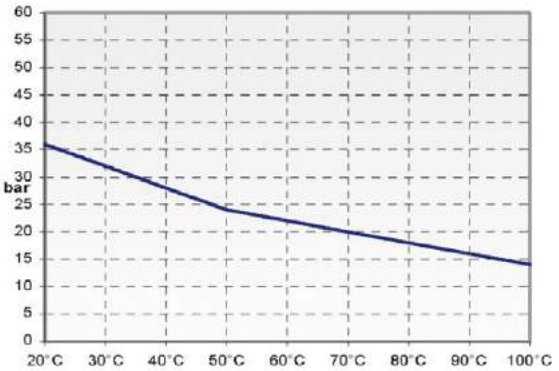
PUFH 0402



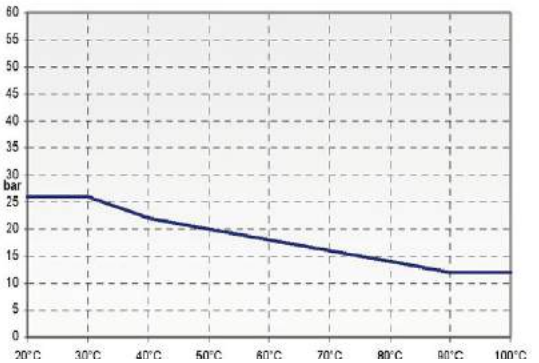
PUFH 0804



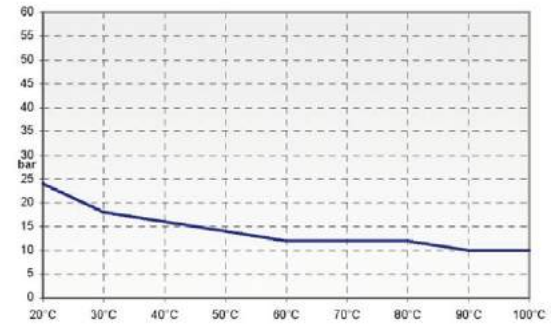
PUFH 1006



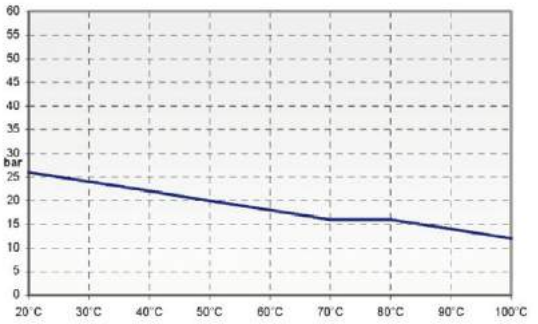
PUFH 1208



PUFH 1410



PUFH 1611



TUBES
ANTISPARKLING POLYURETHANE TUBE DIN 5510-2

PLUS

FLAME RETARDED WITHOUT HALOGEN, SELF-EXTINGUISHING IN CASE OF FIRE. FIRE CLASSIFICATION BY UNDERWRITERS LABORATORIES INC.R: LISTED UL 94 FROM V2 TO V0

LOWER COSTS DUE TO LONG DURABILITY

SUITABLE FOR ALL COMMON INSTANT PLUG-IN CONNECTORS MADE OUT OF METAL OR SUITABLE PLASTICS

RESISTANT AGAINST MICROBES AND HYDROLYSES

HIGH CHEMICAL RESISTANCE
(most detergents, solvents and other contact media)

SMALL BEND RADIUS

EXCELLENT UV RESISTANCE

TOP RESISTANCE TO ABRASION AND SCRUBBING
(suitable for drag chains)

SUITABLE FOR VACUUM APPLICATIONS

RECYCLABE (basic material could be reused), **DISPOSAL PERMISSION AS INDUSTRIAL WASTE SIMILAR TO DOMESTIC WASTE**

RELEASED TO THE INTERNATIONAL AIRCRAFT CONSTRUCTION

RELEASED TO GERMAN RAILWAY, CORRESPONDING STANDARDS REGARDING RAILWAY FIRE PROTECTION DIN 5510-2 (German Standard) **AND NF16-101** (French Standard)



PUKS is a special tube made of polyurethane (PUR) for all applications in the areas where flame retarded material is mandatory, as aircraft, building services engineering or railed vehicles. Is usable with push-in fittings. This ensures an easy and quick installation.

From -0.95 to 8 Bar
(depending on temperature)

REACH

Products in compliance with
the directive 2002/95/EC

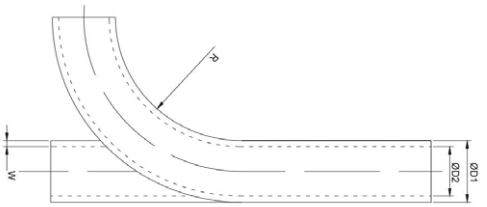
RoHS2

Products in compliance with
the directive 2011/65/EU

PUKS

Antisparkling polyurethane tube





CODE	D1	D2	TOLLERANCES	W (MM)	BANDING RADIUS	WORKING PRESSURE	BURST PRESSURE	GR./MT.	MT.
PUKS0604AZ	6	4	+/-0,1	1	14	12	37	19,95	50
PUKS0857AZ	8	5,7	+/-0,1	1,15	28	11	32	31,43	50
PUKS1075AZ	10	7,5	-0,1/+0,15	1,25	38	9	28	43,64	50
PUKS1209AZ	12	9	-0,1/+0,15	1,5	45	10	30	62,84	50
PUKS1410AZ	14	10	+/-0,15	2	45	13	38	95,76	50
PUKS1611AZ	16	11	+/-0,15	2,5	55	9	27	134,66	50

Sizes ODxID	Light Blue
6X4	PUKS0604AZ
8X5,7	PUKS0857AZ
10X7,5	PUKS1075AZ
12X9	PUKS1209AZ
14X10	PUKS1410AZ
16X11	PUKS1611AZ

TUBES
POLYAMMIDE TUBE PA12

PLUS

- HIGH TENSILE STRENGHT
- GOOD FLEXIBILITY, ALSO AT LOW TEMPERATURES
- LONG LIFE
- GOOD RESISTANCE TO HEAT
- GOOD HYDROLYSIS RESISTANCE
- GOOD RESISTANCE TO HYDROCARBONS AND OIL
- HIGH CHEMICAL RESI STANCE



p. 679 / **PA12**



p. 679 / **PA12-BX**



Polyamide tube PA12 is made using hydrocarbons base polymers (mineral base). The tube is in compliance with ISO 1874 - DIN 73378 regulations. black tube for external applications

From -40°C to +80°C

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PHYSICAL-MECHANICALS PROPERTIES	TEST METHOD	VALUE
DENSITY	ASTM D - 792	1,03 G/CM³
HARDNESS	ASTM D - 2240	65 SH D
BREAK ELONGATION	ASTM D - 638	> 300%
FLEXURAL MODULS	ASTM D - 790	410 MPA
KJ/M²	DIN 53453	NO BREAK

Pressure correction scale according to temperature as indicated in the DIN 73378 regulation

	-20°C	0°C	23°C	30°C	40°C	50°C	60°C
CORRECTION FACTORS OF PRESSURE	1,0	1,0	1,0	0,8	0,6	0,5	0,45

PA12

Polyammide tube PA12



CODE	SIZES	TOLERANCE EXTERNAL TUBE	THICKNESS	WORKING PRESSURE AT 23°C (BAR)	BURST PRESSURE (BAR)	MINIMUM BENDING RADIUS	GR.	MT.
PA12-0402-Z	4X2	±0,1	1,00	44	132	15	9,8	100
PA12-0425-Z	4X2,5	±0,1	0,75	30	90	20	7,9	100
PA12-0427-Z	4X2,7	±0,1	0,65	26	78	25	7,1	100
PA12-0604-Z	6X4	±0,1	1,00	27	81	30	16,3	100
PA12-0806-Z	8X6	±0,1	1,00	20	60	40	22,9	100
PA12-1007-Z	10X7	±0,15	1,50	25	75	50	41,2	50
PA12-1008-Z	10X8	±0,15	1,00	15	45	60	29,4	50
PA12-1208-Z	12X8	±0,15	2,00	24	72	60	64,7	50
PA12-1209-Z	12X9	±0,15	1,50	20	60	80	51,0	50
PA12-1210-Z	12X10	±0,15	1,00	13	39	85	35,9	50
PA12-1412-Z	14X12	±0,15	1,00	11	33	90	42,5	50
PA12-15125-Z	15X12,5	±0,15	1,25	12	36	90	55,6	50
PA12-1614-Z	16X14	±0,15	1,00	9	27	100	48,5	50

PA12-BX

Polyammide tube PA12



CODE	SIZES	TOLERANCE EXTERNAL TUBE	THICKNESS	WORKING PRESSURE AT 23°C (BAR)	BURST PRESSURE (BAR)	MINIMUM BENDING RADIUS	GR./ MT.	MT.
PA12-0402-25BX	4X2	±0,1	1,00	44	132	15	9,8	25
PA12-0425-25BX	4X2,5	±0,1	0,75	30	90	20	7,9	25
PA12-0427-25BX	4X2,7	±0,1	0,65	26	78	25	7,1	25
PA12-0604-25BX	6X4	±0,1	1,00	27	81	30	16,3	25
PA12-0806-25BX	8X6	±0,1	1,00	20	60	40	22,9	25
PA12-1007-25BX	10X7	±0,15	1,50	25	75	50	41,2	25
PA12-1008-25BX	10X8	±0,15	1,00	15	45	60	29,4	25

Sizes ODxID	Light Blue	Black	Red	Green	Natural
4X2	PA12-0402AZ-Z	PA12-0402NE-Z	PA12-0402RO-Z	PA12-0402VD-Z	PA12-0402NU-Z
4X2,5	PA12-0425AZ-Z	PA12-0425NE-Z			PA12-0425NU-Z
4X2,7	PA12-0427AZ-Z	PA12-0427NE-Z	PA12-0427RO-Z	PA12-0427VD-Z	PA12-0427NU-Z
6X4	PA12-0604AZ-Z	PA12-060NE-Z	PA12-0604RO-Z	PA12-0604VD-Z	PA12-0604NU-Z
8X6	PA12-0806AZ-Z	PA12-0806NE-Z	PA12-0806RO-Z	PA12-0806VD-Z	PA12-0806NU-Z
10X7	PA12-1007AZ-Z	PA12-1007NE-Z			PA12-1007NU-Z
10X8	PA12-1008AZ-Z	PA12-1008NE-Z	PA12-1008RO-Z	PA12-1008VD-Z	PA12-1008NU-Z
12X8	PA12-1208AZ-Z	PA12-1208NE-Z			PA12-1208NU-Z
12X9	PA12-1209AZ-Z	PA12-1209NE-Z			PA12-1209NU-Z
12X10	PA12-1210AZ-Z	PA12-1210NE-Z	PA12-1210RO-Z	PA12-1210VD-Z	PA12-1210NU-Z
14X12	PA12-1412AZ-Z	PA12-1412NE-Z			PA12-1412NU-Z
15X12,5	PA12-15125AZ-Z	PA12-15125NE-Z			PA12-15125NU-Z
16X14	PA12-1614AZ-Z	PA12-1614NE-Z			PA12-1614NU-Z

ADD -25BX TO END CODE FOR THE TUBE IN BOX

PA12-INCH

CODE	SIZES (INCH)	WORKING PRESSURE AT 23°C (BAR)	BURST PRESSURE (BAR)	MINIMUM BENDING RADIUS (INCH)	LB.	MT.
PA12-5/32	0,157X0,093	28	84	0,5	0,018	100
PA12-3/16	0,187X0,116	28	84	0,75	0,024	100
PA12-1/4	0,25X0,169	28	84	1	0,039	100
PA12-5/16	0,312X0,232	23	70	1,25	0,050	100
PA12-3/8	0,374X0,274	21	64	2,95	0,074	100
PA12-1/2	0,5X0,375	19	56	4,33	0,125	100

COLORS INCH

Sizes ODxID	Light Blue	Black	Red	Yellow	Natural
5/32	PA12-5/32BL	PA12-5/32NE	PA12-5/32RO	PA12-5/32GL	PA12-5/32NU
3/16	PA12-3/16BL	PA12-3/16NE	PA12-3/16RO	PA12-3/16GL	PA12-3/16NU
1/4	PA12-1/4BL	PA12-1/4NE	PA12-1/4RO	PA12-1/4GL	PA12-1/4NU
5/16	PA12-5/16BL	PA12-5/16NE	PA12-5/16RO	PA12-5/16GL	PA12-5/16NU
3/8	PA12-3/8BL	PA12-3/8NE	PA12-3/8RO	PA12-3/8GL	PA12-3/8NU
1/2	PA12-1/2BL	PA12-1/2NE	PA12-1/2RO	PA12-1/2GL	PA12-1/2NU

TUBES
POLYETHYLENE TUBE

PLUS

A WIDE RANGE OF TEMPERATURE AND PRESSURE SUITABILITY

BROAD CHEMICAL COMPATIBILITY



p. 683 / **PE**



p. 684 / **PE-INCH**



From -29°C to +66°C

Suitable for water purification, water conditioners, ice makers, misting sy-stems and food contact applications.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

DM174 EC1935

PE

Polyethylene tube - metric size



CODE	O.D.	I.D.	WALL THICKNESS (MM)	MINIMUM BENDING RADIUS AT 23°C	MINIMUM BURST PRESSURE AT 23°C (BAR)	MAX WORKING PRESSURE (BAR)	MIN TENSILE TEST (KGF/CM)	MT.
PE0425..-FF	4±0,08	2,5	0,75±0,08	25	30	16	5	200
PE0604..-FF	6±0,08	4	1±0,08	25	30	16	10	100
PE0806..-FF	8±0,08	6	1±0,08	25	20	12	15	100
PE1007..-FF	10±0,08	7	1,5±0,08	32	20	12	20	100
PE1209..-FF	12±0,10	9	1,5±0,08	63	20	12	20	100

Sizes ODxID	Blue	Black	Red	White	Natural
4X2,5	PE0425BL-FF	PE0425NE-FF	PE0425RO-FF	PE0425BO-FF	PE0425NU-FF
6X4	PE0604BL-FF	PE0604NE-FF	PE0604RO-FF	PE0604BO-FF	PE0604NU-FF
8X6	PE0806BL-FF	PE0806NE-FF	PE0806RO-FF	PE0806BO-FF	PE0806NU-FF
10X7	PE1007BL-FF	PE1007NE-FF	PE1007RO-FF	PE1007BO-FF	PE1007NU-FF
12X9	PE1209BL-FF	PE1209NE-FF	PE1209RO-FF	PE1209BO-FF	PE1209NU-FF

PE-INCH

Polyethylene tube - inch size



CODE	O.D.	I.D.	WALL THICKNESS (MM)	MINIMUM BANDING RADIUS AT 23°C (MM)	MINIMUM BURST PRESSURE AT 23°C (BAR)	MAX WORKING PRESSURE (BAR)	MIN TENSILE TEST (KGF/CM)	MT.
PE5/32..-FF	5/32	0,094" (2,39)	0,79±0,08	1,00" (25,4)	30	16	5	200
PE3/16..-FF	3/16	0,125" (3,18)	0,79±0,08	1,00" (25,4)	30	16	5	200
PE1/4..-FF	1/4	0,170" (4,32)	1,02±0,08	1,00" (25,4)	30	16	10	100
PE5/16..-FF	5/16	0,216" (5,49)	1,22±0,08	1,13" (28,7)	30	12	15	100
PE3/8..-FF	3/8	1/4" (6,35)	1,58±0,08	1,25" (31,8)	20	12	20	100
PE1/2..-FF	1/2	3/8" (9,53)	1,58±0,08	2,50" (63,5)	20	12	20	100

Sizes ODxID	Blue	Black	Red	White	Natural
5/32	PE5/32BL-FF	PE5/32NE-FF	PE5/32RO-FF	PE5/32BO-FF	PE5/32NU-FF
3/16	PE3/16BL-FF	PE3/16NE-FF	PE3/16RO-FF	PE3/16BO-FF	PE3/16NU-FF
1/4	PE1/4BL-FF	PE1/4NE-FF	PE1/4RO-FF	PE1/4BO-FF	PE1/4NU-FF
5/16	PE5/16BL-FF	PE5/16NE-FF	PE5/16RO-FF	PE5/16BO-FF	PE5/16NU-FF
3/8	PE3/8BL-FF	PE3/8NE-FF	PE3/8RO-FF	PE3/8BO-FF	PE3/8NU-FF
1/2	PE1/2BL-FF	PE1/2NE-FF	PE1/2RO-FF	PE1/2BO-FF	PE1/2NU-FF

TUBES
PTFE TUBE

PLUS

- GOOD FLEXIBILITY
- HIGH RESISTANCE TO THE AGING
- CHEMICAL INTERTNESS
- LOW MAINTENANCE
- EXCELLENT TEMPERATURE RESISTANCE



p. 688 / **PTFE-C**



p. 688 / **PTFE-C-BX**



From -60°C to +260°C

The PTFE-C tube, suitable for food, is realized with paste extruded PTFE. The high tensile stress and the high electrical and thermic insulate grade allow to our tubings to be used in different applications meeting quality standards like BS, DIN, UNI, AMS.
Suitable for corrosive fluids and stem.

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

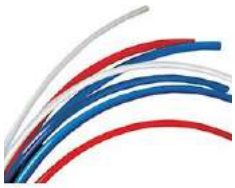
GENERALS MECHANICAL FEATURES	DIN O ASTM	UNIT	DATES
DENSITY	53479	G/M³	2,14-2,19
COMBUSTIBILITY	NOT COMBUSTIBLE		
WATER ABSORPTION	53495	%	< 0,01
ULTIMATE TENSILE STRENGHT AT 23°C	53455	MPA	29-39
YELD POINT AT 23°C	53455	N/MM²	10
ELONGATION AT BREAK AT 23°C	53455	%	200-300
HARDNESS	53505	SH	D70
TEMPERATURE/FUSION POINT	ASTM 2116	°C	327

pressure correction scale according to temperature

	From -60°C to +40°C	From +40°C to +100°C	From +100°C to +150°C	From +150°C to +200°C	> +200°C
CORRECTION FACTORS OF PRESSURE	1	0,8	0,6	0,2	0,1

PTFE-C

Calibrated PTFE tube



CODE	SIZES	TOLERANCE EXTERNAL TUBE	WORKING PRESSURE (BAR)	BURST PRESSURE (BAR)	MINIMUM BENDING RADIUS (MM)	GR./MT.	MT.
PTFE-C0425	4X2,5	+/-0,1	30	90	15	19	100
PTFE-C0604	6X4	+/-0,1	25	76	15	37	100
PTFE-C0806	8X6	+/-0,1	18	54	30	51	100
PTFE-C1008	10X8	+/-0,15	14	42	70	66	100
PTFE-C1210	12X10	+/-0,15	12	35	100	80	100
PTFE-C1412	14X12	+/-0,2	10	29	120	95	50
PTFE-C1613	16X13	+/-0,2	9	27	140	160	50

PTFE-C-BX

Calibrated PTFE tube



CODE	SIZES	TOLERANCE EXTERNAL TUBE	WORKING PRESSURE (BAR)	BURST PRESSURE (BAR)	MINIMUM BENDING RADIUS (MM)	GR./MT.	MT.
PTFE-C0425-25BX	4X2,5	±0,1	30	90	15	19	25
PTFE-C0604-25BX	6X4	±0,1	25	76	15	37	25
PTFE-C0806-25BX	8X6	±0,1	18	54	30	51	25
PTFE-C1008-25BX	10X8	±0,15	14	42	70	66	25

Sizes ODxID	Blue	Red	Natural
4X2,5	PTFE-C0425BL	PTFE-C0425RO	PTFE-C0425NU
6X4	PTFE-C0604BL	PTFE-C0604RO	PTFE-C0604NU
8X6	PTFE-C0806BL	PTFE-C0806RO	PTFE-C0806NU
10X8	PTFE-C1008BL	PTFE-C1008RO	PTFE-C1008NU
12X10	PTFE-C1210BL	PTFE-C1210RO	PTFE-C1210NU
14X12	PTFE-C1412BL	PTFE-C1412RO	PTFE-C1412NU
16X13	PTFE-C1613BL	PTFE-C1613RO	PTFE-C1613NU

ADD -25BX TO END CODE FOR THE TUBE IN BOX

TUBES
FEP TUBE

PLUS

- EXCELLENT UNIVERSAL CHEMICAL RESISTANCE
- WIDE SERVICE TEMPERATURE RANGE
- EXTREMELY HIGH WEATHERING AND UV STABILITY
- ANTI STICK CHARACTERSTICS
- GOOD DIELECTRIC VALUES
- NON-INFLAMMABLE
- OUTSTANDING LOW FRICTION PROPERTIES
- EXTREMELY SMOOTH SURFACE
- TRASPARENT COLOR



p. 691 / **FEP**



p. 692 / **FEP-BX**



From -40°C to +205°C

FEP is a melt processable fluoropolymer resin fron which is possiblew to extrude tubes in various size. They have high aknowledgment for their unique properties and versatility which are helping to solve many different industry.

Products in compliance with the directive 2002/95/EC

Products in compliance with the directive 2011/65/EU

GENERALS MECHANICAL FEATURES	DIN O ASTM	UNIT	DATES
DENSITY	53479	G/M³	2,12-2,17
COMBUSTIBILITY	NOT COMBUSTIBLE		
WATER ABSORPTION	53495	%	< 0,01
ULTIMATE TENSILE STRENGHT AT 23°C	53455	MPA	19-25
YELD POINT AT 23°C	53455	N/MM²	12
ELONGATION AT BREAK AT 23°C	53455	%	250-350
HARDNESS	53505	SH	D70
TEMPERATURE/FUSION POINT	ASTM 2116	°C	253-282

pressure correction scale according to temperature

	From -40°C to 0°C	From 0°C to +20°C	From +20°C to +40°C	From +40°C to +70°C	From +70°C to +100°C	From +100°C to +160°C	> +160°C
CORRECTION FACTORS OF PRESSURE	1,1	1	0,8	0,6	0,4	0,3	0,2

FEP

Calibrated FEP tube



CODE	SIZES	TOLERANCE EXTERNAL TUBE	WORKING PRESSURE	BURST PRESSURE	MINIMUM BENDING RADIUS	CONCENTRICITY	GR./MT.	MT.
FEP0315TR	3X1,5	+/-0,5	35	105	15	+/-0,1	13,0	100
FEP0425TR	4X2,5	+/-0,5	30	90	15	+/-0,1	19,0	100
FEP0604TR	6X4	+/-0,7	18	54	15	+/-0,1	37,0	100
FEP0806TR	8X6	+/-0,7	14	42	30	+/-0,1	51,0	100

FEP-BX

Calibrated FEP tube



CODE	SIZES	TOLERANCE EXTERNAL TUBE	WORKING PRESSURE	BURST PRESSURE	MINIMUM BENDING RADIUS	CONCENTRICITY	GR./MT.	MT.
FEP0315TR-25BX	3X1,5	+/-0,05	35	105	15	+/-0,1	13,0	25
FEP0425TR-25BX	4X2,5	+/-0,05	30	90	15	+/-0,1	19,0	25
FEP0604TR-25BX	6X4	+/-0,07	18	54	15	+/-0,1	37,0	25
FEP0806TR-25BX	8X6	+/-0,07	14	42	30	+/-0,1	51,0	25

Sizes ODxID	○ Transparent
3X1,5	FEP0315TR
4X2,5	FEP0425TR
6X4	FEP0604TR
8X6	FEP0806TR

TUBES
SILICON TUBE

PLUS

SUITABLE FOR FOOD

UP TO 200°C

SHORE 60



From -60°C to +200°C

APPLICATIONS

- Food quality tube for drink dispensers and coffee machines
- Passage of steam at low pressure

TOLERANCE

ISO 3302-1 : 1996

HARDNESS

Standard Shore 60. different hardness on request

Produced with the best technology you can find on the market using silicone compounds with very good resistance to high and low temperature, has a wide appliance in the industrial field.
The tube has been tested for the migratin test according to FDA certification and D.M. 174. It resulted conforming to come in contact with food and water products.

REACH — Products in compliance with the directive 2002/95/EC

RoHS2 — Products in compliance with the directive 2011/65/EU

DM174 EC1935 TIFQ

SI-FQ

Silicone tube



CODE	ØI.D	ØO.D	GR./MT.	MT.
SI0305FQ	3	5	16,0	100
SI0306FQ	3	6	27,0	100
SI3506FQ	3,5	6	23,0	100
SI0406FQ	4	6	20,0	100
SI0407FQ	4	7	33,0	100
SI0508FQ	5	8	39,0	100
SI0609FQ	6	9	45,0	100
SI0610FQ	6	10	63,0	100
SI0811FQ	8	11	56,0	100
SI0812FQ	8	12	80,0	100
SI0912FQ	9	12	80,0	100
SI1013FQ	10	13	68,0	100
SI1014FQ	10	14	95,0	100
SI1215FQ	12	15	80,0	100

TUBES
PVC TRANSPARENT TUBE

PLUS

HIGH TENACITY POLYESTER

NON-TOXIC

HEAVY METAL FREE



From -10°C to +50°C

Flexible hose of transparent PVC mono-coating, produced with non toxic materials according to european directives. (CADMIUM free).
Suitable for all uses that do not require particular pressure.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PVC



Flexible transparent mono-coating PVC tube

CODE	SIZES	GR./MT.	MT.
PVC0406	4X6	20	200
PVC0609	6X9	45	100
PVC0710	7X10	50	100
PVC0812	8X12	80	100
PVC1014	10X14	100	100
PVC1217	12X17	145	100
PVC1419	14X19	165	100
PVC1622	16X22	225	50
PVC1824	18X24	250	50
PVC2027	20X27	325	50
PVC2533	25X33	460	50

TUBES
PVC WIRED TUBE

PLUS

NON-TOXIC

HEAVY METAL FREE

PVC WITH TEXTILE IN HIGH TENACY POLYESTER



From -10°C to +50°C

Plasticized PVC flexible hose with textile reinforcement made by high seal polyester, produced with non toxic materials according to European directive (CADMIUM free). Dimensional tolerances ±0,2mm. (on both internal and external diameter)

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PVC-RT

Plasticized PVC wired flexible



CODE	SIZES	GR./MT.	MT.
PVC-RT0612	6X12	20	200MT.
PVC-RT0814	8X14	45	100MT.
PVC-RT1016	10X16	50	100MT.
PVC-RT1218	12X18	80	100MT.
PVC-RT1420	14X20	100	100MT.
PVC-RT1622	16X22	145	100MT.
PVC-RT1926	19X26	165	50MT.
PVC-RT2533	25X33	225	50MT.

TUBES
POLYURETHANE TUBE WITH INTERNAL PVC NON-TOXIC COATING

PLUS

HIGH FLEXIBILITY

FOR PNEUMATIC TOOLING

INTERNAL PVC NON-TOXIC COATING



From -20°C to +60°C

Working: 20 Bar
Burst: 60 Bar

APPLICATIONS
Compressed air, water

polyurethane with internal PVC non-toxic coating

To deliver compressed air when you need absolute flexibility and lightness. Its covering in polyurethane makes it anti-abrasive. Suitable for agricultural use, naval applications, for general air tools, guns for painting and airbrushes.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PU-PVC

Polyurethane tube with internal PVC non-toxic coating



CODE	ØI.D	ØO.D	GR./MT.	MT.
PU-PVC0610AZ	6	10	75	100
PU-PVC0812AZ	8	12	110	100
PU-PVC1015AZ	10	14,5	125	100
PU-PVC1116AZ	11	16	175	100
PU-PVC1319AZ	13	19	200	100

Sizes ODxID	Light blue
10X6	PU-PVC0610AZ
12X8	PU-PVC0812AZ
15X10	PU-PVC1015AZ
16X11	PU-PVC1116AZ
19X13	PU-PVC1319AZ

TUBES
PVC TUBE WITH REIFORCEMENT IN POLYESTER FIBER

PLUS

EXCELLENT RESISTANCE AT LOW TEMPERATURE

PERFORMANCE LOOK AND SOFTNESS LIKE CONVENTIONAL RUBBER

MADE IN SPECIAL PLASTICS FORMULATION WITH POLYESTER YARN BRAIDING RENFOMCEMENT



From -20°C to +60°C

Working: 20 Bar
Burst: 60 Bar

APPLICATIONS
Compressed air, water

PVC with reinforcement in polyester fiber

Ideal for air and water. It has an excellent resistance to low temperatures thanks also to the reinforcement of polyester fiber coated with a special plastic. The cover is as soft as rubber.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

PVC-AC

PVC tube with reinforcement in polyester fiber



CODE	ØI.D	ØO.D	GR./MT.	MT.
PVC-AC0614NE	6	14	170	100
PVC-AC0817NE	8	17	240	100
PVC-AC1019NE	10	19	210	100
PVC-AC1323NE	13	23	390	50
PVC-AC1929NE	19	29	550	50

Sizes ODxID	Black
14X6	PVC-AC0614NE
17X8	PVC-AC0817NE
19X10	PVC-AC1019NE
23X13	PVC-AC1323NE
19X19	PVC-AC1929NE

TUBES
FLEXLOCK TUBE

PLUS

VERY FLEXIBLE
EVEN AT LOW TEMPERATURE

SILICON FREE

INNER HOSE MADE OF IMPREVOIUS
BLACK SYNTHETIC RUBBER



From -50°C to +120°C

Working: 20 Bar
Burst: 60 Bar

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

Caucho FLEXLOCK tube is produced with high quality synthetic raw material and textile reinforcement, without using any kind of plastic.

Caucho tube mantain a very good flexibility even at low temperatures, unlike all those standard tubes which, at low pressure, become rigid. Thanks to the materials which is made of, this tube results very light and easy to handle.

It's fireproof and welding sparks resistant and can work close to sources of heat. It can transport fluids like compressed air, oxygen, acid and gas.

It's suitable for all the applications which require an intensive use of the tube, in automation, robotics plants and in industrial applications in general. It supports the weight of a car lift.

This tube is a good alternative to all the other tubes normally used in the above mentioned applications, expecially the common rubber tube for air.

