

89 Series

 89000 Pag. 1.5	 89010 Pag. 1.5	 89110 Pag. 1.5	 89210 Pag. 1.6	 89222 Pag. 1.6	 89000 Pag. 1.6	 89110 Pag. 1.6	 89210 Pag. 1.7	 89222 Pag. 1.7
 89030 Pag. 1.7	 89105 Pag. 1.7	 89040 Pag. 1.7	 89050 Pag. 1.8	 89130 Pag. 1.8	 89230 Pag. 1.8	 89310 Pag. 1.8	 89500 Pag. 1.8	 88610 Pag. 1.9
 89700 Pag. 1.9	 50980 Pag. 1.9	 50990 Pag. 1.9	 50006 Pag. 1.9					

METALLIC PUSH-TO-CONNECT FITTINGS FOR INCH TUBE



89 Series

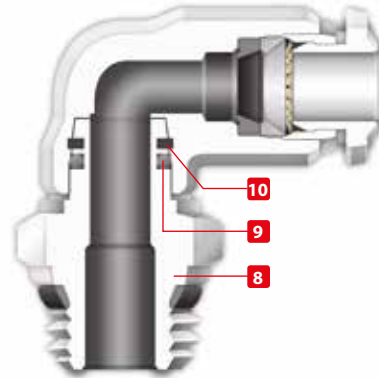
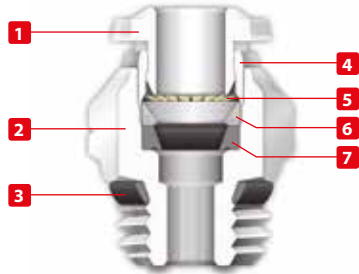


TECHNICAL CHARACTERISTICS



Reference Standard

- 1907/2006
REACH ✓
- 2011/65/CE
RoHS ✓
- PED
2014/68/UE
- ISO
14743:2004
- SILICON
FREE



Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR	EPDM on request	FKM on request
-4° F ~ 176° F	-40° F ~ 266° F	5° F ~ 266° F
-20° C ~ 80° C	-40° C ~ 130° C	-15° C ~ 130° C



Component Parts and Materials

- 1 Metallic Release Collet
- 2 Nickel Plated Brass Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Nickel Plated Thread Brass Body
- 9 NBR Seal
- 10 Safety Ring



Media

- Compressed Air
- Vacuum
- Water
- Steam (FKM required)



Tubing Compatibility

- Nylon 6 - 11 -12
- Polyethylene
- Polyurethane ("98 Shore A for best result)
- PTFE
- FEP



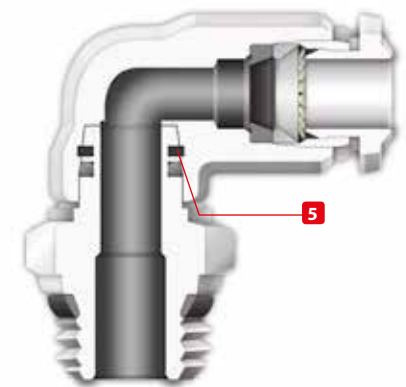
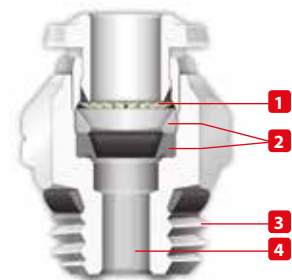
Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages:

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFTFIT
NPTF
UNF
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.
- 5 Our rotating Swivel Elbow fittings are equipped with a safety ring that enables the fitting to rotate without losing a tight seal.



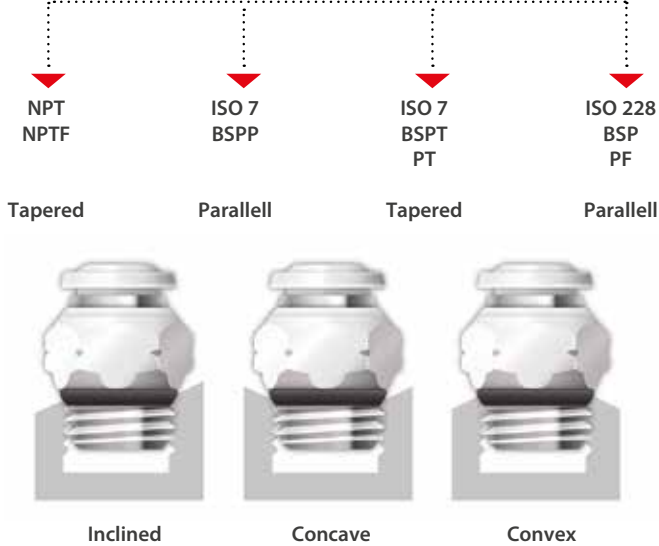


THREADS & ADVANTAGES



SWIFFFIT
Universal thread

One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



UNF Threads



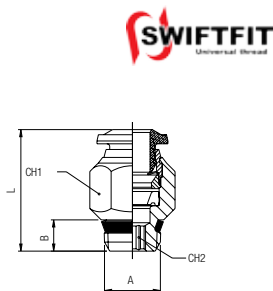
The **UNF** Thread has been designed to offer the following advantages to the end users:

- Standard USA design
- Designed for use in UNF connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

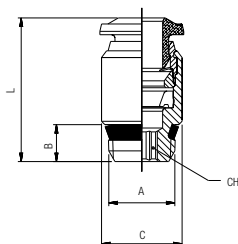
Recommended Torque		
Thread Size	Min.	Breaking torque
10/32	0.8 Nm	3.2 Nm

89000
STRAIGHT MALE



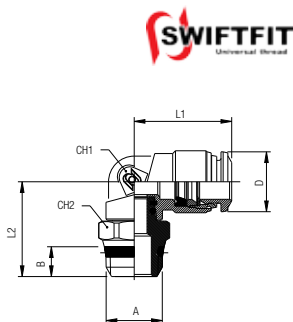
Part No.	Tube	A	B	L	CH1	CH2
89000-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.433 (11)	.079 (2)
89000-02-04	1/8	1/4	.276 (7)	.728 (18,5)	.551 (14)	.079 (2)
89000-53-02	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.433 (11)	.118 (3)
89000-53-04	5/32 (4)	1/4	.276 (7)	.748 (19)	.551 (14)	.118 (3)
89000-04-02	1/4	1/8	.217 (5,5)	.846 (21,5)	.512 (13)	.157 (4)
89000-04-04	1/4	1/4	.276 (7)	.807 (20,5)	.551 (14)	.157 (4)
89000-04-06	1/4	3/8	.295 (7,5)	.905 (23)	.669 (17)	.157 (4)
89000-05-02	5/16 (8)	1/8	.217 (5,5)	.965 (24,5)	.551 (14)	.197 (5)
89000-05-04	5/16 (8)	1/4	.276 (7)	.866 (22)	.551 (14)	.236 (6)
89000-05-06	5/16 (8)	3/8	.295 (7,5)	.906 (23)	.669 (17)	.236 (6)
89000-05-08	5/16 (8)	1/2	.354 (9)	.925 (23,5)	.827 (21)	.236 (6)
89000-06-02	3/8	1/8	.217 (5,5)	1.082 (27,5)	.669 (17)	.197 (5)
89000-06-04	3/8	1/4	.276 (7)	1.082 (27,5)	.669 (17)	.276 (7)
89000-06-06	3/8	3/8	.295 (7,5)	1.023 (25,5)	.669 (17)	.276 (7)
89000-06-08	3/8	1/2	.354 (9)	1.023 (25,5)	.827 (21)	.276 (7)
89000-08-02	1/2	1/8	.217 (5,5)	1.260 (32)	.787 (20)	.197 (5)
89000-08-04	1/2	1/4	.276 (7)	1.222 (31)	.787 (20)	.276 (7)
89000-08-06	1/2	3/8	.295 (7,5)	1.222 (31)	.787 (20)	.354 (9)
89000-08-08	1/2	1/2	.354 (9)	1.222 (31)	.827 (21)	.394 (10)

89010
STRAIGHT MALE WITH INTERNAL HEX



Part No.	Tube	A	B	C	L	CH
89010-53-02	5/32 (4)	1/8	.295 (7,5)	.394 (10)	.748 (19)	.118 (3)
89010-05-02	5/16 (8)	1/8	.295 (7,5)	.551 (14)	1.004 (25,5)	.197 (5)
89010-05-04	5/16 (8)	1/4	.433 (11)	.551 (14)	.984 (25)	.236 (6)

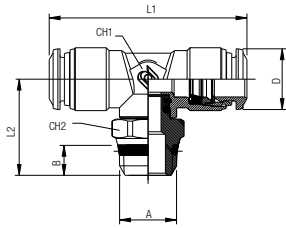
89110
SWIVEL ELBOW



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89110-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.768 (19,5)	.354 (9)	.511 (13)	.394 (10)
89110-02-04	1/8	1/4	.276 (7)	.650 (16,5)	.827 (21)	.354 (9)	.591 (15)	.394 (10)
89110-53-02	5/32 (4)	1/8	.217 (5,5)	.708 (18)	.768 (19,5)	.354 (9)	.511 (13)	.394 (10)
89110-53-04	5/32 (4)	1/4	.276 (7)	.708 (18)	.827 (21)	.354 (9)	.591 (15)	.394 (10)
89110-04-02	1/4	1/8	.217 (5,5)	.827 (21)	.846 (21,5)	.433 (11)	.511 (13)	.493 (12,5)
89110-04-04	1/4	1/4	.276 (7)	.827 (21)	.906 (23)	.433 (11)	.591 (15)	.493 (12,5)
89110-04-06	1/4	3/8	.295 (7,5)	.827 (21)	.926 (23,5)	.433 (11)	.669 (17)	.493 (12,5)
89110-05-02	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.886 (22,5)	.472 (12)	.511 (13)	.571 (14,5)
89110-05-04	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.886 (22,5)	.472 (12)	.591 (15)	.571 (14,5)
89110-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	.906 (23)	.472 (12)	.669 (17)	.571 (14,5)
89100-05-08	5/16 (8)	1/2	.354 (9)	.886 (22,5)	1.004 (25,5)	.472 (12)	.511 (13)	.571 (14,5)
89110-06-02	3/8	1/8	.217 (5,5)	1.043 (26,5)	.945 (24)	.551 (14)	.551 (14)	.669 (17,5)
89110-06-04	3/8	1/4	.276 (7)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.630 (16)	.669 (17,5)
89110-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	.965 (24,5)	.551 (14)	.669 (17)	.669 (17,5)
89110-06-08	3/8	1/2	.354 (9)	1.043 (26,5)	1.063 (27)	.551 (14)	.827 (21)	.669 (17,5)
89110-08-04	1/2	1/4	.276 (7)	1.240 (31,5)	1.130 (28,7)	.630 (16)	.630 (16)	.846 (21,5)
89110-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.043 (26,5)	.630 (16)	.669 (17)	.846 (21,5)
89110-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.142 (29)	.630 (16)	.827 (21)	.846 (21,5)

89210

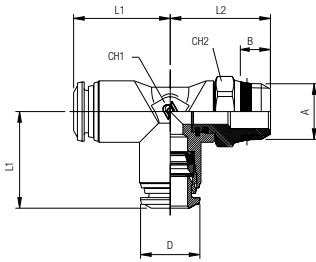
SWIVEL BRANCH TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89210-02-02	1/8	1/8	.216 (5,5)	1.338 (34)	.669 (17)	.354 (9)	.511 (13)	.394 (10)
89210-02-04	1/8	1/4	.275 (7)	1.338 (34)	.787 (20)	.354 (9)	.591 (15)	.394 (10)
89210-53-02	5/32 (4)	1/8	.216 (5,5)	1.338 (34)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
89210-53-04	5/32 (4)	1/4	.275 (7)	1.338 (34)	.846 (21,5)	.354 (9)	.591 (15)	.394 (10)
89210-04-02	1/4	1/8	.216 (5,5)	1.574 (40)	.787 (20)	.433 (11)	.511 (13)	.493 (12,5)
89210-04-04	1/4	1/4	.275 (7)	1.574 (40)	.846 (21,5)	.433 (11)	.629 (16)	.493 (12,5)
89210-04-06	1/4	3/8	.295 (7,5)	1.574 (40)	.866 (22)	.433 (11)	.669 (17)	.493 (12,5)
89210-05-02	5/16 (8)	1/8	.216 (5,5)	1.772 (45)	1.004 (25,5)	.512 (13)	.511 (13)	.571 (14,5)
89210-05-04	5/16 (8)	1/4	.275 (7)	1.772 (45)	1.004 (25,5)	.512 (13)	.591 (15)	.571 (14,5)
89210-05-06	5/16 (8)	3/8	.295 (7,5)	1.772 (45)	1.024 (26)	.512 (13)	.669 (17)	.571 (14,5)
89210-06-02	3/8	1/8	.216 (5,5)	2.047 (52)	1.043 (26,5)	.551 (14)	.551 (14)	.669 (17,5)
89210-06-04	3/8	1/4	.275 (7)	2.047 (52)	1.141 (29)	.551 (14)	.630 (16)	.669 (17,5)
89210-06-06	3/8	3/8	.295 (7,5)	2.047 (52)	1.062 (27)	.551 (14)	.669 (17)	.669 (17,5)
89210-06-08	3/8	1/2	.354 (9)	2.047 (52)	1.220 (31)	.551 (14)	.827 (21)	.669 (17,5)
89210-08-04	1/2	1/4	.275 (7)	2.402 (61)	1.240 (31,5)	.630 (16)	.630 (16)	.846 (21,5)
89210-08-06	1/2	3/8	.295 (7,5)	2.402 (61)	1.161 (29,5)	.630 (16)	.669 (17)	.846 (21,5)
89210-08-08	1/2	1/2	.354 (9)	2.402 (61)	1.259 (32)	.630 (16)	.827 (21)	.846 (21,5)

89222

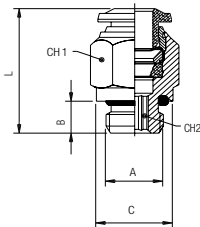
SWIVEL RUN TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89222-02-02	1/8	1/8	.216 (5,5)	.650 (16,5)	.728 (18,5)	.354 (9)	.511 (13)	.394 (10)
89222-02-04	1/8	1/4	.334 (7)	.650 (16,5)	.807 (20,5)	.354 (9)	.591 (15)	.394 (10)
89222-53-02	5/32 (4)	1/8	.216 (5,5)	.649 (17)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
89222-53-04	5/32 (4)	1/4	.275 (7)	.649 (17)	.846 (21,5)	.354 (9)	.591 (15)	.394 (10)
89222-04-02	1/4	1/8	.216 (5,5)	.846 (21,5)	.787 (20)	.433 (11)	.511 (13)	.493 (12,5)
89222-04-04	1/4	1/4	.275 (7)	.846 (21,5)	.846 (21,5)	.433 (11)	.591 (15)	.493 (12,5)
89222-04-06	1/4	3/8	.295 (7,5)	.846 (21,5)	.866 (22)	.433 (11)	.669 (17)	.493 (12,5)
89222-05-02	5/16 (8)	1/8	.216 (5,5)	.886 (22,5)	.945 (24)	.512 (13)	.511 (13)	.571 (14,5)
89222-05-04	5/16 (8)	1/4	.275 (7)	.886 (22,5)	.945 (24)	.512 (13)	.591 (15)	.571 (14,5)
89222-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	1.062 (27)	.512 (13)	.669 (17)	.571 (14,5)
89222-06-02	3/8	1/8	.216 (5,5)	1.062 (27)	1.023 (26)	.551 (14)	.551 (14)	.669 (17,5)
89222-06-04	3/8	1/4	.275 (7)	1.062 (27)	1.043 (26,5)	.551 (14)	.630 (16)	.669 (17,5)
89222-06-06	3/8	3/8	.295 (7,5)	1.062 (27)	1.062 (27)	.551 (14)	.669 (17)	.669 (17,5)
89222-06-08	3/8	1/2	.354 (9)	1.062 (27)	1.141 (29)	.551 (14)	.827 (21)	.669 (17,5)
89222-08-04	1/2	1/4	.275 (7)	1.240 (31,5)	1.240 (31,5)	.630 (16)	.630 (16)	.846 (21,5)
89222-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.240 (31,5)	.630 (16)	.787 (20)	.846 (21,5)
89222-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.279 (32,5)	.630 (16)	.827 (21)	.846 (21,5)

89000

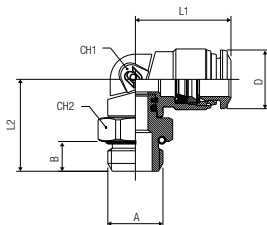
STRAIGHT MALE



Part No.	Tube	A	B	C	L	CH1	CH2
89000-02-32	1/8	10/32	.197 (5)	.310 (8)	.748 (19)	.315 (8)	.079 (2)
89000-53-32	5/32 (4)	10/32	.197 (5)	.310 (8)	.827 (21)	.394 (10)	.079 (2)
89000-04-32	1/4	10/32	.197 (5)	.390 (10)	.966 (24,5)	.512 (13)	.079 (2)

89110

SWIVEL ELBOW

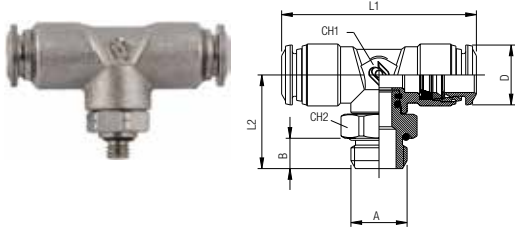


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89110-02-32	1/8	10/32	.177 (4,5)	.630 (16)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)
89110-53-32	5/32 (4)	10/32	.177 (4,5)	.689 (17,5)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)
89110-04-32	1/4	10/32	.177 (4,5)	.827 (21)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)

89210

SWIVEL BRANCH TEE

UNF

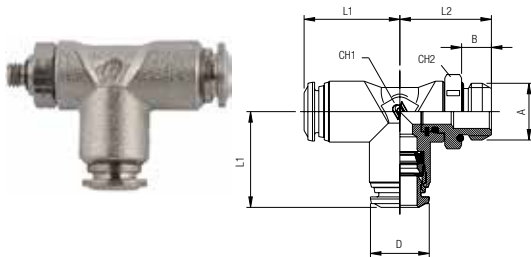


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89210-02-32	1/8	10/32	.177 (4,5)	1.300 (33)	.670 (17)	.354 (9)	.315 (8)	.394 (10)
89210-53-32	5/32 (4)	10/32	.177 (4,5)	1.339 (34)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
89210-04-32	1/4	10/32	.177 (4,5)	1.654 (42)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)

89222

SWIVEL RUN TEE

UNF

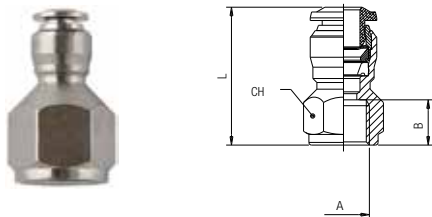


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89222-02-32	1/8	10/32	.177 (4,5)	.650 (16,5)	.670 (17)	.354 (9)	.315 (8)	.394 (10)
89222-53-32	5/32 (4)	10/32	.177 (4,5)	.670 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
89222-04-32	1/4	10/32	.177 (4,5)	.827 (21)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)

89030

STRAIGHT FEMALE

NPTF

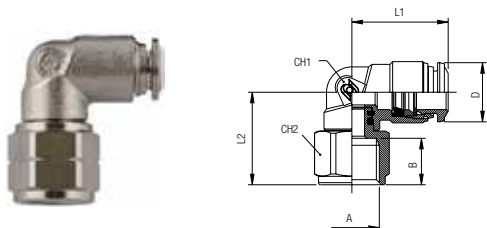


Part No.	Tube	A NPTF	B	L	CH
89030-02-02	1/8	1/8	.374 (9,5)	.945 (24)	.512 (13)
89030-02-04	1/8	1/4	.531 (13,5)	1.142 (29)	.630 (16)
89030-53-02	5/32 (4)	1/8	.374 (9,5)	.965 (24,5)	.512 (13)
89030-53-04	5/32 (4)	1/4	.531 (13,5)	1.161 (29,5)	.630 (16)
89030-04-02	1/4	1/8	.374 (9,5)	1.024 (26)	.512 (13)
89030-04-04	1/4	1/4	.531 (13,5)	1.220 (31)	.630 (16)
89030-06-04	3/8	1/4	.531 (13,5)	1.358 (34,5)	.709 (18)
89030-06-06	3/8	3/8	.531 (13,5)	1.358 (34,5)	.787 (20)

89105

FEMALE ELBOW

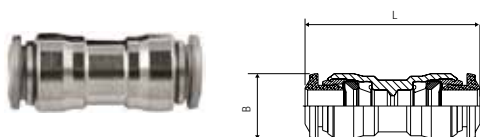
NPTF



Part No.	Tube	A NPTF	B	L1	L2	CH1	CH2	D
89105-53-02	5/32 (4)	1/8	.374 (9,5)	.688 (17,5)	.688 (17,5)	.354 (9)	.511 (13)	.394 (10)
89105-53-04	5/32 (4)	1/4	.531 (13,5)	.688 (17,5)	.787 (20)	.354 (9)	.629 (16)	.394 (10)
89105-04-02	1/4	1/8	.374 (9,5)	.846 (21,5)	.748 (19)	.433 (11)	.511 (13)	.492 (12,5)
89105-04-04	1/4	1/4	.531 (13,5)	.846 (21,5)	.846 (21,5)	.433 (11)	.629 (16)	.492 (12,5)
89105-06-02	3/8	1/8	.374 (9,5)	1.062 (27)	.905 (23)	.511 (13)	.511 (13)	.689 (17,5)
89105-06-04	3/8	1/4	.531 (13,5)	1.062 (27)	.944 (24)	.629 (16)	.629 (16)	.689 (17,5)

89040

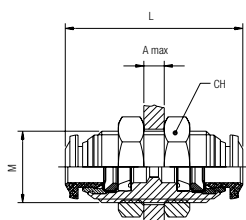
UNION



Part No.	Tube	Tube	L	B
89040-02	1/8		.334 (8,5)	1.023 (26)
89040-53	5/32 (4)		.413 (10,5)	1.200 (30,5)
89040-04-53	1/4	5/32 (4)	.492 (12,5)	1.299 (33)
89040-04	1/4		.492 (12,5)	1.339 (34)
89040-05	5/16 (8)		.571 (14,5)	1.417 (36)
89040-04-06	3/8	1/4	.688 (17,5)	1.614 (41)
89040-06-08	3/8	1/2	.807 (20,5)	1.850 (47)
89040-06	3/8		.688 (17,5)	1.614 (41)
89040-08	1/2		.807 (20,5)	1.850 (47)

89050

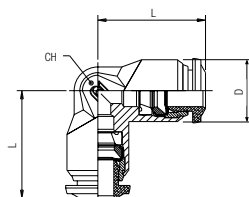
BULKHEAD UNION



Part No.	Tube	M	L	CH	A max
89050-02	1/8	M10x1	1.023 (26)	.551 (14)	.197 (5)
89050-53	5/32 (4)	M12x1	1.240 (31,5)	.669 (17)	.276 (7)
89050-04	1/4	M14x1	1.378 (35)	.669 (17)	.374 (9,5)
89050-05	5/16 (8)	M16x1	1.457 (37)	.748 (19)	.413 (10,5)
89050-06	3/8	M20x1	1.693 (42)	.945 (24)	.492 (12,5)
89050-08	1/2	M22x1	1.890 (48)	1.024 (26)	.650 (16,5)

89130

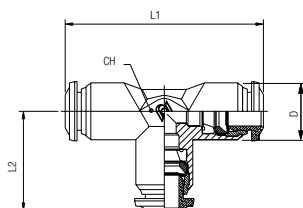
ELBOW UNION



Part No.	Tube	L	CH	D
89130-02	1/8	.649 (16,5)	.354 (9)	.394 (10)
89130-53	5/32 (4)	.669 (17)	.354 (9)	.394 (10)
89130-04	1/4	.826 (21)	.433 (11)	.492 (12,5)
89130-05	5/16 (8)	.886 (22,5)	.512 (13)	.551 (14)
89130-06	3/8	1.024 (26)	.630 (16)	.689 (17,5)
89130-08	1/2	1.200 (30,5)	.748 (19)	.846 (21,5)

89230

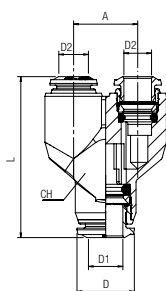
UNION TEE



Part No.	Tube	L1	L2	CH	D
89230-02	1/8	1.229 (33)	.669 (17)	.354 (9)	.394 (10)
89230-53	5/32 (4)	1.339 (34)	.669 (17)	.354 (9)	.394 (10)
89230-04	1/4	1.654 (42)	.827 (21)	.433 (11)	.492 (12,5)
89230-05	5/16 (8)	1.772 (45)	.866 (22,5)	.512 (13)	.551 (14)
89230-06	3/8	2.087 (53)	1.043 (26,5)	.630 (16)	.689 (17,5)
89230-08	1/2	2.402 (61)	1.201 (30,5)	.748 (19)	.846 (21,5)

89310

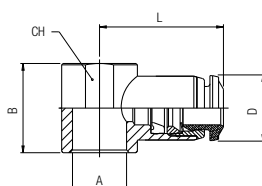
UNION Y



Part No.	Tube	A	L	CH	D
89310-02	1/8	.394 (10)	1.142 (29)	.433 (11)	.394 (10)
89310-53	5/32 (4)	.433 (11)	1.260 (32)	.433 (11)	.394 (10)
89310-04	1/4	.531 (13,5)	1.437 (36,5)	.511 (13)	.492 (12,5)
89310-05	5/16 (8)	.610 (15,5)	1.514 (41)	.511 (13)	.551 (14)
89310-06	3/8	.728 (18,5)	1.890 (48)	.708 (18)	.689 (17,5)

89500

SINGLE BANJO BODY

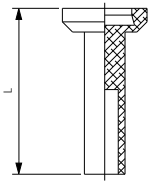


Part No.	Tube	A	B	L	CH	D
89500-02-02	1/8	1/8	.591 (15)	.748 (19)	.551 (14)	.394 (10)
89500-53-32	5/32 (4)	10/32	.492 (12,5)	.748 (19)	-	.394 (10)
89500-53-02	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)	.394 (10)
89500-04-02	1/4	1/8	.591 (15)	.886 (22,5)	.551 (14)	.492 (12,5)
89500-04-04	1/4	1/4	.669 (17)	.984 (25)	.709 (18)	.492 (12,5)
89500-05-02	5/16 (8)	1/8	.591 (15)	.945 (24)	.551 (14)	.551 (14)
89500-05-04	5/16 (8)	1/4	.669 (17)	1.024 (26)	.709 (18)	.551 (14)
89500-05-06	5/16 (8)	3/8	.787 (20)	1.102 (28)	.827 (21)	.551 (14)
89500-06-04	3/8	1/4	.669 (17)	1.142 (29)	.709 (18)	.689 (17,5)
89500-06-06	3/8	3/8	.787 (20)	1.201 (30,5)	.827 (21)	.689 (17,5)
89500-08-06	1/2	3/8	.787 (20)	1.260 (32)	.827 (21)	.846 (21,5)
89500-08-08	1/2	1/2	.945 (24)	1.378 (35)	.984 (25)	.846 (21,5)

For BANJO STEM assemblies see 10.7/10.8/10.9

88610

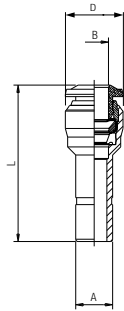
NYLON PLUG



Part No.	Tube	L
88610-02	1/8	.708 (18)
88610-53	5/32 (4)	.925 (23,5)
88610-04	1/4	.964 (24,5)
88610-05	5/16 (8)	1.023 (26)
88610-06	3/8	1.122 (28,5)
88610-08	1/2	1.122 (28,5)

89700

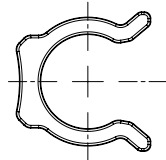
TUBE REDUCER



Part No.	A	B	L	D
89700-04-02	1/4	1/8	1.181 (30)	.394 (10)
89700-04-53	1/4	5/32 (4)	1.181 (30)	.394 (10)
89700-05-53	5/16 (8)	5/32 (4)	1.299 (33)	.394 (10)
89700-06-04	3/8	1/4	1.397 (35,5)	.492 (12,5)
89700-06-05	3/8	5/16 (8)	1.397 (35,5)	.551 (14)
89700-08-04	1/2	1/4	1.693 (43)	.492 (12,5)
89700-08-06	1/2	3/8	1.693 (43)	.689 (17,5)

50980

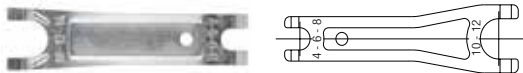
SECURITY CLIP



Part No.	Tube
50980-53	5/32 (4)
50980-04	1/4 (6)
50980-05	5/16 (8)
50980-06	3/8 (10)
50980-08	1/2 (12)

50990

TOOL FOR DISASSEMBLING



Part No.
50990

















50006

THREAD PACKING FOR THE "UNIVERSAL SHORT" TAPER THREADS



Part No.	Thread
50006-02	1/8
50006-04	1/4
50006-06	3/8
50006-08	1/2

57 Series

 57000 Pag. 2.5	 57010 Pag. 2.5	 57111 Pag. 2.5	 57211 Pag. 2.5	 57223 Pag. 2.6	 57020 Pag. 2.6	 57010 Pag. 2.6	 57030 Pag. 2.6	 57106 Pag. 2.7	
 57115 Pag. 2.7	 57125 Pag. 2.7	 57216 Pag. 2.8	 57225 Pag. 2.8	 57100 Pag. 2.8	 57200 Pag. 2.9	 57040 Pag. 2.9	 57050 Pag. 2.9	 57060 Pag. 2.9	
 57130 Pag. 2.9	 57230 Pag. 2.10	 57310 Pag. 2.10	 57500 Pag. 2.10	 57510 Pag. 2.10	 50600 Pag. 2.11	 57610 Pag. 2.11	 50625 Pag. 2.11	 57700 Pag. 2.11	
 50980 Pag. 2.12	 50990 Pag. 2.12	 50006 Pag. 2.12							

METALLIC PUSH-TO-CONNECT FITTINGS
FOR METRIC TUBE



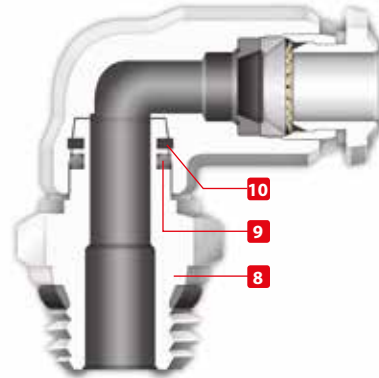
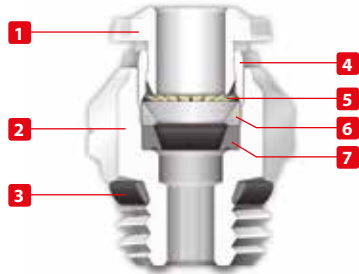


TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006 REACH ✓	2011/65/CE RoHS ✓	PED 2014/68/UE	ISO 14743:2004	SILICON FREE
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Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR	EPDM <i>on request</i>	FKM <i>on request</i>
-4° F ~ 176° F	-40° F ~ 266° F	5° F ~ 266° F
-20° C ~ 80° C	-40° C ~ 130° C	-15° C ~ 130° C



Component Parts and Materials

- 1 Metallic Release Collet
- 2 Nickel Plated Brass Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Nickel Plated Thread Brass Body
- 9 NBR Seal
- 10 Safety Ring



Media

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Tubing Compatibility

- Nylon 6 - 11 -12
- Polyethylene
- Polyurethane ("98 Shore A for best result)
- PTFE
- FEP



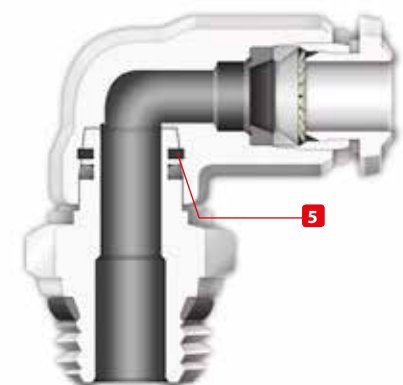
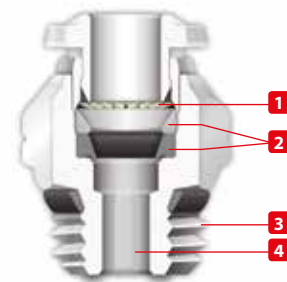
Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFTFIT
BSPP
BSPT
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.
- 5 Our rotating Swivel Elbow fittings are equipped with a safety ring that enables the fitting to rotate without losing a tight seal.