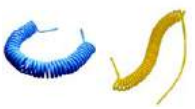
CAU

Caucho light blue tube



CODE	SIZES	PRESSURE OF USING	BURST PRESSURE	BENDING RADIUS	GR./MT.	MT.
CAU0613	6X13	20	60	35	200	50
CAU0815	8X15	20	60	45	250	50
CAU1018	10X18	20	60	70	300	50
CAU1220	12X20	20	60	80	400	50
CAU1525	15X25	20	60	100	550	50
CAU1930	19X30	20	60	150	700	50
CAU2538	25X38	20	60	160	840	50

TUBES
COILED TUBE AND ACCESSORIES



p. 707 / **UCES**



p. 708 / **UCK**



p. 708 / **1505**



p. 709 / **1508**



p. 709 / **1510**



p. 709 / **1515**



p. 710 / **1520**



p. 710 / **1522**



p. 710 / **1525**



p. 711 / **1530**



p. 711 / **1532**



p. 711 / **2507**



p. 711 / **TT**



p. 711 / **PZ-P**



p. 712 / **LM-P**



p. 711 / **PZ-G**



p. 712 / **LM-G**



p. 712 / **ETC-20**



p. 712 / **STF**



p. 712 / **TR-AFBC**



p. 712 / **HTBC**



From 0°C to +60°C

Up to 8 bar at 23°C (UCES)
Up to 10 Bar at 23°C (UCK
Negative: -750mmHg (UCES)

Compressed air

FEATURES

UCES: polyurethane tube on polyester basis has a high flexibility at low temperatures and a good tolerance to wear and tear & chemicals.
This tube is a good alternative to all the other tubes normally used in the above mentioned applications, expecially the common rubber tube for air.

UCK: the polyurethane tube has a high flexibility, light weight and is resistant to abrasion.

REACH

Products in compliance with the directive 2002/95/EC

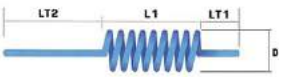
RoHS2

Products in compliance with the directive 2011/65/EU

UCES

Coiled tube on polyester basis - no fittings







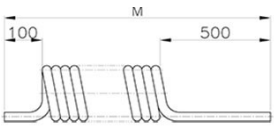
CODE	SIZES	O.D.	I.D.	TOTAL TUBE LENGHT	D	L1	LT1	LT2
UCES060410	6X4X10MT.	6	4	10MT.	35	650	100	500
UCES080525	8X5X2,5MT.	8	5	2,5MT.	45	140	100	500
UCES080510	8X5X10MT.	8	5	10MT.	45	660	100	500
UCES106525	10X6,5X2,5MT.	10	6,5	2,5MT.	55	165	100	500
UCES106575	10X6,5X7,5MT.	10	6,5	7,5MT.	55	510	100	500
UCES106510	10X6,5X10MT.	10	6,5	10MT.	55	650	100	500
UCES120825	12X8X2,5MT.	12	8	2,5MT.	75	120	100	500
UCES120875	12X8X7,5MT.	12	8	7,5MT.	75	400	100	500
UCES120810	12X8X10MT.	12	8	10MT.	75	560	100	500

Sizes ODxID	Lenght MT.	Light blue	Yellow
6X4	10	UCES060410AZ	UCES060410GL
8X5	2,5	UCES080525AZ	UCES080525GL
8X5	10	UCES080510AZ	UCES080510GL
10X6,5	2,5	UCES106525AZ	UCES106525GL
10X6,5	7,5	UCES106575AZ	UCES106575GL
10X6,5	10	UCES106510AZ	UCES106510GL
12X8	2,5	UCES120825AZ	UCES120825GL
12X8	7,5	UCES120875AZ	UCES120875GL
12X8	10	UCES120810AZ	UCES120810GL

UCK

Coiled tube on polyester basis





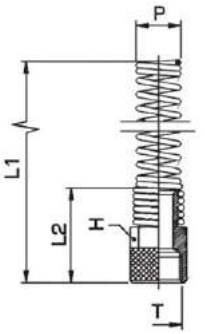
CODE	O.D.	I.D.	M (MM)	GR./MT.
UCK0604035-1050	6	4	3500	70
UCK0604050-1050	6	4	5000	113
UCK0604075-1050	6	4	7500	122
UCK0805035-1050	8	5	3500	135
UCK0805050-1050	8	5	5000	202
UCK0805075-1050	8	5	7500	305
UCK1065035-1050	10	6,5	3500	203
UCK1208035-1050	12	8	3500	309
UCK1208050-1050	12	8	5000	418

Sizes ODxID	Lenght MT.	Light blue	Yellow
6X4	3,5	UCK060435AZ-1050	
6X4	5	UCK060450AZ-1050	
6X4	7,5	UCK060475AZ-1050	UCK060475GL-1050
8X5	3,5	UCK080535AZ-1050	UCK080535GL-1050
8X5	5	UCK080550AZ-1050	UCK080550GL-1050
8X5	7,5	UCK080575AZ-1050	UCK080575GL-1050
10X6,5	3,5	UCK106535AZ-1050	UCK106535GL-1050
10X6,5	5	UCK106550AZ-1050	UCK106550GL-1050
12X8	3,5	UCK120835AZ-1050	UCK120835GL-1050
12X8	5	UCK120850AZ-1050	UCK120850GL-1050

1505

Locking nut with spring



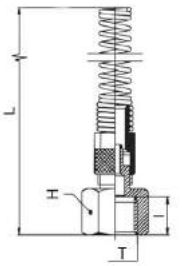


CODE	ØD	T	P	L1	L2	H
1505TR0604	6X4	M10X1	9,4	95,0	20,0	11
1505TR0806	8X6	M12X1	11,4	100,5	21,0	13
1505TR1008	10X8	M14X1	13,4	108,5	24,0	14
1505TR1210	12X10	M16X1	16,0	116,5	27,5	17

1508

Straight female adapter BSPP thread + nut + spring



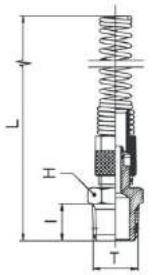


CODE	ØD	T	I	L	H
1508TR060418	6X4	G1/8"	8,5	107,5	14
1508TR060414	6X4	G1/4"	11,0	111,0	17
1508TR060438	6X4	G3/8"	11,5	112,0	22
1508TR080618	8X6	G1/8"	8,0	114,0	14
1508TR080614	8X6	G1/4"	11,0	117,5	17
1508TR080638	8X6	G3/8"	11,5	118,5	22
1508TR080612	8X6	G1/2"	15,5	121,5	24
1508TR100814	10X8	G1/4"	11,0	125,5	17
1508TR100838	10X8	G3/8"	11,5	128,0	22
1508TR100812	10X8	G1/2"	15,5	129,5	24
1508TR121038	12X10	G3/8"	11,5	136,0	22

1510

Straight male adapter BSPT thread + nut + spring



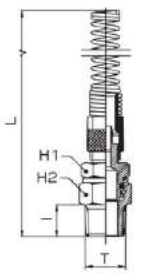


CODE	ØD	T	I	L	H
1510TR060418	6X4	R1/8"	7,5	109,5	12
1510TR060414	6X4	R1/4"	11,0	113,5	14
1510TR080618	8X6	R1/8"	7,5	116,0	14
1510TR080614	8X6	R1/4"	11,0	120,0	14
1510TR080638	8X6	R3/8"	11,5	120,5	17
1510TR080612	8X6	R1/2"	14,0	123,0	22
1510TR100818	10X8	R1/8"	7,5	124,0	14
1510TR100814	10X8	R1/4"	11,0	128,0	14
1510TR100838	10X8	R3/8"	11,5	128,5	17
1510TR100812	10X8	R1/2"	14,0	131,5	22
1510TR121038	12X10	R3/8"	11,5	136,5	17
1510TR121012	12X10	R1/2"	14,0	139,5	22

1515

Swivel straight male adapter BSPT thread + nut + spring





CODE	ØD	T	I	L	H1	H2
1515TR060418	6X4	R1/8"	7,5	117,5	12	13
1515TR060414	6X4	R1/4"	11,0	124,0	14	15
1515TR080618	8X6	R1/8"	7,5	123,0	12	13
1515TR080614	8X6	R1/4"	11,0	129,0	14	15
1515TR106514	10X6,5	R1/4"	11,0	136,0	14	15
1515TR100814	10X8	R1/4"	11,0	136,0	14	15
1515TR120838	12X8	R3/8"	11,5	145,0	17	17
1515TR121038	12X10	R3/8"	11,5	145,0	17	17

1520

Straight male adapter BSPP thread + nut + spring

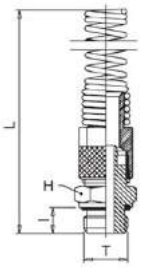


CODE	ØD	T
1520TR060414	6X4	G1/4"
1520TR080514	8X5	G1/4"
1520TR080614	8X6	G1/4"
1520TR080638	8X6	G3/8"
1520TR106514	10X6,5	G1/4"
1520TR100814	10X8	G1/4"
1520TR100838	10X8	G3/8"
1520TR120814	12X8	G1/4"
1520TR121014	12X10	G1/4"
1520TR121038	12X10	G3/8"

1522

Straight male adapter BSPP thread with OR + nut + spring





CODE	ØD	T	I	L	H
1522TR060418	6X4	G1/8"	6	109,0	13
1522TR060414	6X4	G1/4"	8	112,0	16
1522TR060438	6X4	G3/8"	9	113,0	19
1522TR060412	6X4	G1/2"	10	116,0	24
1522TR080618	8X6	G1/8"	6	115,5	14
1522TR080614	8X6	G1/4"	8	118,5	16
1522TR080638	8X6	G3/8"	9	119,5	19
1522TR080612	8X6	G1/2"	10	121,0	24
1522TR100818	10X8	G1/8"	6	123,5	14
1522TR100814	10X8	G1/4"	8	126,0	16
1522TR100838	10X8	G3/8"	9	127,5	19
1522TR100812	10X8	G1/2"	10	129,5	24
1522TR121038	12X10	G3/8"	9	135,5	19
1522TR121012	12X10	G1/2"	10	137,5	24

1525

Swivel straight male adapter BSPP thread + nut + spring

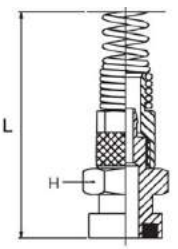


CODE	ØD	T
1525TR060414	6X4	G1/4"
1525TR080514	8X5	G1/4"
1525TR080538	8X5	G3/8"
1525TR080614	8X6	G1/4"
1525TR080638	8X6	G3/8"
1525TR106514	10X6,5	G1/4"
1525TR106538	10X6,5	G3/8"
1525TR100814	10X8	G1/4"
1525TR100838	10X8	G3/8"
1525TR120814	12X8	G1/4"
1525TR120838	12X8	G3/8"
1525TR121038	12X10	G3/8"

1530

Straight fitting with bayonet connection + nut + spring



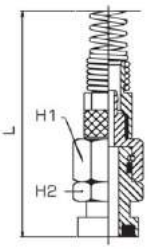


CODE	ØD	L	H
1530TR0604	6X4	110	15
1530TR1008	10X8	123	15
1530TR1210	12X10	130	16

1532

Swivel straight fitting with bayonet connection + nut + spring





CODE	ØD	L	H1	H2
1532TR0604	6X4	120	15	15
1532TR0806	8X6	112	13	15
1532TR1008	10X8	112	15	15
1532TR1210	12X10	141	17	17

2507

Swivel joint female thread for PUES tube



CODE	T	Ø	CH	L	GR.
2507TR1464	R1/4"	4X6	15	40	-
2507TR1485	R1/4"	5X8	15	40	-
2507TR1486	R1/4"	6X8	15	40	-
2507TR141065	R1/4"	6,5X10	15	40	-
2507TR14108	R1/4"	8X10	15	40	-

TT

Plastic tube cutter



CODE	SIZE	GR.
TT16	16 MM MAX	23,0

PZ

Metal hose cutter



CODE	SIZE	BLADE	GR.
PZ-P	12 MM MAX	STAINLESS STEEL	99,0
PZ-G	28 MM MAX	STAINLESS STEEL	289,0

LM

Spare blade



CODE	GR.
LM-P	1,0
LM-G	2,0

ETC-20

Tube cutter with tape



CODE	SIZES	GR.
ETC-20	16 MM MAX	47,0

STF

Plastic pipe clip



WORKING TEMPERATURE
From 0°C to 40°C

CODE	ØO.D	A	B	C	D	Ø	E	N. POSITION	GR.
STF04	4	9	114	11,7	8,0	2,5	19	10	8,0
STF06	6	9	114	11,7	10,0	2,5	19	10	8,0
STF08	8	12	143	14,6	12,0	3,1	19	10	12,0
STF10	10	15	172	17,4	13,8	4,1	19	10	16,0
STF12	12	19	78	20,5	16,8	4,1	19	4	10,0
STF14	14	21	87	22,5	18,8	4,1	19	4	11,0

TR-AFBC

Flow bend clip

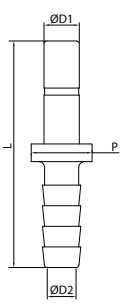


CODE	Ø TUBE	TUBE OD	GR.
TR-AFBC5/16-8MM	5/16"- 8 MM	8	4,1
TR-AFBC3/8-10MM	3/8" - 10 MM	10	11,6

HTBC

BARB CONNECTOR WITH STEM





CODE	ØD1	ØD2	P	L	GR.
HTBC0606B	6	6	10,35	38,5	4,0
HTBC0806B	8	6	10,65	39,7	5,5

TUBES
SELF FASTENING TUBE

PLUS

AS SELF FASTENING TUBE
has a good resi stance to abrasion, to aggressive enviroments and to ozone.
It's suitable for washing machines and low pressure circuits, pneumatic systems and return circuits.

SILICON FREE

AS-PU SELF FASTENING TUBE

GREAT RESISTANCE TO ABRASION

IT IS NOT ANTISTATIC AND CONDUCTIVE



p. 716 / **AS**



p. 716 / **AS-PU**



p. 717 / **3467**



p. 717 / **3468**



p. 717 / **3470**



p. 718 / **3471**



p. 718 / **3472**



p. 718 / **3474**



Air: -25°C to +70°C
Water: +10°C to +70°C

ADVANTAGES

- Easy assembling. It can be mounted without rings, nuts or fastening clamps.
- Silicon free
- Available in red, green and blue color.

AS self fastening tube has a good resi stance to abrasion, to aggressive enviroments (sparkles, UV, hydrocarbons) and to ozone.
It's recommended for hydraulic oils on petrol basis, antifreeze solutions, water, hot lube oils and air. It's suitable for washing machines and low pressure circuits, pneumatic systems and return circuits.
The use of self fastening tube is not recommended in high pressure or critical applications.
In conformity with the directives CNOMO E 07 21 115N.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU



from -20°C to +80°C

FLEXIBILITY

First layer hardness SHORE A 87
Second layer hardness SHORE A 57

ABRASION RESISTANCE

Index antiabrasive 30mm³ second ISO 4649

FLUID TYPES

Air and fluids suitable with construction materials

PVC with reinforcement in polyester fiber

The self fastening polyurethane tube, thanks to its reinforcement in polyester fiber, has a great resistance to abrasion, to the crushing and to the ozone.
This tube has a smooth surface, it is silicone-free and is in compliance with FDA. It is not antistatic and conductive.

REACH

Products in compliance with the directive 2002/95/EC

RoHS2

Products in compliance with the directive 2011/65/EU

FDA

AS

AS Self fastening



CODE	DN	INTERNAL DIAMETER	TOLERANCES	BENDING RADIUS	KG/M	LENGHT (M)
AS1/4	6	6,35	0/+0,5	20	0,18	40
AS3/8	8	9,52	0/+0,5	40	0,21	40
AS1/2	10	12,7	0/+0,8	50	0,28	40
AS5/8	12	15,87	0/+0,8	60	0,36	40
AS3/4	20	19,05	0/+0,8	100	0,38	40

Sizes ODxID	Light blue	Red	Green
1/4	AS1/4BL	AS1/4RO	AS1/4VE
3/8	AS3/8BL	AS3/8RO	AS3/8VE
1/2	AS1/2BL	AS1/2RO	AS1/2VE
5/8	AS5/8BL	AS5/8RO	AS5/8VE
3/4	AS3/4BL	AS3/4RO	AS3/4VE

AS-PU

Self-fastening tubes with polyester yarn reinforcement



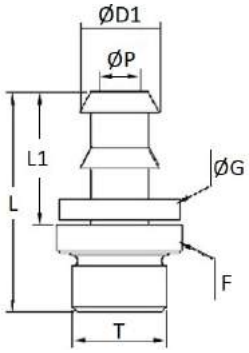
CODE	ØI.D	ØI.D	ØO.D	TOTAL THINKNESS	BENDING RADIUS	WORKING PRESSURE 23°C	WORKING PRESSURE 40°C	WORKING PRESSURE 60°C	BURST PRESSURE 23°C	KG/M	LENGHT
AS-PU1/4	1/4	6,3	12,5	3,25	25	25	12	6	95	125	100
AS-PU3/8	3/8	9,5	16	3,25	50	20	10	5	80	125	100
AS-PU1/2	1/2	12,7	19	3,5	75	20	10	5	80	125	100
AS-PU5/8	5/8	16,0	23	3,75	120	17	8	4	60	250	50
AS-PU3/4	3/4	19,0	27	4	150	17	8	4	60	300	50

Sizes ODxID	Light blue	Red	Green	Black
1/4	AS-PU1/4AZ	AS-PU1/4RO	AS-PU1/4VD	AS-PU1/4NE
3/8	AS-PU3/8AZ	AS-PU3/8RO	AS-PU3/8VD	AS-PU3/8NE
1/2	AS-PU1/2AZ	AS-PU1/2RO	AS-PU1/2VD	AS-PU1/2NE
5/8	AS-PU5/8AZ	AS-PU5/8RO	AS-PU5/8VD	AS-PU5/8NE
3/4	AS-PU3/4AZ	AS-PU3/4RO	AS-PU3/4VD	AS-PU3/4NE

3467

Male barb connector BSPP thread



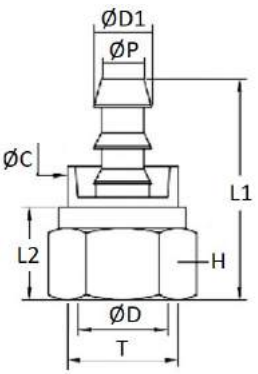


CODE	T	ØD1	DN	L	L1	F	ØG	ØP	GR.
3467TR1814	G1/8"	1/4"(6,3MM)	1/4"	31,5	20,0	13	14,0	4,0	14,0
3467TR1414	G1/4"	1/4"(6,3MM)	1/4"	35,0	20,0	17	14,0	4,0	26,0
3467TR1438	G1/4"	3/8"(9,5MM)	3/8"	39,1	24,1	17	17,0	7,5	27,0
3467TR3838	G3/8"	3/8"(9,5MM)	3/8"	42,5	24,1	22	17,0	7,5	47,0
3467TR3812	G3/8"	1/2"(12,7MM)	1/2"	46,5	28,0	22	20,5	10,0	48,0
3467TR1212	G1/2"	1/2"(12,7MM)	1/2"	48,5	28,0	27	20,5	10,0	79,0
3467TR1258	G1/2"	5/8"(15,9MM)	5/8"	56,5	36,5	27	24,0	13,5	73,0
3467TR3458	G3/4"	5/8"(15,9MM)	5/8"	58,5	36,5	32	24,0	13,5	117,0
3467TR3434	G3/4"	3/4"(19,1MM)	3/4"	65,3	43,0	32	27,0	16,0	123,0

3468

Female barb connector BSPP thread



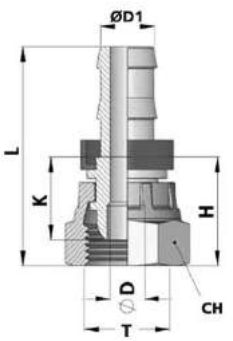


CODE	DN	T	ØD1	D	L1	L2	ØC	E	ØP	GR.
3468TRM1014	6	M10X1	1/4"(6,3MM)	1/4"	33,5	11,0	16,5	13,0	4,0	17,0
3468TRM1214	8	M12X1	1/4"(6,3MM)	1/4"	34,5	13,0	16,5	14,0	4,8	18,0
3468TRM1614	10	M16X1,5	1/4"(6,3MM)	1/4"	35,8	15,0	16,5	19,0	4,8	33,0
3468TRM1638	10	M16X1,5	3/8"(9,5MM)	3/8"	39,3	15,0	19,5	19,0	7,5	35,0
3468TRM2038	14	M20X1,5	3/8"(9,5MM)	3/8"	39,3	15,0	19,5	24,0	7,5	52,0
3468TRM2012	14	M20X1,5	1/2"(12,7MM)	1/2"	44,0	15,0	23,5	24,0	10,0	56,0
3468TRM2212	15	M22X1,5	1/2"(12,7MM)	1/2"	45,0	17,0	23,5	27,0	10,0	77,0
3468TRM2412	16	M24X1,5	1/2"(12,7MM)	1/2"	47,0	18,0	23,5	30,0	10,0	99,0
3468TRM2458	16	M24X1,5	5/8"(15,9MM)	5/8"	55,0	18,0	27,0	30,0	13,5	97,0
3468TRM3034	22	M30X1,5	3/4"(19,1MM)	3/4"	62,0	18,5	30,0	36,0	16,0	137,0

3470

Steel straight female ogival seat 60ºC BSPP thread for self fastening tube



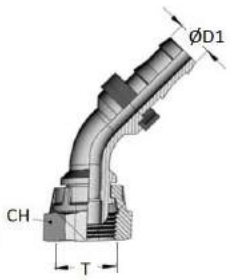


CODE	T	D1	DN	CH	L	H	K	ØD
3470TR14	G1/4"	1/4"	6	19	37,2	17,9	13,2	4,0
3470TR38	G3/8"	3/8"	10	20	44,2	21,7	14,2	7,0
3470TR12	G1/2"	1/2"	13	27	51,5	28,5	22,5	9,5
3470TR34	G3/4"	3/4"	19	32	68,2	39,2	27,6	14,5
3470TR1	G1"	1"	25	41	74,0	38,4	28,4	20,0

3471

Steel elbow 45º 60º seat welded BSPP thread for self fastening tube



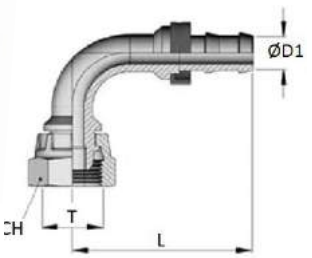


CODE	T	D1	DN	CH
3471TR14	G1/4"	1/4"	6	19
3471TR38	G3/8"	3/8"	10	22
3471TR12	G1/2"	1/2"	13	27
3471TR34	G3/4"	3/4"	19	32
3471TR1	G1"	1"	25	46

3472

Steel elbow 90º ogival 60º seat welded BSPP thread for self fastening tube



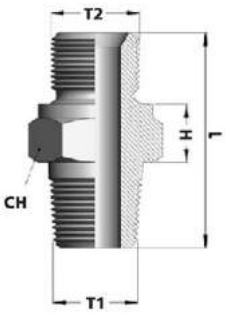


CODE	T	D1	DN	CH	L
3472TR14	G1/4"	1/4"	6	19	19
3472TR38	G3/8"	3/8"	10	22	22
3472TR12	G1/2"	1/2"	13	27	27
3472TR34	G3/4"	3/4"	19	32	32
3472TR1	G1"	1"	25	40	40

3474

Steel straight adapter BSPT/BSPP thread with ogival seat





CODE	T1	T2	CH	L	H
3474TR14	R1/4"	G1/4"	19	33,0	8
3474TR38	R3/8"	G3/8"	22	39,0	11
3474TR12	R1/2"	G1/2"	27	43,0	10
3474TR34	R3/4"	G3/4"	32	46,5	11
3474TR1	R1"	G1"	41	56,0	13

TUBES
AIR DISTRIBUTION NETWORK



p. 721 / **AL**



p. 721 / **CC**



p. 722 / **STFT**



p. 722 / **HPC-G**



p. 722 / **HUC**



p. 722 / **HUL**



p. 723 / **HUT**



p. 723 / **HCJ-G**



p. 723 / **HLJ**



p. 723 / **HPF**



p. 724 / **HPP**



p. 724 / **HGJ**



p. 724 / **HBVU**



p. 724 / **HCP**



p. 724 / **WLM**



From -20°C to 70°C for tubes
From -20°C to 98°C for fittings

From -0.8 to 15 Bar
From 750mmHg up to 14 Bar at 23°C

compressed air & vacuum

Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
Parallel gas BSPP ISO 228
from G1/8" to G1/2"
Metric ISO 262 M5, M6

Tubes:
Aluminum EN AW-6060T6 with titanation treatment and RAL5015 and electrostatic coating
Fittings:
Body: POM
Gripping collet: POM + stainless steel 301
O-ring: EPDM

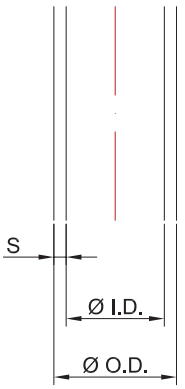
REACH
Products in compliance with the directive 2002/95/EC

RoHS2
Products in compliance with the directive 2011/65/EU

AL

Extruded aluminum tube



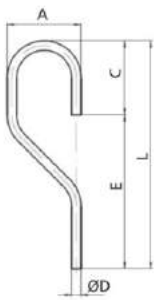


CODE	ØO.D.	ØI.D.	S	BAR LENGHT	GR./MT.
AL1512-AZ-S	15	12	1,5	4 MT.	181
AL2219-AZ-S	22	19	1,5	4 MT.	260

CC

Drop bend



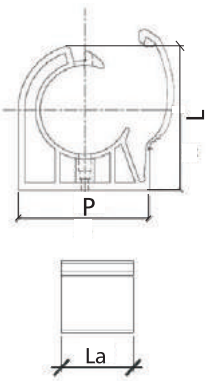


CODE	ØD	A	C	E	L	GR
CC15	15	110	102,5	340	500	197
CC22	22	160	155	405	600	267

STFT

Pipe clip for rigid tubes



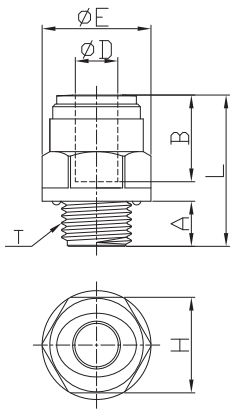


CODE	ØO.D.	P	L	LA	GR
STFT15	15	29,7	30,2	15	4
STFT22	22	39,5	38	15	6

HPC-G

Male connector BSPP thread



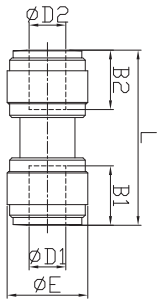


CODE	ØD	T	A	B	ØE	H	L	GR.
HPC12G04B	12	G1/2	12,5	24,7	28,5	26	32,7	12,4
HPC15G04B	15	G1/2	12,5	29,4	28,8	26	43,4	17
HPC15G06B	15	G3/4	14,5	29,4	39,0	33	39,0	24,5
HPC22G06B	22	G3/4	14,5	33,8	37,0	33	51,0	28,2

HUC

Union connector



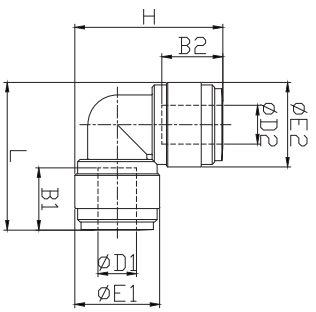


CODE	ØD1	ØD2	B1	B2	ØE	L	GR.
HUC1212B	12	12	24,7	24,7	23	52,4	14,4
HUC1515B	15	15	29,4	29,4	28	61,8	23,4
HUC2222B	22	22	33,8	33,8	35,5	70,6	37,7

HUL

Union elbow



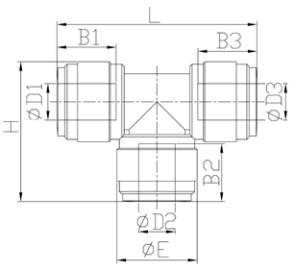


CODE	ØD1	ØD2	B1	B2	ØE1	ØE2	L	H	GR.
HUL1212B	12	12	24,7	24,7	23	23	43,2	43,2	16,4
HUL1515B	15	15	29,4	29,4	28	28	52,2	52,2	27,4
HUL2222B	22	22	33,8	33,8	35,5	35,5	63,9	63,9	46,8

HUT

Union tee



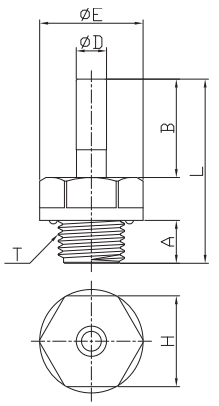


CODE	ØD1	ØD2	ØD3	B1	B2	B3	ØE	L	H	GR.
HUT1212B	12	12	12	24,7	24,7	24,7	23	63,4	43,2	23,2
HUT1515B	15	15	15	29,4	29,4	29,4	28	76,4	52,2	38,2
HUT2222B	22	22	22	33,8	33,8	33,8	35,5	92,3	63,9	64
HUT221222B	22	12	22	33,8	24,7	33,8	23	83	55,8	50,3
HUT221522B	22	15	22	33,8	29,4	33,8	28	87	61	57,1

HCJ-G

Stem adapter BSPP thread



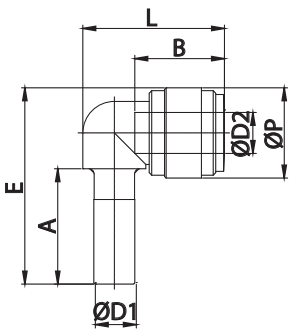


CODE	ØD	T	A	B	ØE	L	H	GR.
HCJ12G04B	12	G1/2	12,5	28	28,5	49	26	11,2
HCJ15G04B	15	G1/2	12,5	36	28,8	57	26	13,8
HCJ22G06B	22	G3/4	14,5	41	39	67,5	33	25,8

HLJ

Union elbow tube with stem



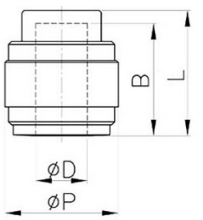


CODE	ØD1	ØD2	ØP	A	B	E	L	GR.
HLJ1212B	12	12	23,6	29,5	24,7	51,2	39	12,6
HLJ1515B	15	15	28	35	29,4	61,3	48,5	21,7
HLJ2222B	22	22	35,5	41	33,8	75,5	58	38,9

HPF

Female plug



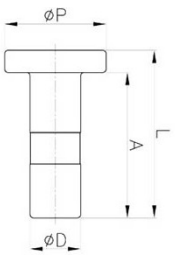


CODE	ØD	ØP	L	B	GR.
HPF12B	12	23	26,7	24,7	7,3
HPF15B	15	28	32,1	29,4	12,6
HPF22B	22	35,5	36,6	33,8	20,6

HPP

Male plug



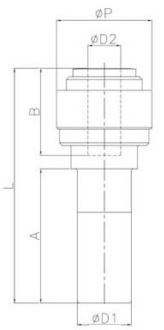


CODE	ØD	ØP	L	A	GR.
HPP12B	12	21	34	30	4
HPP15B	15	25	40	36	6,4
HPP22B	22	33	45,5	41	12,2

HGJ

Stem adapter BSPP thread



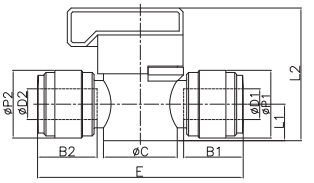


CODE	ØD1	ØD2	ØP	L	A	B	GR.
HGJ1510B	15	10	20	61	35	20,1	12
HGJ1512B	15	12	23,6	61,7	35	24,7	11,3
HGJ2215B	22	15	28	70,4	41	29,4	19,7

HBVU

2 ways hand valve



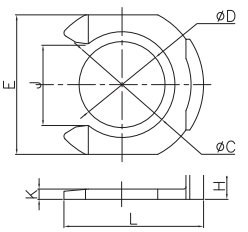


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	GR.
HBVU1212B	12	12	23,7	23,7	23	23	12,5	42,3	70,4	24,2	35,4

HCP

Locking clip



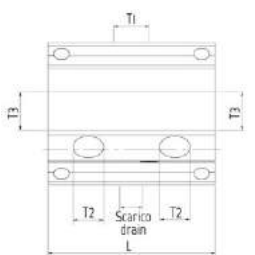


CODE	ØD	ØC	E	L	H	J	K	GR.
HCP12-1/2BL	12	14,4	19	19	3,6	11,1	1,4	0,3
HCP15BL	15	17	22,5	22,6	3,6	13,1	1,4	0,45
HCP22BL	22	24	30	29,3	3,8	19,1	1,9	0,84

WLM

Applique for wall installation





CODE	T1	T2	T3	L	DRAIN	GR.
WLM12122-NE	G1/2	G1/2	G1/2	88	G1/4	510

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
ACETALDEHYDE	B			B
AMYL ACETATE	B			B
AMMONIUM ACETATE	B			
ETHYL ACETATE	B	L		B
METHYL ACETATE	B			B
ACETYLENE	B			B
ACETONE	B		B	B
ACETIC ACID 5%	B	L		B
BENZOIC ACID	B			B
BORIC ACID	B	L		B
CARBONIC ACID				B
PRUSSIC ACID				B
CITRIC ACID	B	L		B
HYDROCHLORIC ACID 10%	B	P		B
CHROMIC ACID 10%	P			B
HYDROFLUORIC ACID 40%	P			B
FORMIC ACID 50%	L	P		B
PHOSPHORIC ACID 10%	B	L		B
LACTIC ACID 10%	B	P		B
MALEIC ACID				B
NITRIC ACID 30%	P	P		B
OLEIC ACID	B			B
OXALIC ACID	B			B
PERCHLORIC ACID				B
PRICRIC ACID	L			B
SALICYLIC ACID	B			
SULPHURIC ACID 10%	B	L		B
SULPHURIC ACID 30%	L			B
STEARIC ACID	B			B
SUCCINIC ACID	B			
TANNIC ACID 10%				B
TARTARIC ACID	B			B
URIC ACID	B			
WATER	B	B	B	
BROMINE WATER-CHLORINE	P			
WATER HIGH PURITY			B	
SEA WATER	B	B		
HYDROGEN DIOXIDE 20 VOL.	B			
WHITE SPIRIT	P			B
WATER + CO2	B			
DIACETONE ALCOHOL	B			
ISOPROPYL ALCOHOL	BG			B
AMYL ALCOHOL	BG	L		
BENZILIC ALCOHOL	L	P		B
BUTYL ALCOHOL				B
DENATURATED ALCOHOL	BG			B
ETHYL ALCOHOL	BG		B	B
METHYL ALCOHOL	BG		B	B
ACETIC ALDEHYDE	BG			

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
BENZALDEHYDE	B			
ALUM	B			
STARCH	B			
AMINE		P		
AMMONIA	B		B	
LIQUID AMMONIA			B	
ACETIC ANHYDRIDE	L			B
CARBON DIOXIDE			B	
SULFUR DIOXIDE	L			B
ANILINE	LG			B
ANTI FREEZE	B	L		
ARGON	B	P		
CALCIUM ARSENATE	B			
NITROGEN	B			
BENZALDEHYDE	B			
BENZENE	B		L	B
BENZINE	B	B		B
BENZOL	B	L		
SODIUM BICARBONATE	B			B
POTASSIUM BICHROMATE	L			
BEER			B	
CARBON DISULPHYDE	BG			
BITUMEN	B			
BORON	B			B
BROMINE	P		P	
ETHYL AND METHYL BROMIDE	B			
BUTANE	B			B
LIME IDRATES B				
CHLORINE WATER 5%	B	P		B
ASTM FUEL + METHANOL 85/15		L		
AMMONIUM CARBONATE	B			
CHLORINE CARBONATE		L		
FLUORINE CARBONATE		L		
POTASSIUM CARBONATE	B			
SODIUM CARBONATE 50%	B			
ASTM FUEL ABCD DIN 51604		P		
LIQUID WAX	B			
SODIUM CHLORIDE 25%	B			
CHLORINE	P			
BENZENE CHLORINE	L			B
CHLOROFORM	L	P		B
CHLORONITROBENZENE	P			
ALIMINUM CHLORIDE				B
AMMONIUM CHLORIDE	B			B
ETHYLENE CHLORIDE	B			B
BARIUM CHLORIDE	B			B
CALCIUM CHLORIDE	B	B		B
MAGNESIUM CHLORIDE 50%	B			B
METHYL CHLORIDE GAS	B			B

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
METHYLENE CHLORIDE LIQUID	L	P		B
POTASSIUM CHLORIDE	B			B
SODIUM CHLORIDE	B	B		B
TIN CHLORIDE	B			
VINYL CHLORIDE	B			B
ZINC CHLORIDE	B			B
FERRIC CHLORIDE	B			B
FERROUS CHLORIDE				B
CYCLOHEXANE	B	L		B
CYCLOHEXANOL	B			
CYCLOHEXANONE	B	P		B
DECAHYDRONAPHTHALINE	B			
DECALIN	B			B
SYNTHETIC DETERGENTS	B			
DI-N-BUTYL PHTHALATE				B
DICHLOROETHANE	L			
DICHLOROETHYLENE	L	P		
DIETHANOLAMINE	B			B
DIPHENYL	B			
DIMETILCHETONE	B	P		
DIMETILFORMAMIDE	B	P		
DIMETHYL SULPHATE	B	P		
DIOCTYL PHOSPATE	B			
DIOXINE	B			B
HELIUM	B	B		
HEPTANE	B			
OIL OF TURPENTINE	B			
PETROLEUM ESTER	B			
ETHYL ESTER	B			
SULFATED ESTER	B			
FATTY ACID ESTERS	B			
ETHANOL		P		
HEXANOL	B			
PHENOL	P			B
POTASSIUM FERROCYANIDE	B			
FLUORIDE	P			P
FORANE	B			
FORANE 12 B1	L			
FORMALDEHYDE	B			B
FORMALIN	B			
FORMOL	B			
DIAMMONIUM PHOSPHATE	B			
AMMONIUM PHOSPHATE	B			B
TRISODIUM PHOSPHATE	B			
FREON 11	B			
FREON 12-114				L
FURFURAL	B			B
LIGHTING GAS	B		P	
HYDROGEN GAS			B	

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
NATURAL GAS	B			B
DIESEL	B	B	P	B
GLYCERINE	BG	B		B
GLYCOL	B	L		B
GLUCOSE	B			B
GRAPHITE + WATER	B			
AMYL ACID	B			
ANIMAL FAT	B			B
AROMATIC HYDROCARBONS		P		
HYDROGEN	B	P		B
AMMONIUM HYDROXIDE		L		B
POTASSIUM HYDROXIDE 50%		L		B
SODIUM HYDROXIDE 50%	B	L		B
IODINE OF POTASSIUM	B			
CALCIUM HYPOCHLORITE				B
ISOBUTANE	B	L		
ISOCYANTES	L			
ISOCTANE	B			B
ISOFORANE	B			
ISOPROPANE		P		
KEROSENE	B			B
LANOLIN	B			
MILK		B	B	B
MILK OF LIME	B			
LYE OF POTASSIUM	B			
LYE OF SODA CONCENTRATED	P			B
MOLASSES			B	
MERCURY	B		B	B
MERCURY CHROMIUM	B			
METHANE	B			
METHANOL		P		
METHYL ETHYL KETONE				B
CREOSOL	P			B
CHLORBENZENE	L			B
CARBON MONOXIDE				B
DIESEL OIL	B			B
NAPHTHALENE	B			B
AMMONIUM NITRATE	B	B		B
SILVER NITRATE				B
CALCIUM NITRATE	B			B
POTASSIUM NITRATE	BG			B
SODIUM NITRATE	B	B		B
FERRIC NITRATE				B
NITROBENZENE	LG			B
NITROMETHANE+METHYL ALCOHOL 40/60%		BG		
OCTANE	B			
OLEUM	P			
PEANUT OIL	B			
ASTM OIL N.1, N.2, N.3		B		

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
FUEL OIL			P	B
BRAKE FLUIDS	B	P		B
CUTTING OIL				B
TRANSFORMER OIL	B			B
COTTON OIL				B
LINSEED OIL	B			B
PARAFFIN OIL	B			
PINE OIL	B			B
PYRIDINE OIL	L			
SILICON OIL	B			
HYDRAULIC OIL	B	B		B
ENGINE OIL	B			B
SAE 10 OIL				B
VEGETABLE OIL	B	B		B
ESSENTIAL OIL			P	
SPINDLE OIL			P	
ORTHO-D-CHLOROBENZENE	L			
PHOSPHOROS OXYCHLORIDE	P			
ETHYLENE OXIDE	B			
OXYGEN	B	P		B
OZONE	L	B		B
PARADICLOROBENZENE	B			
PARAFFIN OIL	B			
ANTIMONI PENTACHLORIDE	P			
PENTANE		L		
PERCHLOROETHYLENE	L	L		B
POTASSIUM PERMANGANATE 50%	P			
DILAUROYL PEROXIDE	B			
ORGANIC PEROXIDE	L	L		B
PETROLEUM ESTER	B			B
TETRAETHYL LEAD	B			
PYRIDINE PURE	L	P		B
POTASSIUM 5%	B			
PROPANE	B		P	B
RESORCIN	P			
AQUEOUS ALLUMINUM SALTS	B			
SILVER SALTS	B			
BARIUM SALTS	B			
IRON SALTS	B			
MAGNESIUM SALTS	B			
NICKEL SALTS	B		B	
COPPER SALTS	B			
ZINC SALTS	B			
SOAP SOLUTION	B			B
TALLOW	B			
SILICATE	B			
CYANOACRYLIC SILICONE	B			
SILICON GREASE-OIL	B	B		
SKYDROL 500B		L		B

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYURETHANE	POLYETHYLENE	PTFE
CAUSTIC SODA 10%	B	P	B	B
ALLUMINUM SULPHATE	B	B		B
AMMONIUM SULPHATE	B	B		B
CALCIUM SULPHATE				B
MAGNESIUM SULPHATE				B
METHYL SULPHATE	B			
POTASSIUM SULPHATE	B			B
COPPER SULPHATE	B			
SODIUM SULPHATE	B			B
ZINC SULPHATE				B
FERROUS SULPHATE				
SODIUM SULPHITE	B	B		
AMMONIUM SULPHIDE	B			
CARBON DISULPHITE	BG			
SODIUM SULPHIDE	B			
ZINC SULPHIDE	B			
WHITE SPIRIT	B			
STEARIN	B			
STYRENE	B			B
FRUIT JUICE		B		
CARBON TETRACHLORIDE	L			B
TITANIUM TETRACHLORIDE	P			
TETRAHYDROFURAN	B	P		
TETRAHYDRONAPHTHALENE	B			
TETRALIN	B			
THIOCARBONATE	B			
THIOPHEN	B			
SODIUM THIOSULPHATE	B			
TOLUENE	B	P	P	B
TOLUOL	B			
TRIBUTYL PHOSPHATE	B			B
TRICLOROETANO	L	P		
TRICHLOROETHYLENE	LG	P		B
PHOSPOROUS TRICHLORIDE	P			
TRYCRESIL PHOSPHATE	B			
UREA	B	L		B
WATER VAPOUR			B	
VASELINE	B			
NITROCELLULOSE PAINTS	B			B
OIL PAINTS			B	
NINYL PAINTS			B	
WINE			B	
WHISKY			B	
XYLENE	B			
SULPHUR	B			B
SUGAR			B	

B = good resistance / **L** = limited resistance / **P** = poor resistance / **G** = swelling action

ALPHANUMERIC INDEX

1100TR1	127
1100TR12	127
1100TR14	127
1100TR18	127
1100TR34	127
1100TR38	127
1100TRM5	127
1100TRN12	128
1100TRN14	128
1100TRN18	128
1100TRN38	128
1101TR1	128
1101TR12	128
1101TR14	128
1101TR18	128
1101TR34	128
1101TR38	128
1101TRM5	128
1102TR1	128
1102TR12	128
1102TR14	128
1102TR18	128
1102TR34	128
1102TR38	128
1102TRM5	128
1105TR1	305
1105TR12	305
1105TR14	305
1105TR18	305
1105TR34	305
1105TR38	305
1105TRM5	305
1106TR12	305
1106TR14	305
1106TR18	305
1106TR38	305
1107TR1234	306
1107TR1412	306
1107TR1438	306
1107TR1814	306
1107TR1838	306
1107TR341	306
1107TR3812	306
1107TR3834	306
1107TRM518	306
1108TR1412	306
1108TR1438	306
1108TR1814	306
1108TR1838	306
1108TR3812	306
1110TR1	306
1110TR12	306
1110TR12-3P	317
1110TR1-3P	317
1110TR14	306
1110TR14-3P	317
1110TR18	306
1110TR18-3P	317
1110TR34	306
1110TR34-3P	317
1110TR38	306
1110TR38-3P	317
1112TR1234	307
1112TR1412	307
1112TR1438	307
1112TR1814	307
1112TR1838	307
1112TR341	307
1112TR3812	307
1115TR1	307
1115TR12	307
1115TR121	307
1115TR1234	307
1115TR14	307
1115TR1412	307
1115TR1438	307
1115TR34	307
1115TR341	307
1115TR38	307
1115TR3812	307
1115TR3834	307
1116TR14	307
1116TR1412	307
1116TR1438	307
1116TR18	307
1116TR1814	307
1116TR1838	307
1116TR38	307
1116TR3812	307
1118TR14	308
1118TR18	308
1118TR38	308
1120TR1	308
1120TR12	308

1120TR121	308
1120TR1234	308
1120TR14	308
1120TR1412	308
1120TR1438	308
1120TR18	308
1120TR1814	308
1120TR1838	308
1120TR34	308
1120TR341	308
1120TR38	308
1120TR3812	308
1120TR3834	308
1122TR14	308
1122TR18	308
1122TR38	308
1125TR1	309
1125TR12	309
1125TR14	309
1125TR18	309
1125TR34	309
1125TR38	309
1125TRM5	309
1126TR121	309
1126TR1234	309
1126TR1412	309
1126TR1438	309
1126TR1814	309
1126TR1838	309
1126TR341	309
1126TR3812	309
1126TR3834	309
1126TRM518	309
1130TR141735	309
1130TR141751	309
1130TR181422	309
1130TR181442	309
1130TR181451	309
1135TR112	310
1135TR1214	310
1135TR1218	310
1135TR1238	310
1135TR134	310
1135TR138	310
1135TR1418	310
1135TR3412	310
1135TR3414	310
1135TR3438	310
1135TR3814	310
1135TR3818	310
1135TRM518	310
1136TR1214	310
1136TR1218	310
1136TR1238	310
1136TR1418	310
1136TR3814	310
1136TR3818	310
1136TRM518	310
1140TR112	310
1140TR1214	310
1140TR1218	310
1140TR1238	310
1140TR134	310
1140TR138	310
1140TR1418	310
1140TR3412	310
1140TR3414	310
1140TR3438	310
1140TR3814	310
1140TR3818	310
1145TR1	311
1145TR12	311
1145TR14	311
1145TR18	311
1145TR34	311
1145TR38	311
1145TRM5	311
1148TR12	311
1148TR14	311
1148TR18	311
1148TR38	311
1148TRM5	311
1149TR12	311
1149TR14	311
1149TR18	311
1149TR38	311
1149TRM5	311
1150TR1	311
1150TR12	311
1150TR14	311
1150TR18	311
1150TR34	311
1150TR38	311
1155TR1	312
1155TR12	312
1155TR14	312
1155TR18	312
1155TR34	312
1155TR38	312
1155TRM5	312
1160TR12	312
1160TR14	312
1160TR18	312
1160TR38	312
1161TR1	312
1161TR12	312
1161TR14	312
1161TR18	312
1161TR34	312
1161TR38	312
1163TR101514	324
1163TR101538	324
1163TR101714	324
1163TR101738	324
1163TR101914	324
1163TR101938	324
1163TR111638	324
1163TR61014	324
1163TR61038	324
1163TR61214	324
1163TR61238	324
1163TR61314	324
1163TR61338	324
1163TR61414	324
1163TR61438	324
1163TR71614	324
1163TR71638	324
1163TR81214	324
1163TR81238	324
1163TR81314	324
1163TR81338	324
1163TR81514	324
1163TR81538	324
1163TR81714	324
1163TR81738	324
1164TR101514	325
1164TR101538	325
1164TR101714	325
1164TR101738	325
1164TR101914	325
1164TR101938	325
1164TR61014	325
1164TR61038	325
1164TR61214	325
1164TR61238	325
1164TR61314	325
1164TR61338	325
1164TR61414	325
1164TR61438	325
1164TR71614	325
1164TR71638	325
1164TR81214	325
1164TR81238	325
1164TR81314	325
1164TR81338	325
1164TR81514	325
1164TR81538	325
1164TR81714	325
1164TR81738	325
1165TR1212	254
1165TR1214	254
1165TR1217	254
1165TR1220	254
1165TR1410	254
1165TR1412	254
1165TR146	254
1165TR147	254
1165TR148	254
1165TR149	254
1165TR1810	254
1165TR186	254
1165TR187	254
1165TR188	254
1165TR189	254
1165TR3418	254
1165TR3420	254
1165TR3810	254
1165TR3812	254
1165TR3814	254
1165TR3817	254
1165TR388	254
1165TR389	254
1165TRM545	254
1165TRM56	254
1165TRM57	254
1165TRM66	254
1165TRM67	254
1167TR1212	254
1167TR1217	254
1167TR1412	254
1167TR146	254
1167TR147	254
1167TR148	254
1167TR149	254
1167TR186	254
1167TR187	254
1167TR188	254
1167TR189	254
1167TR3812	254
1167TR3817	254
1167TR389	254
1167TRM545	254
1169TR1210	255
1169TR1212	255
1169TR1214	255
1169TR1216	255
1169TR1217	255
1169TR1218	255
1169TR1220	255
1169TR125	255
1169TR129	255
1169TR1410	255
1169TR1412	255
1169TR146	255
1169TR147	255
1169TR148	255

1169TR149	255
1169TR1810	255
1169TR186	255
1169TR187	255
1169TR188	255
1169TR189	255
1169TR3416	255
1169TR3418	255
1169TR3420	255
1169TR3425	255
1169TR3810	255
1169TR3812	255
1169TR3814	255
1169TR3816	255
1169TR3817	255
1169TR3818	255
1169TR3820	255
1169TR389	255
1170TR1412	255
1170TR147	255
1170TR148	255
1170TR149	255
1170TR187	255
1170TR188	255
1170TR189	255
1171TR14623	256
1171TR14723	256
1171TR186185	256
1171TR18623	256
1171TR187185	256
1171TR18723	256
1172TR146325	256
1172TR147325	256
1172TR186325	256
1172TR18638	256
1172TR187325	256
1172TR18738	256
1173TR186	256
1173TR187	256
1175TR1	312
1175TR12	312
1175TR14	312
1175TR18	312
1175TR34	312
1175TR38	312
1175TRM5	312
1176TRM101	234
1176TRM101	313
1176TRM121	234
1176TRM121	313
1176TRM1615	234
1176TRM1615	313
1176TRM1815	234
1176TRM1815	313
1176TRM2015	313
1176TRM2215	234
1176TRM2215	313
1176TRM2615	313
1176TRM2815	313
1200TR1	313
1200TR12	313
1200TR14	313
1200TR18	313
1200TR34	313
1200TR38	313
1200TRM5	313
1205TR1	313
1205TR12	313
1205TR14	313
1205TR18	313
1205TR34	313
1205TR38	313
1205TRM5	313
1210TR1	313
1210TR12	313
1210TR14	313
1210TR18	313
1210TR34	313
1210TR38	313
1210TRM5	313
1215TR12	314
1215TR14	314
1215TR18	314
1215TR38	314
1216TR12	314
1216TR14	314
1216TR18	314
1216TR38	314
1220TR1	314
1220TR12	314
1220TR14	314
1220TR18	314
1220TR34	314
1220TR38	314
1220TRM5	314
1225TR1	314
1225TR12	314
1225TR14	314
1225TR18	314
1225TR34	314
1225TR38	314
1225TRM5	314
1230TR1	315
1230TR12	315
1230TR14	315
1230TR18	315
1230TR34	315
1230TR38	315
1230TRM5	315
1235TR1	315
1235TR12	315
1235TR14	315
1235TR18	315
1235TR34	315
1235TR38	315
1235TRM5	315
1240TR1	315
1240TR12	315
1240TR14	315
1240TR18	315
1240TR34	315
1240TR38	315
1240TRM5	315
1245TR1	315
1245TR12	315
1245TR14	315
1245TR18	315
1245TR34	315
1245TR38	315
1245TRM5	315
1255TR14	321
1255TR14125	321
1255TR38	321
1256	322
1260TR14	321
1265TR12	321
1265TR14	321
1265TR38	321
1270TR14	322
1275TR1015	323
1275TR1017	323
1275TR1019	323
1275TR610	323
1275TR612	323
1275TR613	323
1275TR614	323
1275TR716	323
1275TR812	323
1275TR813	323
1275TR815	323
1275TR817	323
1278TR1019	326
1278TR612	326
1278TR614	326
1278TR817	326
1280TR14	322
1280TR18	322
1280TR38	322
1285TR14	322
1285TR18	322
1285TR38	322
1288TR10	323
1288TR11	323
1288TR12	323
1288TR14	323
1288TR6	323
1288TR7	323
1288TR8	323
1288TR9	323
1290TR14	322
1290TR18	322
1290TR38	322
1291BG1019	323
1291BG1020	323
1291BG1021	323
1291BG1022	323
1291BG1023	323
1291BG1319	323
1291BG1320	323
1291BG1323	323
1291BG1324	323
1291BG1325	323
1292TR101912	325
1292TR101938	325
1292TR102012	325
1292TR102038	325
1292TR102112	325
1292TR102138	325
1292TR102212	325
1292TR102238	325
1292TR102312	325
1292TR102338	325
1292TR131912	325
1292TR131938	325
1292TR132012	325
1292TR132038	325
1292TR132112	325
1292TR132138	325
1292TR132312	325
1292TR132338	325
1292TR132412	325
1292TR132438	325
1292TR132512	325
1292TR132538	325
1293TR101912	326
1293TR102012	326
1293TR102112	326
1293TR102212	326
1293TR102312	326
1293TR131912	326
1293TR132012	326
1293TR132112	326
1293TR132312	326
1293TR132412	326
1293TR132512	326
1300TR12	316

1300TR14	316
1300TR18	316
1300TR38	316
1310TR12	316
1310TR14	316
1310TR18	316
1310TR38	316
1320TR12M2815	316
1320TR14M2015	316
1320TR18M1615	316
1320TR38M2615	316
1320TRM5M101	316
1322TR114M492	316
1322TR12M282	316
1322TR14M2015	316
1322TR18M1615	316
1322TR34M342	316
1322TR38M2615	316
1400TR1	130
1400TR12	130
1400TR14	130
1400TR18	130
1400TR34	130
1400TR38	130
1400TRN1	130
1400TRN12	130
1400TRN14	130
1410MF1	297
1410MF112	297
1410MF114	297
1410MF12	297
1410MF14	297
1410MF18	297
1410MF2	297
1410MF34	297
1410MF38	297
1410TR12	345
1410TR14	345
1410TR18	345
1410TR34	345
1410TR38	345
1412MF112	298
1412MF1121	298
1412MF112114	298
1412MF1141	298
1412MF11434	298
1412MF1214	298
1412MF1238	298
1412MF134	298
1412MF138	298
1412MF1418	298
1412MF21	298
1412MF2112	298
1412MF2114	298
1412MF3412	298
1412MF3438	298
1412MF3814	298
1412MF3818	298
1412TR1234	345
1412TR1412	345
1412TR1438	345
1412TR1814	345
1412TR3812	345
1416MF1	312
1416MF112	312
1416MF114	312
1416MF12	312
1416MF14	312
1416MF18	312
1416MF2	312
1416MF212	312
1416MF3	312
1416MF34	312
1416MF38	312
1416MF4	312
1420MF12P3	298
1420MF14P3	298
1420MF18P3	298
1420MF38P3	298
1420TR1438	346
1420TR1814	346
1420TR3812	346
1425MF1	299
1425MF112	299
1425MF114	299
1425MF12	299
1425MF12P3	299
1425MF14	299
1425MF14P3	299
1425MF18	299
1425MF18P3	299
1425MF1P3	299
1425MF2	299
1425MF34	299
1425MF34P3	299
1425MF38	299
1425MF38P3	299
1425TR12	346
1425TR14	346
1425TR18	346
1425TR34	346
1425TR38	346
1426MF112114	299
1426MF1141	299
1426MF1238	299
1426MF134	299
1426MF1418	299
1426MF2112	299
1426MF3412	299
1426MF3814	299
1426TR1234	346
1426TR3812	346
1430TR12M2815	346
1430TR14M2015	346
1440MF112	300
1440MF1121	300
1440MF112114	300
1440MF1141	300
1440MF11434	300
1440MF1214	300
1440MF1238	300
1440MF134	300
1440MF1418	300
1440MF2112	300
1440MF2114	300
1440MF3412	300
1440MF3438	300
1440MF3814	300
1440MF3818	300
1440TR1238	347
1440TR1418	347
1440TR3814	347
1449TRH1	362
1449TRH12	362
1449TRH14	362
1449TRH18	362
1449TRH34	362
1449TRH38	362
1450MF1	299
1450MF112	299
1450MF114	299
1450MF12	299
1450MF14	299
1450MF18	299
1450MF2	299
1450MF34	299
1450MF38	299
1455MF1	300
1455MF112	300
1455MF114	300
1455MF12	300
1455MF14	300
1455MF18	300
1455MF2	300
1455MF34	300
1455MF38	300
1461TR12	347
1461TR14	347
1461TR18	347
1461TR34	347
1461TR38	347
1469MF112T39	300
1469MF114T33	300
1469MF12T15	300
1469MF14T9	300
1469MF18T7	300
1469MF1T27	300
1469MF2T52	300
1469MF34T20	300
1469MF38T11	300
1469TR1214	286
1469TR148	286
1469TR186	286
1469TR3420	286
1469TR3810	286
1475MF1	300
1475MF112	300
1475MF114	300
1475MF12	300
1475MF14	300
1475MF18	300
1475MF2	300
1475MF34	300
1475MF38	300
1476TRHM1215	240
1476TRHM1215	348
1476TRHM1415	240
1476TRHM1415	348
1476TRHM1615	240
1476TRHM1615	348
1476TRHM1815	240
1476TRHM1815	348
1476TRHM2215	240
1476TRHM2215	348
1480MF1	301
1480MF112	301
1480MF114	301
1480MF12	301
1480MF14	301
1480MF18	301
1480MF2	301
1480MF34	301
1480MF38	301
1485MF1	301
1485MF112	301
1485MF114	301
1485MF12	301
1485MF14	301
1485MF18	301
1485MF2	301
1485MF34	301
1485MF38	301
1490MF1	301
1490MF112	301
1490MF114	301
1490MF12	301