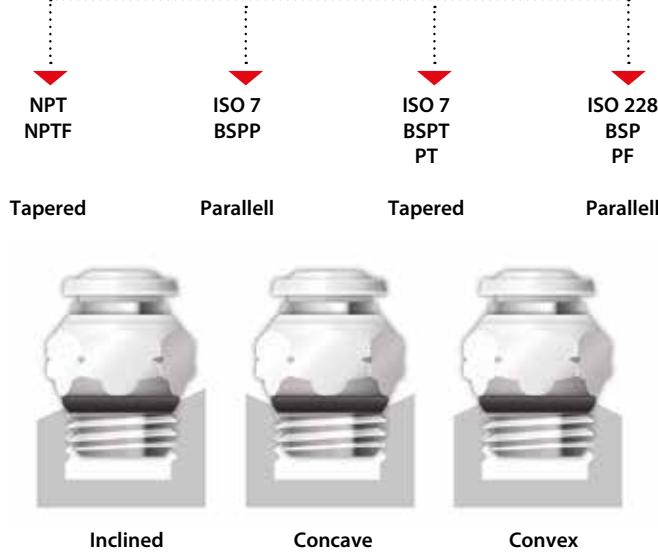


THREADS & ADVANTAGES



SWIFFFIT
Universal thread

One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



BSPP Threads



The **BSPP** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 228 and ISO R/262
- Designed for use in BSPP connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking torque
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



BSPT Thread with seal



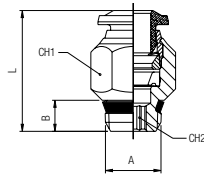
The **BSPT** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 7.1, BS 21, DN 2999
- Designed for use in BSPT and BSPP connections with an integrated NBR thread seal that provides an additional seal

Torque Specifications

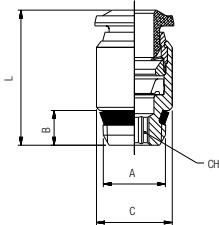
Recommended Torque		
Thread Size	Min.	Breaking torque
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm

57000
STRAIGHT MALE



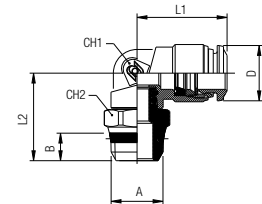
Part No.	Tube	A	B	L	CH1	CH2
89000-53-02	4 (5/32)	1/8	.216 (5,5)	.708 (18)	.433 (11)	.118 (3)
89000-53-04	4 (5/32)	1/4	.275 (7)	.748 (19)	.551 (14)	.118 (3)
57000-6-1/8	6	1/8	.216 (5,5)	.846 (21,5)	.511 (13)	.157 (4)
57000-6-1/4	6	1/4	.275 (7)	.826 (21)	.551 (14)	.157 (4)
57000-6-3/8	6	3/8	.295 (7,5)	.905 (23)	.669 (17)	.157 (4)
57000-6-1/2	6	1/2	.354 (9)	.925 (23,5)	.826 (21)	.157 (4)
89000-05-02	8 (5/16)	1/8	.216 (5,5)	.964 (24,5)	.551 (14)	.197 (5)
89000-05-04	8 (5/16)	1/4	.275 (7)	.866 (22)	.551 (14)	.236 (6)
89000-05-06	8 (5/16)	3/8	.295 (7,5)	.905 (23)	.669 (17)	.236 (6)
89000-05-08	8 (5/16)	1/2	.354 (9)	.925 (23,5)	.826 (21)	.236 (6)
57000-10-1/4	10	1/4	.275 (7)	1.102 (28)	.669 (17)	.275 (7)
57000-10-3/8	10	3/8	.295 (7,5)	1.003 (25,5)	.669 (17)	.314 (8)
57000-10-1/2	10	1/2	.354 (9)	1.023 (25,5)	.826 (21)	.314 (8)
57000-12-1/4	12	1/4	.275 (7)	1.240 (31,5)	.787 (20)	.275 (7)
57000-12-3/8	12	3/8	.295 (7,5)	1.161 (29,5)	.787 (20)	.354 (9)
57000-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	.826 (21)	.393 (10)
57000-14-3/8	14	3/8	.295 (7,5)	1.279 (32,5)	.826 (21)	.354 (9)
57000-14-1/2	14	1/2	.354 (9)	1.240 (31,5)	.826 (21)	.393 (10)

57010
STRAIGHT MALE WITH INTERNAL HEX



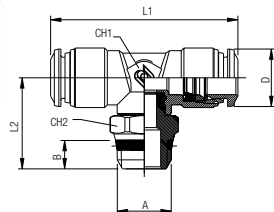
Part No.	Tube	A	B	C	L	CH
89010-53-02	5/32 (4)	1/8	.217 (5,5)	.433 (11)	.709 (18)	.118 (3)
57010-6-1/8	6	1/8	.217 (5,5)	.472 (12)	.867 (21,5)	.157 (4)
57010-6-1/4	6	1/4	.276 (7)	.551 (14)	.827 (21)	.157 (4)
89010-05-02	5/16 (8)	1/8	.217 (5,5)	.551 (14)	.984 (25)	.196 (5)
89010-05-04	5/16 (8)	1/4	.276 (7)	.551 (14)	.886 (22,5)	.236 (6)

57111
SWIVEL ELBOW



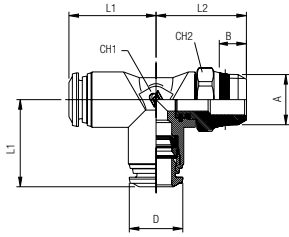
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89110-53-02	5/32 (4)	1/8	.216 (5,5)	.708 (18)	.767 (19,5)	.354 (9)	.512 (13)	.394 (10)
89110-53-04	5/32 (4)	1/4	.275 (7)	.748 (19)	.826 (21)	.354 (9)	.590 (15)	.394 (10)
57110-6-1/8	6	1/8	.216 (5,5)	.826 (21)	.846 (21,5)	.433 (11)	.512 (13)	.492 (12,5)
57110-6-1/4	6	1/4	.275 (7)	.826 (21)	.905 (23)	.433 (11)	.590 (15)	.492 (12,5)
89110-05-02	5/16 (8)	1/8	.216 (5,5)	.885 (22,5)	.885 (22,5)	.472 (12)	.512 (13)	.571 (14,5)
89110-05-04	5/16 (8)	1/4	.275 (7)	.885 (22,5)	.885 (22,5)	.472 (12)	.590 (15)	.571 (14,5)
89110-05-06	5/16 (8)	3/8	.295 (7,5)	.885 (22,5)	.905 (23)	.472 (12)	.669 (17)	.571 (14,5)
89110-05-08	5/16 (8)	1/2	.354 (9)	.885 (22,5)	1.003 (25,5)	.472 (12)	.826 (21)	.571 (14,5)
57110-10-1/4	10	1/4	.275 (7)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.629 (16)	.689 (17,5)
57110-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	.946 (24,5)	.551 (14)	.669 (17)	.689 (17,5)
57110-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	1.062 (27)	.551 (14)	.826 (21)	.689 (17,5)
57110-12-3/8	12	3/8	.295 (7,5)	1.240 (31,5)	1.043 (26,5)	.629 (16)	.787 (20)	.846 (21,5)
57110-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	1.141 (29)	.629 (16)	.826 (21)	.846 (21,5)
57110-14-3/8	14	3/8	.295 (7,5)	1.240 (31,5)	1.062 (27)	.629 (16)	.787 (20)	.846 (21,5)
57110-14-1/2	14	1/2	.354 (9)	1.240 (31,5)	1.161 (29,5)	.629 (16)	.826 (21)	.846 (21,5)

57211
SWIVEL BRANCH TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89210-53-02	5/32 (4)	1/8	.216 (5,5)	1.338 (34)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
89210-53-04	5/32 (4)	1/4	.275 (7)	1.338 (34)	.846 (21,5)	.354 (9)	.590 (15)	.394 (10)
57210-6-1/8	6	1/8	.216 (5,5)	1.653 (42)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
57210-6-1/4	6	1/4	.275 (7)	1.653 (42)	.925 (23,5)	.433 (11)	.590 (15)	.492 (12,5)
89210-05-02	5/16 (8)	1/8	.216 (5,5)	1.771 (45)	1.003 (25,5)	.511 (13)	.511 (13)	.571 (14,5)
89210-05-04	5/16 (8)	1/4	.275 (7)	1.771 (45)	1.003 (25,5)	.511 (13)	.590 (15)	.571 (14,5)
89210-05-06	5/16 (8)	3/8	.295 (7,5)	1.771 (45)	1.023 (26)	.511 (13)	.669 (17)	.571 (14,5)
57210-10-1/4	10	1/4	.275 (7)	2.086 (53)	1.141 (29)	.551 (14)	.629 (16)	.689 (17,5)
57210-10-3/8	10	3/8	.295 (7,5)	2.086 (53)	1.062 (27)	.551 (14)	.669 (17)	.689 (17,5)
57210-10-1/2	10	1/2	.354 (9)	2.086 (53)	1.161 (29,5)	.551 (14)	.826 (21)	.689 (17,5)
57210-12-3/8	12	3/8	.295 (7,5)	2.460 (62,5)	1.161 (29,5)	.629 (16)	.787 (20)	.846 (21,5)
57210-12-1/2	12	1/2	.354 (9)	2.460 (62,5)	1.259 (32)	.629 (16)	.826 (21)	.846 (21,5)

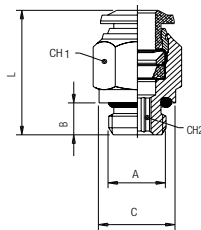
57223
SWIVEL RUN TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
89222-53-02	5/32 (4)	1/8	.216 (5,5)	.669 (17)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
89222-53-04	5/32 (4)	1/4	.275 (7)	.669 (17)	.846 (21,5)	.354 (9)	.590 (15)	.394 (10)
57222-6-1/8	6	1/8	.216 (5,5)	.826 (21)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
57222-6-1/4	6	1/4	.275 (7)	.826 (21)	.925 (23,5)	.433 (11)	.590 (15)	.492 (12,5)
89222-05-02	5/16 (8)	1/8	.216 (5,5)	.885 (22,5)	.944 (24)	.511 (13)	.511 (13)	.571 (14,5)
89222-05-04	5/16 (8)	1/4	.275 (7)	.885 (22,5)	.944 (24)	.511 (13)	.590 (15)	.571 (14,5)
89222-05-06	5/16 (8)	3/8	.295 (7,5)	.885 (22,5)	1.062 (27)	.511 (13)	.669 (17)	.571 (14,5)
57222-10-1/4	10	1/4	.275 (7)	1.043 (26,5)	1.023 (26)	.551 (14)	.629 (16)	.689 (17,5)
57222-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	1.023 (26)	.551 (14)	.669 (17)	.689 (17,5)
57222-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	1.122 (28,5)	.551 (14)	.826 (21)	.689 (17,5)
57222-12-3/8	12	3/8	.295 (7,5)	1.240 (31,5)	1.161 (29,5)	.629 (16)	.787 (20)	.847 (21,5)
57222-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	1.259 (32)	.629 (16)	.826 (21)	.847 (21,5)

57020
STRAIGHT MALE

BSP

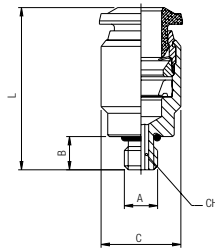


Part No.	Tube	A	B	C	L	CH1	CH2
57020-4-M5	5/32 (4)	M5	.157 (4)	.315 (8)	.827 (21)	.394 (10)	.079 (2)
57020-4-1/8	5/32 (4)	1/8	.236 (6)	.512 (13)	.787 (20)	.394 (10)	.118 (3)
57020-4-1/4	5/32 (4)	1/4	.315 (8)	.630 (16)	.768 (19,5)	.630 (16)	.118 (3)
57020-5-M5	5	M5	.157 (4)	.315 (8)	.925 (23,5)	.472 (12)	.079 (2)
57020-5-1/8	5	1/8	.236 (6)	.512 (13)	.866 (22)	.472 (12)	.157 (4)
57020-6-M5	6	M5	.157 (4)	.394 (10)	.965 (24,5)	.512 (13)	.079 (2)
57020-6-1/8	6	1/8	.236 (6)	.512 (13)	.925 (23,5)	.512 (13)	.157 (4)
57020-6-1/4	6	1/4	.315 (8)	.630 (16)	.925 (23,5)	.512 (13)	.157 (4)
57020-6-3/8	6	3/8	.354 (9)	.787 (20)	.984 (25)	.512 (13)	.157 (4)
57020-6-1/2	6	1/2	.394 (10)	.984 (25)	1.063 (27)	.512 (13)	.157 (4)
57020-8-1/8	5/16 (8)	1/8	.236 (6)	.512 (13)	.984 (25)	.551 (14)	.197 (5)
57020-8-1/4	5/16 (8)	1/4	.315 (8)	.630 (16)	.906 (23)	.551 (14)	.236 (6)
57020-8-3/8	5/16 (8)	3/8	.354 (9)	.787 (20)	.945 (24)	.551 (14)	.236 (6)
57020-8-1/2	5/16 (8)	1/2	.394 (10)	.984 (25)	1.043 (26,5)	.551 (14)	.236 (6)
57020-10-1/4	10	1/4	.315 (8)	.630 (16)	1.201 (30,5)	.669 (17)	.236 (6)
57020-10-3/8	10	3/8	.354 (9)	.787 (20)	1.083 (27,5)	.669 (17)	.315 (8)
57020-10-1/2	10	1/2	.394 (10)	.984 (25)	1.063 (27)	.669 (17)	.315 (8)
57020-12-1/4	12	1/4	.315 (8)	.630 (16)	1.358 (34,5)	.787 (20)	.236 (6)
57020-12-3/8	12	3/8	.354 (9)	.787 (20)	1.339 (34)	.787 (20)	.315 (8)
57020-12-1/2	12	1/2	.394 (10)	.984 (25)	1.220 (31)	.866 (22)	.394 (10)
57020-14-3/8	14	3/8	.354 (9)	.787 (20)	1.378 (35)	.827 (21)	.394 (10)
57020-14-1/2	14	1/2	.394 (10)	.984 (25)	1.260 (32)	.866 (22)	.394 (10)
57020-6-M12x1	6	M12X1	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
57020-6-M12x1.25	6	M12X1,25	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
57020-6-M12x1.5	6	M12X1,5	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
57020-8-M12x1.5	8	M12X1,5	.315 (8)	.591 (15)	1.083 (27,5)	.551 (14)	.236 (6)

57010

STRAIGHT MALE WITH INTERNAL HEX

BSP

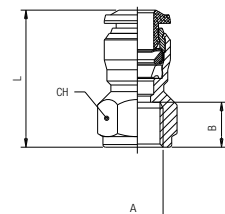


Part No.	Tube	A	B	C	L	CH
57010-4-M5	5/32 (4)	M5	.157 (4)	.394 (10)	.827 (21)	.098 (2,5)
57010-6-M5	6	M5	.157 (4)	.472 (12)	.965 (24,5)	.098 (2,5)

57030

STRAIGHT FEMALE

BSP

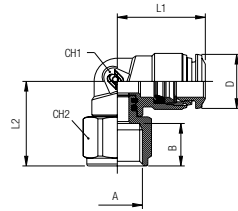


Part No.	Tube	A	B	L	CH
57030-4-M5	5/32 (4)	M5	.216 (5,5)	.826 (21)	.433 (11)
57030-4-1/8	5/32 (4)	1/8	.334 (8,5)	.944 (24)	.511 (13)
57030-4-1/4	5/32 (4)	1/4	.433 (11)	1.082 (27,5)	.629 (16)
57030-5-1/8	5	1/8	.334 (8,5)	1.043 (26,5)	.511 (13)
57030-6-1/8	6	1/8	.334 (8,5)	1.023 (26)	.511 (13)
57030-6-1/4	6	1/4	.433 (11)	1.161 (29,5)	.629 (16)
57030-8-1/8	5/16 (8)	1/8	.334 (8,5)	1.062 (27)	.590 (15)
57030-8-1/4	5/16 (8)	1/4	.433 (11)	1.161 (29,5)	.669 (17)
57030-8-3/8	5/16 (8)	3/8	.472 (12)	1.259 (32)	.748 (19)
57030-10-1/4	10	1/4	.433 (11)	1.259 (32)	.708 (18)
57030-10-3/8	10	3/8	.472 (12)	1.318 (33,5)	.748 (19)
57030-10-1/2	10	1/2	.590 (15)	1.535 (39)	.944 (24)
57030-12-3/8	12	3/8	.472 (12)	1.417 (36)	.826 (21)
57030-12-1/2	12	1/2	.590 (15)	1.614 (41)	.944 (24)

57106

FEMALE ELBOW

BSPP

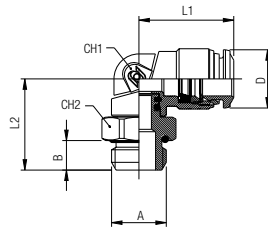


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
57105-4-1/8	5/32 (4)	1/8	.334 (8,5)	.708 (18)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
57105-4-1/4	5/32 (4)	1/4	.433 (11)	.708 (18)	.846 (21,5)	.354 (9)	.629 (16)	.394 (10)
57105-6-1/8	6	1/8	.334 (8,5)	.826 (21)	.807 (20,5)	.433 (11)	.511 (13)	.492 (12,5)
57105-6-1/4	6	1/4	.433 (11)	.826 (21)	.905 (23)	.433 (11)	.629 (16)	.492 (12,5)
57105-8-1/8	5/16 (8)	1/8	.334 (8,5)	.885 (22,5)	.807 (20,5)	.472 (12)	.511 (13)	.571 (14,5)
57105-8-1/4	5/16 (8)	1/4	.433 (11)	.885 (22,5)	.905 (23)	.472(12)	.629 (16)	.571 (14,5)

57115

SWIVEL ELBOW

BSPP

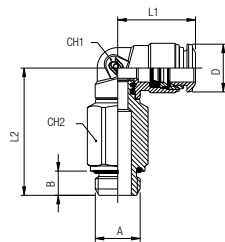


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
57115-4-M5	5/32 (4)	M5	.138 (3,5)	.709 (18)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)
57115-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.709 (18)	.354 (9)	.512 (13)	.394 (10)
57115-4-1/4	5/32 (4)	1/4	.276 (7)	.709 (18)	.709 (18)	.354 (9)	.63 (16)	.394 (10)
57115-5-M5	5	M5	.138 (3,5)	.787 (20)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)
57115-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.787 (20)	.433 (11)	.512 (13)	.492 (12,5)
57115-6-M5	6	M5	.138 (3,5)	.827 (21)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)
57115-6-1/8	6	1/8	.217 (5,5)	.827 (21)	.787 (20)	.433 (11)	.512 (13)	.492 (12,5)
57115-6-1/4	6	1/4	.276 (7)	.827 (21)	.846 (21,5)	.433 (11)	.63 (16)	.492 (12,5)
57115-8-1/8	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.827 (21)	.472 (12)	.512 (13)	.571 (14,5)
57115-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.846 (21,5)	.472 (12)	.63 (16)	.571 (14,5)
57115-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	.925 (23,5)	.472 (12)	.787 (20)	.571 (14,5)
57115-8-1/2	5/16 (8)	1/2	.374 (9,5)	.886 (22,5)	.984 (25)	.472 (12)	.984 (25)	.571 (14,5)
57115-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.004 (25,5)	.551 (14)	.63 (16)	.689 (17,5)
57115-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	.984 (25)	.551 (14)	.787 (20)	.689 (17,5)
57115-10-1/2	10	1/2	.374 (9,5)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.984 (25)	.689 (17,5)
57115-12-1/4	12	1/4	.315 (8)	1.240 (31,5)	1.083 (27,5)	.63 (16)	.787 (20)	.846 (21,5)
57115-12-3/8	12	3/8	.315 (8)	1.240 (31,5)	1.063 (27)	.63 (16)	.787 (20)	.846 (21,5)
57115-12-1/2	12	1/2	.374 (9,5)	1.240 (31,5)	1.122 (28,5)	.63 (16)	.984 (25)	.846 (21,5)
57115-14-3/8	14	3/8	.315 (8)	1.240 (31,5)	1.083 (27,5)	.63 (16)	.787 (20)	.846 (21,5)
57115-14-1/2	14	1/2	.374 (9,5)	1.240 (31,5)	1.142 (29)	.63 (16)	.984 (25)	.846 (21,5)
57115-6-M12x1	6	M12x1	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57115-6-M12x1.25	6	M12x1,25	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57115-6-M12x1.5	6	M12x1,5	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57115-8-M12x1.5	8	M12x1,5	.295 (7,5)	.886 (22,5)	.866 (22)	.472 (12)	.63 (16)	.571 (14,5)

57125

SWIVEL ELBOW

BSPP

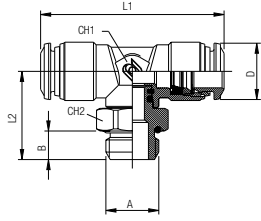


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
57125-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	1.181 (30)	.354 (9)	.472 (12)	.394 (10)
57125-4-1/4	5/32 (4)	1/4	.276 (7)	.709 (18)	1.260 (32)	.354 (9)	.591 (15)	.394 (10)
57125-5-1/8	5	1/8	.217 (5,5)	.787 (20)	1.358 (34,5)	.433 (11)	.472 (12)	.492 (12,5)
57125-6-1/8	6	1/8	.217 (5,5)	.827 (21)	1.358 (34,5)	.433 (11)	.472 (12)	.492 (12,5)
57125-6-1/4	6	1/4	.276 (7)	.827 (21)	1.417 (36)	.433 (11)	.591 (15)	.492 (12,5)
57125-8-1/8	5/16 (8)	1/8	.197 (5)	.898 (22,8)	1.476 (37,5)	.472 (12)	.472 (12)	.571 (14,5)
57125-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	1.496 (38)	.472 (12)	.591 (15)	.571 (14,5)
57125-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	1.575 (40)	.472 (12)	.709 (18)	.571 (14,5)
57125-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.772 (45)	.551 (14)	.630 (16)	.689 (17,5)
57125-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	1.752 (44,5)	.551 (14)	.709 (18)	.689 (17,5)

57216

SWIVEL BRANCH TEE

BSPP

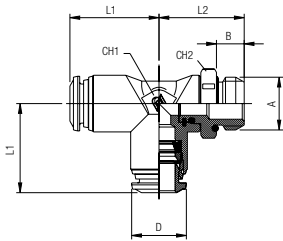


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
57215-4-M5	5/32 (4)	M5	.138 (3,5)	1.339 (34)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
57215-4-1/8	5/32 (4)	1/8	.217 (5,5)	1.339 (34)	.728 (18,5)	.354 (9)	.512 (13)	.394 (10)
57215-4-1/4	5/32 (4)	1/4	.276 (7)	1.339 (34)	.787 (20)	.354 (9)	.630 (16)	.394 (10)
57215-5-M5	5	M5	.138 (3,5)	1.575 (40)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
57215-5-1/8	5	1/8	.217 (5,5)	1.575 (40)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
57215-6-M5	6	M5	.138 (3,5)	1.654 (42)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
57215-6-1/8	6	1/8	.217 (5,5)	1.654 (42)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
57215-6-1/4	6	1/4	.276 (7)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
57215-8-1/8	5/16 (8)	1/8	.217 (5,5)	1.772 (45)	.925 (23,5)	.512 (13)	.512 (13)	.571 (14,5)
57215-8-1/4	5/16 (8)	1/4	.276 (7)	1.772 (45)	.945 (24)	.512 (13)	.630 (16)	.571 (14,5)
57215-8-3/8	5/16 (8)	3/8	.315 (8)	1.772 (45)	1.024 (26)	.512 (13)	.787 (20)	.571 (14,5)
57215-8-1/2	5/16 (8)	1/2	.374 (9,5)	1.772 (45)	1.083 (27,5)	.512 (13)	.984 (25)	.571 (14,5)
57215-10-1/4	10	1/4	.276 (7)	2.087 (53)	1.083 (27,5)	.551 (14)	.630 (16)	.689 (17,5)
57215-10-3/8	10	3/8	.315 (8)	2.087 (53)	1.063 (27)	.551 (14)	.787 (20)	.689 (17,5)
57215-10-1/2	10	1/2	.374 (9,5)	2.087 (53)	1.122 (28,5)	.551 (14)	.984 (25)	.689 (17,5)
57215-12-3/8	12	3/8	.315 (8)	2.461 (62,5)	1.161 (29,5)	.630 (16)	.787 (20)	.846 (21,5)
57215-12-1/2	12	1/2	.374 (9,5)	2.461 (62,5)	1.220 (31)	.630 (16)	.984 (25)	.846 (21,5)
57215-14-3/8	14	3/8	.315 (8)	2.461 (62,5)	1.161 (29,5)	.630 (16)	.787 (20)	.846 (21,5)
57215-14-1/2	14	1/2	.374 (9,5)	2.461 (62,5)	1.220 (31)	.630 (16)	.984 (25)	.846 (21,5)
57215-6-M12x1	6	M12x1	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
57215-6-M12x1.25	6	M12x1,25	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
57215-6-M12x1.5	6	M12x1,5	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)

57225

SWIVEL RUN TEE

BSPP

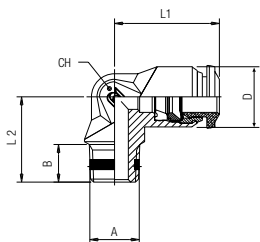


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
57225-4-M5	5/32 (4)	M5	.138 (3,5)	.669 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
57225-4-1/8	5/32 (4)	1/8	.217 (5,5)	.669 (17)	.728 (18,5)	.354 (9)	.512 (13)	.394 (10)
57225-4-1/4	5/32 (4)	1/4	.276 (7)	.669 (17)	.787 (20)	.354 (9)	.63 (16)	.394 (10)
57225-5-M5	5	M5	.138 (3,5)	.787 (20)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
57225-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
57225-6-M5	6	M5	.138 (3,5)	.827 (21)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
57225-6-1/8	6	1/8	.217 (5,5)	.827 (21)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
57225-6-1/4	6	1/4	.276 (7)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57225-8-1/8	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.886 (22,5)	.512 (13)	.512 (13)	.571 (14,5)
57225-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.906 (23)	.512 (13)	.63 (16)	.571 (14,5)
57225-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	.984 (25)	.512 (13)	.787 (20)	.571 (14,5)
57225-8-1/2	5/16 (8)	1/2	.374 (9,5)	.886 (22,5)	1.043 (26,5)	.512 (13)	.984 (25)	.571 (14,5)
57225-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.063 (27)	.551 (14)	.63 (16)	.689 (17,5)
57225-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.787 (20)	.689 (17,5)
57225-10-1/2	10	1/2	.374 (9,5)	1.043 (26,5)	1.102 (28)	.551 (14)	.984 (25)	.689 (17,5)
57225-12-3/8	12	3/8	.315 (8)	1.240 (31,5)	1.161 (29,5)	.63 (16)	.787 (20)	.846 (21,5)
57225-12-1/2	12	1/2	.374 (9,5)	1.240 (31,5)	1.220 (31)	.63 (16)	.984 (25)	.846 (21,5)
57225-6-M12x1	6	M12x1	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57225-6-M12x1.25	6	M12x1,25	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
57225-6-M12x1.5	6	M12x1,5	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)

57100

FIXED ELBOW

BSPT

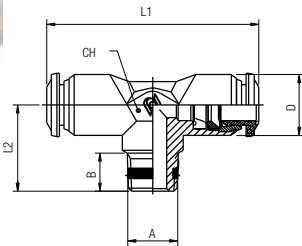


Part No.	Tube	A	B	L1	L2	CH	D
57100-4-M5	5/32 (4)	M5	.197 (5)	.669 (17)	.591 (15)	.354 (9)	.394 (10)
57100-4-1/8	5/32 (4)	1/8	.295 (7,5)	.669 (17)	.61 (15,5)	.354 (9)	.394 (10)
57100-5-M5	5	M5	.197 (5)	.787 (20)	.669 (17)	.433 (11)	.492 (12,5)
57100-5-1/8	5	1/8	.295 (7,5)	.787 (20)	.689 (17,5)	.433 (11)	.492 (12,5)
57100-6-1/8	6	1/8	.295 (7,5)	.827 (21)	.689 (17,5)	.433 (11)	.492 (12,5)
57100-6-1/4	6	1/4	.433 (11)	.827 (21)	.846 (21,5)	.433 (11)	.492 (12,5)
57100-8-1/8	5/16 (8)	1/8	.295 (7,5)	.886 (22,5)	.748 (19)	.512 (13)	.551 (14)
57100-8-1/4	5/16 (8)	1/4	.433 (11)	.886 (22,5)	.846 (21,5)	.512 (13)	.551 (14)
57100-10-1/4	10	1/4	.433 (11)	1.043 (26,5)	.965 (24,5)	.63 (16)	.669 (17)
57100-10-3/8	10	3/8	.453 (11,5)	1.043 (26,5)	.945 (24)	.63 (16)	.669 (17)
57100-12-1/4	12	1/4	.433 (11)	1.201 (30,5)	1.201 (28)	.748 (19)	.846 (21,5)
57100-12-3/8	12	3/8	.453 (11,5)	1.201 (30,5)	1.201 (28)	.748 (19)	.846 (21,5)