1490MF14	301
1490MF18	301
1490MF2	301
1490MF34	301
1490MF38	301
1505TR0604	708
1505TR0806	708
1505TR1008	708
1505TR1210	708
1508TR060414	709
1508TR060418	709
1508TR060438	709
1508TR080612	709
1508TR080614	709
1508TR080618	709
1508TR080638	709
1508TR100812	709
1508TR100814	709
1508TR100838	709
1508TR121038	709
1510TR060414	709
1510TR060418	709
1510TR080612	709
1510TR080614	709
1510TR080618	709
1510TR080638	709
1510TR100812	709
1510TR100814	709
1510TR100818	709
1510TR100838	709
1510TR121012	709
1510TR121038	709
1515TR060414	709
1515TR060418	709
1515TR080614	709
1515TR080618	709
1515TR100814	709
1515TR106514	709
1515TR120838	709
1515TR121038	709
1520TR060414	710
1520TR080514	710
1520TR080614	710
1520TR080638	710
1520TR100814	710
1520TR100838	710
1520TR106514	710
1520TR120814	710
1520TR121014	710
1520TR121038	710
1522TR060412	710
1522TR060414	710
1522TR060418	710
1522TR060438	710
1522TR080612	710
1522TR080614	710
1522TR080618	710
1522TR080638	710
1522TR100812	710
1522TR100814	710
1522TR100818	710
1522TR100838	710
1522TR121012	710
1522TR121038	710
1525TR060414	710
1525TR080514	710
1525TR080538	710
1525TR080614	710
1525TR080638	710
1525TR100814	710
1525TR100838	710
1525TR106514	710
1525TR106538	710
1525TR120814	710
1525TR120838	710
1525TR121038	710
1530TR0604	711
1530TR1008	711
1530TR1210	711
1532TR0604	711
1532TR0806	711
1532TR1008	711
1532TR1210	711
1600TR1214	317
1600TR1238	317
1600TR134	317
1600TR1418	317
1600TR3412	317
1600TR3814	317
1600TR3818	317
1600TRM518	317
1605TR12	135
1605TR14	135
1605TR38	135
1610TR12	134
1610TR14	134
1610TR18	134
1610TR34	134
1610TR38	134
1610TRM5	134
1620TR12	134
1620TR14	134
1620TR18	134
1620TR38	134
1700TR12L	158
1700TR14L	158
1700TR18L	158
1700TR38L	158
1700TRM5L	158
1701TR14L	158
1701TR14L-IN	158
1701TR18L	158
1701TR18L-IN	158
1705TR1	160
1705TR112L	159
1705TR114L	159
1705TR12	160
1705TR12L	159
1705TR14	160
1705TR18	160
1705TR1L	159
1705TR212L	159
1705TR2L	159
1705TR34	160
1705TR34L	159
1705TR38	160
1705TR38L	159
1705TR3L	159
1705TR4L	159
1710TR1	161
1710TR12	161
1710TR14	161
1710TR18	161
1710TR34	161
1710TR38	161
1730TR1	162
1730TR12	162
1730TR14	162
1730TR18	162
1730TR34	162
1730TR38	162
1800TR12	329
1800TR14	329
1800TR18	329
1800TR38	329
1800TRN12	333
1800TRN14	333
1800TRN18	333
1800TRN34	333
1800TRN38	333
1802TR1214	329
1802TR1238	329
1802TR1418	329
1802TR3814	329
1802TR3818	329
1802TRN1214	333
1802TRN1218	333
1802TRN1238	333
1802TRN1418	333
1802TRN3412	333
1802TRN3414	333
1802TRN3418	333
1802TRN3438	333
1802TRN3814	333
1802TRN3818	333
1810TR12	330
1810TR14	330
1810TR18	330
1810TR38	330
1810TRN14	333
1810TRN18	333
1812TR1238	330
1812TR1418	330
1812TR3814	330
1812TRN1418	334
1820TR1212	330
1820TR1214	330
1820TR1218	330
1820TR1238	330
1820TR1412	330
1820TR1414	330
1820TR1418	330
1820TR1438	330
1820TR1812	330
1820TR1814	330
1820TR1818	330
1820TR1838	330
1820TR3812	330
1820TR3814	330
1820TR3818	330
1820TR3838	330
1820TRN1212	334
1820TRN1214	334
1820TRN1218	334
1820TRN1238	334
1820TRN1412	334
1820TRN1414	334
1820TRN1418	334
1820TRN1438	334
1820TRN1812	334
1820TRN1814	334
1820TRN1818	334
1820TRN1838	334
1820TRN3812	334
1820TRN3814	334
1820TRN3818	334
1820TRN3838	334
1825TR12	331
1825TR14	331
1825TR18	331
1825TR34	331
1825TR38	331
1825TRN12	334
1825TRN14	334
1825TRN18	334
1825TRN38	334

1827TR1214	331
1827TR1238	331
1827TR1418	331
1827TR3412	331
1827TR3414	331
1827TR3814	331
1827TR3818	331
1827TRN1214	335
1827TRN1238	335
1827TRN1418	335
1827TRN3814	335
1827TRN3818	335
1830TR12	331
1830TR14	331
1830TR18	331
1830TR38	331
1830TRN14	335
1830TRN18	335
1832TR1238	331
1832TR1418	331
1832TR1438	331
1832TR1814	331
1832TR3812	331
1832TR3814	331
1832TRN1418	335
1834TR1238	332
1834TR1418	332
1834TR1438	332
1834TR1814	332
1834TR3812	332
1834TR3814	332
1840TR1214	332
1840TR1218	332
1840TR1238	332
1840TR1418	332
1840TR3412	332
1840TR3414	332
1840TR3438	332
1840TR3814	332
1840TR3818	332
1840TRN1214	335
1840TRN1218	335
1840TRN1238	335
1840TRN1418	335
1840TRN3412	335
1840TRN3414	335
1840TRN3438	335
1840TRN3814	335
1840TRN3818	335
1850TR1	332
1850TR12	332
1850TR14	332
1850TR18	332
1850TR34	332
1850TR38	332
1850TRN12	336
1850TRN14	336
1850TRN18	336
1850TRN34	336
1850TRN38	336
1855TR12	332
1855TR14	332
1855TR18	332
1855TR34	332
1855TR38	332
1875TR12	333
1875TR14	333
1900TR12	339
1900TR14	339
1900TR18	339
1900TR38	339
1902TR1214	339
1902TR1238	339
1902TR1418	339
1902TR3814	339
1902TR3818	339
1910TR12	340
1910TR14	340
1910TR18	340
1910TR38	340
1912TR1238	340
1912TR1418	340
1912TR3814	340
1920TR1212	340
1920TR1214	340
1920TR1218	340
1920TR1238	340
1920TR1412	340
1920TR1414	340
1920TR1418	340
1920TR1438	340
1920TR1812	340
1920TR1814	340
1920TR1818	340
1920TR1838	340
1920TR3812	340
1920TR3814	340
1920TR3818	340
1920TR3838	340
1925TR12	341
1925TR14	341
1925TR18	341
1925TR34	341
1925TR38	341
1927TR1214	341
1927TR1238	341
1927TR1418	341
1927TR3412	341
1927TR3414	341
1927TR3814	341
1927TR3818	341
1930TR12	341
1930TR14	341
1930TR18	341
1930TR38	341
1932TR1238	341
1932TR1418	341
1932TR1438	341
1932TR1814	341
1932TR3812	341
1932TR3814	341
1934TR1238	342
1934TR1418	342
1934TR1438	342
1934TR1814	342
1934TR3812	342
1934TR3814	342
1940TR1214	342
1940TR1218	342
1940TR1238	342
1940TR1418	342
1940TR3412	342
1940TR3414	342
1940TR3438	342
1940TR3814	342
1940TR3818	342
1950TR1	342
1950TR12	342
1950TR14	342
1950TR18	342
1950TR34	342
1950TR38	342
1955TR12	342
1955TR14	342
1955TR18	342
1955TR34	342
1955TR38	342
20AC100L-R01	400
20AC100L-R02	400
20AC100V-R01	400
20AC100V-R02	400
20AC101L-R01	401
20AC101L-R02	401
20AC101V-R01	401
20AC101V-R02	401
20AC110L-48	400
20AC110L-63	400
20AC110L-76	400
20AC110V-48	400
20AC110V-63	400
20AC110V-76	400
20AC111L-48	402
20AC111L-63	402
20AC111L-76	402
20AC111V-48	402
20AC111V-63	402
20AC111V-76	402
20AC120L-48	401
20AC120L-63	401
20AC120L-76	401
20AC120V-48	401
20AC120V-63	401
20AC120V-76	401
20AC121L-48	402
20AC121L-63	402
20AC121L-76	402
20AC121V-48	402
20AC121V-63	402
20AC121V-76	402
20AC131L-48	403
20AC131L-76	403
20AC131V-48	403
20AC131V-76	403
2105TR1210	186
2105TR128	186
2105TR1410	186
2105TR148	186
2105TR3810	186
2105TR388	186
2105TRN1238	189
2105TRN1438	189
2105TRN14516	189
2105TRN1814	189
2105TRN18516	189
2105TRN3838	189
2110TR1210	186
2110TR1212	186
2110TR126	186
2110TR128	186
2110TR1410	186
2110TR1412	186
2110TR146	186
2110TR148	186
2110TR186	186
2110TR188	186
2110TR3410	186
2110TR3412	186
2110TR346	186
2110TR348	186
2110TR3810	186
2110TR3812	186
2110TR386	186
2110TR388	186
2110TRN1212	189
2110TRN1214	189
2110TRN1238	189

2110TRN1412	189
2110TRN1414	189
2110TRN1438	189
2110TRN14516	189
2110TRN1814	189
2110TRN18516	189
2110TRN3438	189
2110TRN3812	189
2110TRN3838	189
2110TRN38516	189
2115TR12	186
2115TR6	186
2115TR8	186
2115TR86	186
2115TRN12	189
2115TRN14	189
2115TRN516	189
2130TR146	187
2130TR148	187
2130TR186	187
2135TR12	187
2135TR6	187
2135TR8	187
2135TR86	187
2135TRN14	189
2135TRN516	189
2140TR1212	187
2140TR1412	187
2140TR146	187
2140TR148	187
2140TR186	187
2140TR188	187
2140TR3812	187
2140TR388	187
2140TRN1414	190
2140TRN14516	190
2140TRN1814	190
2140TRN18516	190
2150TR148	187
2150TR186	187
2155TR1212	188
2155TR1412	188
2155TR146	188
2155TR148	188
2155TR186	188
2155TR188	188
2155TR3812	188
2155TR388	188
2155TRN1212	190
2155TRN1414	190
2155TRN14516	190
2155TRN1814	190
2155TRN18516	190
2155TRN3812	190
2160TR1212	188
2160TR1412	188
2160TR146	188
2160TR148	188
2160TR186	188
2160TR188	188
2160TR3812	188
2160TR388	188
2160TRN1414	190
2160TRN14516	190
2160TRN1812	190
2160TRN1814	190
2160TRN18516	190
2165TR12	188
2165TR6	188
2165TR68	188
2165TR8	188
2165TR86	188
2165TRN12	190
2165TRN14	190
2165TRN516	190
2230TR10	188
2230TR12	188
2230TR6	188
2230TR8	188
2500TR12108	171
2500TR121210	171
2500TR1215125	171
2500TR14108	171
2500TR1464	171
2500TR1486	171
2500TR18108	171
2500TR1853	171
2500TR1864	171
2500TR1886	171
2500TR38108	171
2500TR381210	171
2500TR3864	171
2500TR3886	171
2502TR12108	172
2502TR121210	172
2502TR1215125	172
2502TR1264	172
2502TR1286	172
2502TR14108	172
2502TR1464	172
2502TR1486	172
2502TR18108	172
2502TR18427	172
2502TR1853	172
2502TR1864	172
2502TR1886	172
2502TR38108	172
2502TR381210	172
2502TR3864	172
2502TR3886	172
2503TR141065	172
2503TR14108	172
2503TR1464	172
2503TR1485	172
2503TR1486	172
2503TR1864	172
2503TR1885	172
2503TR1886	172
2503TR381210	172
2503TR38128	172
2505TR12108	173
2505TR1286	173
2505TR14108	173
2505TR1464	173
2505TR1486	173
2505TR18108	173
2505TR18427	173
2505TR1853	173
2505TR1864	173
2505TR1886	173
2505TR38108	173
2505TR381210	173
2505TR3864	173
2505TR3886	173
2507TR141065	711
2507TR14108	711
2507TR1464	711
2507TR1485	711
2507TR1486	711
2510TR12108	173
2510TR121210	173
2510TR1215125	173
2510TR1286	173
2510TR14108	173
2510TR1464	173
2510TR1486	173
2510TR18108	173
2510TR18427	173
2510TR1853	173
2510TR1864	173
2510TR1886	173
2510TR38108	173
2510TR381210	173
2510TR3864	173
2510TR3886	173
2511TR141065	174
2511TR14108	174
2511TR1464	174
2511TR1485	174
2511TR1486	174
2511TR1864	174
2511TR1885	174
2511TR1886	174
2511TR381210	174
2511TR38128	174
2512TRM1212564	174
2512TRM1212586	174
2512TRM121564	174
2512TRM121586	174
2512TRM553	174
2512TRM564	174
2512TRM653	174
2512TRM664	174
2513TRM1212564	174
2513TRM1212586	174
2513TRM121564	174
2513TRM121586	174
2513TRM12164	174
2513TRM5427	174
2513TRM553	174
2513TRM564	174
2513TRM6427	174
2513TRM653	174
2513TRM664	174
2515TR108	175
2515TR1210	175
2515TR15125	175
2515TR427	175
2515TR53	175
2515TR64	175
2515TR86	175
2515TR8664	175
251V14	180
251V18	180
251VM5	180
251VM6	180
2520TR108	175
2520TR1210	175
2520TR15125	175
2520TR427	175
2520TR53	175
2520TR64	175
2520TR86	175
252V14	180
252V18	180
2530TR14108	175
2530TR1464	175
2530TR1486	175
2530TR1853	175
2530TR1864	175
2530TR1886	175
2530TR381210	175
2535TR108	175
2535TR1210	175
2535TR15125	175
2535TR427	175

2535TR53	175
2535TR64	175
2535TR86	175
2535TR8664	175
2540TR12108	176
2540TR121210	176
2540TR1215125	176
2540TR1286	176
2540TR14108	176
2540TR141210	176
2540TR1464	176
2540TR1486	176
2540TR18108	176
2540TR18427	176
2540TR1853	176
2540TR1864	176
2540TR1886	176
2540TR38108	176
2540TR381210	176
2540TR3864	176
2540TR3886	176
2542TR14108	176
2542TR1464	176
2542TR1486	176
2542TR18427	176
2542TR1864	176
2542TR1886	176
2543TR14108	176
2543TR1464	176
2543TR1486	176
2543TR18427	176
2543TR1864	176
2543TR1886	176
2548TRM1212564	177
2548TRM1212586	177
2548TRM121564	177
2548TRM121586	177
2548TRM5427	177
2548TRM553	177
2548TRM564	177
2548TRM6427	177
2550TR108	177
2550TR53	177
2550TR64	177
2550TR86	177
2553TR14108	177
2553TR1464	177
2553TR1486	177
2553TR18427	177
2553TR1864	177
2553TR1886	177
2555TR12108	178
2555TR121210	178
2555TR1215125	178
2555TR14108	178
2555TR1464	178
2555TR1486	178
2555TR18108	178
2555TR18427	178
2555TR1853	178
2555TR1864	178
2555TR1886	178
2555TR38108	178
2555TR381210	178
2555TR3864	178
2555TR3886	178
2555TRM553	178
2560TR12108	178
2560TR121210	178
2560TR1215125	178
2560TR14108	178
2560TR1464	178
2560TR1486	178
2560TR18108	178
2560TR18427	178
2560TR1853	178
2560TR1864	178
2560TR1886	178
2560TR38108	178
2560TR381210	178
2560TR3864	178
2560TR3886	178
2560TRM553	178
2565TR108	179
2565TR1210	179
2565TR15125	179
2565TR427	179
2565TR53	179
2565TR64	179
2565TR86	179
2565TR8664	179
2570TR14108	179
2570TR1464	179
2570TR1486	179
2570TR18427	179
2570TR1853	179
2570TR1864	179
2570TR1886	179
2570TRM5427	179
2570TRM553	179
2570TRM564	179
2570TRM6427	179
2575TR14108	179
2575TR1464	179
2575TR1486	179
2575TR18427	179
2575TR1853	179
2575TR1864	179
2575TR1886	179
2580TR14	179
2580TR18	179
2580TR38	179
2585TR14	180
2585TR18	180
2595TR14	180
2595TR18	180
2605TR1	389
2605TR12	389
2605TR14	389
2605TR18	389
2605TR34	389
2605TR38	389
2610TR12	181
2610TR12	389
2610TR14	181
2610TR14	389
2610TR18	181
2610TR18	389
2610TR38	181
2610TR38	389
2610TRM5	181
2610TRM5	389
2612TR12	181
2612TR12	204
2612TR12	389
2612TR14	181
2612TR14	204
2612TR14	389
2612TR18	181
2612TR18	204
2612TR18	389
2612TR38	181
2612TR38	204
2612TR38	389
2615TR12	182
2615TR12	390
2615TR14	182
2615TR14	390
2615TR18	182
2615TR18	390
2615TR34	182
2615TR34	390
2615TR38	182
2615TR38	390
2615TRM5	182
2615TRM5	390
2620TR12	182
2620TR12	390
2620TR14	182
2620TR14	390
2620TR18	390
2620TR18	182
2620TR38	182
2620TR38	390
2625TR14	182
2625TR18	182
2630TRM10164	181
2630TRM12186	181
2630TRM141108	181
2630TRM1611210	181
2630TRM20115125	181
2630TRM605427	181
2630TRM707553	181
2630TRM807564	181
2700TR121210	201
2700TR14108	201
2700TR1464	201
2700TR1486	201
2700TR18108	201
2700TR1864	201
2700TR1886	201
2700TR38108	201
2700TR381210	201
2710TR121210	201
2710TR14108	201
2710TR1464	201
2710TR1486	201
2710TR18108	201
2710TR1864	201
2710TR1886	201
2710TR38108	201
2710TR381210	201
2720TR121210	202
2720TR14108	202
2720TR1464	202
2720TR1486	202
2720TR18108	202
2720TR1864	202
2720TR1886	202
2720TR38108	202
2720TR381210	202
2720TR3886	202
2725TR14108	202
2725TR1464	202
2725TR1486	202
2725TR1864	202
2725TR1886	202
2730TR14108	202
2730TR1464	202
2730TR1486	202
2730TR1864	202
2730TR1886	202
2740TR121210	202
2740TR14108	202
2740TR1464	202
2740TR1486	202

2740TR18108	202
2740TR1864	202
2740TR1886	202
2740TR38108	202
2740TR381210	202
2745TR14108	203
2745TR1464	203
2745TR1486	203
2745TR1864	203
2745TR1886	203
2750TR14108	203
2750TR1464	203
2750TR1486	203
2750TR1864	203
2750TR1886	203
2760TR14108	203
2760TR1464	203
2760TR1486	203
2760TR18108	203
2760TR1864	203
2760TR1886	203
2760TR38108	203
2770TR108	203
2770TR1210	203
2770TR64	203
2770TR86	203
2780TR108	204
2780TR1210	204
2780TR64	204
2780TR86	204
2790TRM10164	204
2790TRM12186	204
2790TRM141108	204
2790TRM1611210	204
2900TR1410	194
2900TR146	194
2900TR148	194
2900TR1810	194
2900TR186	194
2900TR188	194
2905TR1210	194
2905TR128	194
2905TR1410	194
2905TR146	194
2905TR148	194
2905TR186	194
2905TR188	194
2905TR3810	194
2905TR388	194
2910TR1210	194
2910TR1212	194
2910TR126	194
2910TR128	194
2910TR1410	194
2910TR1412	194
2910TR146	194
2910TR148	194
2910TR186	194
2910TR188	194
2910TR3410	194
2910TR3412	194
2910TR346	194
2910TR348	194
2910TR3810	194
2910TR3812	194
2910TR386	194
2910TR388	194
2915TR12	195
2915TR6	195
2915TR8	195
2915TR86	195
2930TR146	195
2930TR148	195
2930TR186	195
2935TR12	195
2935TR6	195
2935TR8	195
2940TR1212	195
2940TR1412	195
2940TR146	195
2940TR148	195
2940TR186	195
2940TR188	195
2940TR3812	195
2940TR388	195
2950TR148	196
2950TR186	196
2955TR1212	196
2955TR1412	196
2955TR146	196
2955TR148	196
2955TR186	196
2955TR188	196
2955TR3812	196
2955TR388	196
2960TR1212	196
2960TR1412	196
2960TR146	196
2960TR148	196
2960TR186	196
2960TR188	196
2960TR3812	196
2960TR388	196
2965TR12	196
2965TR6	196
2965TR68	196
2965TR8	196
2965TR86	196
2970TR148	197
3100LL1210-G	209
3100LL1212-G	209
3100LL1214-G	209
3100LL1215-G	209
3100LL1216-G	209
3100LL1218-G	209
3100LL1410-G	209
3100LL146-G	209
3100LL148-G	209
3100LL184-G	209
3100LL186-G	209
3100LL188-G	209
3100LL3810-G	209
3100LL3812-G	209
3100LL388-G	209
3100TR1210	229
3100TR1212	229
3100TR1214	229
3100TR1215	229
3100TR1216	229
3100TR1218	229
3100TR1410	229
3100TR146	229
3100TR148	229
3100TR184	229
3100TR186	229
3100TR188	229
3100TR3810	229
3100TR3812	229
3100TR388	229
3120LL1410-G	210
3120LL146-G	210
3120LL148-G	210
3120LL184-G	210
3120LL186-G	210
3120LL188-G	210
3120LL3810-G	210
3120LL388-G	210
3120TR1410	230
3120TR146	230
3120TR148	230
3120TR184	230
3120TR186	230
3120TR188	230
3120TR3810	230
3120TR388	230
3130LL1212-G	210
3130LL1214-G	210
3130LL1215-G	210
3130LL1216-G	210
3130LL1218-G	210
3130LL1410-G	210
3130LL146-G	210
3130LL148-G	210
3130LL184-G	210
3130LL186-G	210
3130LL188-G	210
3130LL3810-G	210
3130LL3812-G	210
3130LL388-G	210
3130TR1212	230
3130TR1214	230
3130TR1215	230
3130TR1216	230
3130TR1218	230
3130TR1410	230
3130TR146	230
3130TR148	230
3130TR184	230
3130TR186	230
3130TR188	230
3130TR3810	230
3130TR3812	230
3130TR388	230
3140LL1210-G	210
3140LL1212-G	210
3140LL1214-G	210
3140LL1215-G	210
3140LL1216-G	210
3140LL1218-G	210
3140LL1410-G	210
3140LL146-G	210
3140LL148-G	210
3140LL184-G	210
3140LL186-G	210
3140LL188-G	210
3140LL3810-G	210
3140LL3812-G	210
3140LL388-G	210
3140TR1210	230
3140TR1212	230
3140TR1214	230
3140TR1215	230
3140TR1216	230
3140TR1218	230
3140TR1410	230
3140TR146	230
3140TR148	230
3140TR184	230
3140TR186	230
3140TR188	230
3140TR3810	230
3140TR3812	230
3140TR388	230
3150LL146-G	211
3150LL148-G	211
3150LL184-G	211

3150LL186-G	211
3150LL188-G	211
3150TR146	231
3150TR148	231
3150TR184	231
3150TR186	231
3150TR188	231
3160LL1212-G	211
3160LL1214-G	211
3160LL1215-G	211
3160LL1216-G	211
3160LL1218-G	211
3160LL1410-G	211
3160LL146-G	211
3160LL148-G	211
3160LL184-G	211
3160LL186-G	211
3160LL188-G	211
3160LL3810-G	211
3160LL3812-G	211
3160LL388-G	211
3160TR1212	231
3160TR1214	231
3160TR1215	231
3160TR1216	231
3160TR1218	231
3160TR1410	231
3160TR146	231
3160TR148	231
3160TR184	231
3160TR186	231
3160TR188	231
3160TR3810	231
3160TR3812	231
3160TR388	231
3170LL1212-G	211
3170LL1214-G	211
3170LL1215-G	211
3170LL1216-G	211
3170LL1218-G	211
3170LL1410-G	211
3170LL146-G	211
3170LL148-G	211
3170LL184-G	211
3170LL186-G	211
3170LL188-G	211
3170LL3810-G	211
3170LL3812-G	211
3170LL388-G	211
3170TR1212	231
3170TR1214	231
3170TR1215	231
3170TR1216	231
3170TR1218	231
3170TR1410	231
3170TR146	231
3170TR148	231
3170TR184	231
3170TR186	231
3170TR188	231
3170TR3810	231
3170TR3812	231
3170TR388	231
3180LL10-G	212
3180LL12-G	212
3180LL14-G	212
3180LL15-G	212
3180LL16-G	212
3180LL18-G	212
3180LL4-G	212
3180LL6-G	212
3180LL8-G	212
3180TR10	232
3180TR12	232
3180TR14	232
3180TR15	232
3180TR16	232
3180TR18	232
3180TR4	232
3180TR6	232
3180TR8	232
3190LL10-G	212
3190LL12-G	212
3190LL14-G	212
3190LL15-G	212
3190LL6-G	212
3190LL8-G	212
3190TR10	232
3190TR12	232
3190TR14	232
3190TR15	232
3190TR6	232
3190TR8	232
3200LL10-G	212
3200LL12-G	212
3200LL14-G	212
3200LL15-G	212
3200LL16-G	212
3200LL18-G	212
3200LL4-G	212
3200LL6-G	212
3200LL8-G	212
3200TR10	232
3200TR12	232
3200TR14	232
3200TR15	232
3200TR16	232
3200TR18	232
3200TR4	232
3200TR6	232
3200TR8	232
3210LL10-G	213
3210LL12-G	213
3210LL14-G	213
3210LL15-G	213
3210LL16-G	213
3210LL18-G	213
3210LL4-G	213
3210LL6-G	213
3210LL8-G	213
3210TR10	233
3210TR12	233
3210TR14	233
3210TR15	233
3210TR16	233
3210TR18	233
3210TR4	233
3210TR6	233
3210TR8	233
3230LLM1016-G	213
3230LLM1218-G	213
3230LLM161510-G	213
3230LLM181512-G	213
3230LLM221514-G	213
3230LLM221515-G	213
3230LLM241516-G	213
3230LLM261518-G	213
3230LLM814-G	213
3230TRM1016	233
3230TRM1218	233
3230TRM161510	233
3230TRM181512	233
3230TRM221514	233
3230TRM221515	233
3230TRM241516	233
3230TRM261518	233
3230TRM814	233
3240LL10-G	213
3240LL12-G	213
3240LL14-G	213
3240LL15-G	213
3240LL16-G	213
3240LL18-G	213
3240LL4-G	213
3240LL6-G	213
3240LL8-G	213
3240TR10	233
3240TR12	233
3240TR14	233
3240TR15	233
3240TR16	233
3240TR18	233
3240TR4	233
3240TR6	233
3240TR8	233
3245LL10-G	214
3245LL12-G	214
3245LL14-G	214
3245LL15-G	214
3245LL16-G	214
3245LL18-G	214
3245LL4-G	214
3245LL6-G	214
3245LL8-G	214
3250TR10	234
3250TR12	234
3250TR14	234
3250TR15	234
3250TR16	234
3250TR4	234
3250TR6	234
3250TR8	234
3400TR1210	218
3400TR1212	218
3400TR1214	218
3400TR1216	218
3400TR1218	218
3400TR122	218
3400TR1220	218
3400TR1222	218
3400TR128	218
3400TR1410	218
3400TR1412	218
3400TR1414	218
3400TR144	218
3400TR146	218
3400TR148	218
3400TR1810	218
3400TR184	218
3400TR186	218
3400TR188	218
3400TR3416	218
3400TR3418	218
3400TR3420	218
3400TR3422	218
3400TR3810	218
3400TR3812	218
3400TR3814	218
3400TR386	218
3400TR388	218
3422TR1214	219
3422TR1216	219
3422TR1218	219
3422TR122	219
3422TR128	219
3422TR1410	219

3422TR1412	219	3442TR1218	220	3468TRM1014	717	3500TR18	222
3422TR146	219	3442TR122	220	3468TRM1214	717	3500TR20	222
3422TR148	219	3442TR128	220	3468TRM1614	717	3500TR22	222
3422TR184	219	3442TR1410	220	3468TRM1638	717	3500TR28	222
3422TR186	219	3442TR144	220	3468TRM2012	717	3500TR4	222
3422TR188	219	3442TR146	220	3468TRM2038	717	3500TR6	222
3422TR3418	219	3442TR148	220	3468TRM2212	717	3500TR8	222
3422TR3422	219	3442TR184	220	3468TRM2412	717	3510TR10	223
3422TR3810	219	3442TR186	220	3468TRM2458	717	3510TR12	223
3422TR3814	219	3442TR188	220	3468TRM3034	717	3510TR14	223
3422TR3816	219	3442TR3418	220	3470TR1	717	3510TR16	223
3422TR388	219	3442TR3422	220	3470TR12	717	3510TR18	223
3430TR1210	219	3442TR3810	220	3470TR14	717	3510TR20	223
3430TR1214	219	3442TR3814	220	3470TR34	717	3510TR22	223
3430TR1216	219	3442TR388	220	3470TR38	717	3510TR28	223
3430TR1218	219	3460TR1214	221	3471TR1	718	3510TR4	223
3430TR1410	219	3460TR1215	221	3471TR12	718	3510TR6	223
3430TR144	219	3460TR1216	221	3471TR14	718	3510TR8	223
3430TR146	219	3460TR1410	221	3471TR34	718	3520TR10	223
3430TR148	219	3460TR146	221	3471TR38	718	3520TR12	223
3430TR184	219	3460TR148	221	3472TR1	718	3520TR14	223
3430TR186	219	3460TR184	221	3472TR12	718	3520TR16	223
3430TR188	219	3460TR185	221	3472TR14	718	3520TR18	223
3430TR3418	219	3460TR186	221	3472TR34	718	3520TR20	223
3430TR3422	219	3460TR188	221	3472TR38	718	3520TR22	223
3430TR3810	219	3460TR3810	221	3474TR1	718	3520TR6	223
3430TR3814	219	3460TR3812	221	3474TR12	718	3520TR8	223
3430TR388	219	3460TR3814	221	3474TR14	718	3530TR10	223
3440TR1210	220	3460TR3815	221	3474TR34	718	3530TR12	223
3440TR1212	220	3460TR3816	221	3474TR38	718	3530TR14	223
3440TR1214	220	3465TR1214	221	3480TR10	222	3530TR16	223
3440TR1216	220	3465TR1218	221	3480TR12	222	3530TR18	223
3440TR1218	220	3465TR122	221	3480TR14	222	3530TR20	223
3440TR122	220	3465TR128	221	3480TR16	222	3530TR22	223
3440TR128	220	3465TR1410	221	3480TR18	222	3530TR28	223
3440TR1410	220	3465TR144	221	3480TR20	222	3530TR4	223
3440TR1412	220	3465TR146	221	3480TR22	222	3530TR6	223
3440TR144	220	3465TR148	221	3480TR28	222	3530TR8	223
3440TR146	220	3465TR184	221	3480TR4	222	3540TR10	224
3440TR148	220	3465TR186	221	3480TR6	222	3540TR12	224
3440TR184	220	3465TR188	221	3480TR8	222	3540TR14	224
3440TR186	220	3465TR3418	221	3490TR10	222	3540TR16	224
3440TR188	220	3465TR3422	221	3490TR12	222	3540TR18	224
3440TR3416	220	3465TR3810	221	3490TR14	222	3540TR20	224
3440TR3418	220	3465TR3814	221	3490TR18	222	3540TR22	224
3440TR3420	220	3467TR1212	717	3490TR22	222	3540TR28	224
3440TR3422	220	3467TR1258	717	3490TR28	222	3540TR4	224
3440TR3810	220	3467TR1414	717	3490TR4	222	3540TR6	224
3440TR3812	220	3467TR1438	717	3490TR6	222	3540TR8	224
3440TR3814	220	3467TR1814	717	3490TR8	222	3552TR107	224
3440TR3816	220	3467TR3434	717	3500TR10	222	3552TR108	224
3440TR388	220	3467TR3458	717	3500TR12	222	3552TR1210	224
3442TR1210	220	3467TR3812	717	3500TR14	222	3552TR128	224
3442TR1214	220	3467TR3838	717	3500TR16	222	3552TR64	224