57200

FIXED BRANCH TEE

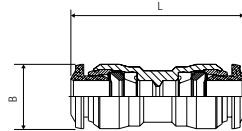
BSPT



Part No.	Tube	A	B	L1	L2	CH	D
57200-4-M5	5/32 (4)	M5	.197 (5)	1.339 (34)	.591 (15)	.354 (9)	.394 (10)
57200-4-1/8	5/32 (4)	1/8	.295 (7,5)	1.339 (34)	.61 (15,5)	.354 (9)	.394 (10)
57200-5-1/8	5	1/8	.295 (7,5)	1.575 (40)	.689 (17,5)	.433 (11)	.492 (12,5)
57200-6-1/8	6	1/8	.295 (7,5)	1.654 (42)	.689 (17,5)	.433 (11)	.492 (12,5)
57200-8-1/8	5/16 (8)	1/8	.295 (7,5)	1.772 (45)	.748 (19)	.512 (13)	.551 (14)
57200-8-1/4	5/16 (8)	1/4	.433 (11)	1.772 (45)	.846 (21,5)	.512 (13)	.551 (14)
57200-10-1/4	10	1/4	.433 (11)	2.087 (53)	.965 (24,5)	.63 (16)	.669 (17)
57200-10-3/8	10	3/8	.453 (11,5)	2.087 (53)	.945 (24)	.63 (16)	.669 (17)
57200-12-1/4	12	1/4	.433 (11)	2.402 (61)	1.102 (28)	.748 (19)	.846 (21,5)
57200-12-3/8	12	3/8	.453 (11,5)	2.402 (61)	1.102 (28)	.748 (19)	.846 (21,5)

57040

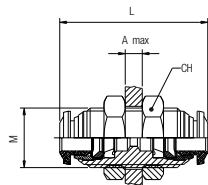
UNION



Part No.	Tube	Tube	L	B
89040-53	5/32 (4)		1.200 (30,5)	.413 (10,5)
57040-5	5		1.299 (33)	.453 (11,5)
57040-6-4	6	5/32 (4)	1.259 (32)	.492 (12,5)
57040-6	6		1.338 (34)	.492 (12,5)
57040-8-6	5/16 (8)	6	1.377 (35)	.571 (14,5)
89040-05	5/16 (8)		1.417 (36)	.571 (14,5)
57040-10-8	10	5/16 (8)	1.594 (40,5)	.689 (17,5)
57040-10	10		1.653 (42)	.689 (17,5)
57040-12-10	12	10	1.791 (45,5)	.807 (20,5)
57040-12	12		1.850 (47)	.807 (20,5)
57040-14	14		1.929 (49)	.846 (21,5)

57050

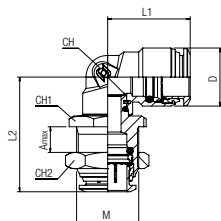
BULKHEAD UNION



Part No.	Tube	M	L	CH	A max
89050-53	5/32 (4)	M12x1	1.240 (31,5)	.669 (17)	.275 (7)
57050-5	5	M14x1	1.299 (33)	.669 (17)	.275 (7)
57050-6	6	M14x1	1.377 (35)	.669 (17)	.374 (9,5)
89050-05	5/16 (8)	M16x1	1.456 (37)	.748 (19)	.413 (10,5)
57050-10	10	M20x1	1.692 (42)	.944 (24)	.492 (12,5)
57050-12	12	M22x1	1.889 (48)	1.023 (26)	.649 (16,5)

57060

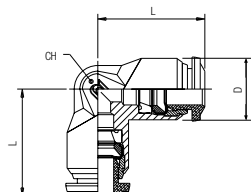
SWIVEL ELBOW BULKHEAD



Part No.	Tube	M	L1	L2	CH	CH1	CH2	Amax	D
57060-4-M12	5/32 (4)	M12x1	.689 (17,5)	1.024 (26)	.354 (9)	.551 (14)	.669 (17)	.236 (6)	.394 (10)
57060-6-M14x1	6	M14x1	.846 (21,5)	1.220 (31)	.433 (11)	.669 (17)	.669 (17)	.256 (6,5)	.492 (12,5)
57060-8-M16x1	5/16 (8)	M16x1	.866 (22)	1.339 (34)	.472 (12)	.709 (18)	.748 (19)	.256 (6,5)	.571 (14,5)
57060-10-M20x1	10	M20x1	1.043 (26,5)	1.417 (36)	.551 (14)	.866 (22)	.945 (24)	.295 (7,5)	.689 (17,5)
57060-12-M22x1	12	M22x1	1.201 (30,5)	1.693 (43)	.63 (16)	.945 (24)	1.024 (26)	.354 (9)	.846 (21,5)
57060-14-M23x1	14	M23x1	1.201 (30,5)	1.693 (43)	.63 (16)	.984 (25)	1.063 (27)	.374 (9,5)	.846 (21,5)

57130

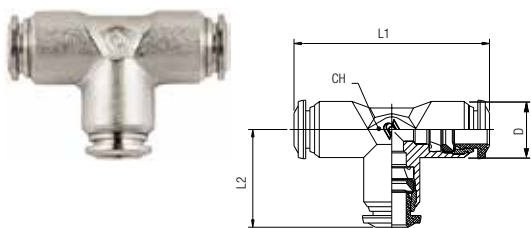
UNION ELBOW



Part No.	Tube	L	CH	D
89130-53	5/32 (4)	.669 (17)	.354 (9)	.394 (10)
57130-6	5	.787 (20)	.433 (11)	.492 (12,5)
89130-05	6	.826 (21)	.433 (11)	.492 (12,5)
57130-10	5/16 (8)	.885 (22,5)	.511 (13)	.571 (14,5)
57130-12	10	1.043 (26,5)	.629 (16)	.689 (17,5)
57130-5	12	1.200 (30,5)	.748 (19)	.846 (21,5)
57130-14	14	1.279 (32,5)	.748 (19)	.846 (21,5)

57230

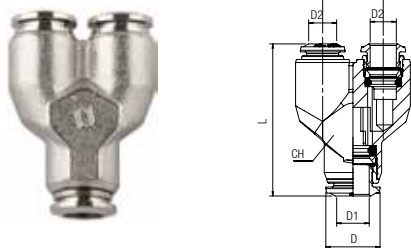
UNION TEE



Part No.	Tube	L1	L2	CH	D
89230-53	5/32 (4)	1.338 (34)	.669 (17)	.354 (9)	.394 (10)
57230-5	5	1.574 (40)	.787 (20)	.433 (11)	.492 (12,5)
57230-6	6	1.653 (42)	.826 (21)	.433 (11)	.492 (12,5)
89230-05	5/16 (8)	1.771 (45)	.885 (22,5)	.511 (13)	.551 (14)
57230-10	10	2.086 (53)	1.043 (26,5)	.629 (16)	.669 (17)
57230-12	12	2.401 (61)	1.200 (30,5)	.748 (19)	.847 (21,5)
57230-14	14	2.578 (65,5)	1.279 (32,5)	.748 (19)	.847 (21,5)

57310

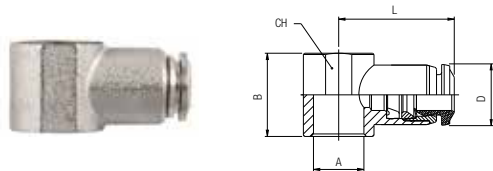
UNION Y



Part No.	Tube	A	L	CH	D
89310-53	5/32 (4)	.433 (11)	1.259 (32)	.433 (11)	.394 (10)
57310-5	5	.531 (13,5)	1.377 (35)	.511 (13)	.492 (12,5)
57310-6	6	.531 (13,5)	1.437 (36,5)	.511 (13)	.492 (12,5)
89310-05	5/16 (8)	.610 (15,5)	1.614 (41)	.590 (15)	.551 (14)
57310-10	10	.728 (18,5)	1.889 (48)	.708 (18)	.669 (17)

57500

SINGLE BANJO BODY

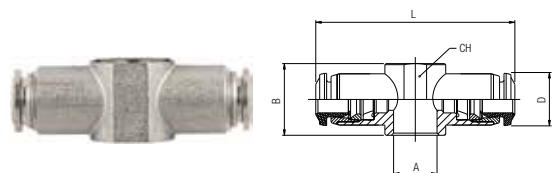


Part No.	Tube	A	B	L	CH	D
89500-53-32	5/32 (4)	M5	.492 (12,5)	.748 (19)	-	.394 (10)
57500-4-M6	5/32 (4)	M6	.492 (12,5)	.748 (19)	-	.394 (10)
89500-53-02	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)	.394 (10)
57500-5-M5	5	M5	.492 (12,5)	.787 (20)	-	.492 (12,5)
57500-5-M6	5	M6	.492 (12,5)	.787 (20)	-	.492 (12,5)
57500-5-1/8	5	1/8	.591 (15)	.846 (21,5)	.551 (14)	.492 (12,5)
57500-5-1/4	5	1/4	.669 (17)	.965 (24,5)	.709 (18)	.492 (12,5)
57500-6-M5	6	M5	.492 (12,5)	.807 (20,5)	-	.492 (12,5)
57500-6-M6	6	M6	.492 (12,5)	.807 (20,5)	-	.492 (12,5)
57500-6-1/8	6	1/8	.591 (15)	.866 (22)	.551 (14)	.492 (12,5)
57500-6-1/4	6	1/4	.669 (17)	.984 (25)	.709 (18)	.492 (12,5)
57500-8-1/8	5/16 (8)	1/8	.591 (15)	.945 (24)	.551 (14)	.551 (14)
57500-8-1/4	5/16 (8)	1/4	.669 (17)	1.024 (26)	.709 (18)	.551 (14)
57500-8-3/8	5/16 (8)	3/8	.787 (20)	1.102 (28)	.827 (21)	.551 (14)
57500-10-1/4	10	1/4	.669 (17)	1.142 (29)	.709 (18)	.669 (17)
57500-10-3/8	10	3/8	.787 (20)	1.201 (30,5)	.827 (21)	.669 (17)
57500-12-3/8	12	3/8	.787 (20)	1.280 (32,5)	.827 (21)	.846 (21,5)
57500-12-1/2	12	1/2	.945 (24)	1.378 (35)	.984 (25)	.846 (21,5)
57500-14-1/2	14	1/2	.945 (24)	1.398 (35,5)	.984 (25)	.846 (21,5)

For BANJO STEM assemblies see 10.7/10.8/10.9

57510

DOUBLE BANJO BODY



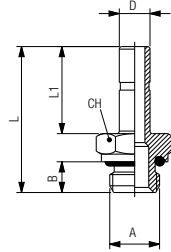
Part No.	Tube	A	B	L	CH	D
57510-4-M5	5/32 (4)	M5	.492 (12,5)	1.496 (38)	-	.394 (10)
57510-4-M6	5/32 (4)	M6	.492 (12,5)	1.496 (38)	-	.394 (10)
57510-4-1/8	5/32 (4)	1/8	.591 (15)	1.654 (42)	.551 (14)	.394 (10)
57510-5-1/8	5	1/8	.591 (15)	1.693 (43)	.551 (14)	.492 (12,5)
57510-5-1/4	5	1/4	.669 (17)	1.929 (49)	.709 (18)	.492 (12,5)
57510-6-1/8	6	1/8	.591 (15)	1.732 (44)	.551 (14)	.492 (12,5)
57510-6-1/4	6	1/4	.669 (17)	1.969 (50)	.709 (18)	.492 (12,5)
57510-8-1/8	5/16 (8)	1/8	.591 (15)	1.890 (48)	.551 (14)	.551 (14)
57510-8-1/4	5/16 (8)	1/4	.669 (17)	2.047 (52)	.709 (18)	.551 (14)

For BANJO STEM assemblies see 10.7/10.8/10.9

50600

STANDPIPE

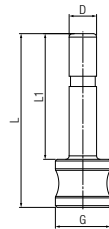
BSPB



Part No.	D	A	B	L	L1	CH
50600-4-M5	5/32 (4)	M5	.157 (4)	.945 (24)	.591 (15)	.315 (8)
50600-4-1/8	5/32 (4)	1/8	.236 (6)	1.043 (26,5)	.591 (15)	.512 (13)
50600-5-M5	5	M5	.157 (4)	1.024 (26)	.669 (17)	.315 (8)
50600-5-1/8	5	1/8	.236 (6)	1.122 (28,5)	.669 (17)	.512 (13)
50600-5-1/4	5	1/4	.315 (8)	1.220 (31)	.669 (17)	.630 (16)
50600-6-M5	6	M5	.157 (4)	1.024 (26)	.669 (17)	.315 (8)
50600-6-1/8	6	1/8	.236 (6)	1.122 (28,5)	.669 (17)	.512 (13)
50600-6-1/4	6	1/4	.315 (8)	1.220 (31)	.669 (17)	.630 (16)
50600-8-1/8	5/16 (8)	1/8	.236 (6)	1.161 (29,5)	.709 (18)	.512 (13)
50600-8-1/4	5/16 (8)	1/4	.315 (8)	1.260 (32)	.709 (18)	.630 (16)
50600-8-3/8	5/16 (8)	3/8	.354 (9)	1.319 (33,5)	.709 (18)	.787 (20)
50600-10-1/8	10	1/8	.236 (6)	1.319 (33,5)	.866 (22)	.512 (13)
50600-10-1/4	10	1/4	.315 (8)	1.417 (36)	.866 (22)	.630 (16)
50600-10-3/8	10	3/8	.354 (9)	1.476 (37,5)	.866 (22)	.787 (20)
50600-12-1/4	12	1/4	.315 (8)	1.516 (38,5)	.965 (24,5)	.630 (16)
50600-12-3/8	12	3/8	.354 (9)	1.575 (40)	.965 (24,5)	.787 (20)
50600-14-1/2	14	1/2	.394 (10)	1.732 (44)	1.043 (26,5)	.945 (24)

57610

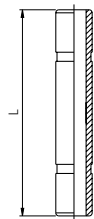
PLUG



Part No.	D	G	L	L1
57610-4	5/32 (4)	.315 (8)	1.004 (25,5)	.728 (18,5)
57610-5	5	.315 (8)	1.063 (27)	.787 (20)
57610-6	6	.315 (8)	1.083 (27,5)	.807 (20,5)
57610-8	5/16 (8)	.472 (12)	1.161 (29,5)	.846 (21,5)
57610-10	10	.472 (12)	1.280 (32,5)	.964 (24,5)
57610-12	12	.630 (16)	1.437 (36,5)	1.083 (27,5)
57610-14	14	.630 (16)	1.437 (36,5)	1.043 (26,5)

50625

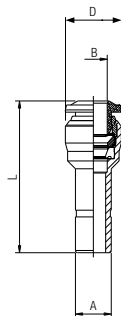
DOUBLE JOINT



Part No.	Tube	L
50625-4	5/32 (4)	1.220 (31)
50625-5	5	1.299 (33)
50625-6	6	1.339 (34)
50625-8	5/16 (8)	1.417 (36)
50625-10	10	1.772 (45)
50625-12	12	1.969 (50)

57700

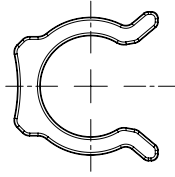
TUBE REDUCER



Part No.	A	B	L	D
57700-5-4	5	5/32 (4)	1.142 (29)	.413 (10,5)
57700-6-4	6	5/32 (4)	1.181 (30)	.413 (10,5)
57700-6-5	6	5	1.260 (32)	.435 (11,05)
89700-05-53	5/16 (8)	5/32 (4)	1.300 (33)	.413 (10,5)
57700-8-6	5/16 (8)	6	1.339 (34)	.551 (14)
57700-10-4	10	5/32 (4)	1.260 (32)	.394 (10)
57700-10-8	10	5/16 (8)	1.496 (38)	.571 (14,5)
57700-12-8	12	5/16 (8)	1.535 (39)	.571 (14,5)
57700-12-10	12	10	1.693 (43)	.690 (17,5)

50980

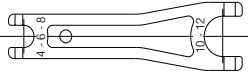
SECURITY CLIP



Part No.	Tube
50980-53	5/32 (4)
50980-04	1/4 (6)
50980-05	5/16 (8)
50980-06	3/8 (10)
50980-08	1/2 (12)

50990

TOOL FOR DISASSEMBLING



Part No.
50990

50006

THREAD PACKING FOR THE "UNIVERSAL SHORT" TAPER THREADS



Part No.	Thread
50006-02	1/8
50006-04	1/4
50006-06	3/8
50006-08	1/2

87 - 88 Series

 87000 Pag. 3.6	 87010 Pag. 3.6	 87110 Pag. 3.6	 87210 Pag. 3.6	 87222 Pag. 3.7	 88020 Pag. 3.7	 87010 Pag. 3.7	 88115 Pag. 3.7	 88215 Pag. 3.7
 88225 Pag. 3.8	 87007 Pag. 3.8	 87117 Pag. 3.8	 88000 Pag. 3.8	 88030 Pag. 3.8	 88100 Pag. 3.9	 88105 Pag. 3.9	 88110 Pag. 3.9	 88210 Pag. 3.9
 88222 Pag. 3.10	 88040 Pag. 3.10	 88050 Pag. 3.10	 88130 Pag. 3.10	 88230 Pag. 3.10	 88310 Pag. 3.11	 88500 Pag. 3.11	 88510 Pag. 3.11	 88610 Pag. 3.11
 88700 Pag. 3.11	 50980 Pag. 3.11	 87800 Pag. 3.12	 55801 Pag. 3.12	 55802 Pag. 3.12				

PUSH-TO-CONNECT FITTINGS
FOR INCH TUBE



87 - 88 Series



TECHNICAL CHARACTERISTICS



Reference Standard

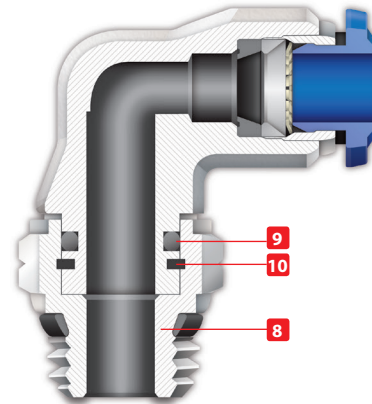
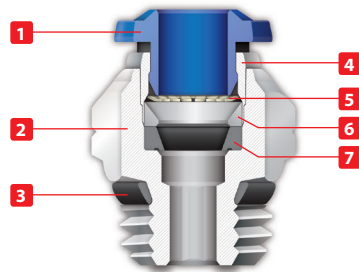
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

ISO
14743:2004

SILICON
FREE



Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR	EPDM <i>on request</i>	FKM <i>on request</i>
-4° F ~ 176° F	-40° F ~ 266° F	5° F ~ 266° F
-20° C ~ 80° C	-40° C ~ 130° C	-15° C ~ 130° C



Component Parts and Materials

- 1 Composite Release Collet
- 2 Nickel Plated Brass Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Nickel Plated Thread Brass Body
- 9 NBR Seal
- 10 Safety Ring



Media

- Compressed air
- Vacuum
- Water
- Steam (FKM required)



Tubing Compatibility

- Nylon 6 - 11 -12
- Polyethylene
- Polyurethane ("98 Shore A for best result)
- PTFE
- FEP



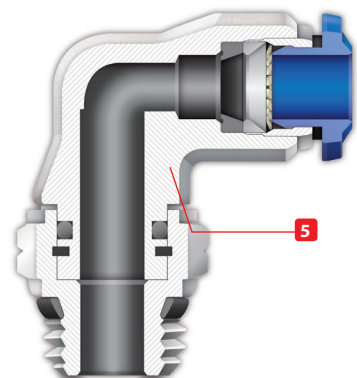
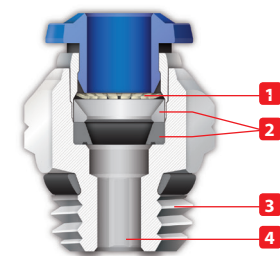
Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFTFIT
UNF
PTF
NPTF
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.
- 5 Our rotating Swivel Elbow fittings are equipped with a safety ring that enables the fitting to rotate without losing a tight seal.

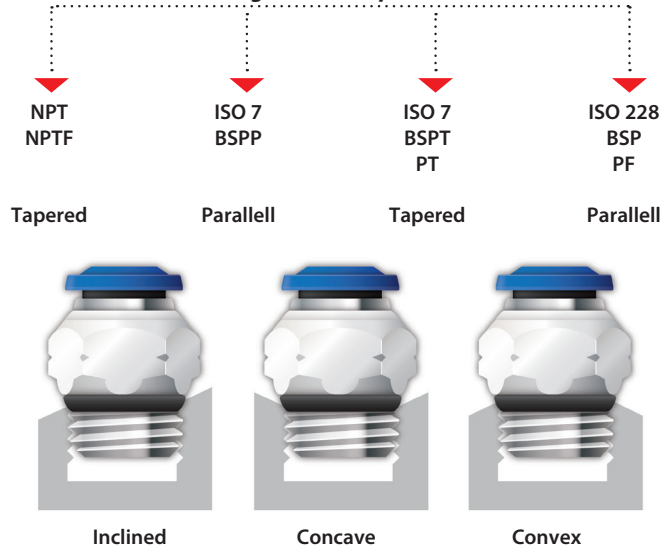




THREADS & ADVANTAGES



One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



UNF Thread



The **UNF** Thread has been designed to offer the following advantages to the end users:

- Standard USA design
- Designed for use in UNF connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking torque
10/32	0.8 Nm	3.2 Nm



PTF Thread



The **PTF** Thread has been designed to offer the following advantages to the end users:

- Standard USA design. PTF/SAE extra short thread
- Designed for connections with an NPTF thread
- Dryseal pipe threads are designed for applications where clearance is not sufficient for the full thread length of NPTF threads.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking torque
1/8	5 Nm	8 Nm
1/4	9 Nm	30 Nm



NPTF Thread with seal



The **NPTF** Thread has been designed to offer the following advantages to the end users:

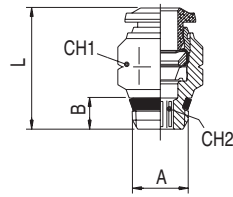
- **Standard USA design**
- **Designed for use in NPT connections with an integrated NBR thread seal that provides an additional seal**

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm

87000

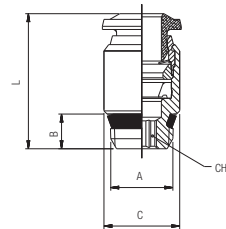
STRAIGHT MALE



Part No.	Tube	A	B	L	CH1	CH2
87000-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.433 (11)	.079 (2)
87000-02-04	1/8	1/4	.276 (7)	.728 (18,5)	.551 (14)	.079 (2)
87000-53-02	5/32 (4)	1/8	.217 (5)	.708 (18)	.433 (11)	.118 (3)
87000-53-04	5/32 (4)	1/4	.276 (7)	.767 (19,5)	.551 (14)	.118 (3)
87000-04-02	1/4	1/8	.217 (5)	.866 (22)	.512 (13)	.157 (4)
87000-04-04	1/4	1/4	.276 (7)	.826 (21)	.551 (14)	.157 (4)
87000-04-06	1/4	3/8	.295 (7,5)	.826 (21)	.669 (17)	.157 (4)
87000-05-02	5/16 (8)	1/8	.217 (5)	.964 (24,5)	.551 (14)	.197 (5)
87000-05-04	5/16 (8)	1/4	.276 (7)	.866 (22)	.551 (14)	.236 (6)
87000-05-06	5/16 (8)	3/8	.295 (7,5)	.905 (23)	.669 (17)	.236 (6)
87000-06-02	3/8	1/8	.217 (5)	1.122 (28,5)	.669 (17)	.197 (5)
87000-06-04	3/8	1/4	.276 (7)	1.122 (28,5)	.669 (17)	.276 (6)
87000-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	.669 (17)	.276 (6)
87000-06-08	3/8	1/2	.354 (9)	1.043 (26,5)	.827 (21)	.276 (6)
87000-08-02	1/2	1/8	.217 (5)	1.299 (33)	.787 (20)	.197 (5)
87000-08-04	1/2	1/4	.276 (7)	1.299 (33)	.787 (20)	.197 (5)
87000-08-06	1/2	3/8	.295 (7,5)	1.259 (32)	.787 (20)	.354 (9)
87000-08-08	1/2	1/2	.354 (9)	1.259 (32)	.827 (21)	.394 (10)

87010

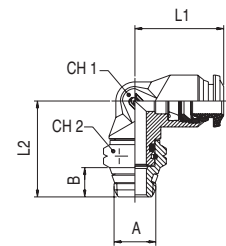
STRAIGHT MALE WITH INTERNAL HEX



Part Number	Tube	A	B	C	L	CH
87010-53-02	5/32 (4)	1/8	.217 (5)	.374 (9,5)	.709 (18)	.118 (3)
87010-04-02	1/4	1/8	.217 (5)	.473 (12)	.846 (21,5)	.157 (4)
87010-04-04	1/4	1/4	.2767 (7)	.551 (14)	.846 (21,5)	.157 (4)

87110

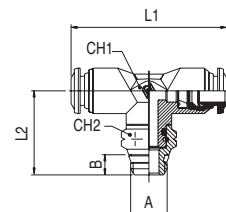
SWIVEL ELBOW



Part No.	Tube	A	B	L1	L2	CH1	CH2
87110-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.846 (21,5)	.354 (9)	.512 (13)
87110-02-04	1/8	1/4	.276 (7)	.669 (17)	1.003 (25,5)	.354 (9)	.591 (15)
87110-53-02	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.846 (21,5)	.354 (9)	.512 (13)
87110-53-04	5/32 (4)	1/4	.276 (7)	.709 (18)	1.003 (25,5)	.354 (9)	.591 (15)
87110-04-02	1/4	1/8	.217 (5,5)	.846 (21,5)	.925 (23,5)	.433 (11)	.512 (13)
87110-04-04	1/4	1/4	.276 (7)	.846 (21,5)	.925 (23,5)	.433 (11)	.591 (15)
87110-04-06	1/4	3/8	.295 (7,5)	.846 (21,5)	1.082 (27,5)	.433 (11)	.669 (17)
87110-05-02	5/16 (8)	1/8	.217 (5,5)	.905 (23)	.984 (25)	.512 (13)	.512 (13)
87110-05-04	5/16 (8)	1/4	.276 (7)	.905 (23)	1.082 (27,5)	.512 (13)	.591 (15)
87110-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	1.102 (28)	.512 (13)	.669 (17)
87110-06-02	3/8	1/8	.217 (5,5)	1.062 (27)	1.082 (27,5)	.630 (16)	.512 (13)
87110-06-04	3/8	1/4	.276 (7)	1.062 (27)	1.161 (29,5)	.630 (16)	.591 (15)
87110-06-06	3/8	3/8	.295 (7,5)	1.062 (27)	1.181 (30)	.630 (16)	.669 (17)
87110-06-08	3/8	1/2	.354 (9)	1.062 (27)	1.299 (33)	.630 (16)	.827 (21)
87110-08-04	1/2	1/4	.276 (7)	1.240 (31,5)	1.299 (33)	.748 (19)	.591 (15)
87110-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.299 (33)	.748 (19)	.669 (17)
87110-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.417 (36)	.748 (19)	.827 (21)

87210

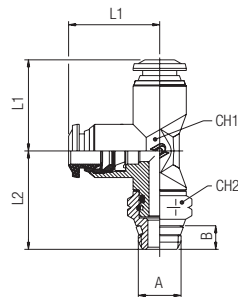
SWIVEL BRANCH TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2
87210-02-02	1/8	1/8	.217 (5,5)	1.299 (33)	.787 (20)	.354 (9)	.512 (13)
87210-02-04	1/8	1/4	.276 (7)	1.299 (33)	1.003 (25,5)	.354 (9)	.591 (15)
87210-53-02	5/32 (4)	1/8	.217 (5,5)	1.339 (34)	.787 (20)	.354 (9)	.512 (13)
87210-53-04	5/32 (4)	1/4	.276 (7)	1.299 (33)	1.003 (25,5)	.354 (9)	.591 (15)
87210-04-02	1/4	1/8	.217 (5,5)	1.692 (43)	.925 (23,5)	.433 (11)	.512 (13)
87210-04-04	1/4	1/4	.276 (7)	1.692 (43)	1.062 (27)	.433 (11)	.591 (15)
87210-04-06	1/4	3/8	.295 (7,5)	2.087 (53)	1.102 (28)	.630 (16)	.669 (17)
87210-06-02	3/8	1/8	.217 (5,5)	2.047 (52)	1.082 (27,5)	.630 (16)	.590 (15)
87210-06-04	3/8	1/4	.275 (7)	2.087 (53)	1.181 (30)	.630 (16)	.511 (13)
87210-06-06	3/8	3/8	.295 (7,5)	2.087 (53)	1.181 (30)	.630 (16)	.669 (17)
87210-06-08	3/8	1/2	.354 (9)	2.087 (53)	1.299 (33)	.630 (16)	.827 (21)
87210-08-04	1/2	1/4	.276 (7)	2.402 (61)	1.240 (31,5)	.748 (19)	.591 (15)
87210-08-06	1/2	3/8	.295 (7,5)	2.402 (61)	1.299 (33)	.748 (19)	.669 (17)
87210-08-08	1/2	1/2	.354 (9)	2.402 (61)	1.417 (36)	.748 (19)	.827 (21)

87222

SWIVEL RUN TEE

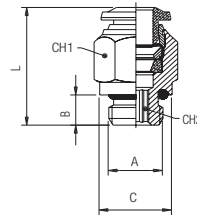


Part No.	Tube	A	B	L1	L2	CH1	CH2
87222-02-02	1/8	1/8	.269 (6,5)	.669 (17)	.807 (20,5)	.354 (9)	.512 (13)
87222-02-04	1/8	1/4	.511 (13)	.669 (17)	.945 (24)	.354 (9)	.591 (15)
87222-53-02	5/32 (4)	1/8	.269 (6,5)	.669 (17)	.787 (20)	.354 (9)	.512 (13)
87222-53-04	5/32 (4)	1/4	.511 (13)	.669 (17)	.945 (24)	.354 (9)	.591 (15)
87222-04-02	1/4	1/8	.269 (6,5)	.827 (21)	.866 (22)	.433 (11)	.512 (13)
87222-04-04	1/4	1/4	.511 (13)	.827 (21)	.984 (25)	.433 (11)	.591 (15)
87222-04-06	1/4	3/8	.511 (13)	.827 (21)	1.102 (28)	.433 (11)	.591 (15)
87222-06-02	3/8	1/8	.269 (6,5)	1.043 (26,5)	1.102 (28)	.433 (11)	.512 (13)
87222-06-04	3/8	1/4	.511 (13)	1.043 (26,5)	1.102 (28)	.630 (16)	.591 (15)
87222-06-06	3/8	3/8	.511 (13)	1.043 (26,5)	1.181 (30)	.630 (16)	.669 (17)
87222-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.299 (33)	.630 (16)	.827 (21)
87222-08-04	1/2	1/4	.511 (13)	1.201 (30,5)	1.240 (31,5)	.748 (19)	.591 (15)
87222-08-06	1/2	3/8	.511 (13)	1.201 (30,5)	1.299 (33)	.748 (19)	.669 (17)
87222-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.417 (36)	.748 (19)	.827 (21)