3552TR855	224
3552TR86	224
3560TR1210	224
3560TR1212	224
3560TR1214	224
3560TR1216	224
3560TR1218	224
3560TR1410	224
3560TR1412	224
3560TR146	224
3560TR148	224
3560TR186	224
3560TR188	224
3560TR3418	224
3560TR3422	224
3560TR3810	224
3560TR3812	224
3560TR3814	224
3560TR388	224
3572TR1210	225
3572TR1214	225
3572TR1218	225
3572TR122	225
3572TR128	225
3572TR1410	225
3572TR146	225
3572TR148	225
3572TR184	225
3572TR186	225
3572TR188	225
3572TR3418	225
3572TR3422	225
3572TR3810	225
3572TR3814	225
3700TRL1212	238
3700TRL1215	238
3700TRL1410	238
3700TRL1412	238
3700TRL148	238
3700TRL186	238
3700TRL3812	238
3700TRL3815	238
3700TRLL184	238
3700TRLL188	238
3720TRL1210	238
3720TRL1212	238
3720TRL1215	238
3720TRL126	238
3720TRL128	238
3720TRL1410	238
3720TRL1412	238
3720TRL146	238
3720TRL148	238
3720TRL186	238
3720TRL188	238
3720TRL3412	238
3720TRL3415	238
3720TRL3810	238
3720TRL3812	238
3720TRL3815	238
3720TRL386	238
3720TRL388	238
3720TRS1216	238
3720TRS3416	238
3720TRS3816	238
3730TRL1210	239
3730TRL1212	239
3730TRL1215	239
3730TRL128	239
3730TRL1410	239
3730TRL148	239
3730TRL186	239
3730TRL3810	239
3730TRL3812	239
3730TRL388	239
3730TRS1216	239
3730TRS146	239
3740TRL1215	239
3740TRL1410	239
3740TRL148	239
3740TRL186	239
3740TRL3812	239
3740TRLL184	239
3740TRLL188	239
3740TRS1216	239
3740TRS146	239
3740TRS3810	239
3780TRL10	239
3780TRL12	239
3780TRL15	239
3780TRL6	239
3780TRL8	239
3780TRLL4	239
3780TRS16	239
3790TRL10	240
3790TRL12	240
3790TRL15	240
3790TRL6	240
3790TRL8	240
3800TRL10	240
3800TRL12	240
3800TRL15	240
3800TRL6	240
3800TRL8	240
3800TRLL4	240
3800TRS16	240
3810TRL10	240
3810TRL12	240
3810TRL15	240
3810TRL6	240
3810TRL8	240
3810TRLL4	240
3810TRS16	240
3830TRL10	241
3830TRL12	241
3830TRL15	241
3830TRL6	241
3830TRL8	241
3830TRLL4	241
3830TRS16	241
3840TRL10	241
3840TRL12	241
3840TRL15	241
3840TRL6	241
3840TRL8	241
3840TRLL4	241
3840TRS16	241
40AC100L-R02	400
40AC100L-R03	400
40AC100V-R02	400
40AC100V-R03	400
40AC101L-R02	401
40AC101L-R03	401
40AC101V-R02	401
40AC101V-R03	401
40AC110L-107	400
40AC110L-76	400
40AC110L-91	400
40AC110V-107	400
40AC110V-76	400
40AC110V-91	400
40AC111L-107	402
40AC111L-76	402
40AC111L-91	402
40AC111V-107	402
40AC111V-76	402
40AC111V-91	402
40AC120L-107	401
40AC120L-76	401
40AC120L-91	401
40AC120V-107	401
40AC120V-76	401
40AC120V-91	401
40AC121L-107	402
40AC121L-76	402
40AC121L-91	402
40AC121V-107	402
40AC121V-76	402
40AC121V-91	402
40AC131L-107	403
40AC131L-76	403
40AC131V-107	403
40AC131V-76	403
4100TR12	353
4100TR14	353
4100TR18	353
4100TR38	353
4150TR12122	354
4150TR12123	354
4150TR12124	354
4150TR12125	354
4150TR12126	354
4150TR12382	354
4150TR12383	354
4150TR12384	354
4150TR12385	354
4150TR12386	354
4150TR14182	353
4150TR14183	353
4150TR14184	353
4150TR14185	353
4150TR14186	353
4150TR18M52	353
4150TR18M53	353
4150TR18M54	353
4150TR18M55	353
4150TR18M56	353
4150TR38142	354
4150TR38143	354
4150TR38144	354
4150TR38145	354
4150TR38146	354
4150TRX1123410	356
4150TRX1123411	356
4150TRX1123412	356
4150TRX1123413	356
4150TRX1123414	356
4150TRX112344	356
4150TRX112345	356
4150TRX112346	356
4150TRX112347	356
4150TRX112348	356
4150TRX112349	356
4150TRX23410	356
4150TRX23411	356
4150TRX23412	356
4150TRX23413	356
4150TRX23414	356
4150TRX2344	356
4150TRX2345	356
4150TRX2346	356
4150TRX2347	356
4150TRX2348	356
4150TRX2349	356
4200TR121222	354
4200TR121233	354

4200TR121244	354	5007TR1814	269	5015TR3438	270	5022TR3458	270
4200TR121255	354	5007TR18516	269	5015TR3458	270	5022TR3812	270
4200TR121266	354	5007TR3812	269	5015TR38	270	5022TR3814	270
4200TR123822	354	5007TR3814	269	5015TR3812	270	5022TR3838	270
4200TR123833	354	5007TR3838	269	5015TR3814	270	5022TR38516	270
4200TR123844	354	5007TR38516	269	5015TR38516	270	5025TR1210	266
4200TR123855	354	5010TR119	264	5020TR1210	265	5025TR1212	266
4200TR123866	354	5010TR1210	264	5020TR1212	265	5025TR1214	266
4200TR141822	354	5010TR1212	264	5020TR1214	265	5025TR1216	266
4200TR141833	354	5010TR1214	264	5020TR1216	265	5025TR1219	266
4200TR141844	354	5010TR1216	264	5020TR1219	265	5025TR126	266
4200TR141855	354	5010TR1219	264	5020TR125	265	5025TR128	266
4200TR141866	354	5010TR125	264	5020TR126	265	5025TR1410	266
4200TR18M522	354	5010TR126	264	5020TR128	265	5025TR1412	266
4200TR18M533	354	5010TR128	264	5020TR1410	265	5025TR144	266
4200TR18M544	354	5010TR1410	264	5020TR1412	265	5025TR145	266
4200TR18M555	354	5010TR1412	264	5020TR144	265	5025TR146	266
4200TR18M566	354	5010TR144	264	5020TR145	265	5025TR148	266
4200TR381422	354	5010TR145	264	5020TR146	265	5025TR184	266
4200TR381433	354	5010TR146	264	5020TR148	265	5025TR185	266
4200TR381444	354	5010TR148	264	5020TR184	265	5025TR186	266
4200TR381455	354	5010TR184	264	5020TR185	265	5025TR188	266
4200TR381466	354	5010TR185	264	5020TR186	265	5025TR3410	266
5005TR1210	264	5010TR186	264	5020TR188	265	5025TR3412	266
5005TR1212	264	5010TR188	264	5020TR3410	265	5025TR3414	266
5005TR1214	264	5010TR3410	264	5020TR3412	265	5025TR3416	266
5005TR1216	264	5010TR3412	264	5020TR3414	265	5025TR3419	266
5005TR1219	264	5010TR3414	264	5020TR3416	265	5025TR3810	266
5005TR125	264	5010TR3416	264	5020TR3419	265	5025TR3812	266
5005TR126	264	5010TR3419	264	5020TR3810	265	5025TR3814	266
5005TR128	264	5010TR346	264	5020TR3812	265	5025TR386	266
5005TR1410	264	5010TR348	264	5020TR3814	265	5025TR388	266
5005TR1412	264	5010TR3810	264	5020TR386	265	5027TR1212	271
5005TR145	264	5010TR3812	264	5020TR388	265	5027TR1214	271
5005TR146	264	5010TR3814	264	5022TR1212	270	5027TR12316	271
5005TR185	264	5010TR386	264	5022TR1214	270	5027TR1234	271
5005TR186	264	5010TR388	264	5022TR12316	270	5027TR1238	271
5005TR188	264	5015TR12	270	5022TR1234	270	5027TR12516	271
5005TR3810	264	5015TR1214	270	5022TR1238	270	5027TR1258	271
5005TR3812	264	5015TR1234	270	5022TR12516	270	5027TR1412	271
5005TR3814	264	5015TR1238	270	5022TR1258	270	5027TR1414	271
5005TR385	264	5015TR12516	270	5022TR1412	270	5027TR14316	271
5005TR386	264	5015TR1258	270	5022TR1414	270	5027TR1438	271
5005TR388	264	5015TR14	270	5022TR14316	270	5027TR14516	271
5007TR1212	269	5015TR1412	270	5022TR1438	270	5027TR14532	271
5007TR1214	269	5015TR14316	270	5022TR14516	270	5027TR1814	271
5007TR1234	269	5015TR1438	270	5022TR14532	270	5027TR18316	271
5007TR1238	269	5015TR14516	270	5022TR1814	270	5027TR18516	271
5007TR12516	269	5015TR1814	270	5022TR18316	270	5027TR18532	271
5007TR1258	269	5015TR18316	270	5022TR18516	270	5027TR3412	271
5007TR1412	269	5015TR18516	270	5022TR18532	270	5027TR3434	271
5007TR1414	269	5015TR18532	270	5022TR3412	270	5027TR3438	271
5007TR1438	269	5015TR34	270	5022TR3434	270	5027TR3458	271
5007TR14516	269	5015TR3412	270	5022TR3438	270	5027TR3812	271

5027TR3814	271
5027TR3838	271
5027TR38516	271
5030PE4	259
5030PE6	259
5030PE8	259
5030TR10	266
5030TR12	266
5030TR14	266
5030TR16	266
5030TR19	266
5030TR4	266
5030TR5	266
5030TR6	266
5030TR8	266
5032TR12	271
5032TR12	272
5032TR14	271
5032TR14	272
5032TR316	271
5032TR316	272
5032TR34	271
5032TR34	272
5032TR38	271
5032TR38	272
5032TR516	271
5032TR516	272
5032TR532	271
5032TR532	272
5032TR58	271
5032TR58	272
5035TR106	267
5035TR108	267
5035TR1210	267
5035TR1412	267
5035TR1614	267
5035TR1916	267
5035TR54	267
5035TR64	267
5035TR65	267
5035TR86	267
5037TR1238	272
5037TR14316	272
5037TR316532	272
5037TR3458	272
5037TR3814	272
5037TR38516	272
5037TR51614	272
5040PE4	260
5040PE6	260
5040PE8	260
5040TR10	267
5040TR12	267
5040TR14	267
5040TR16	267
5040TR19	267
5040TR4	267
5040TR5	267
5040TR6	267
5040TR8	267
5045TR106	267
5045TR108	267
5045TR1210	267
5045TR128	267
5045TR1410	267
5045TR1412	267
5045TR1612	267
5045TR1614	267
5045TR1914	267
5045TR1916	267
5045TR54	267
5045TR64	267
5045TR65	267
5045TR85	267
5045TR86	267
5047TR1238	272
5047TR12516	272
5047TR14316	272
5047TR14532	272
5047TR316532	272
5047TR3458	272
5047TR3814	272
5047TR38516	272
5047TR51614	272
5047TR516316	272
5047TR5812	272
5050PE4	260
5050PE6	260
5050PE8	260
5050TR10	268
5050TR12	268
5050TR14	268
5050TR16	268
5050TR19	268
5050TR4	268
5050TR5	268
5050TR6	268
5050TR8	268
5052TR12	273
5052TR14	273
5052TR316	273
5052TR34	273
5052TR38	273
5052TR516	273
5052TR532	273
5052TR58	273
5055TR108	268
5055TR1210	268
5055TR1412	268
5055TR1614	268
5055TR1916	268
5055TR54	268
5055TR65	268
5055TR86	268
5057TR1238	273
5057TR14316	273
5057TR316532	273
5057TR3458	273
5057TR38516	273
5057TR51614	273
5060PE4	260
5060PE6	260
5060PE8	260
5060TR10	268
5060TR17	268
5060TR4	268
5060TR6	268
5060TR8	268
5062TR14	273
5062TR38	273
5062TR516	273
5062TR532	273
5070TR1210	269
5070TR1212	269
5070TR1214	269
5070TR126	269
5070TR128	269
5070TR144	269
5070TR145	269
5070TR146	269
5070TR148	269
5070TR184	269
5070TR185	269
5070TR3410	269
5070TR3412	269
5070TR3414	269
5070TR3416	269
5070TR3419	269
5070TR348	269
5070TR3810	269
5070TR385	269
5070TR386	269
5070TR388	269
5090TR1012	291
5090TR1113	291
5090TR1315	291
5090TR1416	291
5090TR1517	291
5090TR1618	291
5090TR1719	291
5090TR1820	291
5090TR2022	291
5090TR2123	291
5090TR2325	291
5090TR2628	291
5090TR3032	291
5090TR3537	291
5090TR4446	291
5090TR4749	291
5090TR810	291
5510TR120	248
5510TR1212	248
5510TR1216	248
5510TR1220	248
5510TR1225	248
5510TR125	248
5510TR1412	248
5510TR1416	248
5510TR1812	248
5510TR3412	248
5510TR3416	248
5510TR3420	248
5510TR3425	248
5510TR3812	248
5520TR1212	248
5520TR1216	248
5520TR1220	248
5520TR1225	248
5520TR1412	248
5520TR3412	248
5520TR3416	248
5520TR3420	248
5520TR3425	248
5520TR3812	248
5520TR3816	248
5530TR1212	248
5530TR1216	248
5530TR1220	248
5530TR1225	248
5530TR1412	248
5530TR3412	248
5530TR3416	248
5530TR3420	248
5530TR3425	248
5530TR3812	248
5530TR3816	248
5540TR12	249
5540TR16	249
5540TR20	249
5540TR25	249
5545TR1612	249
5545TR2012	249
5545TR2016	249
5545TR2520	249
5550TR12	249
5550TR16	249

5550TR20	249
5550TR25	249
5555TR1612	249
5555TR2012	249
5555TR2016	249
5555TR2520	249
5560TR12	250
5560TR16	250
5560TR20	250
5560TR25	250
5570TR112	250
5570TR114	250
5570TR116	250
5570TR119	250
5570TR1212	250
5570TR18	250
5570TR3410	250
5570TR3412	250
5570TR3414	250
5570TR3416	250
5570TR3419	250
5570TR346	250
5570TR348	250
5570TR3810	250
5580TR1	250
5580TR12	250
5580TR34	250
5580TR38	250
5905TR1210	278
5905TR1212	278
5905TR1214	278
5905TR1216	278
5905TR1219	278
5905TR125	278
5905TR126	278
5905TR128	278
5905TR1410	278
5905TR1412	278
5905TR145	278
5905TR146	278
5905TR148	278
5905TR185	278
5905TR186	278
5905TR188	278
5905TR3810	278
5905TR3812	278
5905TR3814	278
5905TR385	278
5905TR386	278
5905TR388	278
5910TR119	279
5910TR1210	279
5910TR1212	279
5910TR1214	279
5910TR1216	279
5910TR1219	279
5910TR125	279
5910TR126	279
5910TR128	279
5910TR1410	279
5910TR1412	279
5910TR144	279
5910TR145	279
5910TR146	279
5910TR148	279
5910TR184	279
5910TR185	279
5910TR186	279
5910TR188	279
5910TR3410	279
5910TR3412	279
5910TR3414	279
5910TR3416	279
5910TR3419	279
5910TR3425	279
5910TR346	279
5910TR348	279
5910TR3810	279
5910TR3812	279
5910TR3814	279
5910TR386	279
5910TR388	279
5920TR1210	279
5920TR1212	279
5920TR1214	279
5920TR1216	279
5920TR1219	279
5920TR125	279
5920TR126	279
5920TR128	279
5920TR1410	279
5920TR1412	279
5920TR144	279
5920TR145	279
5920TR146	279
5920TR148	279
5920TR184	279
5920TR185	279
5920TR186	279
5920TR188	279
5920TR3410	279
5920TR3412	279
5920TR3414	279
5920TR3416	279
5920TR3419	279
5920TR3810	279
5920TR3812	279
5920TR3814	279
5920TR386	279
5920TR388	279
5925TR1210	280
5925TR1212	280
5925TR1214	280
5925TR1216	280
5925TR1219	280
5925TR126	280
5925TR128	280
5925TR1410	280
5925TR1412	280
5925TR144	280
5925TR145	280
5925TR146	280
5925TR148	280
5925TR184	280
5925TR185	280
5925TR186	280
5925TR188	280
5925TR3410	280
5925TR3412	280
5925TR3414	280
5925TR3416	280
5925TR3419	280
5925TR3810	280
5925TR3812	280
5925TR3814	280
5925TR386	280
5925TR388	280
5930TR10	281
5930TR12	281
5930TR14	281
5930TR16	281
5930TR19	281
5930TR4	281
5930TR5	281
5930TR6	281
5930TR8	281
5935TR106	281
5935TR108	281
5935TR1210	281
5935TR1412	281
5935TR1614	281
5935TR1916	281
5935TR54	281
5935TR64	281
5935TR65	281
5935TR86	281
5940TR10	281
5940TR12	281
5940TR14	281
5940TR16	281
5940TR19	281
5940TR4	281
5940TR5	281
5940TR6	281
5940TR8	281
5945TR106	282
5945TR108	282
5945TR1210	282
5945TR128	282
5945TR1410	282
5945TR1412	282
5945TR1612	282
5945TR1614	282
5945TR1914	282
5945TR1916	282
5945TR54	282
5945TR64	282
5945TR65	282
5945TR85	282
5945TR86	282
5950TR10	282
5950TR12	282
5950TR14	282
5950TR16	282
5950TR19	282
5950TR4	282
5950TR5	282
5950TR6	282
5950TR8	282
5955TR108	282
5955TR1210	282
5955TR1412	282
5955TR1614	282
5955TR1916	282
5955TR54	282
5955TR65	282
5955TR86	282
5960TR10	283
5960TR17	283
5960TR4	283
5960TR6	283
5960TR8	283
5970TR1210	283
5970TR1212	283
5970TR1214	283
5970TR126	283
5970TR128	283
5970TR144	283
5970TR145	283
5970TR146	283
5970TR148	283
5970TR184	283
5970TR185	283
5970TR3410	283
5970TR3412	283
5970TR3414	283

5970TR3416	283
5970TR3419	283
5970TR348	283
5970TR3810	283
5970TR385	283
5970TR386	283
5970TR388	283
6100TR1	359
6100TR12	359
6100TR14	359
6100TR18	359
6100TR34	359
6100TR38	359
6100TRM5	359
6150TR1	359
6150TR12	359
6150TR14	359
6150TR18	359
6150TR34	359
6150TR38	359
6200TR1	360
6200TR12	360
6200TR14	360
6200TR18	360
6200TR34	360
6200TR38	360
6200TRM5	360
6250TR1	360
6250TR12	360
6250TR14	360
6250TR18	360
6250TR34	360
6250TR38	360
6300TR1	360
6300TR12	360
6300TR14	360
6300TR18	360
6300TR34	360
6300TR38	360
6300TRM5	360
6350TR1	360
6350TR12	360
6350TR14	360
6350TR18	360
6350TR34	360
6350TR38	360
6400TR1	361
6400TR12	361
6400TR14	361
6400TR18	361
6400TR34	361
6400TR38	361
6450TR1	361
6450TR12	361
6450TR14	361
6450TR18	361
6450TR34	361
6450TR38	361
6450TRM5	361
6500TR1	361
6500TR12	361
6500TR14	361
6500TR18	361
6500TR34	361
6500TR38	361
6550TR1	361
6550TR12	361
6550TR14	361
6550TR18	361
6550TR34	361
6550TR38	361
6600TR1	362
6600TR12	362
6600TR14	362
6600TR18	362
6600TR34	362
6600TR38	362
6650TR12	362
6650TR14	362
6650TR18	362
6650TR38	362
6670TR1	362
6670TR12	362
6670TR14	362
6670TR18	362
6670TR34	362
6670TR38	362
6700TR1	362
6700TR12	362
6700TR14	362
6700TR18	362
6700TR34	362
6700TR38	362
6750TR12	365
6750TR14	365
6750TR18	365
6750TR38	365
6780TR1	365
6780TR12	365
6780TR14	365
6780TR18	365
6780TR34	365
6780TR38	365
6780TRM5	365
6820TR12	365
6820TR14	365
6820TR18	365
6820TR38	365
6850TR1	365
6850TR12	365
6850TR14	365
6850TR18	365
6850TR34	365
6850TR38	365
6880TR1	366
6880TR12	366
6880TR14	366
6880TR18	366
6880TR34	366
6880TR38	366
6882TR1	366
6882TR12	366
6882TR14	366
6882TR18	366
6882TR34	366
6882TR38	366
8001TR14	395
8006TR14	395
8007TR14	396
8008TR10	396
8008TR12	396
8008TR5	396
8008TR6	396
8008TR8	396
8060MM02	421
8060MM03	421
8060MM04	421
8070FM02	421
8070FM03	421
8070FM04	421
8080RE06	422
8080RE08	422
8080RE10	422
8080RE12	422
8085PO10145	422
8085PO1017	422
8085PO1019	422
8085PO610	422
8085PO612	422
8085PO614	422
8085PO812	422
8085PO814	422
8085PO817	422
8090MO1012	422
8090MO46	422
8090MO58	422
8090MO6510	422
8090MO68	422
8090MO810	422
8090MO812	422
8110FM01	409
8110FM02	409
8120FF01	409
8120FF02	409
8130RE06	409
8130RE08	409
8140CA46	410
8140CA68	410
8140CA810	410
8150MO46	410
8150MO68	410
8150MO810	410
8155BU46	410
8155BU68	410
8160MM01	410
8160MM02	410
8170FM01	410
8170FM02	410
8180RE06	411
8180RE08	411
8190CA46	411
8190CA68	411
8190CA810	411
8195MO46	411
8195MO68	411
8195MO810	411
8210FM01	435
8210FM02	435
8210FM03	435
8210FM04	435
8215FM03	441
8215FM04	441
8220FF02	435
8220FF03	435
8220FF04	435
8225FF03	441
8225FF04	441
8230PO1017	437
8230PO1019	437
8230PO610	437
8230PO612	437
8230PO613	437
8230PO614	437
8230PO716	437
8230PO812	437
8230PO813	437
8230PO815	437
8230PO817	437
8235PO1019	442
8235PO1021	442
8235PO1023	442
8235PO1319	442
8235PO1320	442
8235PO1321	442
8235PO1323	442
8235PO1325	442

8240PO1017	436
8240PO1019	436
8240PO610	436
8240PO612	436
8240PO613	436
8240PO614	436
8240PO716	436
8240PO812	436
8240PO813	436
8240PO815	436
8240PO817	436
8245PO1019	442
8245PO1021	442
8245PO1023	442
8245PO1319	442
8245PO1320	442
8245PO1321	442
8245PO1323	442
8245PO1324	442
8245PO1325	442
8250MO1012	436
8250MO46	436
8250MO58	436
8250MO6510	436
8250MO68	436
8250MO810	436
8255MM03	442
8255MM04	442
8260MM01	436
8260MM02	436
8260MM03	436
8260MM04	436
8270FM01	436
8270FM02	436
8270FM03	436
8270FM04	436
8285BM55	437
8295MO1012	437
8295MO46	437
8295MO58	437
8295MO6510	437
8295MO68	437
8295MO810	437
8295MO812	437
8310FM02	429
8310FM03	429
8310FM04	429
8320FF02	429
8320FF03	429
8320FF04	429
8330RE06	430
8330RE07	430
8330RE08	430
8330RE09	430
8330RE10	430
8330RE12	430
8330RE13	430
8340PO1019	431
8340PO610	431
8340PO612	431
8340PO614	431
8340PO817	431
8350MO1012	430
8350MO46	430
8350MO58	430
8350MO6510	430
8350MO68	430
8350MO810	430
8360MM02	430
8360MM03	430
8360MM04	430
8370FM02	431
8370FM03	431
8370FM04	431
8380RE06	431
8380RE07	431
8380RE08	431
8380RE09	431
8380RE10	431
8380RE12	431
8380RE13	431
8390PO1019	430
8390PO610	430
8390PO612	430
8390PO614	430
8390PO812	430
8390PO817	430
8395MO1012	431
8395MO46	431
8395MO58	431
8395MO6510	431
8395MO68	431
8395MO810	431
8410FM02	416
8410FM02LU	417
8410FM03	416
8410FM03LU	417
8410FM04	416
8410FM04LU	417
8420FF02	416
8420FF02LU	417
8420FF03	416
8420FF03LU	417
8420FF04	416
8430RE06	416
8430RE08	416
8430RE10	416
8430RE12	416
8440PO10145	416
8440PO1017	416
8440PO1019	416
8440PO610	416
8440PO612	416
8440PO614	416
8440PO812	416
8440PO814	416
8440PO817	416
8450MO1012	417
8450MO58	417
8450MO6510	417
8450MO68	417
8450MO810	417
8450MO812	417
8460MM02	425
8460MM03	425
8460MM04	425
8470FM02	425
8470FM03	425
8470FM04	425
8480RE06	426
8480RE08	426
8480RE10	426
8480RE12	426
8485PO10145	426
8485PO1017	426
8485PO1019	426
8485PO610	426
8485PO612	426
8485PO614	426
8485PO812	426
8485PO814	426
8485PO817	426
8490MO1012	426
8490MO46	426
8490MO58	426
8490MO6510	426
8490MO68	426
8490MO810	426
8490MO812	426
8910FM02	446
8910FM03	446
8910FM04	446
8920FF02	446
8920FF03	446
8930RE06	446
8930RE08	446
8930RE10	446
8960MM02	446
8960MM03	446
8960MM04	446
8970FM02	447
8970FM03	447
8980RE06	447
8980RE08	447
8980RE10	447
9020TR14	141
9030TR14	142
9030TR18	142
9031TR8	142
9110TR12	593
9110TR12-F	594
9110TR14	593
9110TR14-F	594
9110TR18	593
9110TR18-F	594
9110TR34	593
9110TR38	593
9110TR38-F	594
9120TR12	593
9120TR12-F	594
9120TR14	593
9120TR14-F	594
9120TR18	593
9120TR18-F	594
9120TR34	593
9120TR38	593
9120TR38-F	594
9130TR12	593
9130TR14	593
9130TR38	593
9142TR12	595
9142TR14	595
9142TR18	595
9142TR38	595
9162TR12	595
9162TR14	595
9162TR18	595
9162TR38	595
9168TR148	596
9168TR186	596
9170TR1	623
9170TR12	623
9170TR14	623
9170TR34	623
9170TR38	623
9180TR1	623
9180TR12	623
9180TR14	623
9180TR34	623
9180TR38	623
9203TR1	598
9203TR112	598
9203TR114	598
9203TR12	598
9203TR2	598
9203TR34	598

9203TR38	598
9204TR1	598
9204TR112	598
9204TR114	598
9204TR12	598
9204TR2	598
9204TR34	598
9208TR1	600
9208TR112	600
9208TR114	600
9208TR12	600
9208TR2	600
9208TR34	600
9208TR38	600
9210TR1	606
9210TR112	606
9210TR114	606
9210TR12	606
9210TR14	606
9210TR2	606
9210TR212	606
9210TR3	606
9210TR34	606
9210TR38	606
9210TR4	606
9210TRH1	610
9210TRH112	610
9210TRH114	610
9210TRH12	610
9210TRH2	610
9210TRH34	610
9210TRH38	610
9210TRHS1	612
9210TRHS112	612
9210TRHS114	612
9210TRHS12	612
9210TRHS2	612
9210TRHS34	612
9210TRHS38	612
9212TR1	602
9212TR112	602
9212TR114	602
9212TR12	602
9212TR14	602
9212TR2	602
9212TR212	602
9212TR3	602
9212TR34	602
9212TR38	602
9212TR4	602
9214TR1	604
9214TR112	604
9214TR114	604
9214TR12	604
9214TR14	604
9214TR2	604
9214TR212	604
9214TR3	604
9214TR34	604
9214TR38	604
9214TR4	604
9220TR1	606
9220TR112	606
9220TR114	606
9220TR12	606
9220TR14	606
9220TR2	606
9220TR34	606
9220TR38	606
9230TR1	607
9230TR112	607
9230TR114	607
9230TR12	607
9230TR14	607
9230TR2	607
9230TR34	607
9230TR38	607
9240TR1	606
9240TR12	606
9240TR14	606
9240TR34	606
9240TR38	606
9250TR1	606
9250TR12	606
9250TR14	606
9250TR34	606
9250TR38	606
9260TR1	607
9260TR12	607
9260TR14	607
9260TR34	607
9260TR38	607
9270TR1	614
9270TR112	614
9270TR114	614
9270TR12	614
9270TR14	614
9270TR2	614
9270TR34	614
9270TR38	614
9280TR1	614
9280TR112	614
9280TR114	614
9280TR12	614
9280TR14	614
9280TR2	614
9280TR34	614
9280TR38	614
9285TR1	615
9285TR12	615
9285TR34	615
9285TR38	615
9320TR1	626
9320TR112	626
9320TR114	626
9320TR12	626
9320TR14	626
9320TR2	626
9320TR212	626
9320TR3	626
9320TR34	626
9320TR38	626
9320TR4	626
9325TR1	628
9325TR112	628
9325TR114	628
9325TR12	628
9325TR14	628
9325TR2	628
9325TR212	628
9325TR3	628
9325TR34	628
9325TR38	628
9325TR4	628
9340TR1	630
9340TR112	630
9340TR114	630
9340TR12	630
9340TR14	630
9340TR2	630
9340TR34	630
9340TR38	630
9342TR1	630
9342TR112	630
9342TR114	630
9342TR12	630
9342TR14	630
9342TR2	630
9342TR34	630
9342TR38	630
9350TR1	632
9350TR112	632
9350TR114	632
9350TR2	632
9350TR212	632
9350TR3	632
9350TR4	632
9400TR1	633
9400TR112	633
9400TR114	633
9400TR12	633
9400TR14	633
9400TR2	633
9400TR34	633
9400TR38	633
9611TR12	616
9611TR14	616
9611TR18	616
9611TR38	616
9613TR12	619
9613TR14	619
9613TR38	619
9614TR12	619
9614TR14	619
9614TR38	619
9615TR12	620
9615TR14	620
9615TR38	620
ACD-100E	476
ACD-100E-10	476
ACD-100E-10-L	476
ACD-100E-10X	476
ACD-100E-12X	476
ACD-100E-L	476
ACD-100E-X	476
ACD-100H	476
ACD-100H-L	476
ACD-100H-X	476
ACD-100H-X-316	476
ACD-100M	476
ACD-100M-L	476
ACD-100M-X	476
ACD-12E6	457
ACD-12E6-X	457
ACD-12E8	457
ACD-12E8-X	457
ACD-12H	457
ACD-12H1	457
ACD-12H1-X	457
ACD-12H-X	457
ACD-12M	456
ACD-12M1	456
ACD-12M1-X	456
ACD-12M-X	456
ACD-150E-L	481
ACD-150E-X	481
ACD-150E-X-316	481
ACD-150H-L	480
ACD-150H-L-P	480
ACD-150H-X	480
ACD-150H-X-316	480
ACD-150H-X-316-P	480
ACD-150H-X-P	480
ACD-150M-L	480
ACD-150M-L-P	480
ACD-150M-X	480