88020

STRAIGHT MALE

UNF

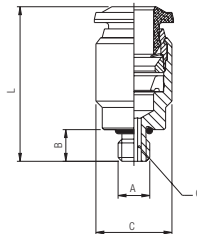


Part No.	Tube	A	B	C	L	CH1	CH2
88020-02-32	1/8	10/32	.157 (4)	.310 (8)	.787 (18)	.315 (8)	.079 (2)
88020-53-32	5/32 (4)	10/32	.157 (4)	.310 (8)	.827 (21)	.394 (10)	.079 (2)
88020-04-32	1/4	10/32	.157 (4)	.390 (10)	.925 (23,5)	.512 (13)	.079 (2)

87010

STRAIGHT MALE WITH INTERNAL HEX

UNF

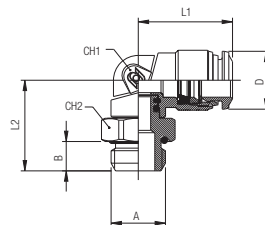


Part Number	Tube	A	B	C	L	CH
87010-02-32	1/8	10/32	.157 (4)	.315 (8)	.709 (18)	.098 (2,5)
87010-53-32	5/32 (4)	10/32	.157 (4)	.394 (10)	.787 (20)	.098 (2,5)
87010-04-32	1/4	10/32	.157 (4)	.473 (12)	.925 (23,5)	.098 (2,5)

88115

SWIVEL ELBOW

UNF

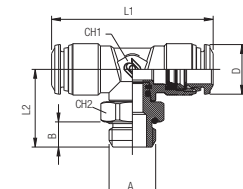


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
88115-02-32	1/8	10/32	.157 (4)	.650 (16,5)	.689 (17,5)	.354 (9)	.315 (8)	.393 (10)
88115-53-32	5/32 (4)	10/32	.157 (4)	.709 (18)	.689 (17,5)	.354 (9)	.315 (8)	.393 (10)
88115-04-32	1/4	10/32	.157 (4)	.846 (21,5)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)

88215

SWIVEL BRANCH TEE

UNF

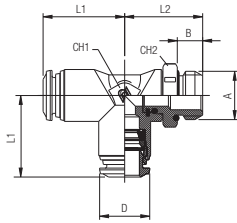


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
88215-02-32	1/8	10/32	.157 (4)	1.299 (33)	.689 (17,5)	.354 (9)	.315 (8)	.393 (10)
88215-53-32	5/32 (4)	10/32	.157 (4)	1.299 (33)	.708 (18)	.354 (9)	.315 (8)	.393 (10)
88215-04-32	1/4	10/32	.157 (4)	1.692 (43)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)

88225

SWIVEL RUN TEE

UNF

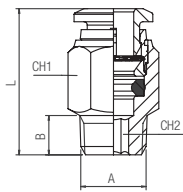


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
88225-02-32	1/8	10/32	.157 (4)	.649 (16,5)	.689 (17,5)	.354 (9)	.315 (8)	.393 (10)
88225-53-32	5/32 (4)	10/32	.157 (4)	.699 (17)	.708 (18)	.354 (9)	.315 (8)	.393 (10)
88225-04-32	1/4	10/32	.157 (4)	.827 (21)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)

87007

STRAIGHT MALE

PTF

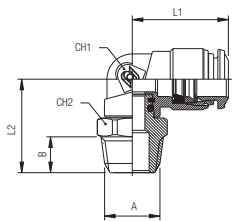


Part No.	Tube	A PTF	B	L	CH1	CH2
87007-53-02	5/32(4)	1/8	.276(7)	.768(19,5)	.433(11)	.118(3)
87007-53-04	5/32(4)	1/4	.413(10,5)	.886(22,5)	.551(14)	.118(3)
87007-04-02	1/4	1/8	.276(7)	.945(24)	.512(13)	.157(4)
87007-04-04	1/4	1/4	.413(10,5)	.965(24,5)	.551(14)	.157(4)

87117

SWIVEL ELBOW

PTF

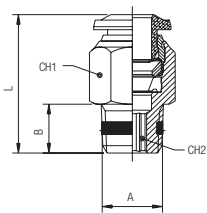


Part No.	Tube	A PTF	B	L1	L2	CH1	CH2
87117-53-02	5/32(4)	1/8	.276(7)	.708(18)	.768(19,5)	.354(9)	.512(13)
87117-53-04	5/32(4)	1/4	.413(10,5)	.708(18)	.905(23)	.354(9)	.591(15)
87117-04-02	1/4	1/8	.276(7)	.827(21)	.826(21)	.433(11)	.512(13)
87117-04-04	1/4	1/4	.413(10,5)	.827(21)	.965(24,5)	.433(11)	.591(15)

88000

STRAIGHT MALE

NPTF

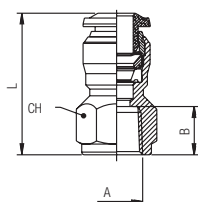


Part No.	Tube	A NPTF	B	L	CH1	CH2
88000-02-02	1/8	1/8	.355 (9)	.768 (19,5)	.433 (11)	.079 (2)
88000-02-04	1/8	1/4	.512 (13)	.965 (24,5)	.551 (14)	.079 (2)
88000-53-02	5/32 (4)	1/8	.355 (9)	.826 (21)	.433 (11)	.118 (3)
88000-53-04	5/32 (4)	1/4	.512 (13)	.984 (25)	.551 (14)	.118 (3)
88000-04-02	1/4	1/8	.355 (9)	1.023 (25,5)	.512 (13)	.157 (4)
88000-04-04	1/4	1/4	.512 (13)	1.062 (27)	.551 (14)	.157 (4)
88000-04-06	1/4	3/8	.512 (13)	1.141 (29)	.709 (18)	.157 (4)
88000-05-02	5/16 (8)	1/8	.355 (9)	1.062 (27)	.551 (14)	.197 (5)
88000-05-04	5/16 (8)	1/4	.512 (13)	1.082 (27,5)	.551 (14)	.236 (6)
88000-05-06	5/16 (8)	3/8	.512 (13)	1.082 (27,5)	.709 (18)	.236 (6)
88000-06-02	3/8	1/8	.355 (9)	1.259 (32)	.669 (17)	.197 (5)
88000-06-04	3/8	1/4	.512 (13)	1.319 (33,5)	.669 (17)	.276 (7)
88000-06-06	3/8	3/8	.512 (13)	1.319 (33,5)	.709 (18)	.276 (7)
88000-06-08	3/8	1/2	.669 (17)	1.319 (33,5)	.866 (22)	.276 (7)
88000-08-04	1/2	1/4	.512 (13)	1.535 (39)	.787 (20)	.197 (5)
88000-08-06	1/2	3/8	.512 (13)	1.417 (36)	.787 (20)	.354 (9)
88000-08-08	1/2	1/2	.669 (17)	1.575 (40)	.866 (22)	.394 (10)

88030

STRAIGHT FEMALE

NPTF

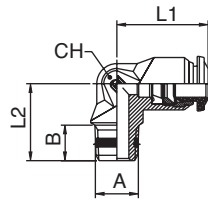


Part No.	Tube	A NPTF	B	L	CH
88030-02-02	1/8	1/8	.374 (9,5)	.945 (21)	.512 (13)
88030-02-04	1/8	1/4	.531 (13,5)	1.142 (29)	.630 (16)
88030-53-02	5/32 (4)	1/8	.374 (9,5)	.984 (25)	.512 (13)
88030-53-04	5/32 (4)	1/4	.531 (13,5)	1.181 (30)	.630 (16)
88030-04-02	1/4	1/8	.374 (9,5)	1.082 (27,5)	.512 (13)
88030-04-04	1/4	1/4	.512 (13)	1.279 (32,5)	.630 (16)
88030-06-04	3/8	1/4	.531 (13,5)	1.279 (32,5)	.709 (18)
88030-06-06	3/8	3/8	.531 (13,5)	1.279 (32,5)	.787 (20)

88100

FIXED ELBOW

NPTF

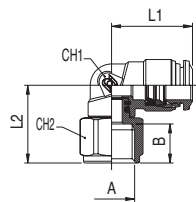


Part No.	Tube	A NPTF	B	L1	L2	CH1
88100-04-02	1/4	1/8	.335 (8,5)	.846 (21,5)	.728 (18,5)	.433 (11)
88100-04-04	1/4	1/4	.512 (13)	.846 (21,5)	.905 (23)	.433 (11)
88100-06-04	3/8	1/4	.512 (13)	1.062 (27)	1.043 (26,5)	.630 (16)
88100-06-06	3/8	3/8	.512 (13)	1.062 (27)	1.004 (25,5)	.688 (17)

88105

FEMALE ELBOW

NPTF

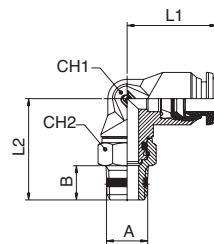


Part No.	Tube	A NPTF	B	L1	L2	CH1	CH2
88105-53-02	5/32 (4)	1/8	.374 (9,5)	.669 (17)	.984 (25)	.354 (9)	.511 (13)
88105-53-04	5/32 (4)	1/4	.531 (13,5)	.669 (17)	1.240 (31,5)	.354 (9)	.629 (16)
88105-04-02	1/4	1/8	.374 (9,5)	.846 (21,5)	1.062 (27)	.433 (11)	.511 (13)
88105-04-04	1/4	1/4	.531 (13,5)	.826 (21)	1.279 (32,5)	.433 (11)	.629 (16)
88105-06-02	3/8	1/8	.374 (9,5)	1.062 (27)	1.220 (31)	.511 (13)	.511 (13)
88105-06-02	3/8	1/4	.531 (13,5)	1.062 (27)	1.397 (35,5)	.629 (16)	.629 (16)

88110

SWIVEL ELBOW

NPTF

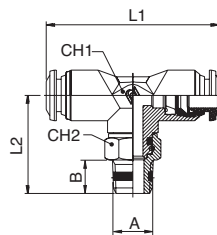


Part No.	Tube	A NPTF	B	L1	L2	CH1	CH2
88110-02-02	1/8	1/8	.335 (8,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)
88110-02-04	1/8	1/4	.512 (13)	.669 (17)	1.122 (28,5)	.354 (9)	.591 (15)
88110-53-02	5/32 (4)	1/8	.335 (8,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)
88110-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	1.181 (30)	.354 (9)	.591 (15)
88110-04-02	1/4	1/8	.335 (8,5)	.827 (21)	1.023 (26)	.433 (11)	.512 (13)
88110-04-04	1/4	1/4	.512 (13)	.827 (21)	1.220 (31)	.433 (11)	.591 (15)
88110-04-06	1/4	3/8	.512 (13)	.827 (21)	1.280 (32,5)	.433 (11)	.709 (18)
88110-05-02	5/16 (8)	1/8	.335 (8,5)	.886 (22,5)	1.043 (26,5)	.512 (13)	.512 (13)
88110-05-04	5/16 (8)	1/4	.512 (13)	.886 (22,5)	1.260 (32)	.512 (13)	.591 (15)
88110-05-06	5/16 (8)	3/8	.512 (13)	.886 (22,5)	1.280 (32,5)	.512 (13)	.709 (18)
88110-06-02	3/8	1/8	.335 (8,5)	1.043 (26,5)	1.181 (30)	.630 (16)	.512 (13)
88110-06-04	3/8	1/4	.512 (13)	1.102 (28)	1.337 (35)	.630 (16)	.591 (15)
88110-06-06	3/8	3/8	.512 (13)	1.023 (26)	1.358 (34,5)	.630 (16)	.709 (18)
88110-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.614 (41)	.630 (16)	.866 (22)
88110-08-04	1/2	1/4	.512 (13)	1.201 (30,5)	1.555 (39,5)	.748 (19)	.591 (15)
88110-08-06	1/2	3/8	.512 (13)	1.201 (30,5)	1.476 (37,5)	.748 (19)	.709 (18)
88110-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.732 (44)	.748 (19)	.866 (22)

88210

SWIVEL ELBOW

NPTF

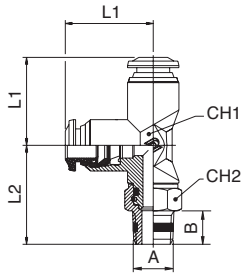


Part No.	Tube	A NPTF	B	L1	L2	CH1	CH2
88210-02-02	1/8	1/8	.295 (7,5)	1.299 (33)	.906 (23)	.354 (9)	.512 (13)
88210-02-04	1/8	1/4	.512 (13)	1.299 (33)	1.122 (27)	.354 (9)	.591 (15)
88210-53-02	5/32 (4)	1/8	.295 (7,5)	1.299 (33)	.906 (23)	.354 (9)	.512 (13)
88210-53-04	5/32 (4)	1/4	.512 (13)	1.299 (33)	1.181 (30)	.354 (9)	.591 (15)
88210-04-02	1/4	1/8	.295 (7,5)	1.654 (42)	1.023 (26)	.433 (11)	.512 (13)
88210-04-04	1/4	1/4	.512 (13)	1.654 (42)	1.220 (31)	.433 (11)	.591 (15)
88210-06-04	3/8	1/4	.512 (13)	2.087 (53)	1.337 (35)	.630 (16)	.591 (15)
88210-06-06	3/8	3/8	.512 (13)	2.087 (53)	1.358 (34,5)	.630 (16)	.709 (18)
88210-06-08	3/8	1/2	.669 (17)	2.087 (53)	1.614 (41)	.630 (16)	.866 (22)
88210-08-04	1/2	1/4	.512 (13)	2.402 (61)	1.555 (39,5)	.748 (19)	.591 (15)
88210-08-06	1/2	3/8	.512 (13)	2.402 (61)	1.476 (37,5)	.748 (19)	.709 (18)
88210-08-08	1/2	1/2	.669 (17)	2.402 (61)	1.732 (44)	.748 (19)	.866 (22)

88222

SWIVEL RUN TEE

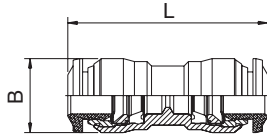
NPTF



Part No.	Tube	A NPTF	B	L1	L2	CH1	CH2
88222-02-02	1/8	1/8	.295 (7,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)
88222-02-04	1/8	1/4	.511 (13)	.669 (17)	1.181 (30)	.354 (9)	.591 (15)
88222-53-02	5/32 (4)	1/8	.295 (7,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)
88222-04-02	1/4	1/8	.295 (7,5)	.827 (21)	.984 (25)	.433 (11)	.512 (13)
88222-04-04	1/4	1/4	.511 (13)	.827 (21)	1.220 (31)	.433 (11)	.591 (15)
88222-06-04	3/8	1/4	.511 (13)	1.043 (26,5)	1.339 (34)	.630 (16)	.591 (15)
88222-06-06	3/8	3/8	.511 (13)	1.043 (26,5)	1.358 (34,5)	.630 (16)	.709 (18)
88222-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.614 (41)	.630 (16)	.866 (22)
88222-08-04	1/2	1/4	.512 (13)	1.201 (30,5)	1.476 (37,5)	.748 (19)	.591 (15)
88222-08-06	1/2	3/8	.511 (13)	1.201 (30,5)	1.476 (37,5)	.748 (19)	.709 (18)
88222-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.732 (44)	.748 (19)	.866 (22)

88040

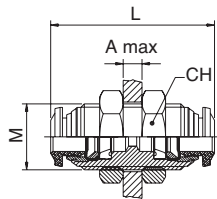
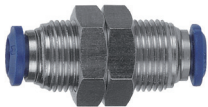
UNION



Part No.	Tube	Tube	B	L
88040-02	1/8		.335 (8,5)	1.024 (26)
88040-53	5/32 (4)		.413 (10,5)	1.181 (30)
88040-04-53	1/4	5/32 (4)	.492 (12,5)	1.279 (32,5)
88040-04	1/4		.492 (12,5)	1.378 (35)
88040-05	5/16 (8)		.571 (14,5)	1.465 (37)
88040-06-04	3/8	1/4	.688 (17,5)	1.555 (39,5)
88040-06	3/8		.688 (17,5)	1.693 (43)
88040-06-08	3/8	1/2	.807 (20,5)	1.850 (47)
88040-08	1/2		.807 (20,5)	1.909 (48,5)

88050

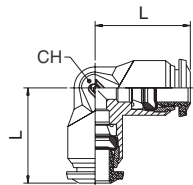
BULKHEAD UNION



Part No.	Tube	M	L	CH	A max
88050-02	1/8	M10X1	1.024 (26)	.551 (14)	.197 (5)
88050-53	5/32 (4)	M12X1	1.220 (32)	.669 (17)	.276 (7)
88050-04	1/4	M14X1	1.378 (35)	.669 (17)	.374 (9,5)
88050-05	5/16 (8)	M16X1	1.476 (37,5)	.748 (19)	.413 (10,5)
88050-06	3/8	M20X1	1.732 (44)	.945 (24)	.492 (12,5)
88050-08	1/2	M22X1	1.929 (49)	1.024 (26)	.650 (16,5)

88130

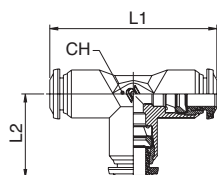
UNION ELBOW



Part No.	Tube	L	CH
88130-02	1/8	.669 (17)	.354 (9)
88130-53	5/32 (4)	.669 (17)	.354 (9)
88130-04	1/4	.827 (21)	.433 (11)
88130-05	5/16 (8)	.905 (23)	.512 (13)
88130-06	3/8	1.043 (26,5)	.630 (16)
88130-08	1/2	1.201 (30,5)	.748 (19)

88230

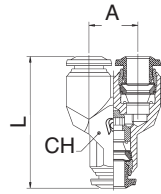
UNION TEE



Part No.	Tube	L1	L2	CH
88230-02	1/8	1.299 (33)	.669 (17)	.354 (9)
88230-53	5/32 (4)	1.339 (34)	.669 (17)	.354 (9)
88230-04	1/4	1.654 (42)	.827 (21)	.433 (11)
88230-05	5/16 (8)	1.772 (45)	.886 (22,5)	.512 (13)
88230-06	3/8	2.087 (53)	1.043 (26,5)	.630 (16)
88230-08	1/2	2.402 (61)	1.201 (30,5)	.748 (19)

88310

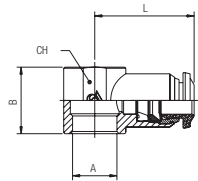
UNION Y



Part No.	Tube	A	L	CH
88310-02	1/8	.394 (10)	1.142 (29)	.433 (11)
88310-53	5/32 (4)	.433 (11)	1.260 (32)	.433 (11)
88310-04	1/4	.531 (13,5)	1.437 (36,5)	.511 (13)
88310-05	5/16 (8)	.610 (15,5)	1.514 (41)	.511 (13)
88310-06	3/8	.728 (18,5)	1.890 (48)	.708 (18)

88500

SINGLE BANJO BODY

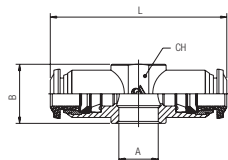


Part No.	Tube	A	B	L	CH
88500-02-02	1/8	1/8	.591 (15)	.767 (19,5)	.551 (14)
88500-53-32	5/32 (4)	10/32	.492 (12,5)	.748 (19)	-
88500-53-02	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)
88500-04-02	1/4	1/8	.669 (17)	.885 (22,5)	.551 (14)
88500-04-04	1/4	1/4	.669 (17)	.984 (25)	.709 (18)
88500-06-04	3/8	1/4	.787 (20)	1.142 (29)	.709 (18)
88500-06-06	3/8	3/8	.787 (20)	1.201 (30,5)	.827 (21)
88500-08-06	1/2	3/8	.787 (20)	1.259 (32)	.827 (21)
88500-08-08	1/2	1/2	.944 (24)	1.377 (35)	.984 (25)

For BANJO STEM assemblies see 10.7/10.8/10.9

88510

DOUBLE BANJO BODY

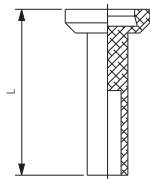


Part No.	Tube	A	B	L	CH
88510-53-32	5/32 (4)	10/32	.492 (12,5)	1.496 (38)	-
88510-04-02	1/4	1/8	.591 (15)	1.732 (44)	.551 (14)
88510-04-04	1/4	1/4	.669 (17)	1.968 (50)	.709 (18)

For BANJO STEM assemblies see 10.7/10.8/10.9

88610

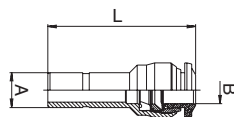
NYLON PLUG



Part No.	Tube	L
88610-02	1/8	.708 (18)
88610-53	5/32 (4)	.925 (23,5)
88610-04	1/4	.964 (24,5)
88610-05	5/16 (8)	1.023 (26)
88610-06	3/8	1.122 (28,5)
88610-08	1/2	1.122 (28,5)

88700

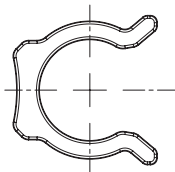
TUBE REDUCER



Part No.	A	B	L
88700-04-02	1/4	1/8	1.181 (30)
88700-04-53	1/4	5/32 (4)	1.181 (30)
88700-06-04	3/8	1/4	1.377 (35)
88700-08-04	1/2	1/4	1.693 (43)
88700-08-06	1/2	3/8	1.693 (43)

50980

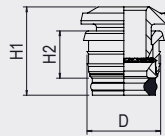
SECURITY CLIP



Part No.	Tube
50980-53	5/32 (4)
50980-5	3/16 (5)
50980-04	1/4 (6)
50980-05	5/16 (8)
50980-06	3/8 (10)
50980-08	1/2 (12)
50980-14	(14)

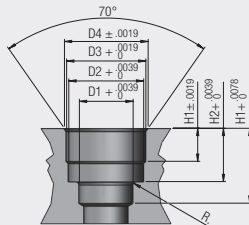
87800

PUSH-FIT CARTRIDGES



Part No.	Tube	H1	H2	D
87800-02	1/8	.386 (10)	.280 (7)	.280 (7)
87800-53	5/32 (4)	.445 (11.5)	.323 (8)	.338 (8.5)
87800-04	1/4	.520 (13)	.374 (9.5)	.413 (10.5)
87800-05	5/16 (8)	.508 (13)	.374 (9.5)	.492 (12.5)
87800-06	3/8	.625 (16)	.472 (12)	.642 (16)
87800-08	1/2	.713 (18)	.543 (14)	.740 (19)

SEAT



Seats dimensions push-fit cartridges.

Tube	D1	D2	D3	D4	H1	H2	H3	R
1/8 (3)	.134 (3,4)	.238 (6,05)	.252 (6,4)	.274 (6,95)	.146 (3,7)	.240 (6,1)	.339 (8,6)	.020 (0,5)
5/32 (4)	.165 (4,2)	.293 (7,45)	.331 (8,4)	.354 (9)	.148 (3,75)	.256 (6,5)	.374 (9,5)	.020 (0,5)
1/4 (6.6)	.259 (6,6)	.368 (9,35)	.411 (10,45)	.447 (11,35)	.197 (5)	.335 (8,5)	.453 (11,5)	.020 (0,5)
5/16 (8)	.323 (8,2)	.449 (11,4)	.488 (12,4)	.508 (12,9)	.205 (5,2)	.335 (8,5)	.492 (12,5)	.030 (0,75)
3/8 (9.7)	.381 (9,7)	.571 (14,5)	.606 (15,4)	.630 (16)	.264 (6,7)	.413 (10,5)	.591 (15)	.030 (0,75)
1/2 (13)	.511 (13)	.669 (17)	.709 (18)	.748 (19)	.295 (7,5)	.476 (12,1)	.669 (17)	.039 (1)

55801

TOOL FOR PUSH-FIT CARTRIDGES SEAT



Part No.	Tube	ø Body
55801-3	1/8 (3)	.394 (10)
55801-4	5/32 (4)	.394 (10)
87801-4	1/4	.472 (12)
55801-8	5/16 (8)	.472 (12)
87801-6	3/8	.630 (16)
87801-8	1/2	.630 (16)

55802

TOOL FOR PUSH-FIT CARTRIDGES SEAT




































Part No.	Tube
55802-02	1/8
55802-4	5/32 (4)
55802-6	1/4 (6)
55802-8	5/16 (8)
55802-10	3/8 (10)
55802-12	1/2 (12)

PUSH-FIT CARTRIDGE ASSEMBLING INSTRUCTIONS ART. 87800

- 1** Use tool to drill into material to create the seat for the Push-Fit Cartridge.
- 2** Insert lip seal.
- 3** Insert cartridge into the assembling tool.
- 4** Press cartridge into the seat until it stops.

50N Series

 55000N Pag. 4.5	 55010N Pag. 4.5	 50110N Pag. 4.5	 50121N Pag. 4.5	 50211N Pag. 4.6	 50222N Pag. 4.6	 50010N Pag. 4.6	 50020N Pag. 4.7	 50030N Pag. 4.7
 50105N Pag. 4.7	 50115N Pag. 4.8	 50126N Pag. 4.8	 50215N Pag. 4.8	 50225N Pag. 4.9	 50100N Pag. 4.9	 50200N Pag. 4.9	 50040N Pag. 4.9	 50050N Pag. 4.10
 50130N Pag. 4.10	 50230N Pag. 4.10	 50310N Pag. 4.10	 50500N Pag. 4.11	 50510N Pag. 4.11	 50600 Pag. 4.11	 50610 Pag. 4.12	 50625 Pag. 4.12	 50700N Pag. 4.12
 50900N Pag. 4.12	 55800N Pag. 4.13	 55801 Pag. 4.13	 55802 Pag. 4.13	 50980 Pag. 4.14	 50990 Pag. 4.14	 50006 Pag. 4.14		

PUSH-TO-CONNECT FITTINGS
FOR METRIC TUBE



50N Series

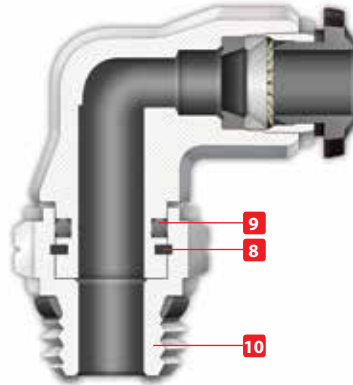
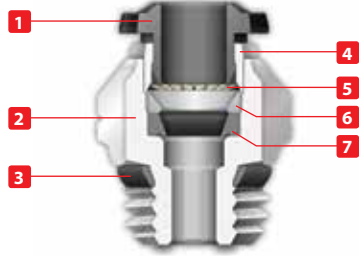


TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006 REACH ✓	2011/65/CE RoHS ✓	PED 2014/68/UE	ISO 14743:2004	SILICON FREE
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Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR	EPDM <i>on request</i>	FKM <i>on request</i>
-4° F ~ 176° F	-40° F ~ 266° F	5° F ~ 266° F
-20° C ~ 80° C	-40° C ~ 130° C	-15° C ~ 130° C



Component Parts and Materials

- 1 Composite Release Collet
- 2 Nickel Plated Brass Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Safety Ring
- 9 NBR Seal
- 10 Nickel Plated Thread Brass Body



Media

- Compressed Air
- Vacuum
- Water
- Steam (FKM required)



Tubing Compatibility

- Nylon 6 - 11 -12
- Polyethylene
- Polyurethane ("98 Shore A for best result)
- PTFE
- FEP



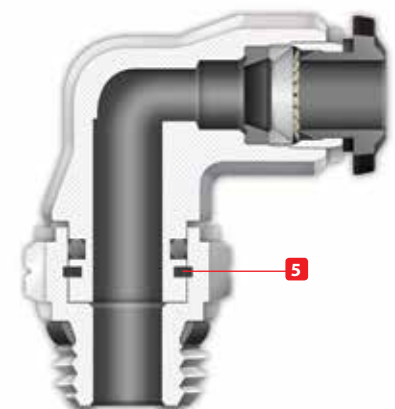
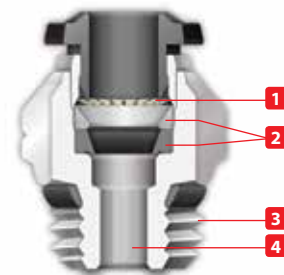
Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFTFIT
BSPP
BSPT
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.
- 5 Our rotating Swivel Elbow fittings are equipped with a safety ring that enables the fitting to rotate without losing a tight seal.



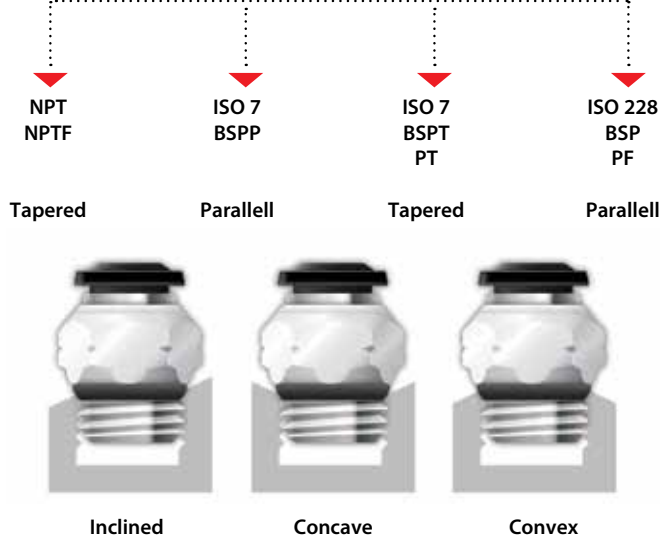


THREADS & ADVANTAGES



SWIFFFIT
Universal thread

One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



BSPP Threads



The **BSPP** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 228 and ISO R/262
- Designed for use in BSPP connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking torque
M5	0.8 Nm	3.2 Nm
1/2	3 Nm	8 Nm
1/4	9 Nm	30 Nm
3/8	10 Nm	60 Nm
1/2	12 Nm	50 Nm



BSPT Thread with seal



The **BSPT** Thread has been designed to offer the following advantages to the end users:

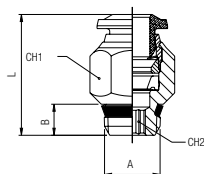
- Standard ISO 7.1, BS 21, DN 2999
- Designed for use in BSPT and BSPP connections with an integrated NBR thread seal that provides an additional seal

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm

55000N

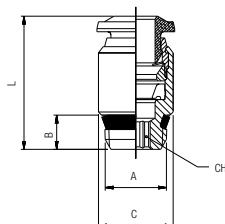
STRAIGHT MALE



Part No.	Tube	A	B	L	CH1	CH2
50000N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.433 (11)	.118 (3)
50000N-4-1/4	5/32 (4)	1/4	.276 (7)	.748 (19)	.551 (14)	.118 (3)
50000N-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.433 (11)	.157 (4)
50000N-5-1/4	5	1/4	.276 (7)	.787 (20)	.551 (14)	.157 (4)
50000N-6-1/8	6	1/8	.217 (5,5)	.846 (21,5)	.512 (13)	.157 (4)
50000N-6-1/4	6	1/4	.276 (7)	.827 (21)	.551 (14)	.157 (4)
50000N-6-3/8	6	3/8	.295 (7,5)	.906 (23)	.669 (17)	.157 (4)
50000N-6-1/2	6	1/2	.354 (9)	.925 (23,5)	.827 (21)	.157 (4)
50000N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.965 (24,5)	.551 (14)	.197 (5)
50000N-8-1/4	5/16 (8)	1/4	.276 (7)	.866 (22)	.551 (14)	.236 (6)
50000N-8-3/8	5/16 (8)	3/8	.295 (7,5)	.906 (23)	.669 (17)	.236 (6)
50000N-8-1/2	5/16 (8)	1/2	.354 (9)	.925 (23,5)	.827 (21)	.236 (6)
50000N-10-1/4	10	1/4	.276 (7)	1.102 (28)	.669 (17)	.276 (7)
50000N-10-3/8	10	3/8	.295 (7,5)	1.004 (25,5)	.669 (17)	.315 (8)
50000N-10-1/2	10	1/2	.354 (9)	1.024 (26)	.827 (21)	.315 (8)
50000N-12-1/4	12	1/4	.276 (7)	1.240 (31,5)	.787 (20)	.276 (7)
50000N-12-3/8	12	3/8	.295 (7,5)	1.161 (29,5)	.787 (20)	.354 (9)
50000N-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	.827 (21)	.394 (10)
50000N-14-3/8	14	3/8	.295 (7,5)	1.280 (32,5)	.827 (21)	.354 (9)
50000N-14-1/2	14	1/2	.354 (9)	1.240 (31,5)	.827 (21)	.394 (10)

55010N

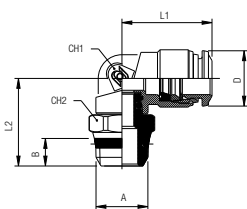
STRAIGHT MALE WITH INTERNAL HEX



Part No.	Tube	A	B	C	L	CH
50010N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.433 (11)	.709 (18)	.118 (3)
50010N-6-1/8	6	1/8	.217 (5,5)	.472 (12)	.867 (21,5)	.157 (4)
50010N-6-1/4	6	1/4	.276 (7)	.551 (14)	.827 (21)	.157 (4)
50010N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.551 (14)	.984 (25)	.196 (5)
50010N-8-1/4	5/16 (8)	1/4	.276 (7)	.551 (14)	.886 (22,5)	.236 (6)

50110N

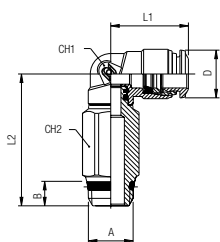
SWIVEL ELBOW



Code	Tube	A	B	L1	L2	CH1	CH2	D
50110N-4-1/8	5/32 (4)	1/8	.216 (5,5)	.708 (18)	.767 (19,5)	.354 (9)	.512 (13)	.394 (10)
50110N-4-1/4	5/32 (4)	1/4	.275 (7)	.748 (19)	.826 (21)	.354 (9)	.590 (15)	.394 (10)
50110N-5-1/8	5	1/8	.216 (5,5)	.788 (20)	.846 (21,5)	.433 (11)	.512 (13)	.492 (12,5)
50110N-6-1/8	6	1/8	.216 (5,5)	.826 (21)	.846 (21,5)	.433 (11)	.512 (13)	.492 (12,5)
50110N-6-1/4	6	1/4	.275 (7)	.826 (21)	.905 (23)	.433 (11)	.590 (15)	.492 (12,5)
50110N-8-1/8	5/16 (8)	1/8	.216 (5,5)	.885 (22,5)	.885 (22,5)	.472 (12)	.512 (13)	.571 (14,5)
50110N-8-1/4	5/16 (8)	1/4	.275 (7)	.885 (22,5)	.885 (22,5)	.472 (12)	.590 (15)	.571 (14,5)
50110N-8-3/8	5/16 (8)	3/8	.295 (7,5)	.885 (22,5)	.905 (23)	.472 (12)	.669 (17)	.571 (14,5)
50110N-8-1/2	5/16 (8)	1/2	.354 (9)	.885 (22,5)	1.003 (25,5)	.472 (12)	.826 (21)	.571 (14,5)
50110N-10-1/4	10	1/4	.275 (7)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.629 (16)	.689 (17,5)
50110N-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	.946 (24,5)	.551 (14)	.669 (17)	.689 (17,5)
50110N-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	1.062 (27)	.551 (14)	.826 (21)	.689 (17,5)
50110N-12-3/8	12	3/8	.295 (7,5)	1.240 (31,5)	1.043 (26,5)	.629 (16)	.787 (20)	.846 (21,5)
50110N-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	1.141 (29)	.629 (16)	.826 (21)	.846 (21,5)
50110N-14-3/8	14	3/8	.295 (7,5)	1.240 (31,5)	1.062 (27)	.629 (16)	.787 (20)	.846 (21,5)
50110N-14-1/2	14	1/2	.354 (9)	1.240 (31,5)	1.161 (29,5)	.629 (16)	.826 (21)	.846 (21,5)

50121N

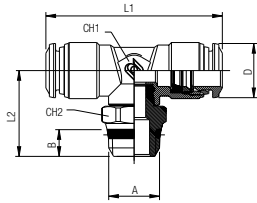
SWIVEL MALE EXTENDED ELBOW



Code	Tube	A	B	L1	L2	CH1	CH2	D
50121N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	1.240 (31,5)	.354 (9)	.472 (12)	.394 (10)
50121N-4-1/4	5/32 (4)	1/4	.276 (7)	.709 (18)	1.299 (33)	.354 (9)	.591 (15)	.394 (10)
50121N-5-1/8	5	1/8	.217 (5,5)	.787 (20)	1.417 (36)	.433 (11)	.472 (12)	.492 (12,5)
50121N-6-1/8	6	1/8	.217 (5,5)	.827 (21)	1.417 (36)	.433 (11)	.472 (12)	.492 (12,5)
50121N-6-1/4	6	1/4	.276 (7)	.827 (21)	1.476 (37,5)	.433 (11)	.591 (15)	.492 (12,5)
50121N-8-1/8	5/16 (8)	1/8	.197 (5)	.898 (22,5)	1.595 (40,5)	.472 (12)	.472 (12)	.571 (14,5)
50121N-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	1.595 (40,5)	.472 (12)	.591 (15)	.571 (14,5)
50121N-8-3/8	5/16 (8)	3/8	.296 (7,5)	.886 (22,5)	1.614 (41)	.472 (12)	.630 (16)	.571 (14,5)
50121N-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.811 (46)	.551 (14)	.591 (15)	.689 (17,5)
50121N-10-3/8	10	3/8	.296 (7,5)	1.043 (26,5)	1.733 (44)	.551 (14)	.670 (17)	.689 (17,5)

50211N

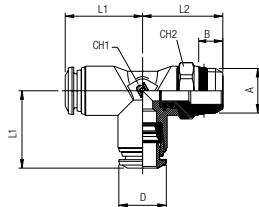
SWIVEL BRANCH TEE



Code	Tube	A	B	L1	L2	CH1	CH2	D
50210N-4-1/8	5/32 (4)	1/8	.216 (5,5)	1.338 (34)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
50210N-4-1/4	5/32 (4)	1/4	.275 (7)	1.338 (34)	.846 (21,5)	.354 (9)	.590 (15)	.394 (10)
50210N-5-1/8	5	1/8	.216 (5,5)	1.575 (40)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
50210N-6-1/8	6	1/8	.216 (5,5)	1.653 (42)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
50210N-6-1/4	6	1/4	.275 (7)	1.653 (42)	.925 (23,5)	.433 (11)	.590 (15)	.492 (12,5)
50210N-8-1/8	5/16 (8)	1/8	.216 (5,5)	1.771 (45)	1.003 (25,5)	.511 (13)	.511 (13)	.571 (14,5)
50210N-8-1/4	5/16 (8)	1/4	.275 (7)	1.771 (45)	1.003 (25,5)	.511 (13)	.590 (15)	.571 (14,5)
50210N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.771 (45)	1.023 (26)	.511 (13)	.669 (17)	.571 (14,5)
50210N-8-1/2	5/16 (8)	1/2	.354 (9)	1.771 (45)	1.122 (28,5)	.511 (13)	.826 (21)	.571 (14,5)
50210N-10-1/4	10	1/4	.275 (7)	2.086 (53)	1.141 (29)	.551 (14)	.629 (16)	.689 (17,5)
50210N-10-3/8	10	3/8	.295 (7,5)	2.086 (53)	1.062 (27)	.551 (14)	.669 (17)	.689 (17,5)
50210N-10-1/2	10	1/2	.354 (9)	2.086 (53)	1.161 (29,5)	.551 (14)	.826 (21)	.689 (17,5)
50210N-12-3/8	12	3/8	.295 (7,5)	2.460 (62,5)	1.161 (29,5)	.629 (16)	.787 (20)	.846 (21,5)
50210N-12-1/2	12	1/2	.354 (9)	2.460 (62,5)	1.259 (32)	.629 (16)	.826 (21)	.846 (21,5)
50210N-14-3/8	14	3/8	.295 (7,5)	2.460 (62,5)	1.161 (29,5)	.629 (16)	.787 (20)	.846 (21,5)
50210N-14-1/2	14	1/2	.354 (9)	2.460 (62,5)	1.259 (32)	.629 (16)	.826 (21)	.846 (21,5)

50222N

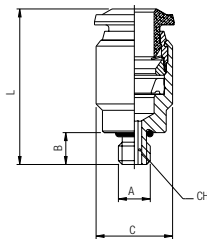
SWIVEL RUN TEE



Code	Tube	A	B	L1	L2	CH1	CH2	D
50222N-4-1/8	5/32 (4)	1/8	.216 (5,5)	.669 (17)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
50222N-4-1/4	5/32 (4)	1/4	.275 (7)	.669 (17)	.846 (21,5)	.354 (9)	.590 (15)	.394 (10)
50222N-5-1/8	5	1/8	.216 (5,5)	.788 (20)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
50222N-6-1/8	6	1/8	.216 (5,5)	.826 (21)	.866 (22)	.433 (11)	.511 (13)	.492 (12,5)
50222N-6-1/4	6	1/4	.275 (7)	.826 (21)	.925 (23,5)	.433 (11)	.590 (15)	.492 (12,5)
50222N-8-1/8	5/16 (8)	1/8	.216 (5,5)	.885 (22,5)	.944 (24)	.511 (13)	.511 (13)	.571 (14,5)
50222N-8-1/4	5/16 (8)	1/4	.275 (7)	.885 (22,5)	.944 (24)	.511 (13)	.590 (15)	.571 (14,5)
50222N-8-3/8	5/16 (8)	3/8	.295 (7,5)	.885 (22,5)	1.062 (27)	.511 (13)	.669 (17)	.571 (14,5)
50222N-8-1/2	5/16 (8)	1/2	.354 (9)	.885 (22,5)	1.062 (27)	.511 (13)	.826 (21)	.571 (14,5)
50222N-10-1/4	10	1/4	.275 (7)	1.043 (26,5)	1.023 (26)	.551 (14)	.629 (16)	.689 (17,5)
50222N-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	1.023 (26)	.551 (14)	.669 (17)	.689 (17,5)
50222N-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	1.122 (28,5)	.551 (14)	.826 (21)	.689 (17,5)
50222N-12-3/8	12	3/8	.295 (7,5)	1.240 (31,5)	1.161 (29,5)	.629 (16)	.787 (20)	.847 (21,5)
50222N-12-1/2	12	1/2	.354 (9)	1.240 (31,5)	1.259 (32)	.629 (16)	.826 (21)	.847 (21,5)

50010N

STRAIGHT MALE WITH INTERNAL HEX

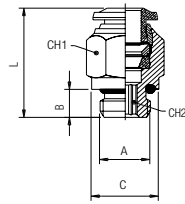


Part No.	Tube	A	B	C	L	CH
50010N-3-M5	3	M5	.157 (4)	.315 (8)	.748 (19)	.098 (2,5)
50010N-4-M5	5/32 (4)	M5	.157 (4)	.394 (10)	.768 (19,5)	.098 (2,5)
50010N-4-M7x1	5/32 (4)	M7x1	.197 (5)	.394 (10)	.827 (21)	.098 (2,5)
50010N-6-M5	6	M5	.157 (4)	.472 (12)	.965 (24,5)	.098 (2,5)

50020N

STRAIGHT MALE

BSPP

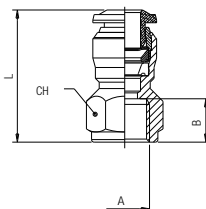


Part No.	Tube	A	B	C	L	CH1	CH2
50020N-3-M5	3	M5	.157 (4)	.315 (8)	.748 (19)	.315 (8)	.079 (2)
50020N-4-M3	5/32 (4)	M3	.118 (3)	.394 (10)	.827 (21)	-	.315 (8)
50020N-4-M5	5/32 (4)	M5	.157 (4)	.315 (8)	.827 (21)	.394 (10)	.079 (2)
50020N-4-1/8	5/32 (4)	1/8	.236 (6)	.512 (13)	.787 (20)	.394 (10)	.118 (3)
50020N-4-1/4	5/32 (4)	1/4	.315 (8)	.630 (16)	.768 (19,5)	.630 (16)	.118 (3)
50020N-5-M5	5	M5	.157 (4)	.315 (8)	.925 (23,5)	.472 (12)	.079 (2)
50020N-5-1/8	5	1/8	.236 (6)	.512 (13)	.866 (22)	.472 (12)	.157 (4)
50020N-5-1/4	5	1/4	.315 (8)	.630 (16)	.866 (22)	.472 (12)	.157 (4)
50020N-6-M5	6	M5	.157 (4)	.394 (10)	.965 (24,5)	.512 (13)	.079 (2)
50020N-6-1/8	6	1/8	.236 (6)	.512 (13)	.925 (23,5)	.512 (13)	.157 (4)
50020N-6-1/4	6	1/4	.315 (8)	.630 (16)	.925 (23,5)	.512 (13)	.157 (4)
50020N-6-3/8	6	3/8	.354 (9)	.787 (20)	.984 (25)	.512 (13)	.157 (4)
50020N-6-1/2	6	1/2	.394 (10)	.984 (25)	1.063 (27)	.512 (13)	.157 (4)
50020N-8-1/8	5/16 (8)	1/8	.236 (6)	.512 (13)	.984 (25)	.551 (14)	.197 (5)
50020N-8-1/4	5/16 (8)	1/4	.315 (8)	.630 (16)	.906 (23)	.551 (14)	.236 (6)
50020N-8-3/8	5/16 (8)	3/8	.354 (9)	.787 (20)	.945 (24)	.551 (14)	.236 (6)
50020N-8-1/2	5/16 (8)	1/2	.394 (10)	.984 (25)	1.043 (26,5)	.551 (14)	.236 (6)
50020N-10-1/4	10	1/4	.315 (8)	.630 (16)	1.201 (30,5)	.669 (17)	.236 (6)
50020N-10-3/8	10	3/8	.354 (9)	.787 (20)	1.083 (27,5)	.669 (17)	.315 (8)
50020N-10-1/2	10	1/2	.394 (10)	.984 (25)	1.063 (27)	.669 (17)	.315 (8)
50020N-12-1/4	12	1/4	.315 (8)	.630 (16)	1.358 (34,5)	.787 (20)	.236 (6)
50020N-12-3/8	12	3/8	.354 (9)	.787 (20)	1.339 (34)	.787 (20)	.315 (8)
50020N-12-1/2	12	1/2	.394 (10)	.984 (25)	1.220 (31)	.866 (22)	.394 (10)
50020N-14-3/8	14	3/8	.354 (9)	.787 (20)	1.378 (35)	.827 (21)	.394 (10)
50020N-14-1/2	14	1/2	.394 (10)	.984 (25)	1.260 (32)	.866 (22)	.394 (10)
50020N-6-M12X1	6	M12X1	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
50020N-6-M12X1,25	6	M12X1,25	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
50020N-6-M12X1,5	6	M12X1,5	.315 (8)	.591 (15)	.925 (23,5)	.512 (13)	.157 (4)
50020N-8-M12X1,5	8	M12X1,5	.315 (8)	.591 (15)	1.083 (27,5)	.551 (14)	.236 (6)

50030N

STRAIGHT FEMALE

BSPP

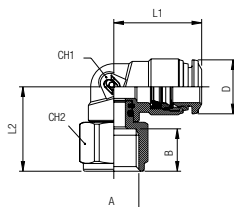


Part No.	Tube	A	B	L	CH
50030N-3-M5	3	M5	.216 (5,5)	.728 (18,5)	.355 (9)
50030N-4-M5	5/32 (4)	M5	.216 (5,5)	.826 (21)	.433 (11)
50030N-4-1/8	5/32 (4)	1/8	.334 (8,5)	.944 (24)	.511 (13)
50030N-4-1/4	5/32 (4)	1/4	.433 (11)	1.082 (27,5)	.629 (16)
50030N-5-1/8	5	1/8	.334 (8,5)	1.043 (26,5)	.511 (13)
50030N-6-1/8	6	1/8	.334 (8,5)	1.023 (26)	.511 (13)
50030N-6-1/4	6	1/4	.433 (11)	1.161 (29,5)	.629 (16)
50030N-8-1/8	5/16 (8)	1/8	.334 (8,5)	1.062 (27)	.590 (15)
50030N-8-1/4	5/16 (8)	1/4	.433 (11)	1.161 (29,5)	.669 (17)
50030N-8-3/8	5/16 (8)	3/8	.472 (12)	1.259 (32)	.748 (19)
50030N-10-1/4	10	1/4	.433 (11)	1.259 (32)	.708 (18)
50030N-10-3/8	10	3/8	.472 (12)	1.318 (33,5)	.748 (19)
50030N-10-1/2	10	1/2	.590 (15)	1.535 (39)	.944 (24)
50030N-12-3/8	12	3/8	.472 (12)	1.417 (36)	.826 (21)
50030N-12-1/2	12	1/2	.590 (15)	1.614 (41)	.944 (24)

50105N

FEMALE ELBOW

BSPP

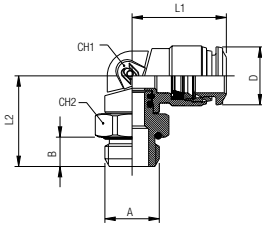


Code	Tube	A	B	L1	L2	CH1	CH2	D
50105N-4-1/8	5/32 (4)	1/8	.334 (8,5)	.708 (18)	.787 (20)	.354 (9)	.511 (13)	.394 (10)
50105N-4-1/4	5/32 (4)	1/4	.433 (11)	.708 (18)	.846 (21,5)	.354 (9)	.629 (16)	.394 (10)
50105N-6-1/8	6	1/8	.334 (8,5)	.826 (21)	.807 (20,5)	.433 (11)	.511 (13)	.492 (12,5)
50105N-6-1/4	6	1/4	.433 (11)	.826 (21)	.905 (23)	.433 (11)	.629 (16)	.492 (12,5)
50105N-8-1/8	5/16 (8)	1/8	.334 (8,5)	.885 (22,5)	.807 (20,5)	.472 (12)	.511 (13)	.571 (14,5)
50105N-8-1/4	5/16 (8)	1/4	.433 (11)	.885 (22,5)	.905 (23)	.472 (12)	.629 (16)	.571 (14,5)
50105N-8-3/8	5/16 (8)	3/8	.472 (12)	.885 (22,5)	.905 (23)	.472 (12)	.512 (13)	.571 (14,5)

50115N

SWIVEL ELBOW

BSPP

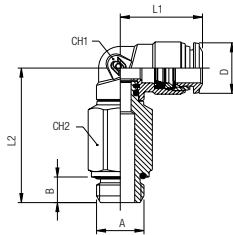


Code	Tube	A	B	L1	L2	CH1	CH2	D
50115N-3-M5	3	M5	.138 (3,5)	.650 (16,5)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)
50115N-4-M5	5/32 (4)	M5	.138 (3,5)	.709 (18)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)
50115N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.709 (18)	.354 (9)	.512 (13)	.394 (10)
50115N-4-1/4	5/32 (4)	1/4	.276 (7)	.709 (18)	.709 (18)	.354 (9)	.63 (16)	.394 (10)
50115N-5-M5	5	M5	.138 (3,5)	.787 (20)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)
50115N-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.787 (20)	.433 (11)	.512 (13)	.492 (12,5)
50115N-6-M5	6	M5	.138 (3,5)	.827 (21)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)
50115N-6-1/8	6	1/8	.217 (5,5)	.827 (21)	.787 (20)	.433 (11)	.512 (13)	.492 (12,5)
50115N-6-1/4	6	1/4	.276 (7)	.827 (21)	.846 (21,5)	.433 (11)	.63 (16)	.492 (12,5)
50115N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.827 (21)	.472 (12)	.512 (13)	.571 (14,5)
50115N-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.846 (21,5)	.472 (12)	.63 (16)	.571 (14,5)
50115N-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	.925 (23,5)	.472 (12)	.787 (20)	.571 (14,5)
50115N-8-1/2	5/16 (8)	1/2	.374 (9,5)	.886 (22,5)	.984 (25)	.472 (12)	.984 (25)	.571 (14,5)
50115N-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.004 (25,5)	.551 (14)	.63 (16)	.689 (17,5)
50115N-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	.984 (25)	.551 (14)	.787 (20)	.689 (17,5)
50115N-10-1/2	10	1/2	.374 (9,5)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.984 (25)	.689 (17,5)
50115N-12-1/4	12	1/4	.315 (8)	1.240 (31,5)	1.083 (27,5)	.630 (16)	.787 (20)	.846 (21,5)
50115N-12-3/8	12	3/8	.315 (8)	1.240 (31,5)	1.063 (27)	.630 (16)	.787 (20)	.846 (21,5)
50115N-12-1/2	12	1/2	.374 (9,5)	1.240 (31,5)	1.122 (28,5)	.630 (16)	.984 (25)	.846 (21,5)
50115N-14-3/8	14	3/8	.315 (8)	1.240 (31,5)	1.083 (27,5)	.630 (16)	.787 (20)	.846 (21,5)
50115N-14-1/2	14	1/2	.374 (9,5)	1.240 (31,5)	1.142 (29)	.630 (16)	.984 (25)	.846 (21,5)
50115N-6-M12x1	6	M12x1	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50115N-6-M12x1,25	6	M12x1,25	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50115N-6-M12x1,5	6	M12x1,5	.295 (7,5)	.787 (20)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50115N-8-M12x1,5	8	M12x1,5	.295 (7,5)	.886 (22,5)	.866 (22)	.472 (12)	.63 (16)	.571 (14,5)

50126N

SWIVEL EXTENDED ELBOW

BSPP

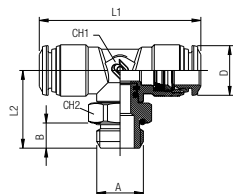


Code	Tube	A	B	L1	L2	CH1	CH2	D
50126N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.709 (18)	1.181 (30)	.354 (9)	.472 (12)	.394 (10)
50126N-4-1/4	5/32 (4)	1/4	.276 (7)	.709 (18)	1.260 (32)	.354 (9)	.591 (15)	.394 (10)
50126N-5-1/8	5	1/8	.217 (5,5)	.787 (20)	1.358 (34,5)	.433 (11)	.472 (12)	.492 (12,5)
50126N-6-1/8	6	1/8	.217 (5,5)	.827 (21)	1.358 (34,5)	.433 (11)	.472 (12)	.492 (12,5)
50126N-6-1/4	6	1/4	.276 (7)	.827 (21)	1.417 (36)	.433 (11)	.591 (15)	.492 (12,5)
50126N-8-1/8	5/16 (8)	1/8	.197 (5)	.898 (22,8)	1.476 (37,5)	.472 (12)	.472 (12)	.571 (14,5)
50126N-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	1.496 (38)	.472 (12)	.591 (15)	.571 (14,5)
50126N-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	1.575 (40)	.472 (12)	.709 (18)	.571 (14,5)
50126N-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.772 (45)	.551 (14)	.630 (16)	.689 (17,5)
50126N-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	1.752 (44,5)	.551 (14)	.709 (18)	.689 (17,5)

50215N

SWIVEL BRANCH TEE

BSPP

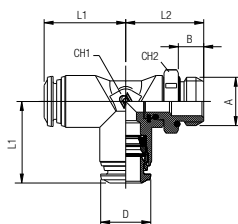


Code	Tube	A	B	L1	L2	CH1	CH2	D
50215N-3-M5	3	M5	.138 (3,5)	1.299 (33)	.669 (17)	.354 (9)	.315 (8)	.394 (10)
50215N-4-M5	5/32 (4)	M5	.138 (3,5)	1.339 (34)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
50215N-4-1/8	5/32 (4)	1/8	.217 (5,5)	1.339 (34)	.728 (18,5)	.354 (9)	.512 (13)	.394 (10)
50215N-4-1/4	5/32 (4)	1/4	.276 (7)	1.339 (34)	.787 (20)	.354 (9)	.630 (16)	.394 (10)
50215N-5-M5	5	M5	.138 (3,5)	1.575 (40)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
50215N-5-1/8	5	1/8	.217 (5,5)	1.575 (40)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
50215N-6-M5	6	M5	.138 (3,5)	1.654 (42)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
50215N-6-1/8	6	1/8	.217 (5,5)	1.654 (42)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
50215N-6-1/4	6	1/4	.276 (7)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
50215N-8-1/8	5/16 (8)	1/8	.217 (5,5)	1.772 (45)	.925 (23,5)	.512 (13)	.512 (13)	.571 (14,5)
50215N-8-1/4	5/16 (8)	1/4	.276 (7)	1.772 (45)	.945 (24)	.512 (13)	.630 (16)	.571 (14,5)
50215N-8-3/8	5/16 (8)	3/8	.315 (8)	1.772 (45)	1.024 (26)	.512 (13)	.787 (20)	.571 (14,5)
50215N-8-1/2	5/16 (8)	1/2	.374 (9,5)	1.772 (45)	1.083 (27,5)	.512 (13)	.984 (25)	.571 (14,5)
50215N-10-1/4	10	1/4	.276 (7)	2.087 (53)	1.083 (27,5)	.551 (14)	.630 (16)	.689 (17,5)
50215N-10-3/8	10	3/8	.315 (8)	2.087 (53)	1.063 (27)	.551 (14)	.787 (20)	.689 (17,5)
50215N-10-1/2	10	1/2	.374 (9,5)	2.087 (53)	1.122 (28,5)	.551 (14)	.984 (25)	.689 (17,5)
50215N-12-3/8	12	3/8	.315 (8)	2.461 (62,5)	1.161 (29,5)	.630 (16)	.787 (20)	.846 (21,5)
50215N-12-1/2	12	1/2	.374 (9,5)	2.461 (62,5)	1.220 (31)	.630 (16)	.984 (25)	.846 (21,5)
50215N-14-3/8	14	3/8	.315 (8)	2.461 (62,5)	1.161 (29,5)	.630 (16)	.787 (20)	.846 (21,5)
50215N-14-1/2	14	1/2	.374 (9,5)	2.461 (62,5)	1.220 (31)	.630 (16)	.984 (25)	.846 (21,5)
50215N-6-M12x1	6	M12x1	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
50215N-6-M12x1,25	6	M12x1,25	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)
50215N-6-M12x1,5	6	M12x1,5	.295 (7,5)	1.654 (42)	.866 (22)	.433 (11)	.630 (16)	.492 (12,5)

50225N

SWIVEL RUN TEE

BSPP

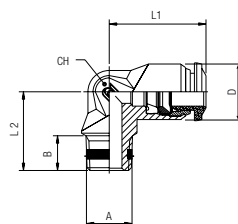


Code	Tube	A	B	L1	L2	CH1	CH2	D
50225N-3-M5	3	M5	.138 (3,5)	.650 (16,5)	.669 (17)	.354 (9)	.315 (8)	.394 (10)
50225N-4-M5	5/32 (4)	M5	.138 (3,5)	.669 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)
50225N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.669 (17)	.728 (18,5)	.354 (9)	.512 (13)	.394 (10)
50225N-4-1/4	5/32 (4)	1/4	.276 (7)	.669 (17)	.787 (20)	.354 (9)	.63 (16)	.394 (10)
50225N-5-M5	5	M5	.138 (3,5)	.787 (20)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
50225N-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
50225N-6-M5	6	M5	.138 (3,5)	.827 (21)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)
50225N-6-1/8	6	1/8	.217 (5,5)	.827 (21)	.807 (20,5)	.433 (11)	.512 (13)	.492 (12,5)
50225N-6-1/4	6	1/4	.276 (7)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50225N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.886 (22,5)	.512 (13)	.512 (13)	.571 (14,5)
50225N-8-1/4	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.906 (23)	.512 (13)	.63 (16)	.571 (14,5)
50225N-8-3/8	5/16 (8)	3/8	.315 (8)	.886 (22,5)	.984 (25)	.512 (13)	.787 (20)	.571 (14,5)
50225N-8-1/2	5/16 (8)	1/2	.374 (9,5)	.886 (22,5)	1.043 (26,5)	.512 (13)	.984 (25)	.571 (14,5)
50225N-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	1.063 (27)	.551 (14)	.63 (16)	.689 (17,5)
50225N-10-3/8	10	3/8	.315 (8)	1.043 (26,5)	1.043 (26,5)	.551 (14)	.787 (20)	.689 (17,5)
50225N-10-1/2	10	1/2	.374 (9,5)	1.043 (26,5)	1.102 (28)	.551 (14)	.984 (25)	.689 (17,5)
50225N-12-3/8	12	3/8	.315 (8)	1.240 (31,5)	1.161 (29,5)	.63 (16)	.787 (20)	.846 (21,5)
50225N-12-1/2	12	1/2	.374 (9,5)	1.240 (31,5)	1.220 (31)	.63 (16)	.984 (25)	.846 (21,5)
50225N-6-M12x1	6	M12x1	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50225N-6-M12x1,25	6	M12x1,25	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)
50225N-6-M12x1,5	6	M12x1,5	.295 (7,5)	.827 (21)	.866 (22)	.433 (11)	.63 (16)	.492 (12,5)