ACD-150M-X-316	480
ACD-150M-X-316-P	480
ACD-150M-X-P	480
ACD-25E	468
ACD-25E-10	468
ACD-25E-L	468
ACD-25E-X	468
ACD-25H	468
ACD-25H-3/8	468
ACD-25H-L	468
ACD-25H-X	468
ACD-25M	468
ACD-25M-3/8	468
ACD-25M-3/8-X	468
ACD-25M-L	468
ACD-25M-X	468
ACD-25-PM08	468
ACD-25-PM10	468
ACD-50E	472
ACD-50E-L	472
ACD-50E-X	472
ACD-50H	472
ACD-50H-L	472
ACD-50H-X	472
ACD-50M	472
ACD-50M-L	472
ACD-50M-X	472
ACLD-100-L	486
ACLD-100-X	486
ACLD-150-L	486
ACLD-150L-P	486
ACLD-150-X	486
ACLD-150X-316	486
ACLD-150X-316-P	486
ACLD-150X-P	486
ACLD-25-L	486
ACLD-25-X	486
ACLD-50-L	486
ACLD-50-X	486
ACRHL12-H12	563
ACRHL12-H12-303	563
ACRHL12-H12-316	563
ACRHL12-H14	563
ACRHL12-H14-303	563
ACRHL12-H38	563
ACRHL12-H38-303	563
ACRHL12-H38-316	563
ACRHL12-M12G	563
ACRHL12-M12G-303	563
ACRHL12-M12G-303C	563
ACRHL12-M12G-316	563
ACRHL12-M12G-316C	563
ACRHL12-M12GC	563
ACRM-55-E8	569
ACRM-55H	569
ACRM-55H1	569
ACRM-55H1-L	569
ACRM-55H-3/8	569
ACRM-55H-L	569
ACRM-55H-X	569
ACRM-55M	568
ACRM-55M1	568
ACRM-55M1-L	568
ACRM-55M-3/8	568
ACRM-55M-L	568
ACRM-55M-X	568
AEU-75E	537
AEU-75E-10	537
AEU-75E-10-316	537
AEU-75E12	537
AEU-75E-12-316	537
AEU-75E-X	537
AEU-75H	537
AEU-75H12	537
AEU-75H12-316	537
AEU-75H-316	537
AEU-75H38	537
AEU-75H38-316	537
AEU-75H-X	537
AEU-75M	536
AEU-75M12	536
AEU-75M12-316	536
AEU-75M-316	536
AEU-75M38	536
AEU-75M38-316	536
AEU-75M-X	536
AEU-75PM08	537
AEU-75PM10	537
AEU-DO75E10	543
AEU-DO75E8	543
AEU-DO75E8-316V	543
AEU-DO75H12	543
AEU-DO75H12-316V	543
AEU-DO75H14	543
AEU-DO75H14-316V	543
AEU-DO75H38	543
AEU-DO75H38-316V	543
AEU-DO75M12	543
AEU-DO75M12-316V	543
AEU-DO75M14	543
AEU-DO75M14-316V	543
AEU-DO75M38	543
AEU-DO75M38-316V	543
AFL-210-E-8	514
AFL-210-H	514
AFL-210-M	514
AFL-210-M-3/8	514
AIRT28-H12-316	558
AL1512-AZ-S	721
AMC-H18-L	518
AMC-M5M08-L	518
AMNDO-E6-316V	530
AMNDO-E6-L	530
AMNDO-E8-316V	530
AMNDO-E8-L	530
AMNDO-H1-316V	529
AMNDO-H1-L	529
AMNDO-H-316V	529
AMNDO-H-L	529
AMNDO-M1-316V	529
AMNDO-M1-L	529
AMNDO-M-316V	529
AMNDO-M3-316V	529
AMNDO-M-L	529
AMNDO-MM6-316V	530
AMNDO-MM6-L	530
AMNDO-MM8-L	530
AMNDO-RR6-L	530
AMNDO-RR6R-L	530
AMNDO-RR8-L	530
AMNDO-RR8R-L	530
AMN-E6-L	524
AMN-E8-L	524
AMN-H1-316	523
AMN-H1-L	523
AMN-H-316	523
AMN-H-L	523
AMN-M1-316	523
AMN-M1-L	523
AMN-M-316	523
AMN-M-L	523
AMN-RR6-L	524
AMN-RR6R-L	524
AMN-RR8-316	524
AMN-RR8-L	524
AMN-RR8R-L	524
AQ-10E7	554
AQ-10M12	553
AQ-10M14	553
AQ-10M38	553
AS1/2	716
AS1/4	716
AS3/4	716
AS3/8	716
AS5/8	716
ASF-B01N	111
ASF-B02N	111
ASF-B03N	111
ASF-B04N	111
ASF-U01N	111
ASF-U02N	111
ASF-U03N	111
ASF-U04N	111
AS-PU1/2	716
AS-PU1/4	716
AS-PU3/4	716
AS-PU3/8	716
AS-PU5/8	716
AZ2219-AZ-S	721
CAF005FG	574
CAF010FG	574
CAF020FG	574
CAF030FG	574
CAS04	96
CAS06	96
CAS08	96
CAS10	96
CAS12	96
CAU0613	704
CAU0815	704
CAU1018	704
CAU1220	704
CAU1525	704
CAU1930	704
CAU2538	704
CB01F010FG	576
CB01F020FG	576
CB01F030FG	576
CC15	721
CC22	721
CD-100	476
CD-100-L	476
CD-100-L-PL	476
CD-100-PL	476
CD-100-X	476
CD-100-X-316	476
CD-100-X-316-PL	476
CD-100-X-PL	476
CD-12E6	456
CD-12E6-PL	456
CD-12E8	456
CD-12E8-PL	456
CD-12E8-X	456
CD-12E8-X-PL	456
CD-12H	456
CD-12H1	456
CD-12H1-PL	456
CD-12H1-X	456
CD-12H1-X-PL	456
CD-12H-PL	456
CD-12H-X	456
CD-12H-X-PL	456
CD-12M	456
CD-12M1	456
CD-12M1-PL	456
CD-12M1-X	456

CD-12M1-X-PL	456
CD-12ME6-X	456
CD-12ME6-X-PL	456
CD-12M-PL	456
CD-12M-X	456
CD-12M-X-PL	456
CD-150-L	480
CD-150-L-P	480
CD-150-L-PL	480
CD-150-L-P-PL	480
CD-150-X	480
CD-150-X-316	480
CD-150-X-316-P	480
CD-150-X-316-P-PL	480
CD-150-X-L-P	480
CD-150-X-P	480
CD-150-X-PL	480
CD-150-X-P-PL	480
CD-25	462
CD-25-3/8	462
CD-25-3/8-PL	462
CD-25-3/8X	462
CD-25-3/8X-PL	462
CD-25-L	462
CD-25-L-PL	462
CD-25N-E10	466
CD-25N-E10-PL	466
CD-25N-E12	466
CD-25N-E12-PL	466
CD-25N-E13	466
CD-25N-E13-PL	466
CD-25N-E6	466
CD-25N-E6-PL	466
CD-25N-E8	466
CD-25N-E8-PL	466
CD-25N-H1/2	466
CD-25N-H1/2-PL	466
CD-25N-H1/4	466
CD-25N-H1/4-PL	466
CD-25N-H3/8	466
CD-25N-H3/8-PL	466
CD-25N-M1/2	466
CD-25N-M1/2G	466
CD-25N-M1/2G-PL	466
CD-25N-M1/2-PL	466
CD-25N-M1/4	466
CD-25N-M1/4-PL	466
CD-25N-M3/8-PL	466
CD-25N-M3/8-PL	466
CD-25N-PM08	466
CD-25N-PM08-PL	466
CD-25N-PM10	466
CD-25N-PM10-PL	466
CD-25-PL	462
CD-25S-E10	467
CD-25S-E12	467
CD-25S-E13	467
CD-25S-E6	467
CD-25S-E8	467
CD-25S-H1/2	467
CD-25S-H1/4	467
CD-25S-H3/8	467
CD-25S-M1/2	467
CD-25S-M1/2G	467
CD-25S-M1/4	467
CD-25S-M3/8	467
CD-25S-PM08	467
CD-25S-PM10	467
CD-25-X	462
CD-25-X-PL	462
CD-50-L-PL	472
CD-50-X	472
CD-50-X-PL	472
CK04R01	168
CK06R01	168
CK06R02	168
CK08R01	168
CK08R02	168
CK08R03	168
CK10R02	168
CK10R03	168
CK12R02	168
CK12R03	168
CK12R04	168
CN14	649
CPA010FG	584
CPOH	588
CRHL12-H12	562
CRHL12-H12-303	562
CRHL12-H12-303R	562
CRHL12-H12-316	562
CRHL12-H12-316R	562
CRHL12-H12R	562
CRHL12-H38	562
CRHL12-H38-303	562
CRHL12-H38-303R	562
CRHL12-H38-316	562
CRHL12-H38-316R	562
CRHL12-H38R	562
CRHL12-M12G	562
CRHL12-M12G-303	562
CRHL12-M12G-303R	562
CRHL12-M12G-316	562
CRHL12-M12G-316R	562
CRHL12-M12GR	562
CRM-55-1/2-M	568
CRM-55-1/2-PL-M	568
CRM-55-3/8	568
CRM-55-3/8-M	568
CRM-55-3/8-PL	568
CRM-55-3/8-PL-M	568
CRM-55-E	568
CRM-55-PL-E	568
CVFF-R01	157
CVFF-R02	157
CVFF-R03	157
CVFF-R04	157
CVPC04G01	155
CVPC04G01-IN	156
CVPC04M5	155
CVPC04M5-IN	156
CVPC04M6	155
CVPC04M6-IN	156
CVPC04R01	155
CVPC04R01-IN	155
CVPC06G01	155
CVPC06G01-IN	156
CVPC06G02	155
CVPC06G02-IN	156
CVPC06R01	155
CVPC06R01-IN	155
CVPC06R02	155
CVPC06R02-IN	155
CVPC08G01	155
CVPC08G01-IN	156
CVPC08G02	155
CVPC08G02-IN	156
CVPC08R01	155
CVPC08R01-IN	155
CVPC08R02	155
CVPC08R02-IN	155
CVPC10G03	155
CVPC10G03-IN	156
CVPC10G04	155
CVPC10G04-IN	156
CVPC10R03	155
CVPC10R03-IN	155
CVPC10R04	155
CVPC10R04-IN	155
CVPC12G03	155
CVPC12G03-IN	156
CVPC12G04	155
CVPC12G04-IN	156
CVPC12R03	155
CVPC12R03-IN	155
CVPC12R04	155
CVPC12R04-IN	155
CVPF01G01	157
CVPF01G01-IN	157
CVPF01R01	156
CVPF01R01-IN	157
CVPF02G02	157
CVPF02G02-IN	157
CVPF02R02	156
CVPF02R02-IN	157
CVPF03G03	157
CVPF03G03-IN	157
CVPF03R03	156
CVPF03R03-IN	157
CVPF04G04	157
CVPF04G04-IN	157
CVPF04R04	156
CVPF04R04-IN	157
CVPU04	156
CVPU06	156
CVPU08	156
CVPU10	156
CVPU12	156
ESC04M3	126
ESC04M5	126
ESC06G01-S	126
ESC06G02-S	126
ESC06M5	126
ESC06R01-S	126
ESC06R02-S	126
ESC08G01-M	126
ESC08G01-S	126
ESC08G02-M	126
ESC08G02-S	126
ESC08G03-M	126
ESC08R01-M	126
ESC08R01-S	126
ESC08R02-M	126
ESC08R02-S	126
ESC08R03-M	126
ESC10G01-M	126
ESC10G02-L	126
ESC10G02-M	126
ESC10G03-L	126
ESC10G03-M	126
ESC10G04-L	126
ESC10R01-M	126
ESC10R02-L	126
ESC10R02-M	126
ESC10R03-L	126
ESC10R03-M	126
ESC10R04-L	126
ESC12G02-L	126
ESC12G03-L	126
ESC12G04-L	126
ESC12R02-L	126
ESC12R03-L	126
ESC12R04-L	126
ETC-20	712
EU-75N-E10	534
EU-75N-E10-316V	534

EU-75N-E10-X	534
EU-75N-E12	534
EU-75N-E12-X	534
EU-75N-E13	534
EU-75N-E6	534
EU-75N-E8	534
EU-75N-E8-316V	534
EU-75N-E8-X	534
EU-75N-H1/2	534
EU-75N-H1/2-316V	534
EU-75N-H1/2-X	534
EU-75N-H1/4	534
EU-75N-H1/4-316V	534
EU-75N-H1/4-X	534
EU-75N-H3/8	534
EU-75N-H3/8-316V	534
EU-75N-H3/8-X	534
EU-75N-M1/2	534
EU-75N-M1/2-316V	534
EU-75N-M1/2G	534
EU-75N-M1/2-X	534
EU-75N-M1/4	534
EU-75N-M1/4-316V	534
EU-75N-M1/4-X	534
EU-75N-M3/8	534
EU-75N-M3/8-316V	534
EU-75N-M3/8-X	534
EU-75N-PM08	535
EU-75N-PM10	535
EU-75S-E10	536
EU-75S-E12	536
EU-75S-E13	536
EU-75S-E6	536
EU-75S-E8	536
EU-75S-H1/2	535
EU-75S-H1/4	535
EU-75S-H3/8	535
EU-75S-M1/2	535
EU-75S-M1/2G	535
EU-75S-M1/4	535
EU-75S-M3/8	535
EU-75S-PM08	536
EU-75S-PM10	536
EU-DO75E10	542
EU-DO75E10-316V	542
EU-DO75E12	542
EU-DO75E13	542
EU-DO75E6	542
EU-DO75E8	542
EU-DO75E8-316V	542
EU-DO75H12	542
EU-DO75H12-316V	542
EU-DO75H14	542
EU-DO75H14-316V	542
EU-DO75H38	542
EU-DO75H38-316V	542
EU-DO75M12	542
EU-DO75M12-316V	542
EU-DO75M12G	542
EU-DO75M14	542
EU-DO75M14-316V	542
EU-DO75M38-316V	542
EU-DO75M38-316V	542
EUROFLUID-E10	548
EUROFLUID-E12	548
EUROFLUID-E13	548
EUROFLUID-E6	548
EUROFLUID-E8	548
EUROFLUID-H1/2	548
EUROFLUID-H1/4	548
EUROFLUID-H3/8	548
EUROFLUID-M1/2	548
EUROFLUID-M1/2G	548
EUROFLUID-M1/4	548
EUROFLUID-M3/8	548
EUROFLUID-PM08	548
EUROFLUID-PM10	548
FCK0400	168
FCK0600	168
FCK0800	168
FCK1000	168
FCK1200	168
FEP0315TR	691
FEP0315TR-25BX	692
FEP0425TR	691
FEP0425TR-25BX	692
FEP0604TR	691
FEP0604TR-25BX	692
FEP0806TR	691
FEP0806TR-25BX	692
FLUID-10N-E10	490
FLUID-10N-E10X	496
FLUID-10N-E12	490
FLUID-10N-E12X	496
FLUID-10N-E13	490
FLUID-10N-E6	490
FLUID-10N-E8	490
FLUID-10N-E8X	496
FLUID-10N-H1/2	490
FLUID-10N-H1/2X	496
FLUID-10N-H1/4	490
FLUID-10N-H1/4X	496
FLUID-10N-H3/8	490
FLUID-10N-H3/8X	496
FLUID-10N-M1/2	490
FLUID-10N-M1/2G	490
FLUID-10N-M1/2-X	496
FLUID-10N-M1/4	490
FLUID-10N-M1/4-X	496
FLUID-10N-M3/8	490
FLUID-10N-M3/8-X	496
FLUID-10N-PM08	490
FLUID-10N-PM10	490
FLUID-10S-E10	491
FLUID-10S-E12	491
FLUID-10S-E13	491
FLUID-10S-E6	491
FLUID-10S-E8	491
FLUID-10S-H1/2	491
FLUID-10S-H1/4	491
FLUID-10S-H3/8	491
FLUID-10S-M1/2	491
FLUID-10S-M1/2G	491
FLUID-10S-M1/4	491
FLUID-10S-M3/8	491
FLUID-10S-PM08	491
FLUID-10S-PM10	491
FLUID-20N-E10	502
FLUID-20N-E12	502
FLUID-20N-H1/2	502
FLUID-20N-H3/8	502
FLUID-20N-M1/2	502
FLUID-20N-M3/8	502
FLUID-210N-E10	512
FLUID-210N-E12	512
FLUID-210N-E13	512
FLUID-210N-E6	512
FLUID-210N-E8	512
FLUID-210N-H1/2	512
FLUID-210N-H1/4	512
FLUID-210N-H3/8	512
FLUID-210N-M1/2	512
FLUID-210N-M1/2G	512
FLUID-210N-M1/4	512
FLUID-210N-M3/8	512
FLUID-210N-PM08	512
FLUID-210N-PM10	512
FLUID-30	508
FLUID-30-PL	508
GCK04R01	168
GCK06R01	168
GCK06R02	168
GCK08R01	168
GCK08R02	168
GCK08R03	168
GCK10R02	168
GCK10R03	168
GCK12R02	168
GCK12R03	168
GCK12R04	168
HBVU0606B	143
HBVU0808B	143
HBVU1010B	143
HBVU1212B	143
HBVU1212B	724
HCAS-F04	98
HCAS-F06	98
HCAS-F08	98
HCAS-F10	98
HCAS-F12	98
HCAS-H04	98
HCAS-H06	98
HCAS-H08	98
HCAS-H10	98
HCAS-H12	98
HCAS-P 04	98
HCAS-P 06	98
HCAS-P 08	98
HCAS-P 10	98
HCAS-P 12	98
HCBB1210W	82
HCBB15-1/2W	82
HCBB22-1/2W	82
HCBB22-3/4W	82
HCF04G01W	74
HCF06G01W	74
HCF06G02W	74
HCF06G03W	74
HCF06-NH06W	82
HCF06-UNF7/16-20W	81
HCF06-UNS7/16-24W	81
HCF08G01W	74
HCF08G02W	74
HCF08G03W	74
HCF08G04W	74
HCF08G06W	74
HCF08-NH06W	82
HCF08-UNF7/16-20W	81
HCF08-UNS7/16-24W	81
HCF10G02W	74
HCF10G03W	74
HCF10G04W	74
HCF10G06W	74
HCF10-NH06W	82
HCF10-UNF7/16-20W	81
HCF12G02W	74
HCF12G03W	74
HCF12G04W	74
HCF15G06W	74
HCJ04G01W	77
HCJ04G02W	77
HCJ04R01W	77
HCJ04R02W	77
HCJ06G01W	77
HCJ06G02W	77
HCJ06R01W	77

HCJ06R02W	77
HCJ08G01W	77
HCJ08G02W	77
HCJ08G03W	77
HCJ08R01W	77
HCJ08R02W	77
HCJ08R03W	77
HCJ10G02W	77
HCJ10G03W	77
HCJ10G04W	77
HCJ10R02W	77
HCJ10R03W	77
HCJ10R04W	77
HCJ12G03W	77
HCJ12G04B	723
HCJ12G04W	77
HCJ12R03W	77
HCJ12R04W	77
HCJ15G04B	723
HCJ15G04W	77
HCJ22G06B	723
HCJB0604W	80
HCJB0606W	80
HCJB0806W	80
HCJB1006W	80
HCJB1008W	80
HCP04-5/32	82
HCP05-3/16	82
HCP06-1/4	82
HCP08-5/16	82
HCP10-3/8	82
HCP12-1/2	82
HCP12-1/2BL	724
HCP15BL	724
HCP22BL	724
HCVB15-1/2B	144
HCVB22-1/2B	144
HCVB22-3/4B	144
HCVU0404B	153
HCVU0606B	153
HCVU0808B	153
HCVU1010B	153
HCVU1212B	153
HFC04G01	66
HFC04G02	66
HFC04M5	66
HFC06G01	66
HFC06G02	66
HFC08G01	66
HFC08G02	66
HFC08G03	66
HFC10G02	66
HFC10G03	66
HFC12G02	66
HFC12G03	66
HFC12G04	66
HFCF04G01	66
HFCF04G02	66
HFCF06G01	66
HFCF06G02	66
HFCF08G01	66
HFCF08G02	66
HFL04G01	67
HFL04G02	67
HFL04M5	67
HFL06G01	67
HFL06G02	67
HFL08G01	67
HFL08G02	67
HFL10G02	67
HFL10G03	67
HFMM0400	66
HFMM0600	66
HFMM0800	66
HFUC0400	67
HFUC0600	67
HFUC0800	67
HFUC1000	67
HFUC1200	67
HFUL0400	67
HFUL0600	67
HFUL0800	67
HFUL1000	67
HFUL1200	67
HFUT0400	67
HFUT0600	67
HFUT0800	67
HFUT1000	67
HFUT1200	67
HGJ0604W	79
HGJ0804W	79
HGJ0806W	79
HGJ0810W	79
HGJ1006W	79
HGJ1008W	79
HGJ1208W	79
HGJ1210W	79
HGJ1510B	724
HGJ1510W	79
HGJ1512B	724
HGJ1512W	79
HGJ2215B	724
HLJ0404W	80
HLJ0606W	80
HLJ0608W	80
HLJ0808W	80
HLJ1006W	80
HLJ1008W	80
HLJ1010W	80
HLJ1212B	723
HLJ1212W	80
HLJ1515B	723
HLJ1515W	80
HLJ2222B	723
HLJB1006W	80
HLJB1008W	80
HMM0404W	74
HMM0604W	74
HMM0606W	74
HMM0806W	74
HMM0808W	74
HMM1010W	74
HMM1212W	74
HPC04G01W	73
HPC04G02W	73
HPC04R01W	73
HPC06G01W	73
HPC06G02W	73
HPC06R01W	73
HPC06R02W	73
HPC06R03W	73
HPC08G01W	73
HPC08G02W	73
HPC08G03W	73
HPC08G04W	73
HPC08R01W	73
HPC08R02W	73
HPC08R03W	73
HPC10G02W	73
HPC10G03W	73
HPC10G04W	73
HPC10R03W	73
HPC10R04W	73
HPC12G03W	73
HPC12G04B	722
HPC12G04W	73
HPC12R03W	73
HPC12R04W	73
HPC15G04B	722
HPC15G04W	73
HPC15G06B	722
HPC15G06W	73
HPC22G06B	722
HPC22G06W	73
HPF06W	79
HPF08W	79
HPF10W	79
HPF12B	723
HPF12W	79
HPF15B	723
HPF15W	79
HPF22B	723
HPF22W	79
HPL04R01W	74
HPL06R01W	74
HPL06R02W	74
HPL06R03W	74
HPL08R02W	74
HPL08R03W	74
HPL10R02W	74
HPL10R03W	74
HPL12R02W	74
HPL12R03W	74
HPL12R04W	74
HPP04W	81
HPP06W	81
HPP08W	81
HPP10W	81
HPP12B	724
HPP12W	81
HPP15B	724
HPP15W	81
HPP22B	724
HPP22W	81
HRPL06R01W	75
HRPL06R02W	75
HRPL08G01W	75
HRPL08G02W	75
HRPL08G03W	75
HRPL08R01W	75
HRPL08R02W	75
HRPL08R03W	75
HRPL10G02W	75
HRPL10G03W	75
HRPL10G04W	75
HRPL10R03W	75
HRPL12G03W	75
HRPT06R01W	75
HRPT06R02W	75
HRPT08G01W	75
HRPT08G02W	75
HRPT08G03W	75
HRPT08R01W	75
HRPT08R02W	75
HRPT08R03W	75
HRPT10G02W	75
HRPT10G03W	75
HRPT10G04W	75
HRPT10R03W	75
HRPT12G03W	75
HRST06R01W	76
HRST06R02W	76
HRST08G01W	76
HRST08G02W	76
HRST08G03W	76
HRST08R01W	76

HRST08R02W	76
HRST08R03W	76
HRST10G02W	76
HRST10G03W	76
HRST10G04W	76
HRST10R03W	76
HRST12G03W	76
HRWT06R01W	76
HRWT06R02W	76
HRWT08G01W	76
HRWT08G02W	76
HRWT08G03W	76
HRWT08R01W	76
HRWT08R02W	76
HRWT08R03W	76
HRWT10G02W	76
HRWT10G03W	76
HRWT10G04W	76
HRWT10R03W	76
HRWT12G03W	76
HSF-B02	114
HSLB0606B	113
HSLB1010B	113
HSLU0606B	113
HSLU1010B	113
HSTB0606B	113
HSTB1010B	113
HSTU0606B	113
HSTU1010B	113
HUC0404W	77
HUC0604W	77
HUC0605W	77
HUC0606W	77
HUC0806W	77
HUC0808W	77
HUC1006W	77
HUC1008W	77
HUC1010W	77
HUC1210W	77
HUC1212B	722
HUC1212W	77
HUC1515B	722
HUC1515W	77
HUC2222B	722
HUC2222W	77
HUFFG02-G06G	82
HUFFG03-G06G	82
HUL0404W	78
HUL0606W	78
HUL0804W	78
HUL0806W	78
HUL0808W	78
HUL1006W	78
HUL1008W	78
HUL1010W	78
HUL1206W	78
HUL1208W	78
HUL1210W	78
HUL1212B	722
HUL1212W	78
HUL1515B	722
HUL1515W	78
HUL2222B	722
HUL2222W	78
HUT0404W	78
HUT0606W	78
HUT0808W	78
HUT100610W	78
HUT100806W	78
HUT1010W	78
HUT121012W	78
HUT1212B	723
HUT1212W	78
HUT1515B	723
HUT1515W	78
HUT221222B	723
HUT221222W	78
HUT221522B	723
HUT221522W	78
HUT2222B	723
HUT2222W	78
HUY0404W	78
HUY0606W	78
HUY0808W	78
HUY1008W	78
HUY1010W	78
HUY1212W	78
HVC06G01	137
HVC06G02	137
HVC06G03	137
HVC06R01	137
HVC06R02	137
HVC06R03	137
HVC08G01	137
HVC08G02	137
HVC08G03	137
HVC08R01	137
HVC08R02	137
HVC08R03	137
HVC10G02	137
HVC10G03	137
HVC10G04	137
HVC10R02	137
HVC10R03	137
HVC10R04	137
HVC12G02	137
HVC12G03	137
HVC12G04	137
HVC12R02	137
HVC12R03	137
HVC12R04	137
HVF06G01	138
HVF06G02	138
HVF06G03	138
HVF06R01	138
HVF06R02	138
HVF06R03	138
HVF08G01	138
HVF08G02	138
HVF08G03	138
HVF08R01	138
HVF08R02	138
HVF08R03	138
HVF10G02	138
HVF10G03	138
HVF10G04	138
HVF10R02	138
HVF10R03	138
HVF10R04	138
HVF12G02	138
HVF12G03	138
HVF12G04	138
HVF12R02	138
HVF12R03	138
HVF12R04	138
HVM01G01	139
HVM01R01	139
HVM02G01	139
HVM02G02	139
HVM02R01	139
HVM02R02	139
HVM03G02	139
HVM03G03	139
HVM03R02	139
HVM03R03	139
HVM04G03	139
HVM04G04	139
HVM04R03	139
HVM04R04	139
HVU0606	140
HVU0806	140
HVU0808	140
HVU1008	140
HVU1010	140
HVU1210	140
HVU1212	140
HZA0606W	79
IRT28-M12G-316V	558
IS43S	388
KC9-0812	290
KC9-1016	290
KC9-1220	290
KC9-1222	290
KC9-1625	290
KC9-1627	290
KC9-2032	290
KC9-2535	290
KC9-2540	290
KC9-3045	290
KC9-3250	290
KC9-4060	290
KC9-5070	290
KC9-6080	290
KC9-7090	290
KCW9-0812	290
KCW9-1016	290
KCW9-1220	290
KCW9-1625	290
KCW9-2032	290
KCW9-2535	290
KCW9-2540	290
KCW9-3045	290
KCW9-3250	290
KCW9-4060	290
KCW9-5070	290
KCW9-6080	290
KCW9-7090	290
KCX9-0812	291
KCX9-1016	291
KCX9-1220	291
KCX9-1625	291
KCX9-2032	291
KCX9-2535	291
KCX9-2540	291
KCX9-3045	291
KCX9-3250	291
KCX9-4060	291
KCX9-5070	291
KCX9-6080	291
KCX9-7090	291
L-150	580
L-225	580
LM-G	712
LM-P	712
LOC5331	388
LOX1810	383
LOX5314	385
LOX5503	386
LOX5811	384
LOX5920	387
MABP40R0120	370
MABP40R0132	370
MABP40R0133	370
MABP40R0134	370
MABP40R0135	370
MABP40R0136	370