50100N

FIXED ELBOW

BSPT

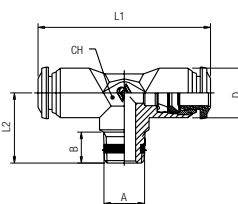


Part No.	Tube	A	B	L1	L2	CH	D
50100N-4-M5	5/32 (4)	M5	.197 (5)	.669 (17)	.591 (15)	.354 (9)	.394 (10)
50100N-4-1/8	5/32 (4)	1/8	.295 (7,5)	.669 (17)	.61 (15,5)	.354 (9)	.394 (10)
50100N-5-M5	5	M5	.197 (5)	.787 (20)	.669 (17)	.433 (11)	.492 (12,5)
50100N-5-1/8	5	1/8	.295 (7,5)	.787 (20)	.689 (17,5)	.433 (11)	.492 (12,5)
50100N-6-1/8	6	1/8	.295 (7,5)	.827 (21)	.689 (17,5)	.433 (11)	.492 (12,5)
50100N-6-1/4	6	1/4	.433 (11)	.827 (21)	.846 (21,5)	.433 (11)	.492 (12,5)
50100N-8-1/8	5/16 (8)	1/8	.295 (7,5)	.886 (22,5)	.748 (19)	.512 (13)	.551 (14)
50100N-8-1/4	5/16 (8)	1/4	.433 (11)	.886 (22,5)	.846 (21,5)	.512 (13)	.551 (14)
50100N-10-1/4	10	1/4	.433 (11)	1.043 (26,5)	.965 (24,5)	.63 (16)	.669 (17)
50100N-10-3/8	10	3/8	.453 (11,5)	1.043 (26,5)	.945 (24)	.63 (16)	.669 (17)
50100N-12-1/4	12	1/4	.433 (11)	1.201 (30,5)	1.201 (28)	.748 (19)	.846 (21,5)
50100N-12-3/8	12	3/8	.453 (11,5)	1.201 (30,5)	1.201 (28)	.748 (19)	.846 (21,5)

50200N

FIXED BRANCH TEE

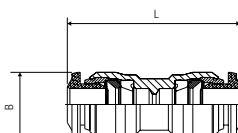
BSPT



Code	Tube	A	B	L1	L2	CH	D
50200N-4-M5	5/32 (4)	M5	.197 (5)	1.339 (34)	.591 (15)	.354 (9)	.394 (10)
50200N-4-1/8	5/32 (4)	1/8	.295 (7,5)	1.339 (34)	.61 (15,5)	.354 (9)	.394 (10)
50200N-5-1/8	5	1/8	.295 (7,5)	1.575 (40)	.689 (17,5)	.433 (11)	.492 (12,5)
50200N-6-1/8	6	1/8	.295 (7,5)	1.654 (42)	.689 (17,5)	.433 (11)	.492 (12,5)
50200N-8-1/8	5/16 (8)	1/8	.295 (7,5)	1.772 (45)	.748 (19)	.512 (13)	.551 (14)
50200N-8-1/4	5/16 (8)	1/4	.433 (11)	1.772 (45)	.846 (21,5)	.512 (13)	.551 (14)
50200N-10-1/4	10	1/4	.433 (11)	2.087 (53)	.965 (24,5)	.63 (16)	.669 (17)
50200N-10-3/8	10	3/8	.453 (11,5)	2.087 (53)	.945 (24)	.63 (16)	.669 (17)
50200N-12-1/4	12	1/4	.433 (11)	2.402 (61)	1.102 (28)	.748 (19)	.846 (21,5)
50200N-12-3/8	12	3/8	.453 (11,5)	2.402 (61)	1.102 (28)	.748 (19)	.846 (21,5)

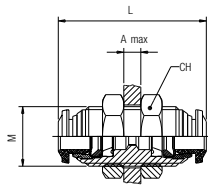
50040N

UNION



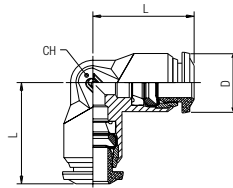
Part No.	Tube	Tube	L	B
50040N-3	3		1.024 (26)	.335 (8,5)
50040N-4	5/32 (4)		1.200 (30,5)	.413 (10,5)
50040N-5	5		1.299 (33)	.453 (11,5)
50040N-6-4	6	5/32 (4)	1.259 (32)	.492 (12,5)
50040N-6	6		1.338 (34)	.492 (12,5)
50040N-8-6	5/16 (8)	6	1.377 (35)	.571 (14,5)
50040N-8	5/16 (8)		1.417 (36)	.571 (14,5)
50040N-10-8	10	5/16 (8)	1.594 (40,5)	.689 (17,5)
50040N-10	10		1.653 (42)	.689 (17,5)
50040N-12-10	12	10	1.791 (45,5)	.807 (20,5)
50040N-12	12		1.850 (47)	.807 (20,5)
50040N-14	14		1.929 (49)	.846 (21,5)

50050N
BULKHEAD UNION



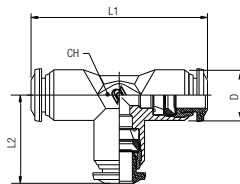
Part No.	Tube	M	L	CH	A _{MAX}
50050N-3	3	M10x1	1.024 (26)	.551 (14)	.197 (5)
50050N-4	5/32 (4)	M12x1	1.240 (31,5)	.669 (17)	.275 (7)
50050N-5	5	M14x1	1.299 (33)	.669 (17)	.275 (7)
50050N-6	6	M14x1	1.377 (35)	.669 (17)	.374 (9,5)
50050N-8	5/16 (8)	M16x1	1.456 (37)	.748 (19)	.413 (10,5)
50050N-10	10	M20x1	1.692 (42)	.944 (24)	.492 (12,5)
50050N-12	12	M22x1	1.889 (48)	1.023 (26)	.649 (16,5)
50050N-14	14	M23x1	1.929 (49)	1.063 (26)	.649 (16,5)

50130N
UNION ELBOW



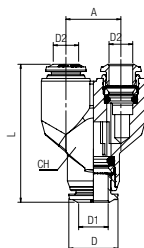
Code	Tube	L	CH	D
50130N-3	3	.669 (17)	.354 (9)	.394 (10)
50130N-4	5/32 (4)	.669 (17)	.354 (9)	.394 (10)
50130N-5	5	.787 (20)	.433 (11)	.492 (12,5)
50130N-6	6	.826 (21)	.433 (11)	.492 (12,5)
50130N-8	5/16 (8)	.885 (22,5)	.511 (13)	.571 (14,5)
50130N-10	10	1.043 (26,5)	.629 (16)	.689 (17,5)
50130N-12	12	1.200 (30,5)	.748 (19)	.846 (21,5)
50130N-14	14	1.279 (32,5)	.748 (19)	.846 (21,5)

50230N
UNION TEE



Code	Tube	L1	L2	CH	D
50230N-3	3	1.338 (34)	.669 (17)	.354 (9)	.394 (10)
50230N-4	5/32 (4)	1.338 (34)	.669 (17)	.354 (9)	.394 (10)
50230N-5	5	1.574 (40)	.787 (20)	.433 (11)	.492 (12,5)
50230N-6	6	1.653 (42)	.826 (21)	.433 (11)	.492 (12,5)
50230N-8	5/16 (8)	1.771 (45)	.885 (22,5)	.511 (13)	.551 (14)
50230N-10	10	2.086 (53)	1.043 (26,5)	.629 (16)	.669 (17)
50230N-12	12	2.401 (61)	1.200 (30,5)	.748 (19)	.847 (21,5)
50230N-14	14	2.578 (65,5)	1.279 (32,5)	.748 (19)	.847 (21,5)

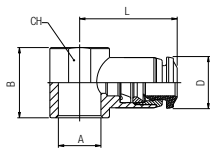
50310N
UNION Y



Code	Tube	A	L	CH	D
50310N-3	3	.394 (10)	1.142 (29)	.433 (11)	.394 (10)
50310N-4	5/32 (4)	.433 (11)	1.259 (32)	.433 (11)	.394 (10)
50310N-5	5	.531 (13,5)	1.377 (35)	.511 (13)	.492 (12,5)
50310N-6	6	.531 (13,5)	1.437 (36,5)	.511 (13)	.492 (12,5)
50310N-8	5/16 (8)	.610 (15,5)	1.614 (41)	.590 (15)	.551 (14)
50310N-10	10	.728 (18,5)	1.889 (48)	.708 (18)	.669 (17)

50500N

SINGLE BANJO BODY

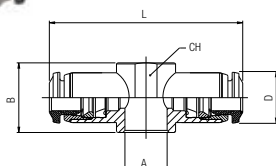


Code	Tube	A	B	L	CH	D
50500N-3-M5	3	M5	.492 (12,5)	.748 (19)	-	.394 (10)
50500N-3-M6	3	M6	.492 (12,5)	.748 (19)	-	.394 (10)
50500N-4-M5	5/32 (4)	M5	.492 (12,5)	.748 (19)	-	.394 (10)
50500N-4-M6	5/32 (4)	M6	.492 (12,5)	.748 (19)	-	.394 (10)
50500N-4-1/8	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)	.394 (10)
50500N-5-M5	5	M5	.492 (12,5)	.787 (20)	-	.492 (12,5)
50500N-5-M6	5	M6	.492 (12,5)	.787 (20)	-	.492 (12,5)
50500N-5-1/8	5	1/8	.591 (15)	.846 (21,5)	.551 (14)	.492 (12,5)
50500N-5-1/4	5	1/4	.669 (17)	.965 (24,5)	.709 (18)	.492 (12,5)
50500N-6-M5	6	M5	.492 (12,5)	.807 (20,5)	-	.492 (12,5)
50500N-6-M6	6	M6	.492 (12,5)	.807 (20,5)	-	.492 (12,5)
50500N-6-1/8	6	1/8	.591 (15)	.866 (22)	.551 (14)	.492 (12,5)
50500N-6-1/4	6	1/4	.669 (17)	.984 (25)	.709 (18)	.492 (12,5)
50500N-8-1/8	5/16 (8)	1/8	.591 (15)	.945 (24)	.551 (14)	.551 (14)
50500N-8-1/4	5/16 (8)	1/4	.669 (17)	1.024 (26)	.709 (18)	.551 (14)
50500N-8-3/8	5/16 (8)	3/8	.787 (20)	1.102 (28)	.827 (21)	.551 (14)
50500N-10-1/4	10	1/4	.669 (17)	1.142 (29)	.709 (18)	.669 (17)
50500N-10-3/8	10	3/8	.787 (20)	1.201 (30,5)	.827 (21)	.669 (17)
50500N-12-3/8	12	3/8	.787 (20)	1.280 (32,5)	.827 (21)	.846 (21,5)
50500N-12-1/2	12	1/2	.945 (24)	1.378 (35)	.984 (25)	.846 (21,5)
50500N-14-1/2	14	1/2	.945 (24)	1.398 (35,5)	.984 (25)	.846 (21,5)

For BANJO STEM assemblies see 10.7/10.8/10.9

50510N

DOUBLE BANJO BODY



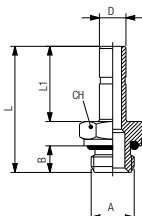
Code	Tube	A	B	L	CH	D
50510N-4-M5	5/32 (4)	M5	.492 (12,5)	1.496 (38)	-	.394 (10)
50510N-4-M6	5/32 (4)	M6	.492 (12,5)	1.496 (38)	-	.394 (10)
50510N-4-1/8	5/32 (4)	1/8	.591 (15)	1.654 (42)	.551 (14)	.394 (10)
50510N-5-1/8	5	1/8	.591 (15)	1.693 (43)	.551 (14)	.492 (12,5)
50510N-5-1/4	5	1/4	.669 (17)	1.929 (49)	.709 (18)	.492 (12,5)
50510N-6-1/8	6	1/8	.591 (15)	1.732 (44)	.551 (14)	.492 (12,5)
50510N-6-1/4	6	1/4	.669 (17)	1.969 (50)	.709 (18)	.492 (12,5)
50510N-8-1/8	5/16 (8)	1/8	.591 (15)	1.890 (48)	.551 (14)	.551 (14)
50510N-8-1/4	5/16 (8)	1/4	.669 (17)	2.047 (52)	.709 (18)	.551 (14)

For BANJO STEM assemblies see 10.7/10.8/10.9

50600

STANDPIPE

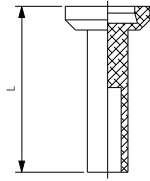
BSPP



Part No.	D	A	B	L	L1	CH
50600-4-M5	5/32 (4)	M5	.157 (4)	.945 (24)	.591 (15)	.315 (8)
50600-4-1/8	5/32 (4)	1/8	.236 (6)	1.043 (26,5)	.591 (15)	.512 (13)
50600-5-M5	5	M5	.157 (4)	1.024 (26)	.669 (17)	.315 (8)
50600-5-1/8	5	1/8	.236 (6)	1.122 (28,5)	.669 (17)	.512 (13)
50600-5-1/4	5	1/4	.315 (8)	1.220 (31)	.669 (17)	.630 (16)
50600-6-M5	6	M5	.157 (4)	1.024 (26)	.669 (17)	.315 (8)
50600-6-1/8	6	1/8	.236 (6)	1.122 (28,5)	.669 (17)	.512 (13)
50600-6-1/4	6	1/4	.315 (8)	1.220 (31)	.669 (17)	.630 (16)
50600-8-1/8	5/16 (8)	1/8	.236 (6)	1.161 (29,5)	.709 (18)	.512 (13)
50600-8-1/4	5/16 (8)	1/4	.315 (8)	1.260 (32)	.709 (18)	.630 (16)
50600-8-3/8	5/16 (8)	3/8	.354 (9)	1.319 (33,5)	.709 (18)	.787 (20)
50600-10-1/8	10	1/8	.236 (6)	1.319 (33,5)	.866 (22)	.512 (13)
50600-10-1/4	10	1/4	.315 (8)	1.417 (36)	.866 (22)	.630 (16)
50600-10-3/8	10	3/8	.354 (9)	1.476 (37,5)	.866 (22)	.787 (20)
50600-12-1/4	12	1/4	.315 (8)	1.516 (38,5)	.965 (24,5)	.630 (16)
50600-12-3/8	12	3/8	.354 (9)	1.575 (40)	.965 (24,5)	.787 (20)
50600-14-1/2	14	1/2	.394 (10)	1.732 (44)	1.043 (26,5)	.945 (24)

50610

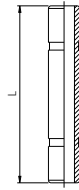
NYLON PLUG



Part No.	Tube	L
50610-02	1/8	.708 (18)
50610-53	5/32 (4)	.925 (23,5)
50610-04	1/4	.964 (24,5)
50610-05	5/16 (8)	1.023 (26)
50610-06	3/8	1.122 (28,5)
50610-08	1/2	1.122 (28,5)

50625

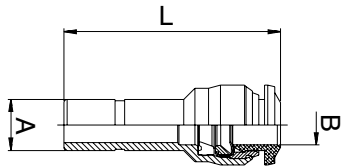
DOUBLE JOINT



Part No.	Tube	L
50625-4	5/32 (4)	1.220 (31)
50625-5	5	1.299 (33)
50625-6	6	1.339 (34)
50625-8	5/16 (8)	1.417 (36)
50625-10	10	1.772 (45)
50625-12	12	1.969 (50)

50700N

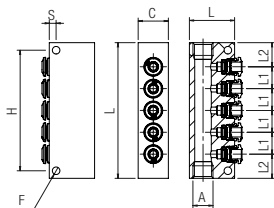
TUBE REDUCER



Part No.	A	B	L	D
50700N-4-3	5/32 (4)	3	1.181 (30)	.335 (8,5)
50700N-5-4	5	5/32 (4)	1.260 (32)	.453 (11,5)
50700N-6-4	6	5/32 (4)	1.181 (30)	.413 (10,5)
50700N-6-5	6	5	1.358 (34,5)	.453 (11,5)
50700N-8-4	5/16 (8)	5/32 (4)	1.280 (32,5)	.413 (10,5)
50700N-8-6	5/16 (8)	6	1.358 (34,5)	.492 (12,5)
50700N-10-4	10	5/32 (4)	1.240 (31,5)	.413 (10,5)
50700N-10-6	10	6	1.476 (37,5)	.492 (12,5)
50700N-10-8	10	5/16 (8)	1.516 (38,5)	.571 (14,5)
50700N-12-8	12	5/16 (8)	1.555 (39,5)	.571 (14,5)
50700N-12-10	12	10	1.693 (43)	.689 (17,5)

50900N

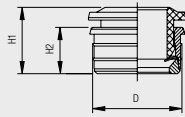
5 WAY ALUMINUM MANIFOLD



Code	Tube	A	H	F	S	C	D	L	L1	L2
50900N-4-1/8	5/32 (4)	1/8	2.224 (66)	.197 (5)	.177 (4,5)	.591 (15)	.984 (25)	2.953 (75)	.472 (12)	.531 (13,5)
50900N-6-1/8	6	1/8	3.150 (80)	.197 (5)	.177 (4,5)	.591 (15)	.984 (25)	3.543 (90)	.571 (14,5)	.630 (16)
50900N-6-1/4	6	1/4	3.150 (80)	.197 (5)	.177 (4,5)	.787 (20)	1.181 (30)	3.543 (90)	.571 (14,5)	.630 (16)
50900N-8-1/4	5/16 (8)	1/4	3.543 (90)	.197 (5)	.177 (4,5)	.787 (20)	1.181 (30)	3.937 (100)	.630 (16)	.709 (18)

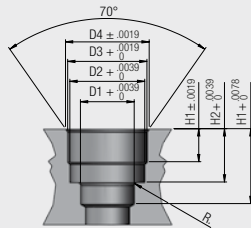
55800N

PUSH-FIT CARTRIDGES



Part No.	Tube	D	H1	H2
55800N-3	3	.264 (6,7)	.354 (9)	.197 (5)
55800N-4	5/32 (4)	.343 (8,7)	.410 (10,4)	.221 (5,6)
55800N-5	5	.384 (9,75)	.465 (11,8)	.248 (6,3)
55800N-6	6	.423 (10,75)	.488 (12,4)	.272 (6,9)
55800N-8	5/16 (8)	.500 (12,7)	.488 (12,4)	.272 (6,9)
55800N-10	10	.618 (15,7)	.618 (15,7)	.335 (8,5)
55800N-12	12	.721 (18,3)	.701 (17,8)	.374 (9,5)

SEAT



Seats dimensions push-fit cartridges.

Tube	D1	D2	D3	D4	H1	H2	H3	R
1/8 (3)	.134 (3,4)	.238 (6,05)	.252 (6,4)	.274 (6,96)	.146 (3,7)	.240 (6,1)	.339 (8,6)	.020 (0,5)
5/32 (4)	.165 (4,2)	.293 (7,45)	.331 (8,4)	.354 (9)	.148 (3,76)	.256 (6,5)	.374 (9,5)	.020 (0,5)
1/5 (5)	.205 (5,2)	.329 (8,36)	.370 (9,4)	.400 (10,16)	.175 (4,45)	.311 (7,9)	.413 (10,5)	.020 (0,5)
1/4 (6)	.244 (6,2)	.368 (9,35)	.411 (10,44)	.447 (11,35)	.197 (5)	.335 (8,5)	.453 (11,5)	.020 (0,5)
5/16 (8)	.323 (8,2)	.449 (11,4)	.488 (12,4)	.508 (12,9)	.205 (5,2)	.335 (8,5)	.492 (12,5)	.030 (0,76)
3/8 (10)	.402 (10,2)	.571 (14,5)	.606 (15,4)	.630 (16)	.264 (6,7)	.413 (10,5)	.591 (15)	.030 (0,76)
1/2 (12)	.480 (12,2)	.669 (17)	.709 (18)	.748 (19)	.295 (7,5)	.476 (12,1)	.669 (17)	.039 (1)

55801

TOOL FOR PUSH-FIT CARTRIDGES SEAT



Part No.	Tube	ø Body
55801-3	3	.394 (10)
55801-4	4 (5/32)	.394 (10)
55801-6	6 (1/4)	.472 (12)
55801-8	8 (5/16)	.472 (12)
55801-10	10 (3/8)	.630 (16)
55801-12	12 (1/2)	.630 (16)

55802

ASSEMBLING TOOL FOR PUSH-FIT CARTRIDGES



Part No.	Tube
55802-3	3
55802-4	4 (5/32)
55802-6	6 (1/4)
55802-8	8 (5/16)
55802-10	10 (3/8)
55802-12	12 (1/2)

PUSH-FIT CARTRIDGES ASSEMBLING INSTRUCTIONS ART. 55800

1 Make the seat for the cartridge utilizing the suitable tool Art. 55801.



2 Insert the lip seal inside of the seat.



3 Insert the cartridge into the assembling tool Art. 55802.

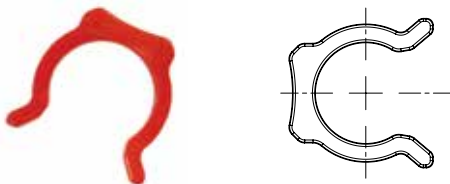


4 Press the cartridge inside of the seat until it will be reached the abutment surface with the assembling tool.



50980

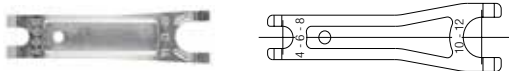
SECURITY CLIPS



Part No.	Tube
50980-53	5/32 (4)
50980-5	3/16 (5)
50980-04	1/4 (6)
50980-05	5/16 (8)
50980-06	3/8 (10)
50980-08	1/2 (12)
50980-14	(14)

50990

TOOL FOR DISASSEMBLING



Part No.
50990

50006

THREAD PACKING FOR THE "UNIVERSAL SHORT" TAPER THREADS



Part No.	Thread
50006-02	1/8
50006-04	1/4
50006-06	3/8
50006-08	1/2

FITTING KITS

50860N-4

FITTING KIT - 4MM TUBE



Part No.	Description	Qty
50000N-4-1/8	Straight 4mm Tube x 1/8 Male	5
50000N-4-1/4	Straight 4mm Tube x 1/4 Male	5
50110N-4-1/8	Swivel Elbow 4mm Tube x 1/8 Male	5
50110N-4-1/4	Swivel Elbow 4mm Tube x 1/4 Male	5
50210N-4-1/8	Branch Tee 4mm Tube x 1/8 Male	5
50210N-4-1/4	Branch Tee 4mm Tube x 1/4 Male	5
50222N-4-1/8	Run Tee 4mm Tube x 1/8 Male	5
50222N-4-1/4	Run Tee 4mm Tube x 1/4 Male	5
50040N-4	Union 4mm Tube	5
50050N-4	Bulkhead Union 4mm Tube	5
50130N-4	Union Elbow 4mm Tube	5
50230N-4	Union Tee 4mm Tube	5

50860N-6

FITTING KIT - 6MM TUBE



Part No.	Description	Qty
50000N-6-1/8	Straight 6mm Tube x 1/8 Male	5
50000N-6-1/4	Straight 6mm Tube x 1/4 Male	5
50110N-6-1/8	Swivel Elbow 6mm Tube x 1/8 Male	5
50110N-6-1/4	Swivel Elbow 6mm Tube x 1/4 Male	5
50210N-6-1/8	Branch Tee 6mm Tube x 1/8 Male	5
50210N-6-1/4	Branch Tee 6mm Tube x 1/4 Male	5
50222N-6-1/8	Run Tee 6mm Tube x 1/8 Male	5
50222N-6-1/4	Run Tee 6mm Tube x 1/4 Male	5
50040N-6	Union 6mm Tube	5
50050N-6	Bulkhead Union 6mm Tube	5
50130N-6	Union Elbow 6mm Tube	5
50230N-6	Union Tee 6mm Tube	5

50860N-8

FITTING KIT - 8MM TUBE



Part No.	Description	Qty
50000N-8-1/8	Straight 8mm Tube x 1/8 Male	5
50000N-8-1/4	Straight 8mm Tube x 1/4 Male	5
50000N-8-3/8	Straight 8mm Tube x 3/8 Male	5
50110N-8-1/8	Swivel Elbow 8mm Tube x 1/8 Male	5
50110N-8-1/4	Swivel Elbow 8mm Tube x 1/4 Male	5
50110N-8-3/8	Swivel Elbow 8mm Tube x 3/8 Male	5
50210N-8-1/8	Branch Tee 8mm Tube x 1/8 Male	5
50210N-8-1/4	Branch Tee 8mm Tube x 1/4 Male	5
50040N-8	Union 8mm Tube	5
50050N-8	Bulkhead Union 8mm Tube	5
50130N-8	Union Elbow 8mm Tube	5
50230N-8	Union Tee 8mm Tube	5

50860N-10

FITTING KIT - 10MM TUBE



Part No.	Description	Qty
50000N-10-1/4	Straight 10mm Tube x 1/4 Male	3
50000N-10-3/8	Straight 10mm Tube x 3/8 Male	3
50110N-10-1/4	Swivel Elbow 10mm Tube x 1/4 Male	3
50110N-10-3/8	Swivel Elbow 10mm Tube x 3/8 Male	3
50210N-10-1/4	Branch Tee 10mm Tube x 1/4 Male	3
50210N-10-3/8	Branch Tee 10mm Tube x 3/8 Male	3
50222N-10-1/4	Run Tee 10mm Tube x 1/4 Male	3
50222N-10-3/8	Run Tee 10mm Tube x 3/8 Male	3
50040N-10	Union 10mm Tube	3
50050N-10	Bulkhead Union 10mm Tube	3
50130N-10	Union Elbow 10mm Tube	3
50230N-10	Union Tee 10mm Tube	3

50860N-12

FITTING KIT - 12MM TUBE



Part No.	Description	Qty
50000N-12-3/8	Straight 12mm Tube x 3/8 Male	3
50000N-12-1/2	Straight 12mm Tube x 1/2 Male	3
50110N-12-3/8	Swivel Elbow 12mm Tube x 3/8 Male	3
50110N-12-1/2	Swivel Elbow 12mm Tube x 1/2 Male	3
50210N-12-3/8	Branch Tee 12mm Tube x 3/8 Male	3
50210N-12-1/2	Branch Tee 12mm Tube x 1/2 Male	3
50222N-12-3/8	Run Tee 12mm Tube x 3/8 Male	3
50222N-12-1/2	Run Tee 12mm Tube x 1/2 Male	3
50040N-12	Union 12mm Tube	3
50050N-12	Bulkhead Union 12mm Tube	3
50130N-12	Union Elbow 12mm Tube	3
50230N-12	Union Tee 12mm Tube	3

85 Series

 85110 Pag. 5.5	 85170 Pag. 5.5	 85210 Pag. 5.5	 85222 Pag. 5.6	 85320 Pag. 5.6	 85340 Pag. 5.6	 85360 Pag. 5.6	 85110 Pag. 5.7	 85210 Pag. 5.7
 85222 Pag. 5.7	 85320 Pag. 5.7	 85040 Pag. 5.7	 85130 Pag. 5.8	 85140 Pag. 5.8	 85150 Pag. 5.8	 85160 Pag. 5.8	 85180 Pag. 5.8	 85230 Pag. 5.9
 85240 Pag. 5.9	 85310 Pag. 5.9	 85330 Pag. 5.9	 85350 Pag. 5.10	 85500 Pag. 5.10	 85510 Pag. 5.10	 85700 Pag. 5.10	 85705 Pag. 5.11	 88610 Pag. 5.11
 50980 Pag. 5.11								

For STRAIGHT FITTINGS see 87-88 series.

NYLON PUSH-TO-CONNECT FITTINGS FOR INCH TUBE



85 Series



TECHNICAL CHARACTERISTICS



Reference Standard

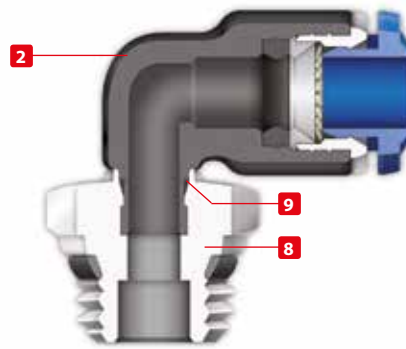
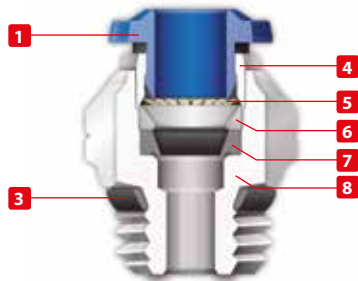
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

ISO
14743:2004

SILICON
FREE



Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR
-4° F ~ 176° F
-20° C ~ 80° C



Media

- Compressed air
- Vacuum
- Water



Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFFIT
UNF
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.



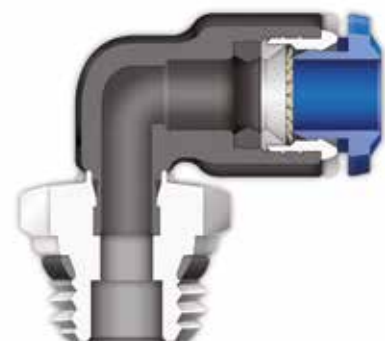
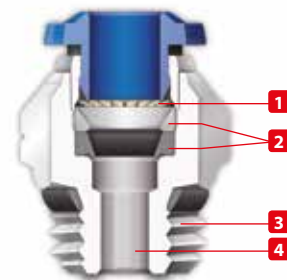
Component Parts and Materials

- 1 Composite Release Collet
- 2 Nylon Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Nickel Plated Thread Brass Body
- 9 NBR Seal



Tubing Compatibility

Nylon 6 - 11 -12
Polyethylene
Polyurethane ("98 Shore A for best result)
PTFE
FEP

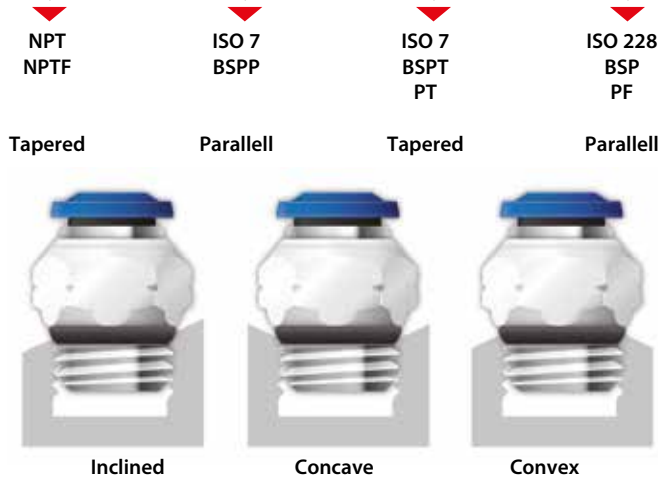




THREADS & ADVANTAGES



One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



UNF Threads



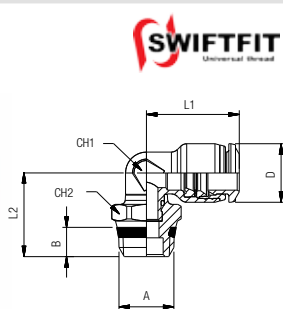
The **UNF** Thread has been designed to offer the following advantages to the end users:

- Standard USA design
- Designed for use in UNF connections with an integrated NBR o-ring that provides a perfect seal

Torque Specifications

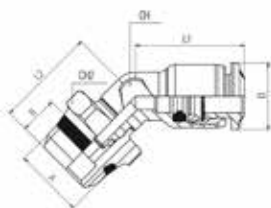
Recommended Torque		
Thread Size	Min.	Breaking Torque
10/32	0.8 Nm	3.2 Nm

85110
SWIVEL ELBOW



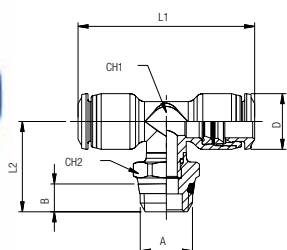
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85110-02-02	1/8	1/8	.216 (5.5)	.610 (15)	.649 (15.5)	.275 (7)	.511 (13)	.393 (10)
85110-02-04	1/8	1/4	.275 (7)	.610 (15)	.708 (18)	.275 (7)	.591 (15)	.393 (10)
85110-53-02	5/32 (4)	1/8	.216 (5.5)	.649 (16.5)	.649 (15.5)	.275 (7)	.511 (13)	.393 (10)
85110-53-04	5/32 (4)	1/4	.275 (7)	.649 (16.5)	.708 (18)	.275 (7)	.591 (15)	.393 (10)
85110-04-02	1/4	1/8	.216 (5.5)	.807 (20.5)	.688 (17.5)	.354 (9)	.511 (13)	.492 (12.5)
85110-04-04	1/4	1/4	.275 (7)	.807 (20.5)	.748 (19)	.354 (9)	.591 (15)	.492 (12.5)
85110-04-06	1/4	3/8	.295 (7.5)	.807 (20.5)	.787 (20)	.354 (9)	.669 (17)	.492 (12.5)
85110-04-08	1/4	1/2	.354 (9)	.807 (20.5)	.866 (22)	.354 (9)	.826 (21)	.492 (12.5)
85110-05-02	5/16 (8)	1/8	.216 (5.5)	.866 (22)	.728 (18.5)	.394 (10)	.511 (13)	.551 (14)
85110-05-04	5/16 (8)	1/4	.275 (7)	.866 (22)	.787 (20)	.394 (10)	.591 (15)	.551 (14)
85110-05-06	5/16 (8)	3/8	.295 (7.5)	.866 (22)	.807 (20.5)	.394 (10)	.669 (17)	.551 (14)
85110-05-08	5/16 (8)	1/2	.354 (9)	.866 (22)	.905 (23)	.394 (10)	.826 (21)	.551 (14)
85110-06-04	3/8	1/4	.275 (7)	1.043 (26.5)	.866 (22)	.551 (13)	.629 (16)	.669 (17)
85110-06-06	3/8	3/8	.295 (7.5)	1.043 (26.5)	.866 (22)	.551 (13)	.669 (17)	.669 (17)
85110-06-08	3/8	1/2	.354 (9)	1.043 (26.5)	.964 (24.5)	.551 (13)	.826 (21)	.669 (17)
85110-08-04	1/2	1/4	.275 (7)	1.200 (30.5)	.905 (23)	.629 (16)	.629 (16)	.787 (20)
85110-08-06	1/2	3/8	.295 (7.5)	1.200 (30.5)	.905 (23)	.629 (16)	.669 (17)	.787 (20)
85110-08-08	1/2	1/2	.354 (9)	1.200 (30.5)	1.003 (25.5)	.629 (16)	.826 (21)	.787 (20)

85170
45° SWIVEL ELBOW



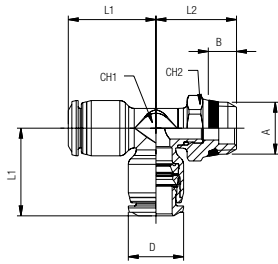
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85170-53-02	5/32 (4)	1/8	.217 (5.5)	.492 (12.5)	.650 (16.5)	.276 (7)	.512 (13)	.394 (10)
85170-04-02	1/4	1/8	.217 (5.5)	.807 (20.5)	.689 (17.5)	.354 (9)	.512 (13)	.472 (12)
85170-04-04	1/4	1/4	.276 (7)	.807 (20.5)	.744 (18.9)	.354 (9)	.591 (15)	.472 (12)
85170-05-02	5/16 (8)	1/8	.217 (5.5)	.866 (22)	.728 (18.5)	.394 (10)	.512 (13)	.551 (14)
85170-05-04	5/16 (8)	1/4	.276 (7)	.866 (22)	.787 (20)	.394 (10)	.591 (15)	.551 (14)
85170-05-06	5/16 (8)	3/8	.295 (7.5)	.866 (22)	.807 (20.5)	.394 (10)	.669 (17)	.551 (14)
85170-06-04	3/8	1/4	.276 (7)	1.043 (26.5)	.858 (21.8)	.512 (13)	.630 (16)	.669 (17)
85170-06-06	3/8	3/8	.295 (7.5)	1.043 (26.5)	.957 (24.3)	.512 (13)	.669 (17)	.669 (17)
85170-06-08	3/8	1/2	.354 (9)	1.043 (26.5)	.909 (23.1)	.512 (13)	.827 (21)	.669 (17)
85170-08-04	1/2	1/4	.276 (7)	1.181 (30)	.909 (23.1)	.630 (16)	.630 (16)	.787 (20)
85170-08-06	1/2	3/8	.295 (7.5)	1.181 (30)	1.008 (25.6)	.630 (16)	.669 (17)	.787 (20)
85170-08-08	1/2	1/2	.354 (9)	1.181 (30)	.858 (21.8)	.630 (16)	.827 (21)	.787 (20)

85210
SWIVEL BRANCH TEE



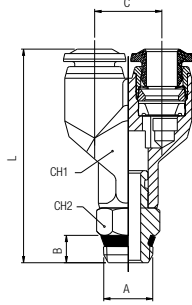
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85210-02-02	1/8	1/8	.216 (5.5)	1.200 (30.5)	.728 (18.5)	.275 (7)	.511 (13)	.393 (10)
85210-02-04	1/8	1/4	.275 (7)	1.200 (30.5)	.787 (20)	.275 (7)	.590 (15)	.393 (10)
85210-53-02	5/32 (4)	1/8	.216 (5.5)	.649 (16.5)	.728 (18.5)	.275 (7)	.511 (13)	.393 (10)
85210-53-04	5/32 (4)	1/4	.275 (7)	1.200 (30.5)	.787 (20)	.275 (7)	.354 (9)	.393 (10)
85210-04-02	1/4	1/8	.216 (5.5)	1.594 (40.5)	.787 (20)	.354 (9)	.511 (13)	.492 (12.5)
85210-04-04	1/4	1/4	.275 (7)	1.594 (40.5)	.846 (21.5)	.354 (9)	.590 (15)	.492 (12.5)
85210-05-02	5/16 (8)	1/8	.216 (5.5)	1.732 (44)	.826 (21)	.394 (10)	.511 (13)	.551 (14)
85210-05-04	5/16 (8)	1/4	.275 (7)	1.732 (44)	.885 (22.5)	.394 (10)	.590 (15)	.551 (14)
85210-05-06	5/16 (8)	3/8	.295 (7.5)	1.732 (44)	.905 (23)	.394 (10)	.669 (17)	.551 (14)
85210-06-04	3/8	1/4	.275 (7)	2.086 (53)	1.023 (26)	.551 (13)	.629 (16)	.669 (17)
85210-06-06	3/8	3/8	.295 (7.5)	2.086 (53)	1.023 (26)	.551 (13)	.669 (17)	.669 (17)
85210-06-08	3/8	1/2	.354 (9)	2.086 (53)	1.023 (26)	.551 (13)	.826 (21)	.669 (17)
85210-08-04	1/2	1/4	.275 (7)	2.421 (61.5)	1.062 (27)	.629 (16)	.629 (16)	.787 (20)
85210-08-06	1/2	3/8	.295 (7.5)	2.421 (61.5)	1.062 (27)	.629 (16)	.669 (17)	.787 (20)
85210-08-08	1/2	1/2	.354 (9)	2.421 (61.5)	1.062 (27)	.629 (16)	.826 (21)	.787 (20)

85222
SWIVEL RUN TEE



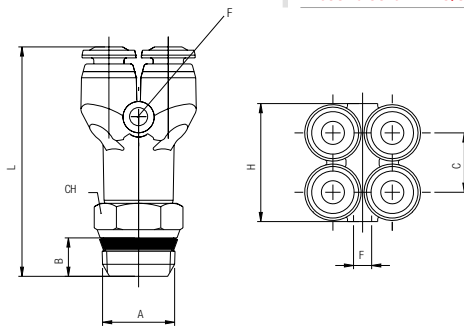
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85222-02-02	1/8	1/8	.216 (5,5)	.610 (15)	.708 (18)	.275 (7)	.511 (13)	.393 (10)
85222-02-04	1/8	1/4	.275 (7)	.610 (15)	.767 (19,5)	.275 (7)	.590 (15)	.393 (10)
85222-53-02	5/32 (4)	1/8	.216 (5,5)	.551 (14)	.708 (18)	.275 (7)	.511 (13)	.393 (10)
85222-53-04	5/32 (4)	1/4	.275 (7)	.551 (14)	.767 (19,5)	.275 (7)	.590 (15)	.393 (10)
85222-04-02	1/4	1/8	.216 (5,5)	.807 (20,5)	.688 (17,5)	.354 (9)	.511 (13)	.492 (12,5)
85222-04-04	1/4	1/4	.275 (7)	.807 (20,5)	.748 (19)	.354 (9)	.590 (15)	.492 (12,5)
85222-05-02	5/16 (8)	1/8	.216 (5,5)	.866 (22)	.748 (19)	.394 (10)	.511 (13)	.551 (14)
85222-05-04	5/16 (8)	1/4	.275 (7)	.866 (22)	.807 (20,5)	.394 (10)	.590 (15)	.551 (14)
85222-05-06	5/16 (8)	3/8	.295 (7,5)	.866 (22)	.826 (21)	.394 (10)	.669 (17)	.551 (14)
85222-06-04	3/8	1/4	.275 (7)	1.043 (26,5)	.866 (22)	.551 (13)	.629 (16)	.669 (17)
85222-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	.866 (22)	.551 (13)	.669 (17)	.669 (17)
85222-06-08	3/8	1/2	.354 (9)	1.043 (26,5)	.964 (24,5)	.551 (13)	.826 (21)	.669 (17)
85222-08-04	1/2	1/4	.275 (7)	1.200 (30,5)	.905 (23)	.629 (16)	.629 (16)	.787 (20)
85222-08-06	1/2	3/8	.295 (7,5)	1.200 (30,5)	.905 (23)	.629 (16)	.669 (17)	.787 (20)
85222-08-08	1/2	1/2	.354 (9)	1.200 (30,5)	1.003 (25,5)	.629 (16)	.826 (21)	.787 (20)

85320
UNION Y



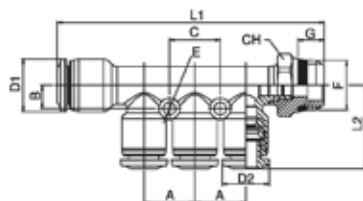
Part No.	Tube	A	B	C	L	CH1	CH2
85320-53-02	5/32 (4)	1/8	.216 (5,5)	.433 (11)	1.496 (38)	.393 (10)	.433 (11)
85320-53-04	5/32 (4)	1/4	.275 (7)	.433 (11)	1.594 (40,5)	.393 (10)	.551 (14)
85320-04-02	1/4	1/8	.216 (5,5)	.511 (13)	1.692 (43)	.472 (12)	.433 (11)
85320-04-04	1/4	1/4	.275 (7)	.531 (13,5)	1.791 (45,5)	.472 (12)	.551 (14)
85320-05-02	5/16 (8)	1/8	.216 (5,5)	.610 (15,5)	1.850 (47)	.551 (14)	.433 (11)
85320-05-04	5/16 (8)	1/4	.275 (7)	.610 (15,5)	1.929 (49)	.551 (14)	.551 (14)
85320-05-06	5/16 (8)	3/8	.295 (7,5)	.610 (15,5)	1.948 (49,5)	.551 (14)	.669 (17)
85320-06-04	3/8	1/4	.275 (7)	.748 (19)	2.224 (56,5)	.669 (17)	.551 (14)
85320-06-06	3/8	3/8	.295 (7,5)	.748 (19)	2.263 (57,5)	.669 (17)	.669 (17)
85320-06-08	3/8	1/2	.354 (9)	.748 (19)	2.362 (60)	.669 (17)	.826 (21)
85320-08-06	1/2	3/8	.295 (7,5)	.866 (22)	2.618 (66,5)	.787 (20)	.669 (17)
85320-08-08	1/2	1/2	.354 (9)	.866 (22)	2.677 (68)	.787 (20)	.826 (21)

85340
4 POSITION Y



Part No.	Tube	A	B	C	L	H	CH	F
85340-53-02	5/32 (4)	1/8	.217 (5,5)	.425 (10,8)	1.555 (39,5)	.846 (21,5)	.433 (11)	.130 (3,3)
85340-53-04	5/32 (4)	1/4	.276 (7)	.425 (10,8)	1.654 (42)	.846 (21,5)	.551 (14)	.130 (3,3)

85360
REDUCTION MANIFOLD

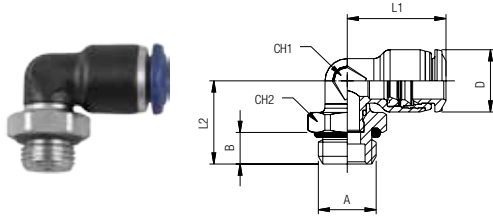


Part No.	Tube	F	A	B	L1	L2	C	E	G	H	D1	D2
85360-05-53-02	5/16(8)-5/32(4)	1/8	.531 (13,5)	.236 (6)	2.756 (70)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.217 (5,5)	.512 (13)	.551 (14)	.472 (12)
85360-05-53-04	5/16(8)-5/32(4)	1/4	.531 (13,5)	.236 (6)	2.811 (71,4)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.276 (7)	.591 (15)	.551 (14)	.472 (12)

85110

SWIVEL ELBOW

UNF

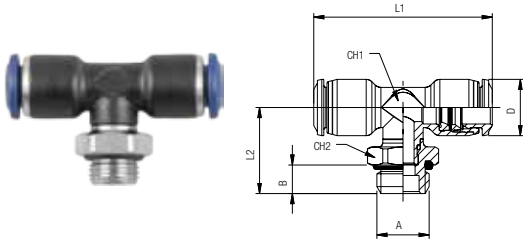


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85110-53-32	5/32 (4)	10/32	.157 (4)	.649 (16,5)	.567 (14,5)	.275 (7)	.354 (9)	.393 (10)
85110-04-32	1/4	10/32	.157 (4)	.807 (20,5)	.610 (15,5)	.354 (9)	.354 (9)	.492 (12,5)

85210

SWIVEL BRANCH TEE

UNF

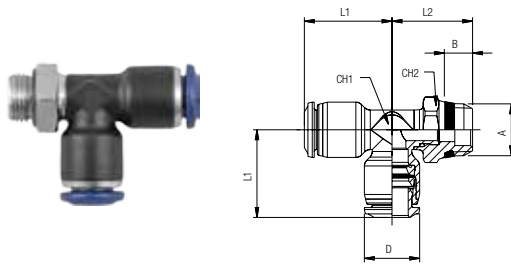


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85210-53-32	5/32 (4)	10/32	.157 (4)	1.200 (30,5)	.629 (16)	.275 (7)	.354 (9)	.393 (10)
85210-04-32	1/4	10/32	.157 (4)	1.594 (40,5)	.610 (15,5)	.354 (9)	.354 (9)	.492 (12,5)

85222

SWIVEL RUN TEE

UNF

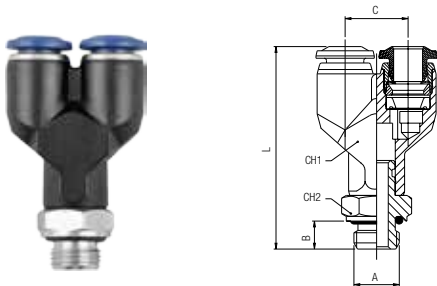


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
85222-53-32	5/32 (4)	10/32	.157 (4)	.649 (16,5)	.629 (16)	.275 (7)	.354 (9)	.393 (10)
85222-04-32	1/4	10/32	.157 (4)	.807 (20,5)	.570 (14,5)	.354 (9)	.354 (9)	.492 (12,5)

85320

UNION Y

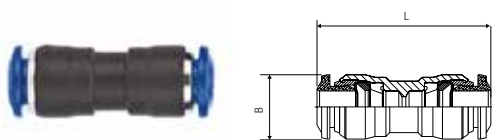
UNF



Part No.	Tube	A	B	C	L	CH1	CH2
85320-53-32	5/32 (4)	10/32	.157 (4)	.433 (11)	1.437 (36,5)	.393 (10)	.393 (10)
85320-04-32	1/4	10/32	.157 (4)	.531 (13,5)	1.633 (41,5)	.472 (12)	.393 (10)

85040

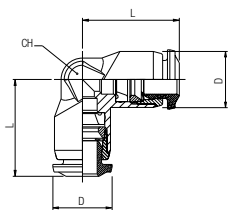
UNION



Part No.	Tube	Tube	B	L
85040-02	1/8	1/8	.394 (10)	1.102 (28)
85040-53	5/32 (4)	5/32 (4)	.394 (10)	1.220 (31)
85040-04-53	1/4	5/32 (4)	.492 (12,5)	1.358 (34,5)
85040-04	1/4	1/4	.492 (12,5)	1.377 (35)
85040-05-04	5/16 (8)	1/4	.551 (14)	1.496 (38)
85040-05	5/16 (8)	5/16 (8)	.551 (14)	1.456 (37)
85040-06-04	3/8	1/4	.669 (17)	1.751 (44,5)
85040-06-05	3/8	5/16 (8)	.669 (17)	1.751 (44,5)
85040-06	3/8	3/8	.669 (17)	1.771 (45)
85040-08-06	1/2	3/8	.787 (20)	1.968 (50)
85040-08	1/2	1/2	.787 (20)	1.929 (49)

85130

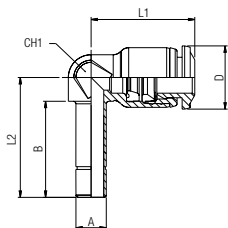
UNION ELBOW



Part No.	Tube	L	CH	D
85130-02	1/8	.610 (15,5)	.354 (9)	.393 (10)
85130-53	5/32 (4)	.649 (16,5)	.354 (9)	.393 (10)
85130-04	1/4	.807 (20,5)	.433 (11)	.492 (12,5)
85130-05	5/16 (8)	.866 (22)	.511 (13)	.551 (14)
85130-06	3/8	1.043 (26,5)	.629 (16)	.669 (17)
85130-08	1/2	1.200 (30,5)	.748 (19)	.787 (20)

85140

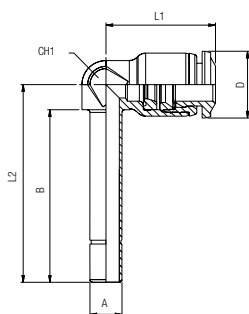
ELBOW PLUG IN



Part No.	Tube	A	B	L1	L2	CH1	D
85140-53	5/32 (4)	5/32 (4)	.669 (17)	.650 (16,5)	.819 (20,8)	.276 (7)	.394 (10)
85140-04	1/4	1/4	.748 (19)	.807 (20,5)	.933 (23,7)	.354 (9)	.492 (12,5)
85140-05	5/16 (8)	5/16 (8)	.787 (20)	.866 (22)	1.024 (26)	.394 (10)	.551 (14)
85140-06	3/8	3/8	.886 (22,5)	1.043 (26,5)	1.181 (30)	.512 (13)	.669 (17)
85140-08	1/2	1/2	1.004 (25,5)	1.181 (30)	1.319 (33,5)	.630 (16)	.787 (20)

85150

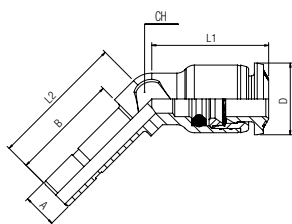
ELBOW PLUG IN



Part No.	Tube	A	B	L1	L2	CH1	D
85150-53	5/32 (4)	5/32 (4)	1.102 (28)	.650 (16,5)	1.252 (31,8)	.276 (7)	.394 (10)
85150-04	1/4	1/4	1.272 (32,3)	.807 (20,5)	1.457 (37)	.354 (9)	.492 (12,5)
85150-05	5/16 (8)	5/16 (8)	1.417 (36)	.866 (22)	1.654 (42)	.394 (10)	.551 (14)
85150-06	3/8	3/8	1.606 (40,8)	1.043 (26,5)	1.902 (48,3)	.512 (13)	.669 (17)
85150-08	1/2	1/2	1.850 (47)	1.220 (31)	2.165 (55)	.630 (16)	.787 (20)

85160

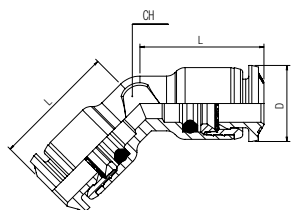
45° SWIVEL ELBOW



Part No.	Tube	A	B	L1	L2	CH1	D
85160-53	5/32 (4)	5/32 (4)	.669 (17)	.492 (12,5)	.827 (21)	.276 (7)	.394 (10)
85160-04	1/4	1/4	.748 (19)	.807 (20,5)	.925 (23,5)	.354 (9)	.472 (12)
85160-05	5/16 (8)	5/16 (8)	.787 (20)	.866 (22)	.984 (25)	.394 (10)	.551 (14)
85160-06	3/8	3/8	.886 (22,5)	1.043 (26,5)	1.181 (30)	.512 (13)	.669 (17)
85160-08	1/2	1/2	1.004 (25,5)	1.181 (30)	1.319 (33,5)	.630 (16)	.787 (20)

85180

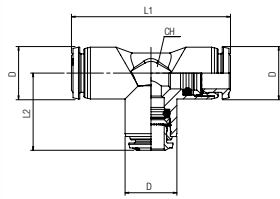
45° UNION



Part No.	Tube	L	CH	D
85180-53	5/32 (4)	.650 (16,5)	.276 (7)	.394 (10)
85180-04	1/4	.807 (20,5)	.354 (9)	.472 (12)
85180-05	5/16 (8)	.866 (22)	.394 (10)	.551 (14)
85180-06	3/8	1.043 (26,5)	.512 (13)	.669 (17)
85180-08	1/2	1.181 (30)	.630 (16)	.787 (20)

85230

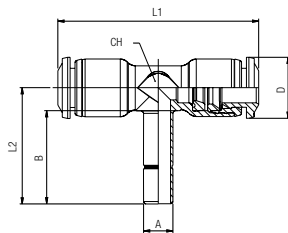
UNION TEE



Part No.	Tube	L1	L2	CH	D
85230-02	1/8	1.220 (31)	.610 (15,5)	.354 (9)	.393 (10)
85230-53	5/32 (4)	1.200 (30,5)	.649 (16,5)	.345 (9)	.393 (10)
85230-04	1/4	1.614 (41)	.807 (20,5)	.433 (11)	.492 (12,5)
85230-05	5/16 (8)	1.732 (44)	.866 (22)	.511 (13)	.551 (14)
85230-06	3/8	2.086 (53)	1.043 (26,5)	.629 (16)	.669 (17)
85230-08	1/2	2.421 (61,5)	1.200 (30,5)	.748 (19)	.787 (20)

85240

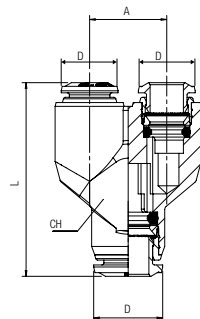
TEE PLUG IN



Part No.	Tube	A	B	L1	L2	CH	D
85240-53	5/32 (4)	5/32 (4)	.669 (17)	1.299 (33)	.815 (20,7)	.276 (7)	.394 (10)
85240-04	1/4	1/4	.748 (19)	1.614 (41)	.933 (23,7)	.354 (9)	.492 (12,5)
85240-05	5/16 (8)	5/16 (8)	.787 (20)	1.732 (44)	1.024 (26)	.394 (10)	.551 (14)
85240-32	10	10	.886 (22,5)	2.087 (53)	1.181 (30)	.512 (13)	.669 (17)

85310

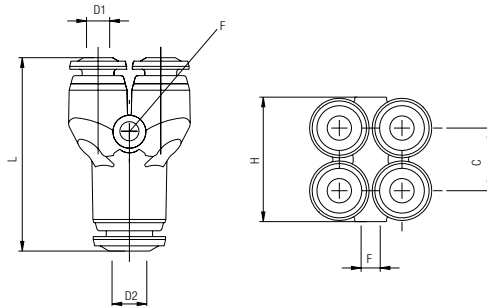
UNION Y



Part No.	Tube	L1	A	CH	D
85310-53	5/32 (4)	1.240 (31,5)	.433 (11)	.393 (10)	.393 (10)
85310-04	1/4	1.456 (37)	.531 (13,5)	.472 (12)	.492 (12,5)
85310-05	5/16 (8)	1.574 (40)	.610 (15,5)	.551 (14)	.551 (14)
85310-06	3/8	1.850 (47)	.748 (19)	.669 (17)	.708 (18)
85310-08	1/2	2.322 (59)	.866 (22)	.787 (20)	.787 (20)

85330

4 POSITION Y

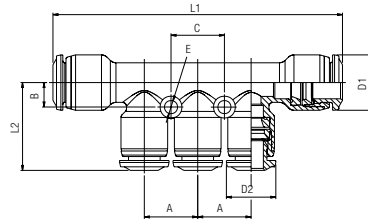


Part No.	D1	D2	C	L	F	H
85330-53-53	5/32 (4)	5/32 (4)	.425 (10,8)	1.319 (33,5)	.130 (3,3)	.846 (21,5)

85350

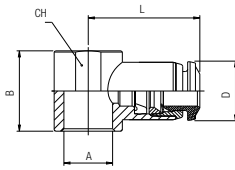
REDUCTION MANIFOLD

Part No.	Tube	A	B	L1	L2	C	E	D1	D2
85350-05-53	5/16(8)-5/32(4)	.531 (13,5)	.236 (6)	2.874 (73)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.551 (14)	.472 (12)



85500

SINGLE BANJO BODY

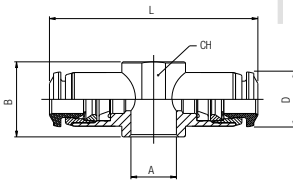


Part No.	Tube	A	B	L	CH	D
85500-02-02	1/8	M6	.551 (14)	.807 (20,5)	.354 (9)	.394 (10)
85500-02-02	1/8	1/8	.649 (16,5)	.807 (20,5)	.551 (14)	.394 (10)
85500-53-M5	5/32 (4)	M5	.551 (14)	.807 (20,5)	.354 (9)	.394 (10)
85500-53-M6	5/32 (4)	M6	.551 (14)	.807 (20,5)	.354 (9)	.394 (10)
85500-53-02	5/32 (4)	1/8	.551 (14)	.846 (21,5)	.551 (14)	.394 (10)
85500-53-04	5/32 (4)	1/4	.728 (18,5)	.925 (23,5)	.708 (18)	.394 (10)
85500-04-M6	1/4	M6	.551 (14)	.826 (21)	.354 (9)	.472 (12)
85500-04-02	1/4	1/8	.649 (16,5)	.905 (23)	.551 (14)	.472 (12)
85500-04-04	1/4	1/4	.728 (18,5)	1.003 (25,5)	.708 (18)	.472 (12)
85500-05-02	5/16 (8)	1/8	.649 (16,5)	.925 (23,5)	.551 (14)	.551 (14)
85500-05-04	5/16 (8)	1/4	.728 (18,5)	1.023 (26)	.708 (18)	.551 (14)
85500-05-3/8	5/16 (8)	3/8	.866 (22)	1.082 (27,5)	.826 (21)	.551 (14)
85500-06-1/4	3/8	1/4	.728 (18,5)	1.221 (31)	.708 (18)	.669 (17)
85500-06-3/8	3/8	3/8	.866 (22)	1.200 (30,5)	.826 (21)	.669 (17)
85500-08-06	1/2	3/8	.866 (22)	1.279 (32,5)	.826 (21)	.787 (20)
85500-08-08	1/2	1/2	1.023 (26)	1.377 (35)	1.023 (26)	.787 (20)

For BANJO STEM assemblies see 10.7/10.8/10.9

85510

DOUBLE BANJO BODY

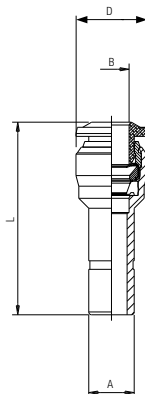


Part No.	Tube	A	B	L	CH	D
85510-53-M5	5/32 (4)	M5	.551 (14)	1.692 (43)	.551 (14)	.394 (10)
85510-05-02	5/16 (8)	1/8	.649 (16,5)	1.850 (47)	.551 (14)	.551 (14)
85510-05-04	5/16 (8)	1/8	.728 (18,5)	2.047 (52)	.708 (18)	.551 (14)

For BANJO STEM assemblies see 10.7/10.8/10.9

85700

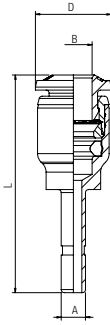
TUBE REDUCER



Part No.	A	B	L	D
85700-04-53	1/4	5/32 (4)	1.339 (34)	.394 (10)
85700-05-53	5/16 (8)	5/32 (4)	1.496 (38)	.472 (12)
85700-05-04	5/16 (8)	1/4	1.535 (39)	.492 (12,5)
85700-06-04	3/8	1/4	1.673 (42,5)	.492 (12,5)
85700-06-05	3/8	5/16 (8)	1.654 (42)	.551 (14)
85700-08-04	1/2	1/4	1.516 (38,5)	.492 (12,5)
85700-08-05	1/2	5/16 (8)	1.634 (41,5)	.551 (14)
85700-08-06	1/2	3/8	1.909 (48,5)	.669 (17)

85705

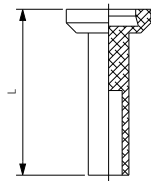
TUBE EXPANDER



Part No.	A	B	L	D
85705-53-04	5/32 (4)	1/4	1.417 (36)	.472 (12)
85705-04-05	1/4	5/16 (8)	1.516 (38,5)	.551 (14)
85705-04-06	1/4	3/8	1.654 (42)	.669 (17)
85705-05-06	5/16 (8)	3/8	1.693 (43)	.669 (17)
85705-06-08	3/8	1/2	1.89 (48)	.787 (20)

88610

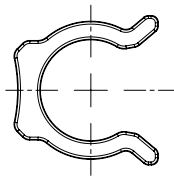
NYLON PLUG



Part No.	Tube	L
88610-02	1/8	.708 (18)
88610-53	5/32 (4)	.925 (23,5)
88610-04	1/4	.964 (24,5)
88610-05	5/16 (8)	1.023 (26)
88610-06	3/8	1.122 (28,5)
88610-08	1/2	1.122 (28,5)

50980

SECURITY CLIP



Part No.	Tube
50980-4-5/32	5/32 (4)
50980-5	3/16 (5)
50980-6-1/4	1/4 (6)
50980-8-5/16	5/16 (8)
50980-10-3/8	3/8 (10)
50980-12-1/2	1/2 (12)
50980-14	(14)

55 Series

 55110 Pag. 6.5	 55170 Pag. 6.5	 55210 Pag. 6.5	 55222 Pag. 6.6	 55320 Pag. 6.6	 55340 Pag. 6.6	 55360 Pag. 6.6	 55116 Pag. 6.7	 55125 Pag. 6.7
 55175 Pag. 6.7	 55216 Pag. 6.8	 55226 Pag. 6.8	 55325 Pag. 6.8	 55345 Pag. 6.9	 55365 Pag. 6.9	 55040 Pag. 6.9	 55130 Pag. 6.9	 55140 Pag. 6.10
 55150 Pag. 6.10	 55160 Pag. 6.10	 55180 Pag. 6.10	 55230 Pag. 6.11	 55235 Pag. 6.11	 55237 Pag. 6.11	 55240 Pag. 6.11	 55310 Pag. 6.12	 55315 Pag. 6.12
 55330 Pag. 6.12	 55350 Pag. 6.12	 55500 Pag. 6.13	 55510 Pag. 6.13	 55520 Pag. 6.13	 55625 Pag. 6.14	 55700 Pag. 6.14	 55705 Pag. 6.14	

For STRAIGHT FITTINGS see 50N series.