MABP40R0137	370
MABP40R0138	370
MABP40R0139	370
MABP40R0140	370
MABP40R0143	370
MABP50R0120	370
MABP50R0132	370
MABP50R0133	370
MABP50R0134	370
MABP50R0135	370
MABP50R0136	370
MABP50R0138	370
MABP50R0139	370
MABP50R0140	370
MABP50R0234	370
MABP50R0235	370
MABP50R0236	370
MABP50R0238	370
MABP50R0239	370
MABP50R0240	370
MABP63R0220	370
MABP63R0232	370
MABP63R0233	370
MABP63R0234	370
MABP63R0235	370
MABP63R0236	370
MABP63R0237	370
MABP63R0238	370
MABP63R0239	370
MABP63R0240	370
MABP63R0245	370
MABR40R0120	369
MABR40R0132	369
MABR40R0133	369
MABR40R0134	369
MABR40R0135	369
MABR40R0136	369
MABR40R0137	369
MABR40R0138	369
MABR40R0139	369
MABR40R0140	369
MABR50R0234	369
MABR50R0235	369
MABR50R0236	369
MABR50R0238	369
MABR50R0239	369
MABR50R0240	369
MABR63R0220	369
MABR63R0232	369
MABR63R0233	369
MABR63R0234	369
MABR63R0235	369
MABR63R0236	369
MABR63R0237	369
MABR63R0238	369
MABR63R0239	369
MABR63R0240	369
MICRO-H18-L	518
MICRO-HM508L	517
MINIDO-E6-316V	528
MINIDO-E6-L	528
MINIDO-E8-316V	528
MINIDO-E8-L	528
MINIDO-H1-316V	528
MINIDO-H1-L	528
MINIDO-H-316V	528
MINIDO-H-L	528
MINIDO-M1-316V	528
MINIDO-M1-L	528
MINIDO-M-316V	528
MINIDO-M3-316V	528
MINIDO-M-L	528
MINIDO-MM6-316V	528
MINIDO-MM6-L	528
MINIDO-MM8-316V	528
MINIDO-MM8-L	528
MINIDO-RR6-L	529
MINIDO-RR6R-L	529
MINIDO-RR8-L	529
MINIDO-RR8R-L	529
MINI-E6-316V	522
MINI-E6-L	522
MINI-E8-316V	522
MINI-E8-L	522
MINI-H1-316V	522
MINI-H1-L	522
MINI-H-316V	522
MINI-H-L	522
MINI-M1-316V	522
MINI-M1-L	522
MINI-M-316V	522
MINI-M3-316V	522
MINI-M-L	522
MINI-MM6-316V	522
MINI-MM6-L	522
MINI-MM8-316V	522
MINI-MM8-L	522
MINI-RR6-L	523
MINI-RR6R-L	523
MINI-RR8-L	523
MINI-RR8R-L	523
MXBF63G0220	373
MXBF63G0232	373
MXBF63G0233	373
MXBF63G0234	373
MXBF63G0235	373
MXBF63G0236	373
MXBF63G0237	373
MXBF63G0239	373
MXBF63G0240	373
MXBF63G0241	373
MXBF63G0242	373
MXBF63G0243	373
MXBF63G0244	373
MXBF63G0245	373
MXBF63G0246	373
MXBF63G0247	373
MXBF63G0248	373
MXBP40G0135	372
MXBP40G0136	372
MXBP40G0137	372
MXBP40G0139	372
MXBP40G0140	372
MXBP40G0142	372
MXBP40G0143	372
MXBP40G0144	372
MXBP40G0145	372
MXBP40G0147	372
MXBP50G0234	372
MXBP50G0235	372
MXBP50G0236	372
MXBP50G0237	372
MXBP50G0239	372
MXBP50G0240	372
MXBP50G0241	372
MXBP50G0242	372
MXBP50G0243	372
MXBP50G0244	372
MXBP50G0245	372
MXBP63G0220	372
MXBP63G0232	372
MXBP63G0233	372
MXBP63G0234	372
MXBP63G0235	372
MXBP63G0236	372
MXBP63G0237	372
MXBP63G0239	372
MXBP63G0240	372
MXBP63G0241	372
MXBP63G0242	372
MXBP63G0243	372
MXBP63G0244	372
MXBP63G0245	372
MXBP63G0246	372
MXBP63G0247	372
MXBP63G0248	372
MXBR40G0135	371
MXBR40G0136	371
MXBR40G0137	371
MXBR40G0139	371
MXBR40G0140	371
MXBR40G0142	371
MXBR40G0143	371
MXBR40G0144	371
MXBR40G0145	371
MXBR40G0147	371
MXBR50G0234	371
MXBR50G0235	371
MXBR50G0236	371
MXBR50G0237	371
MXBR50G0239	371
MXBR50G0240	371
MXBR50G0241	371
MXBR50G0242	371
MXBR50G0243	371
MXBR50G0244	371
MXBR50G0245	371
MXBR50G0247	371
MXBR63G0220	371
MXBR63G0232	371
MXBR63G0233	371
MXBR63G0234	371
MXBR63G0235	371
MXBR63G0236	371
MXBR63G0237	371
MXBR63G0239	371
MXBR63G0240	371
MXBR63G0241	371
MXBR63G0242	371
MXBR63G0243	371
MXBR63G0244	371
MXBR63G0245	371
MXBR63G0246	371
MXBR63G0247	371
MXBR63G0248	371
MXBR63G0250	371
MXBS63G0220	373
MXBS63G0232	373
MXBS63G0233	373
MXBS63G0234	373
MXBS63G0235	373
MXBS63G0236	373
MXBS63G0237	373
MXBS63G0239	373
MXBS63G0240	373
MXBS63G0241	373
MXBS63G0242	373
MXBS63G0243	373
MXBS63G0244	373
MXBS63G0245	373
MXBS63G0246	373
MXBS63G0247	373
MXBS63G0248	373
MXXP63G0220	376
MXXP63G0232	376
MXXP63G0233	376

MXXP63G0234	376
MXXP63G0235	376
MXXP63G0236	376
MXXP63G0237	376
MXXP63G0239	376
MXXP63G0240	376
MXXP63G0241	376
MXXP63G0242	376
MXXP63G0243	376
MXXP63G0244	376
MXXP63G0245	376
MXXR100G0220	376
MXXR100G0432	376
MXXR100G0433	376
MXXR100G0434	376
MXXR100G0435	376
MXXR100G0436	376
MXXR100G0437	376
MXXR100G0439	376
MXXR100G0440	376
MXXR100G0441	376
MXXR100G0442	376
MXXR100G0443	376
MXXR63G0220	375
MXXR63G0232	375
MXXR63G0233	375
MXXR63G0234	375
MXXR63G0235	375
MXXR63G0236	375
MXXR63G0237	375
MXXR63G0239	375
MXXR63G0240	375
MXXR63G0241	375
MXXR63G0242	375
MXXR63G0243	375
MXXR63G0244	375
MXXR63G0245	375
NE-10E-10	492
NE-10E-10-X	497
NE-10E-12	492
NE-10E-6	492
NE-10E-8	492
NE-10E-X	497
NE-10H	492
NE-10H-1/2	492
NE-10H-3/8	492
NE-10H-X	497
NE-10M	492
NE-10M-1/2	492
NE-10M-1/2-X	496
NE-10M-3/8	492
NE-10M-3/8-X	496
NE-10M-X	496
NE-10PM-08	492
NE-10PM-10	492
NE-20E	503
NE-20E-13	503
NE-20H	503
NE-20H-1/2	503
NE-20M	502
NE-20M-1/2	502
NE-20M-1/4	502
NE-30E	508
NE-30H	508
NE-30H-3/8	508
NE-30M	508
OTA04G01	59
OTA04G02	59
OTA04M5	59
OTA04M7	59
OTA04M7	59
OTA06G01	59
OTA06G02	59
OTA06M5	59
OTA08G01	59
OTA08G02	59
OTA08G03	59
OTA10G01	59
OTA10G02	59
OTA10G03	59
OTA12G02	59
OTA12G03	59
OTA12G04	59
OTA14G03	59
OTA14G04	59
OTRC04G01	54
OTRC04G02	54
OTRC04M5	54
OTRC04R01	54
OTRC04R02	54
OTRC06G01	54
OTRC06G02	54
OTRC06M5	54
OTRC06R01	54
OTRC06R02	54
OTRC08G01	54
OTRC08G02	54
OTRC08G03	54
OTRC08R01	54
OTRC08R02	54
OTRC08R03	54
OTRC10G02	54
OTRC10G03	54
OTRC10G04	54
OTRC10R02	54
OTRC10R03	54
OTRC10R04	54
OTRC12G02	54
OTRC12G03	54
OTRC12G04	54
OTRC1-2N02	55
OTRC1-2N03	55
OTRC1-2N04	55
OTRC12R02	54
OTRC12R03	54
OTRC12R04	54
OTRC1-4N01	55
OTRC1-4N02	55
OTRC38N01	55
OTRC38N02	55
OTRC38N03	55
OTRC38N04	55
OTRC516N01	55
OTRC516N02	55
OTRC516N03	55
OTRC532N01	55
OTRC532N02	55
OTRGJ0604	61
OTRGJ0806	61
OTRGJ1008	61
OTRGJ1210	61
OTRGJ1-2-38	61
OTRGJ1-4-532	61
OTRGJ38-516	61
OTRGJ516-1-4	61
OTRL04G01	56
OTRL04G02	56
OTRL04M5	56
OTRL04R01	56
OTRL04R02	56
OTRL06G01	56
OTRL06G02	56
OTRL06M5	56
OTRL06R01	56
OTRL06R02	56
OTRL08G01	56
OTRL08G02	56
OTRL08G03	56
OTRL08R01	56
OTRL08R02	56
OTRL08R03	56
OTRL10G02	56
OTRL10G03	56
OTRL10G04	56
OTRL10R02	56
OTRL10R03	56
OTRL10R04	56
OTRL12G02	56
OTRL12G03	56
OTRL12G04	56
OTRL1-2N02	57
OTRL1-2N03	57
OTRL1-2N04	57
OTRL12R02	56
OTRL12R03	56
OTRL12R04	56
OTRL1-4N01	57
OTRL1-4N02	57
OTRL38N01	57
OTRL38N02	57
OTRL38N03	57
OTRL38N04	57
OTRL516N01	57
OTRL516N02	57
OTRL516N03	57
OTRL532N01	57
OTRL532N02	57
OTRL532UF1032	57
OTRME04R01	56
OTRME06R01	56
OTRME06R02	56
OTRME08R01	56
OTRME08R02	56
OTRME10R02	56
OTRMM04	55
OTRMM06	55
OTRMM08	55
OTRMM10	55
OTRMM12	55
OTROC1-4UF1032	55
OTROC532UF1032	55
OTRT04G01	58
OTRT04G02	58
OTRT04M5	58
OTRT04R01	57
OTRT04R02	57
OTRT06G01	58
OTRT06G02	58
OTRT06M5	58
OTRT06R01	57
OTRT06R02	57
OTRT08G01	58
OTRT08G02	58
OTRT08G03	58
OTRT08R01	57
OTRT08R02	57
OTRT08R03	57
OTRT10G02	58
OTRT10G03	58
OTRT10G04	58
OTRT10R02	57
OTRT10R03	57
OTRT10R04	57
OTRT12G02	58
OTRT12G03	58
OTRT12G04	58

OTRT1-2N02	58
OTRT1-2N03	58
OTRT12R02	57
OTRT12R03	57
OTRT12R04	57
OTRT1-4N01	58
OTRT1-4N02	58
OTRT38N02	58
OTRT38N03	58
OTRT516N01	58
OTRT516N02	58
OTRT532N01	58
OTRT532N02	58
OTRT532UF1032	58
OTRUC04-532	59
OTRUC04-532	59
OTRUC0600	59
OTRUC08-516	59
OTRUC08-516	59
OTRUC1000	59
OTRUC1-2	59
OTRUC1200	59
OTRUC1-4	59
OTRUC38	59
OTRUL04-532	60
OTRUL04-532	60
OTRUL0600	60
OTRUL08-516	60
OTRUL08-516	60
OTRUL1000	60
OTRUL1-2	60
OTRUL1200	60
OTRUL1-4	60
OTRUL38	60
OTRUT04-532	60
OTRUT04-532	60
OTRUT0600	60
OTRUT08-516	60
OTRUT08-516	60
OTRUT1000	60
OTRUT1-2	60
OTRUT1200	60
OTRUT1-4	60
OTRUT38	60
OTSC04G01	108
OTSC04G01-D	109
OTSC04G01-D-B	109
OTSC04G01-D-IN	109
OTSC04G01-IN	108
OTSC04M5-D	109
OTSC04M5-D-B	109
OTSC04M5-D-IN	109
OTSC06G01	108
OTSC06G01-D	109
OTSC06G01-D-B	109
OTSC06G01-D-IN	109
OTSC06G01-IN	108
OTSC06G02	108
OTSC06G02-D	109
OTSC06G02-D-B	109
OTSC06G02-D-IN	109
OTSC06G02-IN	108
OTSC06M5-D	109
OTSC06M5-D-B	109
OTSC06M5-D-IN	109
OTSC08G01	108
OTSC08G01-D	109
OTSC08G01-D-B	109
OTSC08G01-D-IN	109
OTSC08G01-IN	108
OTSC08G02	108
OTSC08G02-D	109
OTSC08G02-D-B	109
OTSC08G02-D-IN	109
OTSC08G02-IN	108
OTSC08G03-D	109
OTSC08G03-D-B	109
OTSC08G03-D-IN	109
OTSC10G02	108
OTSC10G02-D	109
OTSC10G02-D-B	109
OTSC10G02-D-IN	109
OTSC10G02-IN	108
OTSC10G03-D	109
OTSC10G03-D-IN	109
OTSC12G02	108
OTSC12G02-D	109
OTSC12G02-D-IN	109
OTSC12G02-IN	108
OTSC12G03-D	109
OTSC12G03-D-IN	109
OTSCG01-DF	110
OTSCG01-DF-B	110
OTSCG01-DF-IN	110
OTSCG02-DF	110
OTSCG02-DF-B	110
OTSCG02-DF-IN	110
OTSCG03-DF	110
OTSCG03-DF-B	110
OTSCG03-DF-IN	110
OTSCG04-DF	110
OTSCG04-DF-B	110
OTSCG04-DF-IN	110
OTSCM5-DF	110
OTSCM5-DF-B	110
OTSCM5-DF-IN	110
PA12-0402NU-25BX	679
PA12-0402-Z	679
PA12-0425AZ-25BX	679
PA12-0425-Z	679
PA12-0427AZ-25BX	679
PA12-0427-Z	679
PA12-0604AZ-25BX	679
PA12-0604-Z	679
PA12-0806AZ-25BX	679
PA12-0806-Z	679
PA12-1/2	680
PA12-1/4	680
PA12-1007AZ-25BX	679
PA12-1007-Z	679
PA12-1008AZ-25BX	679
PA12-1008-Z	679
PA12-1208-Z	679
PA12-1209-Z	679
PA12-1210-Z	679
PA12-1412-Z	679
PA12-15125-Z	679
PA12-1614-Z	679
PA12-3/16	680
PA12-3/8	680
PA12-5/16	680
PA12-5/32	680
PC-C03M3	44
PC-C03M5	44
PC-C03M6	44
PC-C04G01	44
PC-C04M3	44
PC-C04M5	44
PC-C04M6	44
PC-C04R01	44
PC-C06G01	44
PC-C06M5	44
PC-C06M6	44
PC-C06R01	44
PCF-C03M3	45
PCF-C03M5	45
PCF-C03M6	45
PCF-C04M3	45
PCF-C04M5	45
PCF-C04M6	45
PCF-C06M5	45
PCF-C06M6	45
PCP04N	447
PCP06N	447
PCP08N	447
PCP10N	447
PCP12N	447
PCP16N	447
PE0425..-FF	683
PE0604..-FF	683
PE0806..-FF	683
PE1/2..-FF	684
PE1/4..-FF	684
PE1007..-FF	683
PE1209..-FF	683
PE3/16..-FF	684
PE3/8..-FF	684
PE5/16..-FF	684
PE5/32..-FF	684
PG-C0403	49
PG-C0603	49
PG-C0604	49
PGJ-C0403	50
PGJ-C0603	50
PGJ-C0604	50
PL-C03M3	46
PL-C03M5	46
PL-C03M6	46
PL-C04G01	46
PL-C04M3	46
PL-C04M5	46
PL-C04M6	46
PL-C04R01	46
PL-C06G01	46
PL-C06M5	46
PL-C06M6	46
PL-C06R01	46
PLL-C03M3	47
PLL-C03M5	47
PLL-C03M6	47
PLL-C04M3	47
PLL-C04M5	47
PLL-C04M6	47
PLL-C04R01	46
PLL-C06M5	47
PLL-C06M6	47
PLL-C06R01	46
P-MFAA-12RN	350
P-MFAA-16RN	350
P-MFAA-2RN	350
P-MFAA-4RN	350
P-MFAA-6RN	350
P-MFAA-8RN	350
PMM-C03	45
PMM-C04	45
PMM-C06	45
POC-C03M3	45
POC-C03M5	45
POC-C03M6	45
POC-C04M3	45
POC-C04M5	45
POC-C04M6	45
POC-C04R01	44
POC-C06M5	45
POC-C06M6	45
POC-C06R01	44

P-SBT-12GR	349
P-SBT-16GR	349
P-SBT-2GR	349
P-SBT-4GR	349
P-SBT-6GR	349
P-SBT-8GR	349
PSF1010	580
PSF1010-4	580
P-SHN-12NR	349
P-SHN-16NR	349
P-SHN-2NR	349
P-SHN-4NR	349
P-SHN-6NR	349
P-SHN-8NR	349
P-SL-12G	348
P-SL-16G	348
P-SL-2G	348
P-SL-4G	348
P-SL-6G	348
P-SL-8G	348
P-SSL-12GR	349
P-SSL-16GR	349
P-SSL-2GR	349
P-SSL-4GR	349
P-SSL-6GR	349
P-SSL-8GR	349
P-ST-12G	349
P-ST-16G	349
P-ST-2G	349
P-ST-4G	349
P-ST-6G	349
P-ST-8G	349
PST-C03M3	48
PST-C03M5	48
PST-C03M6	48
PST-C04M3	48
PST-C04M5	48
PST-C04M6	48
PST-C04R01	48
PST-C06M5	48
PST-C06M6	48
PST-C06R01	48
PT-C03M3	47
PT-C03M5	47
PT-C03M6	47
PT-C04M3	47
PT-C04M5	47
PT-C04M6	47
PT-C04R01	47
PT-C06M5	47
PT-C06M6	47
PT-C06R01	47
PTFE-C0425	688
PTFE-C0425-25BX	688
PTFE-C0604	688
PTFE-C0604-25BX	688
PTFE-C0806	688
PTFE-C0806-25BX	688
PTFE-C1008	688
PTFE-C1008-25BX	688
PTFE-C1210	688
PTFE-C1412	688
PTFE-C1613	688
PUAS0425NE	666
PUAS0639NE	666
PUAS0857NE	666
PUAS1075NE	666
PUAS1209NE	666
PUC-C03	48
PUC-C04	48
PUC-C06	48
PUES0302	655
PUES0402	655
PUES0425	655
PUES0425AZ-25BX	656
PUES0425AZTR-25BX	656
PUES0425GL-25BX	656
PUES0425NE-25BX	656
PUES0425RO-25BX	656
PUES0425SL-25BX	656
PUES0425TR-25BX	656
PUES0425VD-25BX	656
PUES0604	655
PUES0604AZ-25BX	656
PUES0604GL-25BX	656
PUES0604NE-25BX	656
PUES0604RO-25BX	656
PUES0604TR-25BX	656
PUES0604VD-25BX	656
PUES0805	655
PUES0855	655
PUES0855SL-25BX	656
PUES1007	655
PUES1007AZ-25BX	656
PUES1065	655
PUES1208	655
PUES1209	655
PUES1209AZ-25BX	656
PUES1410	655
PUES1611	655
PUES1612	655
PUET0425	663
PUET0639	663
PUET0855	663
PUET1007	663
PUET1208	663
PUET1410	663
PUET1611	663
PUFH0402	673
PUFH0804	673
PUFH1006	673
PUFH1208	673
PUFH1410	673
PUFH1611	673
PUFW1006	669
PUFW1208	669
PUFW1410	669
PUFW1611	669
PUHQ0425	660
PUHQ0425-25	660
PUHQ0425BLNE	659
PUHQ0604	660
PUHQ0604-25	660
PUHQ0604BLNE	659
PUHQ0806BLNE	659
PUHQ0855	660
PUHQ0855-25	660
PUHQ1075	660
PUHQ1075-25	660
PUHQ1209-25	660
PUHQ1411-25	660
PUHQ1611-25	660
PUKS0604AZ	676
PUKS0857AZ	676
PUKS1075AZ	676
PUKS1209AZ	676
PUKS1410AZ	676
PUKS1611AZ	676
PUL-C03	49
PUL-C04	49
PUL-C06	49
PU-PVC0610AZ	700
PU-PVC0812AZ	700
PU-PVC1015AZ	700
PU-PVC1116AZ	700
PU-PVC1319AZ	700
PUT-C03	49
PUT-C04	49
PUT-C06	49
PVC0406	696
PVC0609	696
PVC0710	696
PVC0812	696
PVC1014	696
PVC1217	696
PVC1419	696
PVC1622	696
PVC1824	696
PVC2027	696
PVC2533	696
PVC-AC0614NE	702
PVC-AC0817NE	702
PVC-AC1019NE	702
PVC-AC1323NE	702
PVC-AC1929NE	702
PVC-RT0612	698
PVC-RT0814	698
PVC-RT1016	698
PVC-RT1218	698
PVC-RT1420	698
PVC-RT1622	698
PVC-RT1926	698
PVC-RT2533	698
PVSC06G01	122
PVSC06G02	122
PVSC06R01	122
PVSC06R02	122
PVSC08G01	122
PVSC08G02	122
PVSC08G03	122
PVSC08R01	122
PVSC08R02	122
PVSC08R03	122
PVSC10G03	122
PVSC10G04	122
PVSC10R03	122
PVSC10R04	122
PVSC12G03	122
PVSC12G04	122
PVSC12R03	122
PVSC12R04	122
PW-C0403	50
PW-C0603	50
PW-C0604	50
PY-C03	50
PY-C04	50
PY-C06	50
PZ-G	711
PZ-P	711
Q-10N-E10	552
Q-10N-E12	552
Q-10N-E13	552
Q-10N-E6	552
Q-10N-E8	552
Q-10N-H1/2	552
Q-10N-H1/4	552
Q-10N-H3/8	552
Q-10N-M1/2	552
Q-10N-M1/2G	552
Q-10N-M1/4	552
Q-10N-M3/8	552
Q-10N-PM08	553
Q-10N-PM10	553
R-PTFE12012	388
R-PTFE190215-PROF	389
SB304TR130175-DP	380

SB304TR130175-STC-DP	380
SB304TR130175-STL-DP	380
SB304TR150350-DP	380
SB304TR150350-STC-DP	380
SB304TR150350-STL-DP	380
SB304TR170560-DP	380
SB304TR170560-STC-DP	380
SB304TR170560-STL-DP	380
SB304TR220540-DP	380
SB304TR220540-STC-DP	380
SB304TR220540-STL-DP	380
SH14AC110/B-N	649
SH14AC110-N	649
SH14AC220/B-N	649
SH14AC220-N	649
SH14AC24/B-N	649
SH14AC240/B-N	649
SH14AC240-N	649
SH14AC24-N	649
SH14DC12/B-N	649
SH14DC12/HP-N	649
SH14DC12-N	649
SH14DC24/B-N	649
SH14DC24/HP-N	649
SH14DC24-N	649
SI0305FQ	694
SI0306FQ	694
SI0406FQ	694
SI0407FQ	694
SI0508FQ	694
SI0609FQ	694
SI0610FQ	694
SI0811FQ	694
SI0812FQ	694
SI0912FQ	694
SI1013FQ	694
SI1014FQ	694
SI1215FQ	694
SI3506FQ	694
SPC04G01	148
SPC04R01	148
SPC06G01	148
SPC06G02	148
SPC06R01	148
SPC06R02	148
SPC08G02	148
SPC08G03	148
SPC08R02	148
SPC08R03	148
SPC10G02	148
SPC10G03	148
SPC10G04	148
SPC10R02	148
SPC10R03	148
SPC10R04	148
SPC12G02	148
SPC12G03	148
SPC12G04	148
SPC12R02	148
SPC12R03	148
SPC12R04	148
SPL04G01	149
SPL04M5	149
SPL04M6	149
SPL04R01	148
SPL06G01	149
SPL06G02	149
SPL06M5	149
SPL06R01	148
SPL06R02	148
SPL08G02	149
SPL08G03	149
SPL08R01	148
SPL08R02	148
SPL08R03	148
SPL10G02	149
SPL10G03	149
SPL10G04	149
SPL10R02	148
SPL10R03	148
SPL10R04	148
SPL12G03	149
SPL12G04	149
SPL12R03	148
SPL12R04	148
SPU04	149
SPU06	149
SPU08	149
SPU10	149
SPU12	149
STF04	712
STF06	712
STF08	712
STF10	712
STF12	712
STF14	712
STFT15	722
STFT22	722
SVP2CAL34CL10M1	643
SVP2CAL34CL10M2	643
SVP2CAL34CL10M5	643
SVP2CAL34CL10M7	643
SVP2CAL34CL10M9	643
SVP2CAL34IR10M1	640
SVP2CAL34IR10M2	640
SVP2CAL34IR10M5	640
SVP2CAL34IR10M7	640
SVP2CAL34IR10M9	640
SVP2CAL34IR3/8M1	641
SVP2CAL34IR3/8M2	641
SVP2CAL34IR3/8M5	641
SVP2CAL34IR3/8M7	641
SVP2CAL34IR3/8M9	641
SVP2CIR10IR10M1	639
SVP2CIR10IR10M2	639
SVP2CIR10IR10M5	639
SVP2CIR10IR10M7	639
SVP2CIR10IR10M9	639
SVP2CIR3/8IR3/8M1	640
SVP2CIR3/8IR3/8M2	640
SVP2CIR3/8IR3/8M5	640
SVP2CIR3/8IR3/8M7	640
SVP2CIR3/8IR3/8M9	640
SVP2CM12M12M1	642
SVP2CM12M12M2	642
SVP2CM12M12M5	642
SVP2CM12M12M7	642
SVP2CM12M12M9	642
SVP2CM34M34M1	642
SVP2CM34M34M2	642
SVP2CM34M34M5	642
SVP2CM34M34M7	642
SVP2CM34M34M9	642
SVP2CM38M38M1	641
SVP2CM38M38M2	641
SVP2CM38M38M5	641
SVP2CM38M38M7	641
SVP2CM38M38M9	641
SVX2C100G12	648
SVX2C15G18	648
SVX2C25G14	648
SVX2C30G18	648
SVX2C40G14	648
SVX2C50G38	648
SVX2C64G12	648
SVX2C64G38	648
SVX3C15G18	648
SVX3C25G14	648
SVX3C40G14	648
SXC04G01	86
SXC04G02	86
SXC04M5	86
SXC04R01	86
SXC04R02	86
SXC06G01	86
SXC06G02	86
SXC06M5	86
SXC06R01	86
SXC06R02	86
SXC08G01	86
SXC08G02	86
SXC08G03	86
SXC08R01	86
SXC08R02	86
SXC08R03	86
SXC10G02	86
SXC10G03	86
SXC10R02	86
SXC10R03	86
SXC12G02	86
SXC12G03	86
SXC12G04	86
SXC12R02	86
SXC12R03	86
SXC12R04	86
SXC14G04	86
SXC14R04	86
SXC16G04	86
SXGJ0604	91
SXGJ0804	91
SXGJ0806	91
SXGJ1006	91
SXGJ1008	91
SXGJ1208	91
SXGJ1210	91
SXGJ1412	91
SXGJ1612	91
SXL04G01	88
SXL04G02	88
SXL04M5	88
SXL04R01	87
SXL04R02	87
SXL06G01	88
SXL06G02	88
SXL06M5	88
SXL06R01	87
SXL06R02	87
SXL08G01	88
SXL08G02	88
SXL08G03	88
SXL08R01	87
SXL08R02	87
SXL08R03	87
SXL10G02	88
SXL10G03	88
SXL10R02	87
SXL10R03	87
SXL12G02	88
SXL12G03	88
SXL12G04	88
SXL12R02	87
SXL12R03	87
SXL12R04	87
SXL14G04	88
SXL14R03	87
SXL14R04	87

SXL16G04	88
SXME04R01	87
SXME04R02	87
SXME06R01	87
SXME06R02	87
SXME08R01	87
SXME08R02	87
SXME08R03	87
SXME10R02	87
SXME10R03	87
SXME12R02	87
SXME12R03	87
SXME12R04	87
SXME14R03	87
SXME14R04	87
SXMM0400	86
SXMM0600	86
SXMM0800	86
SXMM1000	86
SXMM1200	86
SXMM1400	86
SXMM1600	86
SXSC01-DF	115
SXSC02-DF	115
SXSC03-DF	115
SXSC04-DF	115
SXSC06G01-D	115
SXSC06G02-D	115
SXSC08G01-D	115
SXSC08G02-D	115
SXSC10G02-D	115
SXST04M5	89
SXST04R01	89
SXST04R02	89
SXST06R01	89
SXST06R02	89
SXST08R01	89
SXST08R02	89
SXST08R03	89
SXST10R02	89
SXST10R03	89
SXST12R02	89
SXST12R03	89
SXST12R04	89
SXST14R03	89
SXST14R04	89
SXT04G01	89
SXT04G02	89
SXT04M5	89
SXT04R01	88
SXT04R02	88
SXT06G01	89
SXT06G02	89
SXT06R01	88
SXT06R02	88
SXT08G01	89
SXT08G02	89
SXT08G03	89
SXT08R01	88
SXT08R02	88
SXT08R03	88
SXT10G02	89
SXT10G03	89
SXT10R02	88
SXT10R03	88
SXT12G02	89
SXT12G03	89
SXT12G04	89
SXT12R02	88
SXT12R03	88
SXT12R04	88
SXT14G03	89
SXT14G04	89
SXT14R03	88
SXT14R04	88
SXT16G04	89
SXTA04G01	90
SXTA04G02	90
SXTA04M5	90
SXTA06G01	90
SXTA06G02	90
SXTA08G01	90
SXTA08G02	90
SXTA10G02	90
SXTA10G03	90
SXTA12G02	90
SXTA12G03	90
SXTA12G04	90
SXTA14G03	90
SXTA14G04	90
SXTA16G04	90
SXTR04R01	90
SXTR04R02	90
SXTR06R01	90
SXTR06R02	90
SXTR08R01	90
SXTR08R02	90
SXTR08R03	90
SXTR10R02	90
SXTR10R03	90
SXTR12R02	90
SXTR12R03	90
SXTR12R04	90
SXTR14R03	90
SXTR14R04	90
SXUC0400	90
SXUC0600	90
SXUC0800	90
SXUC1000	90
SXUC1200	90
SXUC1400	90
SXUC1600	90
SXUL0400	91
SXUL0600	91
SXUL0800	91
SXUL1000	91
SXUL1200	91
SXUL1400	91
SXUL1600	91
SXUT0400	91
SXUT0600	91
SXUT0800	91
SXUT1000	91
SXUT1200	91
SXUT1400	91
SXUT1600	91
TR1213P	39
TR-AFBC3/8-10MM	712
TR-AFBC5/16-8MM	712
TT16	711
UCES060410AZ	707
UCES060410GL	707
UCES080510AZ	707
UCES080510GL	707
UCES080525AZ	707
UCES080525GL	707
UCES106510AZ	707
UCES106510GL	707
UCES106525AZ	707
UCES106525GL	707
UCES106575AZ	707
UCES106575GL	707
UCES120810AZ	707
UCES120810GL	707
UCES120825AZ	707
UCES120825GL	707
UCES120875AZ	707
UCES120875GL	707
UCK0604035AZ-1050	708
UCK0604050AZ-1050	708
UCK0604075AZ-1050	708
UCK0604075GL-1050	708
UCK0805035AZ-1050	708
UCK0805035GL-1050	708
UCK0805050AZ-1050	708
UCK0805050GL-1050	708
UCK0805075AZ-1050	708
UCK0805075GL-1050	708
UCK1065035AZ-1050	708
UCK1065035GL-1050	708
UCK1065050AZ-1050	708
UCK1065050GL-1050	708
UCK1208035AZ-1050	708
UCK1208035GL-1050	708
UCK1208050AZ-1050	708
UCK1208050GL-1050	708
UG100	584
UG150	584
UG250	584
UG400	584
UGPR	584
UGPT-7	586
WLM12122-NE	724
WTCV04	39
WTCV06	39
WTRC04G01	8
WTRC04G02	8
WTRC04M5	8
WTRC04M6	8
WTRC04M7	8
WTRC04R01	8
WTRC04R02	8
WTRC06G01	8
WTRC06G02	8
WTRC06G03	8
WTRC06G04	8
WTRC06M5	8
WTRC06M6	8
WTRC06M7	8
WTRC06R01	8
WTRC06R02	8
WTRC06R03	8
WTRC06R04	8
WTRC08G01	8
WTRC08G02	8
WTRC08G03	8
WTRC08G04	8
WTRC08R01	8
WTRC08R02	8
WTRC08R03	8
WTRC08R04	8
WTRC10G01	8
WTRC10G02	8
WTRC10G03	8
WTRC10G04	8
WTRC10R01	8
WTRC10R02	8
WTRC10R03	8
WTRC10R04	8
WTRC12G02	8
WTRC12G03	8
WTRC12G04	8
WTRC1-2N02	9
WTRC1-2N03	9
WTRC1-2N04	9
WTRC12R02	8

WTRC12R03	8
WTRC12R04	8
WTRC14G03	8
WTRC14G04	8
WTRC1-4N01	9
WTRC1-4N02	9
WTRC1-4N03	9
WTRC1-4UF1032	9
WTRC16G03	8
WTRC16G04	8
WTRC16R03	8
WTRC16R04	8
WTRC316N01	9
WTRC316N02	9
WTRC316N03	9
WTRC316UF1032	9
WTRC38N01	9
WTRC38N02	9
WTRC38N03	9
WTRC38N04	9
WTRC516N01	9
WTRC516N02	9
WTRC516N03	9
WTRC532N01	9
WTRC532N02	9
WTRC532UF1032	9
WTRCF04G01	11
WTRCF04G02	11
WTRCF06G01	11
WTRCF06G02	11
WTRCF06G03	11
WTRCF08G01	11
WTRCF08G02	11
WTRCF08G03	11
WTRCF08G04	11
WTRCF10G01	11
WTRCF10G02	11
WTRCF10G03	11
WTRCF10G04	11
WTRCF12G02	11
WTRCF12G03	11
WTRCF12G04	11
WTRCF1-2N02	11
WTRCF1-2N03	11
WTRCF1-4N01	11
WTRCF1-4N02	11
WTRCF316N01	11
WTRCF316N02	11
WTRCF38N02	11
WTRCF38N03	11
WTRCF516N01	11
WTRCF516N02	11
WTRCF516N03	11
WTRCF532N01	11
WTRCF532N02	11
WTRFR04G01	105
WTRFR04G01-IN	105
WTRFR04G02	105
WTRFR04G02-IN	105
WTRFR04M5	105
WTRFR04M5-IN	105
WTRFR04R01	104
WTRFR04R01-IN	104
WTRFR04R02	104
WTRFR04R02-IN	104
WTRFR06G01	105
WTRFR06G01-IN	105
WTRFR06G02	105
WTRFR06G02-IN	105
WTRFR06G03	105
WTRFR06G03-IN	105
WTRFR06G04	105
WTRFR06G04-IN	105
WTRFR06M5	105
WTRFR06M5-IN	105
WTRFR06R01	104
WTRFR06R01-IN	104
WTRFR06R02	104
WTRFR06R02-IN	104
WTRFR06R03	104
WTRFR06R03-IN	104
WTRFR06R04	104
WTRFR06R04-IN	104
WTRFR08G01	105
WTRFR08G01-IN	105
WTRFR08G02	105
WTRFR08G02-IN	105
WTRFR08G03	105
WTRFR08G03-IN	105
WTRFR08G04	105
WTRFR08G04-IN	105
WTRFR08R01	104
WTRFR08R01-IN	104
WTRFR08R02	104
WTRFR08R02-IN	104
WTRFR08R03	104
WTRFR08R03-IN	104
WTRFR08R04	104
WTRFR08R04-IN	104
WTRFR10G01	105
WTRFR10G01-IN	105
WTRFR10G02	105
WTRFR10G02-IN	105
WTRFR10G03	105
WTRFR10G03-IN	105
WTRFR10G04	105
WTRFR10G04-IN	105
WTRFR10R01	104
WTRFR10R01-IN	104
WTRFR10R02	104
WTRFR10R02-IN	104
WTRFR10R03	104
WTRFR10R03-IN	104
WTRFR10R04	104
WTRFR10R04-IN	104
WTRFR12G02	105
WTRFR12G02-IN	105
WTRFR12G03	105
WTRFR12G03-IN	105
WTRFR12G04	105
WTRFR12G04-IN	105
WTRFR1-2N02	106
WTRFR1-2N02-IN	106
WTRFR1-2N03	106
WTRFR1-2N03-IN	106
WTRFR12R02	104
WTRFR12R02-IN	104
WTRFR12R03	104
WTRFR12R03-IN	104
WTRFR12R04	104
WTRFR12R04-IN	104
WTRFR1-4N01	106
WTRFR1-4N01-IN	106
WTRFR1-4N02	106
WTRFR1-4N02-IN	106
WTRFR1-4N03	106
WTRFR1-4N03-IN	106
WTRFR1-4UF1032	106
WTRFR1-4UF1032-IN	106
WTRFR38N02	106
WTRFR38N02-IN	106
WTRFR38N03	106
WTRFR38N03-IN	106
WTRFR38N04	106
WTRFR38N04-IN	106
WTRFR516N01	106
WTRFR516N01-IN	106
WTRFR516N02	106
WTRFR516N02-IN	106
WTRFR516N03	106
WTRFR516N03-IN	106
WTRFR532N01	106
WTRFR532N01-IN	106
WTRFR532UF1032	106
WTRFR532UF1032-IN	106
WTRG0604	30
WTRG0805	30
WTRG0806	30
WTRG1007	30
WTRG1008	30
WTRG1207	30
WTRG1208	30
WTRG1210	30
WTRG1-2-38	30
WTRG1410	30
WTRG1412	30
WTRG1-4-316	30
WTRG1-4-532	30
WTRG1610	30
WTRG1612	30
WTRG1614	30
WTRG316-532	30
WTRG38-516	30
WTRG516-1-4	30
WTRGJ0604	34
WTRGJ0804	34
WTRGJ0806	34
WTRGJ1006	34
WTRGJ1008	34
WTRGJ1206	34
WTRGJ1208	34
WTRGJ1210	34
WTRGJ1-2-1-4	35
WTRGJ1-2-38	35
WTRGJ1-2-516	35
WTRGJ1-4-532	35
WTRGJ38-1-4	35
WTRGJ38-516	35
WTRGJ516-1-4	35
WTRGJ516-532	35
WTRGT0604	31
WTRGT0806	31
WTRGT1008	31
WTRGT1210	31
WTRGT1-2-38	32
WTRGT1-4-532	32
WTRGT1612	31
WTRGT38-516	32
WTRGT516-1-4	32
WTRH04G01	21
WTRH04M5	21
WTRH04M6	21
WTRH04R01	20
WTRH04R02	20
WTRH06G01	21
WTRH06G02	21
WTRH06M5	21
WTRH06M6	21
WTRH06R01	20
WTRH06R02	20
WTRH06R03	20
WTRH08G01	21
WTRH08G02	21
WTRH08G03	21
WTRH08R01	20
WTRH08R02	20

WTRH08R03	20
WTRH08R04	20
WTRH10G02	21
WTRH10G03	21
WTRH10R02	20
WTRH10R03	20
WTRH10R04	20
WTRH12G03	21
WTRH12G04	21
WTRH1-2N03	21
WTRH1-2N04	21
WTRH12R02	20
WTRH12R03	20
WTRH12R04	20
WTRH1-4N01	21
WTRH1-4N02	21
WTRH316N01	21
WTRH316N02	21
WTRH38N02	21
WTRH38N03	21
WTRH516N01	21
WTRH516N02	21
WTRH516N03	21
WTRHF04G01	22
WTRHF04M5	22
WTRHF04M6	22
WTRHF04R01	22
WTRHF04R02	22
WTRHF06G01	22
WTRHF06G02	22
WTRHF06M5	22
WTRHF06M6	22
WTRHF06R01	22
WTRHF06R02	22
WTRHF06R03	22
WTRHF08G01	22
WTRHF08G02	22
WTRHF08G03	22
WTRHF08R01	22
WTRHF08R02	22
WTRHF08R03	22
WTRHF08R04	22
WTRHF10G02	22
WTRHF10G03	22
WTRHF10R02	22
WTRHF10R03	22
WTRHF10R04	22
WTRHF12G03	22
WTRHF12G04	22
WTRHF1-2N03	23
WTRHF1-2N04	23
WTRHF12R02	22
WTRHF12R03	22
WTRHF12R04	22
WTRHF1-4N01	23
WTRHF1-4N02	23
WTRHF316N01	23
WTRHF316N02	23
WTRHF316UF1032	23
WTRHF38N02	23
WTRHF38N03	23
WTRHF516N01	23
WTRHF516N02	23
WTRHF516N03	23
WTRHF532N01	23
WTRHF532UF1032	23
WTRIG0604	38
WTRIG0806	38
WTRIG1008	38
WTRIG1210	38
WTRIG1-2-38	38
WTRIG1-4-316	38
WTRIG1-4-532	38
WTRIG1612	38
WTRIG316-532	38
WTRIG38-516	38
WTRIG516-1-4	38
WTRIJ04	38
WTRIJ06	38
WTRIJ08	38
WTRIJ10	38
WTRIJ12	38
WTRIJ1-2	38
WTRIJ1-4	38
WTRIJ16	38
WTRIJ316	38
WTRIJ38	38
WTRIJ516	38
WTRIJ532	38
WTRK04	33
WTRK06	33
WTRK08	33
WTRK1-4	34
WTRK316	34
WTRK516	34
WTRK532	34
WTRKD0604G01	28
WTRKD0604R01	28
WTRKD0804G02	28
WTRKD0804R02	28
WTRKD0806G02	28
WTRKD0806R02	28
WTRKD1008G03	28
WTRKD1008R03	28
WTRKD1-4-532N01	29
WTRKD316-532N01	29
WTRKD38-516N03	29
WTRKD516-1-4N02	29
WTRKD516-316N02	29
WTRKD516-532N02	29
WTRKG0604	34
WTRKG0804	34
WTRKG0806	34
WTRKG1006	34
WTRKG1008	34
WTRKG1-4-532	34
WTRKG316-532	34
WTRKG38-1-4	34
WTRKG38-516	34
WTRKG516-1-4	34
WTRKG516-316	34
WTRKG516-532	34
WTRKJ0604	37
WTRKJ0804	37
WTRKJ0806	37
WTRKJ1006	37
WTRKJ1008	37
WTRKJ1-4-532	37
WTRKJ316-532	37
WTRKJ38-1-4	37
WTRKJ38-516	37
WTRKJ516-1-4	37
WTRKJ516-316	37
WTRKJ516-532	37
WTRL04G01	15
WTRL04G02	15
WTRL04M5	15
WTRL04M6	15
WTRL04R01	14
WTRL04R02	14
WTRL06G01	15
WTRL06G02	15
WTRL06G03	15
WTRL06G04	15
WTRL06M5	15
WTRL06M6	15
WTRL06R01	14
WTRL06R02	14
WTRL06R03	14
WTRL06R04	14
WTRL08G01	15
WTRL08G02	15
WTRL08G03	15
WTRL08G04	15
WTRL08R01	14
WTRL08R02	14
WTRL08R03	14
WTRL08R04	14
WTRL10G01	15
WTRL10G02	15
WTRL10G03	15
WTRL10G04	15
WTRL10R01	14
WTRL10R02	14
WTRL10R03	14
WTRL10R04	14
WTRL12G02	15
WTRL12G03	15
WTRL12G04	15
WTRL1-2N02	16
WTRL1-2N03	16
WTRL1-2N04	16
WTRL12R02	14
WTRL12R03	14
WTRL12R04	14
WTRL14G03	15
WTRL14G04	15
WTRL1-4N01	16
WTRL1-4N02	16
WTRL1-4N03	16
WTRL14R03	14
WTRL14R04	14
WTRL1-4UF1032	16
WTRL16G03	15
WTRL16G04	15
WTRL16R03	14
WTRL16R04	14
WTRL316N01	16
WTRL316N02	16
WTRL316N03	16
WTRL316UF1032	16
WTRL38N01	16
WTRL38N02	16
WTRL38N03	16
WTRL38N04	16
WTRL516N01	16
WTRL516N02	16
WTRL516N03	16
WTRL532N01	16
WTRL532N02	16
WTRL532UF1032	16
WTRLF04G01	19
WTRLF04G02	19
WTRLF04M5	19
WTRLF04M6	19
WTRLF06G01	19
WTRLF06G02	19
WTRLF06G03	19
WTRLF06M5	19
WTRLF06M6	19
WTRLF08G01	19
WTRLF08G02	19
WTRLF08G03	19
WTRLF08G04	19
WTRLF10G01	19
WTRLF10G02	19

WTRLF10G03	19
WTRLF10G04	19
WTRLF12G02	19
WTRLF12G03	19
WTRLF12G04	19
WTRLF1-2N03	20
WTRLF1-2N04	20
WTRLF1-4N01	20
WTRLF1-4N02	20
WTRLF316N01	20
WTRLF316N02	20
WTRLF38N02	20
WTRLF38N03	20
WTRLF516N01	20
WTRLF516N02	20
WTRLF516N03	20
WTRLF532N01	20
WTRLGJ0604	35
WTRLGJ0806	35
WTRLGJ1008	35
WTRLGJ1210	35
WTRLGJ1-2-38	36
WTRLGJ1-4-316	36
WTRLGJ1-4-532	36
WTRLGJ316-532	36
WTRLGJ38-516	36
WTRLGJ516-1-4	36
WTRLH04G01	18
WTRLH04G02	18
WTRLH04M5	18
WTRLH04M6	18
WTRLH04R01	18
WTRLH04R02	18
WTRLH06G01	18
WTRLH06G02	18
WTRLH06G03	18
WTRLH06G04	18
WTRLH06M5	18
WTRLH06M6	18
WTRLH06R01	18
WTRLH06R02	18
WTRLH06R03	18
WTRLH06R04	18
WTRLH08G01	18
WTRLH08G02	18
WTRLH08G03	18
WTRLH08G04	18
WTRLH08R01	18
WTRLH08R02	18
WTRLH08R03	18
WTRLH08R04	18
WTRLH10G01	18
WTRLH10G02	18
WTRLH10G03	18
WTRLH10G04	18
WTRLH10R01	18
WTRLH10R02	18
WTRLH10R03	18
WTRLH10R04	18
WTRLH12G02	18
WTRLH12G03	18
WTRLH12G04	18
WTRLH1-2N02	19
WTRLH1-2N03	19
WTRLH1-2N04	19
WTRLH12R02	18
WTRLH12R03	18
WTRLH12R04	18
WTRLH1-4N01	19
WTRLH1-4N02	19
WTRLH1-4N03	19
WTRLH1-4UF1032	19
WTRLH316N01	19
WTRLH316N02	19
WTRLH316N03	19
WTRLH316UF1032	19
WTRLH38N01	19
WTRLH38N02	19
WTRLH38N03	19
WTRLH38N04	19
WTRLH516N01	19
WTRLH516N02	19
WTRLH516N03	19
WTRLH532N01	19
WTRLH532N02	19
WTRLH532UF1032	19
WTRLJ0400	35
WTRLJ0600	35
WTRLJ0800	35
WTRLJ1000	35
WTRLJ1-2	35
WTRLJ1200	35
WTRLJ1-4	35
WTRLJ316	35
WTRLJ38	35
WTRLJ516	35
WTRLJ532	35
WTRLL04G01	17
WTRLL04G02	17
WTRLL04M5	17
WTRLL04M6	17
WTRLL04R01	16
WTRLL04R02	16
WTRLL06G01	17
WTRLL06G02	17
WTRLL06G03	17
WTRLL06G04	17
WTRLL06M5	17
WTRLL06M6	17
WTRLL06R01	16
WTRLL06R02	16
WTRLL06R03	16
WTRLL06R04	16
WTRLL08G01	17
WTRLL08G02	17
WTRLL08G03	17
WTRLL08G04	17
WTRLL08R01	16
WTRLL08R02	16
WTRLL08R03	16
WTRLL08R04	16
WTRLL10G01	17
WTRLL10G02	17
WTRLL10G03	17
WTRLL10G04	17
WTRLL10R01	16
WTRLL10R02	16
WTRLL10R03	16
WTRLL10R04	16
WTRLL12G02	17
WTRLL12G03	17
WTRLL12G04	17
WTRLL1-2N02	17
WTRLL1-2N03	17
WTRLL1-2N04	17
WTRLL12R02	16
WTRLL12R03	16
WTRLL12R04	16
WTRLL1-4N01	17
WTRLL1-4N02	17
WTRLL1-4N03	17
WTRLL316N01	17
WTRLL316N02	17
WTRLL316N03	17
WTRLL38N02	17
WTRLL38N03	17
WTRLL38N04	17
WTRLL516N01	17
WTRLL516N02	17
WTRLL516N03	17
WTRLL532N01	17
WTRLL532UF1032	17
WTRLM04	20
WTRLM06	20
WTRLM08	20
WTRLM10	20
WTRLM12	20
WTRMF04G01	12
WTRMF04G02	12
WTRMF06G01	12
WTRMF06G02	12
WTRMF06G03	12
WTRMF08G01	12
WTRMF08G02	12
WTRMF08G03	12
WTRMF08G04	12
WTRMF10G01	12
WTRMF10G02	12
WTRMF10G03	12
WTRMF10G04	12
WTRMF12G02	12
WTRMF12G03	12
WTRMF12G04	12
WTRMF1-2N03	12
WTRMF1-2N04	12
WTRMF1-4N01	12
WTRMF1-4N02	12
WTRMF316N01	12
WTRMF316N02	12
WTRMF38N02	12
WTRMF38N03	12
WTRMF516N01	12
WTRMF516N02	12
WTRMF516N03	12
WTRMF532N01	12
WTRMM0400	13
WTRMM0400	13
WTRMM0600	13
WTRMM0600	13
WTRMM0800	13
WTRMM0800	13
WTRMM1000	13
WTRMM1000	13
WTRMM1200	13
WTRMM1200	13
WTRNSF04	106
WTRNSF06	106
WTRNSF08	106
WTRNSF10	106
WTRNSF12	106
WTRNSF1-2	107
WTRNSF1-4	107
WTRNSF316	107
WTRNSF38	107
WTRNSF516	107
WTRNSF532	107
WTROC04M5	10
WTROC04M6	10
WTROC04R01	9
WTROC04R02	9
WTROC06M5	10
WTROC06M6	10
WTROC06R01	9
WTROC06R02	9
WTROC06R03	9
WTROC08R01	9

WTROC08R02	9	WTRSL06G04	14	WTRST10G02	26	WTRT08R01	23
WTROC08R03	9	WTRSL06M5	14	WTRST10G03	26	WTRT08R02	23
WTROC08R04	9	WTRSL06M7	14	WTRST10G04	26	WTRT08R03	23
WTROC10R01	9	WTRSL06R01	13	WTRST10R01	25	WTRT08R04	23
WTROC10R02	9	WTRSL06R02	13	WTRST10R02	25	WTRT10G01	24
WTROC10R03	9	WTRSL06R03	13	WTRST10R03	25	WTRT10G02	24
WTROC10R04	9	WTRSL06R04	13	WTRST10R04	25	WTRT10G03	24
WTROC1-2N02	10	WTRSL08G01	14	WTRST12G02	26	WTRT10G04	24
WTROC1-2N03	10	WTRSL08G02	14	WTRST12G04	26	WTRT10R01	23
WTROC1-2N04	10	WTRSL08G03	14	WTRST1-2N02	26	WTRT10R02	23
WTROC12R02	9	WTRSL08G04	14	WTRST1-2N03	26	WTRT10R03	23
WTROC12R03	9	WTRSL08R01	13	WTRST1-2N04	26	WTRT10R04	23
WTROC12R04	9	WTRSL08R02	13	WTRST12R02	25	WTRT12G02	24
WTROC1-4N01	10	WTRSL08R03	13	WTRST12R03	25	WTRT12G03	24
WTROC1-4N02	10	WTRSL08R04	13	WTRST12R03	26	WTRT12G04	24
WTROC1-4UF1032	10	WTRSL10G01	14	WTRST12R04	25	WTRT1-2N02	25
WTROC38N02	10	WTRSL10G02	14	WTRST1-4N01	26	WTRT1-2N03	25
WTROC38N03	10	WTRSL10G03	14	WTRST1-4N02	26	WTRT1-2N04	25
WTROC38N04	10	WTRSL10G04	14	WTRST1-4N03	26	WTRT12R02	23
WTROC516N01	10	WTRSL10R01	13	WTRST1-4UF1032	26	WTRT12R03	23
WTROC516N02	10	WTRSL10R02	13	WTRST316N01	26	WTRT12R04	23
WTROC516N03	10	WTRSL10R03	13	WTRST316N02	26	WTRT14G03	24
WTROC532N01	10	WTRSL10R04	13	WTRST316N03	26	WTRT14G04	24
WTROC532UF1032	10	WTRSL12G02	14	WTRST316UF1032	26	WTRT1-4N01	25
WTRP04	39	WTRSL12G03	14	WTRST38N01	26	WTRT1-4N02	25
WTRP06	39	WTRSL12G04	14	WTRST38N02	26	WTRT1-4N03	25
WTRP08	39	WTRSL12R02	13	WTRST38N03	26	WTRT1-4UF1032	25
WTRP10	39	WTRSL12R03	13	WTRST38N04	26	WTRT16G03	24
WTRP12	39	WTRSL12R04	13	WTRST516N01	26	WTRT16G04	24
WTRP1-2	39	WTRST04G01	26	WTRST516N02	26	WTRT16R03	23
WTRP1-4	39	WTRST04G02	26	WTRST516N03	26	WTRT16R04	23
WTRP316	39	WTRST04M5	26	WTRST532N01	26	WTRT316N01	25
WTRP38	39	WTRST04M6	26	WTRST532N02	26	WTRT316N02	25
WTRP516	39	WTRST04R01	25	WTRST532UF1032	26	WTRT316N03	25
WTRP532	39	WTRST04R02	25	WTRT04G01	24	WTRT316UF1032	25
WTRPF04	37	WTRST06G01	26	WTRT04G02	24	WTRT38N01	25
WTRPF05	37	WTRST06G02	26	WTRT04M5	24	WTRT38N02	25
WTRPF06	37	WTRST06G03	26	WTRT04M6	24	WTRT38N03	25
WTRPF07	37	WTRST06G04	26	WTRT04R01	23	WTRT38N04	25
WTRPF08	37	WTRST06M5	26	WTRT04R02	23	WTRT516N01	25
WTRPF10	37	WTRST06M6	26	WTRT06G01	24	WTRT516N02	25
WTRPF12	37	WTRST06R01	25	WTRT06G02	24	WTRT516N03	25
WTRPF14	37	WTRST06R02	25	WTRT06G03	24	WTRT532N01	25
WTRPF15	37	WTRST06R03	25	WTRT06G04	24	WTRT532N02	25
WTRPF16	37	WTRST06R04	25	WTRT06M5	24	WTRT532UF1032	25
WTRSL04G01	14	WTRST08G01	26	WTRT06M6	24	WTRUC0400	29
WTRSL04G02	14	WTRST08G02	26	WTRT06R01	23	WTRUC0500	29
WTRSL04M5	14	WTRST08G03	26	WTRT06R02	23	WTRUC0600	29
WTRSL04M7	14	WTRST08G04	26	WTRT06R03	23	WTRUC0700	29
WTRSL04R01	13	WTRST08R01	25	WTRT06R04	23	WTRUC0800	29
WTRSL04R02	13	WTRST08R02	25	WTRT08G01	24	WTRUC0900	29
WTRSL06G01	14	WTRST08R03	25	WTRT08G02	24	WTRUC1000	29
WTRSL06G02	14	WTRST08R04	25	WTRT08G03	24	WTRUC1100	29
WTRSL06G03	14	WTRST10G01	26	WTRT08G04	24	WTRUC1-2	29

WTRUC1200	29
WTRUC1-4	29
WTRUC1400	29
WTRUC1500	29
WTRUC1600	29
WTRUC316	29
WTRUC38	29
WTRUC516	29
WTRUC532	29
WTRUC-PRD04	39
WTRUC-PRD06	39
WTRUC-PRD08	39
WTRUC-PRD10	39
WTRUL0400	30
WTRUL0600	30
WTRUL0800	30
WTRUL1000	30
WTRUL1-2	31
WTRUL1200	30
WTRUL1-4	31
WTRUL1400	30
WTRUL1600	30
WTRUL316	31
WTRUL38	31
WTRUL516	31
WTRUL532	31
WTRUT0400	31
WTRUT0600	31
WTRUT0800	31
WTRUT1000	31
WTRUT1-2	31
WTRUT1200	31
WTRUT1-4	31
WTRUT1400	31
WTRUT1600	31
WTRUT316	31
WTRUT38	31
WTRUT516	31
WTRUT532	31
WTRW0604	32
WTRW0806	32
WTRW1008	32
WTRW1210	32
WTRW1-2-38	33
WTRW1-4-316	33
WTRW1-4-532	33
WTRW316-532	33
WTRW38-516	33
WTRW516-1-4	33
WTRWJ0604	36
WTRWJ0806	36
WTRWJ1008	36
WTRWJ1210	36
WTRWJ1-2-38	37
WTRWJ1-4-532	37
WTRWJ38-516	37
WTRWJ516-1-4	37
WTRWT04G01	27
WTRWT04G02	27
WTRWT04M5	27
WTRWT04M6	27
WTRWT04R01	27
WTRWT04R02	27
WTRWT06G01	27
WTRWT06G02	27
WTRWT06G03	27
WTRWT06G04	27
WTRWT06M5	27
WTRWT06M6	27
WTRWT06R01	27
WTRWT06R02	27
WTRWT06R03	27
WTRWT06R04	27
WTRWT08G01	27
WTRWT08G02	27
WTRWT08G03	27
WTRWT08G04	27
WTRWT08R01	27
WTRWT08R02	27
WTRWT08R03	27
WTRWT08R04	27
WTRWT10G01	27
WTRWT10G02	27
WTRWT10G03	27
WTRWT10G04	27
WTRWT10R01	27
WTRWT10R02	27
WTRWT10R03	27
WTRWT10R04	27
WTRWT12G02	27
WTRWT12G03	27
WTRWT12G04	27
WTRWT1-2N02	28
WTRWT1-2N03	28
WTRWT1-2N04	28
WTRWT12R02	27
WTRWT12R03	27
WTRWT12R04	27
WTRWT1-4N01	28
WTRWT1-4N02	28
WTRWT1-4N03	28
WTRWT1-4UF1032	28
WTRWT316N01	28
WTRWT316N02	28
WTRWT316N03	28
WTRWT316UF1032	28
WTRWT38N01	28
WTRWT38N02	28
WTRWT38N03	28
WTRWT38N04	28
WTRWT516N01	28
WTRWT516N02	28
WTRWT516N03	28
WTRWT532N01	28
WTRWT532N02	28
WTRWT532UF1032	28
WTRY0400	32
WTRY0600	32
WTRY0800	32
WTRY1000	32
WTRY1-2	32
WTRY1200	32
WTRY1-4	32
WTRY1600	32
WTRY316	32
WTRY38	32
WTRY516	32
WTRY532	32
WTRYJ0400	36
WTRYJ0600	36
WTRYJ0800	36
WTRYJ1000	36
WTRYJ1-2	36
WTRYJ1200	36
WTRYJ1-4	36
WTRYJ316	36
WTRYJ38	36
WTRYJ516	36
WTRYJ532	36
WTRZA0400	33
WTRZA0600	33
WTRZA0800	33
WTRZA1000	33
WTRZA1-2	33
WTRZA1200	33
WTRZA1-4	33
WTRZA316	33
WTRZA38	33
WTRZA516	33
WTRZA532	33
XSFC-B01	117
XSFC-B02	117
XSFC-B03	117
XSFC-B04	117
XSFC-B-N02	117
XSFC-B-N04	117
XSFC-U01	116
XSFC-U02	116
XSFC-U03	116
XSFC-U04	116
XSFC-U-N02	116
XSFC-U-N04	116

NOTES