56 Series - Mini

 56010 Pag. 6.15	 56020 Pag. 6.15	 56115 Pag. 6.15	 56215 Pag. 6.15	 56225 Pag. 6.15	 56550 Pag. 6.16	 56040 Pag. 6.16	 56050 Pag. 6.16	 56130 Pag. 6.16
 56230 Pag. 6.16								

NYLON PUSH-TO-CONNECT FITTINGS
FOR METRIC TUBE



55-56 Series



TECHNICAL CHARACTERISTICS



Reference Standard

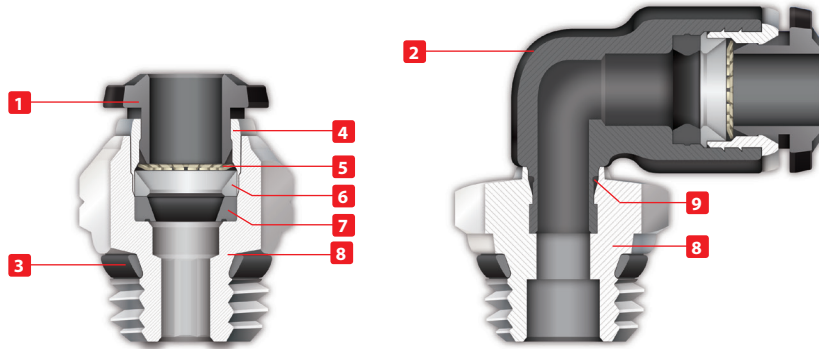
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

ISO
14743:2004

SILICON
FREE



Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR
-4° F ~ 176° F
-20° C ~ 80° C



Media

- Compressed air
- Vacuum
- Water



Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 303 Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFFFIT
BSPP
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.



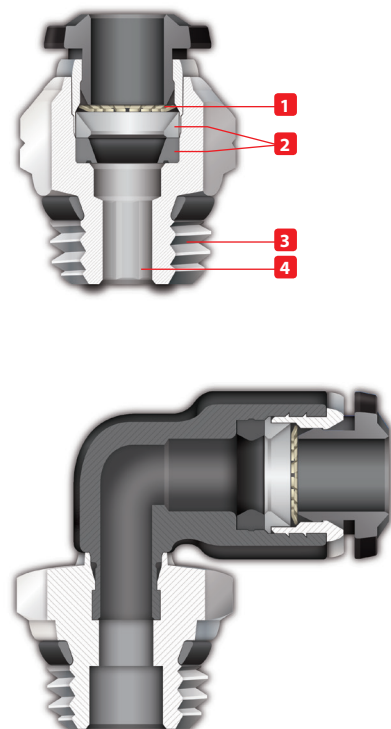
Component Parts and Materials

- 1 Composite Release Collet
- 2 Nylon Body
- 3 NBR Thread Seal
- 4 Nickel Plated Brass Sleeve
- 5 303 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 NBR Molded Seal
- 8 Nickel Plated Thread Brass Body
- 9 NBR Seal



Tubing Compatibility

Nylon 6 - 11 -12
Polyethylene
Polyurethane ("98 Shore A for best result)
PTFE
FEP



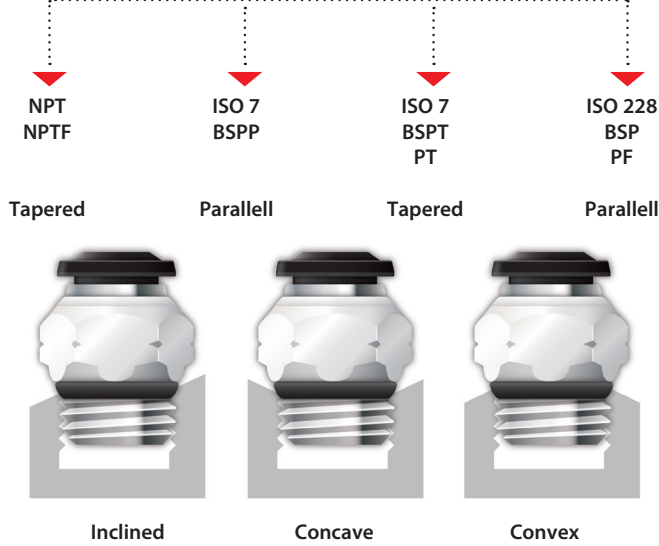


THREADS & ADVANTAGES



SWIFFFIT
Universal thread

One fittings... Endless possibilities



Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



BSPP Threads



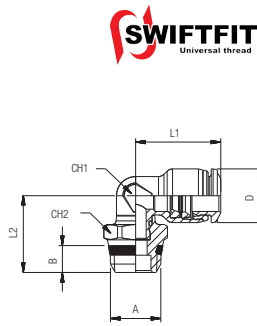
The **BSPP** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 228 and ISO R/262
- Designed for use in BSPP connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

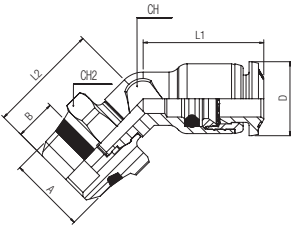
Recommended Torque		
Thread Size	Min.	Breaking Torque
M5	0.8 Nm	3.2 Nm
1/2	3 Nm	8 Nm
1/4	9 Nm	30 Nm
3/8	10 Nm	60 Nm
1/2	12 Nm	50 Nm

55110
SWIVEL ELBOW



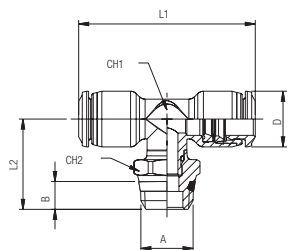
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55110-4-1/8	5/32 (4)	1/8	.217 (5,5)	.650 (16,5)	.650 (16,5)	.276 (7)	.512 (13)	.394 (10)
55110-4-1/4	5/32 (4)	1/4	.276 (7)	.650 (16,5)	.709 (18)	.276 (7)	.591 (15)	.394 (10)
55110-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.685 (17,4)	.354 (9)	.512 (13)	.472 (12)
55110-6-1/8	6	1/8	.217 (5,5)	.807 (20,5)	.685 (17,4)	.354 (9)	.512 (13)	.472 (12)
55110-6-1/4	6	1/4	.276 (7)	.807 (20,5)	.744 (18,9)	.354 (9)	.591 (15)	.472 (12)
55110-6-3/8	6	3/8	.295 (7,5)	.807 (20,5)	.787 (20)	.354 (9)	.669 (17)	.472 (12)
55110-6-1/2	6	1/2	.354 (9)	.807 (20,5)	.866 (22)	.354 (9)	.827 (21)	.472 (12)
55110-8-1/8	5/16 (8)	1/8	.217 (5,5)	.866 (22)	.728 (18,5)	.394 (10)	.512 (13)	.551 (14)
55110-8-1/4	5/16 (8)	1/4	.276 (7)	.866 (22)	.787 (20)	.394 (10)	.591 (15)	.551 (14)
55110-8-3/8	5/16 (8)	3/8	.295 (7,5)	.866 (22)	.807 (20,5)	.394 (10)	.669 (17)	.551 (14)
55110-8-1/2	5/16 (8)	1/2	.354 (9)	.866 (22)	.906 (23)	.394 (10)	.827 (21)	.551 (14)
55110-10-1/4	10	1/4	.276 (7)	1043 (26,5)	.858 (21,8)	.512 (13)	.630 (16)	.669 (17)
55110-10-3/8	10	3/8	.295 (7,5)	1043 (26,5)	.858 (21,8)	.512 (13)	.669 (17)	.669 (17)
55110-10-1/2	10	1/2	.354 (9)	1043 (26,5)	.957 (24,3)	.512 (13)	.827 (21)	.669 (17)
55110-12-1/4	12	1/4	.276 (7)	1181 (30)	.909 (23,1)	.630 (16)	.630 (16)	.787 (20)
55110-12-3/8	12	3/8	.295 (7,5)	1181 (30)	.909 (23,1)	.630 (16)	.669 (17)	.787 (20)
55110-12-1/2	12	1/2	.354 (9)	1181 (30)	1008 (25,6)	.630 (16)	.827 (21)	.787 (20)
55110-14-3/8	14	3/8	.295 (7,5)	1220 (31)	1043 (26,5)	.709 (18)	.787 (20)	.827 (21)
55110-14-1/2	14	1/2	.354 (9)	1220 (31)	1063 (27)	.709 (18)	.827 (21)	.827 (21)

55170
45° SWIVEL ELBOW



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55170-4-1/8	5/32 (4)	1/8	.217 (5,5)	.492 (12,5)	.650 (16,5)	.276 (7)	.512 (13)	.394 (10)
55170-6-1/8	6	1/8	.217 (5,5)	.807 (20,5)	.689 (17,5)	.354 (9)	.512 (13)	.472 (12)
55170-6-1/4	6	1/4	.276 (7)	.807 (20,5)	.744 (18,9)	.354 (9)	.591 (15)	.472 (12)
55170-8-1/8	5/16 (8)	1/8	.217 (5,5)	.866 (22)	.728 (18,5)	.394 (10)	.512 (13)	.551 (14)
55170-8-1/4	5/16 (8)	1/4	.276 (7)	.866 (22)	.787 (20)	.394 (10)	.591 (15)	.551 (14)
55170-8-3/8	5/16 (8)	3/8	.295 (7,5)	.866 (22)	.807 (20,5)	.394 (10)	.669 (17)	.551 (14)
55170-10-1/4	10	1/4	.276 (7)	1043 (26,5)	.858 (21,8)	.512 (13)	.630 (16)	.669 (17)
55170-10-3/8	10	3/8	.295 (7,5)	1043 (26,5)	.957 (24,3)	.512 (13)	.669 (17)	.669 (17)
55170-10-1/2	10	1/2	.354 (9)	1043 (26,5)	.909 (23,1)	.512 (13)	.827 (21)	.669 (17)
55170-12-1/4	12	1/4	.276 (7)	1181 (30)	.909 (23,1)	.630 (16)	.630 (16)	.787 (20)
55170-12-3/8	12	3/8	.295 (7,5)	1181 (30)	1008 (25,6)	.630 (16)	.669 (17)	.787 (20)
55170-12-1/2	12	1/2	.354 (9)	1181 (30)	.858 (21,8)	.630 (16)	.827 (21)	.787 (20)

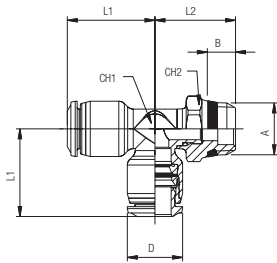
55210
SWIVEL BRANCH TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55210-4-1/8	5/32 (4)	1/8	.217 (5,5)	1.299 (33)	.736 (18,7)	.276 (7)	.512 (13)	.394 (10)
55210-4-1/4	5/32 (4)	1/4	.276 (7)	1.299 (33)	.795 (20,2)	.276 (7)	.591 (15)	.394 (10)
55210-5-1/8	5	1/8	.217 (5,5)	1.575 (40)	.787 (20)	.354 (9)	.512 (13)	.472 (12)
55210-6-1/8	6	1/8	.217 (5,5)	1.614 (41)	.787 (20)	.354 (9)	.512 (13)	.492 (12,5)
55210-6-1/4	6	1/4	.276 (7)	1.614 (41)	.846 (21,5)	.354 (9)	.591 (15)	.492 (12,5)
55210-8-1/8	5/32 (8)	1/8	.217 (5,5)	1.732 (44)	.835 (21,2)	.394 (10)	.512 (13)	.551 (14)
55210-8-1/4	5/32 (8)	1/4	.276 (7)	1.732 (44)	.894 (22,7)	.394 (10)	.591 (15)	.551 (14)
55210-8-3/8	5/32 (8)	3/8	.295 (7,5)	1.732 (44)	.913 (23,2)	.394 (10)	.669 (17)	.551 (14)
55210-10-1/4	10	1/4	.276 (7)	2.087 (53)	1.012 (25,7)	.512 (13)	.630 (16)	.669 (17)
55210-10-3/8	10	3/8	.295 (7,5)	2.087 (53)	1.012 (25,7)	.512 (13)	.669 (17)	.669 (17)
55210-10-1/2	10	1/2	.354 (9)	2.087 (53)	1.11 (28,2)	.512 (13)	.827 (21)	.669 (17)
55210-12-1/4	12	1/4	.276 (7)	2.362 (60)	1.067 (27,1)	.630 (16)	.630 (16)	.787 (20)
55210-12-3/8	12	3/8	.295 (7,5)	2.362 (60)	1.067 (27,1)	.630 (16)	.669 (17)	.787 (20)
55210-12-1/2	12	1/2	.354 (9)	2.362 (60)	1.165 (29,6)	.630 (16)	.827 (21)	.787 (20)
55210-14-3/8	14	3/8	.295 (7,5)	2.402 (61)	1.189 (30,2)	.709 (18)	.787 (20)	.827 (21)
55210-14-1/2	14	1/2	.354 (9)	2.402 (61)	1.209 (30,7)	.709 (18)	.827 (21)	.827 (21)

55222

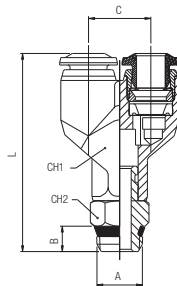
SWIVEL RUN TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55222-4-1/8	5/32 (4)	1/8	.217 (5,5)	.650 (16,5)	.717 (18,2)	.276 (7)	.512 (13)	.394 (10)
55222-4-1/8	5/32 (4)	1/4	.276 (7)	.650 (16,5)	.776 (19,7)	.276 (7)	.591 (15)	.394 (10)
55222-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.685 (17,4)	.354 (9)	.512 (13)	.472 (12)
55222-6-1/8	6	1/8	.217 (5,5)	.807 (20,5)	.685 (17,4)	.354 (9)	.512 (13)	.492 (12,5)
55222-6-1/4	6	1/4	.276 (7)	.807 (20,5)	.744 (18,9)	.354 (9)	.591 (15)	.492 (12,5)
55222-8-1/8	5/16 (8)	1/8	.217 (5,5)	.866 (22)	.744 (18,9)	.394 (10)	.512 (13)	.551 (14)
55222-8-1/4	5/16 (8)	1/4	.276 (7)	.866 (22)	.803 (20,4)	.394 (10)	.591 (15)	.551 (14)
55222-8-3/8	5/16 (8)	3/8	.295 (7,5)	.866 (22)	.823 (20,9)	.394 (10)	.669 (17)	.551 (14)
55222-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	.858 (21,8)	.512 (13)	.630 (16)	.669 (17)
55222-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	.858 (21,8)	.512 (13)	.669 (17)	.669 (17)
55222-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	.957 (24,3)	.512 (13)	.827 (21)	.669 (17)
55222-12-1/4	12	1/4	.276 (7)	1.220 (31)	.909 (23,1)	.630 (16)	.630 (16)	.787 (20)
55222-12-3/8	12	3/8	.295 (7,5)	1.220 (31)	.909 (23,1)	.630 (16)	.669 (17)	.787 (20)
55222-12-1/2	12	1/2	.354 (9)	1.220 (31)	1.008 (25,6)	.630 (16)	.827 (21)	.787 (20)
55222-14-3/8	14	3/8	.295 (7,5)	1.201 (30,5)	1.043 (26,5)	.709 (18)	.787 (20)	.827 (21)
55222-14-1/2	14	1/2	.354 (9)	1.201 (30,5)	1.063 (27)	.709 (18)	.827 (21)	.827 (21)

55320

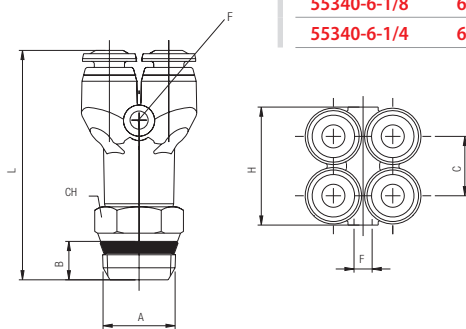
UNION Y



Part No.	Tube	A	B	C	L	CH1	CH2
55320-4-1/8	5/32 (4)	1/8	.217 (5,5)	.433 (11)	1.496 (38)	.394 (10)	.433 (11)
55320-4-1/4	5/32 (4)	1/4	.276 (7)	.433 (11)	1.594 (40,5)	.394 (10)	.551 (14)
55320-6-1/8	6	1/8	.217 (5,5)	.531 (13,5)	1.693 (43)	.472 (12)	.433 (11)
55320-6-1/4	6	1/4	.276 (7)	.531 (13,5)	1.791 (45,5)	.472 (12)	.551 (14)
55320-8-1/8	5/16 (8)	1/8	.217 (5,5)	.610 (15,5)	1.831 (46,5)	.551 (14)	.433 (11)
55320-8-1/4	5/16 (8)	1/4	.276 (7)	.610 (15,5)	1.929 (49)	.551 (14)	.551 (14)
55320-8-3/8	5/16 (8)	3/8	.295 (7,5)	.610 (15,5)	1.949 (49,5)	.551 (14)	.669 (17)
55320-10-1/4	10	1/4	.276 (7)	.748 (19)	2.224 (56,5)	.669 (17)	.551 (14)
55320-10-3/8	10	3/8	.295 (7,5)	.748 (19)	2.264 (57,5)	.669 (17)	.669 (17)
55320-10-1/2	10	1/2	.354 (9)	.748 (19)	2.362 (60)	.669 (17)	.827 (21)
55320-12-3/8	12	3/8	.295 (7,5)	.866 (22)	2.618 (66,5)	.787 (20)	.669 (17)
55320-12-1/2	12	1/2	.354 (9)	.866 (22)	2.677 (68)	.787 (20)	.827 (21)

55340

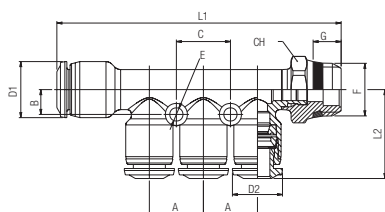
4 POSITION Y



Part No.	Tube	A	B	C	L	H	CH	F
55340-4-1/8	5/32 (4)	1/8	.217 (5,5)	.425 (10,8)	1.555 (39,5)	.846 (21,5)	.433 (11)	.130 (3,3)
55340-4-1/4	5/32 (4)	1/4	.276 (7)	.425 (10,8)	1.654 (42)	.846 (21,5)	.551 (14)	.130 (3,3)
55340-6-1/8	6	1/8	.217 (5,5)	.524 (13,3)	1.831 (46,5)	1.055 (26,8)	.433 (11)	.130 (3,3)
55340-6-1/4	6	1/4	.276 (7)	.524 (13,3)	1.890 (48)	1.055 (26,8)	.551 (14)	.130 (3,3)

55360

REDUCTION MANIFOLD

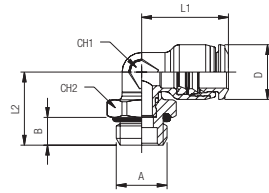


Part No.	Tube	F	A	B	L1	L2	C	E	G	H	D1	D2
55360-6-4-1/8	6-5/32(4)	1/8	.531 (13,5)	.236 (6)	2.756 (70)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.217 (5,5)	.512 (13)	.551 (14)	.472 (12)
55360-6-4-1/4	6-5/32(4)	1/4	.531 (13,5)	.236 (6)	2.811 (71,4)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.276 (7)	.591 (15)	.551 (14)	.472 (12)
55360-8-4-1/8	5/16(8)-5/32(4)	1/8	.531 (13,5)	.236 (6)	2.756 (70)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.217 (5,5)	.512 (13)	.551 (14)	.472 (12)
55360-8-4-1/4	5/16(8)-5/32(4)	1/4	.531 (13,5)	.236 (6)	2.811 (71,4)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.276 (7)	.591 (15)	.551 (14)	.472 (12)
55360-8-6-1/8	5/16(8)-6	1/8	.531 (13,5)	.236 (6)	2.756 (70)	.878 (22,3)	.531 (13,5)	.130 (3,3)	.217 (5,5)	.512 (13)	.551 (14)	.492 (12,5)
55360-8-6-1/4	5/16(8)-6	1/4	.531 (13,5)	.236 (6)	2.811 (71,4)	.878 (22,3)	.531 (13,5)	.130 (3,3)	.276 (7)	.591 (15)	.551 (14)	.492 (12,5)
55360-10-6-1/4	10-6	1/4	.591 (15)	.276 (7)	3.209 (81,5)	.933 (23,7)	.591 (15)	.130 (3,3)	.276 (7)	.630 (16)	.669 (17)	.551 (14)
55360-10-6-3/8	10-6	3/8	.591 (15)	.276 (7)	3.209 (81,5)	.933 (23,7)	.591 (15)	.130 (3,3)	.295 (7,5)	.669 (17)	.669 (17)	.551 (14)
55360-10-8-1/4	10-5/16(8)	1/4	.591 (15)	.276 (7)	3.209 (81,5)	.913 (23,2)	.591 (15)	.130 (3,3)	.276 (7)	.630 (16)	.669 (17)	.551 (14)
55360-10-8-3/8	10-5/16(8)	3/8	.591 (15)	.276 (7)	3.209 (81,5)	.913 (23,2)	.591 (15)	.130 (3,3)	.295 (7,5)	.669 (17)	.669 (17)	.551 (14)

55116

SWIVEL ELBOW

BSPP

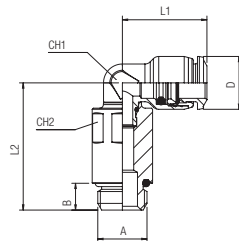


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55116-4-M5	5/32 (4)	M5	.142 (3,6)	.650 (16,5)	.543 (13,8)	.276 (7)	.354 (9)	.394 (10)
55116-4-M7X1	5/32 (4)	M7X1	.189 (4,8)	.650 (16,5)	.567 (14,4)	.276 (7)	.354 (9)	.394 (10)
55116-4-1/8	5/32 (4)	1/8	.213 (5,4)	.650 (16,5)	.591 (15)	.276 (7)	.512 (13)	.394 (10)
55116-4-1/4	5/32 (4)	1/4	.280 (7,1)	.650 (16,5)	.654 (16,6)	.354 (9)	.630 (16)	.394 (10)
55116-5-M5	5	M5	.142 (3,6)	.787 (20)	.579 (14,7)	.354 (9)	.354 (9)	.472 (12)
55116-5-1/8	5	1/8	.213 (5,4)	.787 (20)	.622 (15,8)	.354 (9)	.512 (13)	.472 (12)
55116-6-M5	6	M5	.142 (3,6)	.807 (20,5)	.579 (14,7)	.354 (9)	.354 (9)	.472 (12)
55116-6-1/8	6	1/8	.213 (5,4)	.807 (20,5)	.622 (15,8)	.354 (9)	.512 (13)	.472 (12)
55116-6-1/4	6	1/4	.280 (7,1)	.807 (20,5)	.689 (17,5)	.354 (9)	.630 (16)	.472 (12)
55116-6-3/8	6	3/8	.319 (8,1)	.807 (20,5)	.748 (19)	.354 (9)	.787 (20)	.472 (12)
55116-6-1/2	6	1/2	.378 (9,6)	.807 (20,5)	.827 (21)	.354 (9)	.984 (25)	.472 (12)
55116-8-1/8	5/16 (8)	1/8	.213 (5,4)	.866 (22)	.764 (19,4)	.394 (10)	.512 (13)	.551 (14)
55116-8-1/4	5/16 (8)	1/4	.280 (7,1)	.866 (22)	.736 (18,7)	.394 (10)	.630 (16)	.551 (14)
55116-8-3/8	5/16 (8)	3/8	.319 (8,1)	.866 (22)	.791 (20,1)	.394 (10)	.787 (20)	.551 (14)
55116-8-1/2	5/16 (8)	1/2	.378 (9,6)	.866 (22)	.870 (22,1)	.394 (10)	.984 (25)	.551 (14)
55116-10-1/4	10	1/4	.280 (7,1)	1.043 (26,5)	.898 (22,8)	.512 (13)	.630 (16)	.669 (17)
55116-10-3/8	10	3/8	.319 (8,1)	1.043 (26,5)	.878 (22,3)	.512 (13)	.787 (20)	.669 (17)
55116-10-1/2	10	1/2	.378 (9,6)	1.043 (26,5)	.937 (23,8)	.512 (13)	.984 (25)	.669 (17)
55116-12-1/4	12	1/4	.280 (7,1)	1.181 (30)	.949 (24,1)	.630 (16)	.630 (16)	.787 (20)
55116-12-3/8	12	3/8	.319 (8,1)	1.181 (30)	.929 (23,6)	.630 (16)	.787 (20)	.787 (20)
55116-12-1/2	12	1/2	.378 (9,6)	1.181 (30)	.988 (25,1)	.630 (16)	.984 (25)	.787 (20)
55116-14-3/8	14	3/8	.319 (8,1)	1.220 (31)	1.106 (28,1)	.709 (18)	.787 (20)	.827 (21)
55116-14-1/2	14	1/2	.378 (9,6)	1.220 (31)	1.028 (26,1)	.709 (18)	.984 (25)	.827 (21)

55125

EXTENDED SWIVEL ELBOW

BSPP

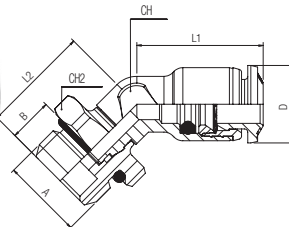


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55125-4-M5	5/32 (4)	M5	.142 (3,6)	.650 (16,5)	1.083 (27,5)	.276 (7)	.315 (8)	.394 (10)
55125-4-1/8	5/32 (4)	1/8	.213 (5,4)	.650 (16,5)	1.122 (28,5)	.276 (7)	.472 (12)	.394 (10)
55125-6-M5	6	M5	.142 (3,6)	.807 (20,5)	1.161 (29,5)	.354 (9)	.315 (8)	.492 (12,5)
55125-6-1/8	6	1/8	.213 (5,4)	.807 (20,5)	1.161 (29,5)	.354 (9)	.472 (12)	.492 (12,5)
55125-8-1/8	5/16 (8)	1/8	.213 (5,4)	.886 (22,5)	1.358 (34,5)	.394 (10)	.472 (12)	.551 (14)
55125-8-1/4	5/16 (8)	1/4	.280 (7,1)	.886 (22,5)	1.319 (33,5)	.394 (10)	.591 (15)	.551 (14)

55175

45° SWIVEL ELBOW

BSPP

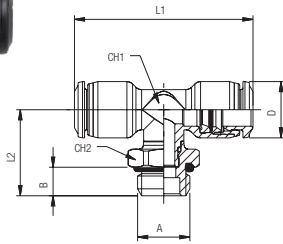


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55175-4-M5	5/32 (4)	M5	.142 (3,6)	.492 (12,5)	.543 (13,8)	.276 (7)	.354 (9)	.394 (10)
55175-4-1/8	5/32 (4)	1/8	.213 (5,4)	.492 (12,5)	.591 (15)	.276 (7)	.512 (13)	.394 (10)
55175-6-M5	6	M5	.142 (3,6)	.807 (20,5)	.579 (14,7)	.354 (9)	.354 (9)	.472 (12)
55175-6-1/8	6	1/8	.213 (5,4)	.807 (20,5)	.622 (15,8)	.354 (9)	.512 (13)	.472 (12)
55175-6-1/4	6	1/4	.280 (7,1)	.807 (20,5)	.689 (17,5)	.354 (9)	.630 (16)	.472 (12)
55175-8-1/8	5/16 (8)	1/8	.213 (5,4)	.866 (22)	.764 (19,4)	.394 (10)	.512 (13)	.551 (14)
55175-8-1/4	5/16 (8)	1/4	.280 (7,1)	.866 (22)	.736 (18,7)	.394 (10)	.630 (16)	.551 (14)
55175-8-3/8	5/16 (8)	3/8	.319 (8,1)	.866 (22)	.791 (20,1)	.394 (10)	.787 (20)	.551 (14)
55175-10-1/4	10	1/4	.280 (7,1)	1.043 (26,5)	.898 (22,8)	.512 (13)	.630 (16)	.669 (17)
55175-10-3/8	10	3/8	.319 (8,1)	1.043 (26,5)	.878 (22,3)	.512 (13)	.787 (20)	.669 (17)
55175-10-1/2	10	1/2	.378 (9,6)	1.043 (26,5)	.937 (23,8)	.512 (13)	.984 (25)	.669 (17)
55175-12-1/4	12	1/4	.280 (7,1)	1.181 (30)	.949 (24,1)	.630 (16)	.630 (16)	.787 (20)
55175-12-3/8	12	3/8	.319 (8,1)	1.181 (30)	.929 (23,6)	.630 (16)	.787 (20)	.787 (20)
55175-12-1/2	12	1/2	.378 (9,6)	1.181 (30)	.988 (25,1)	.630 (16)	.984 (25)	.787 (20)

55216

SWIVEL BRANCH TEE

BSPP

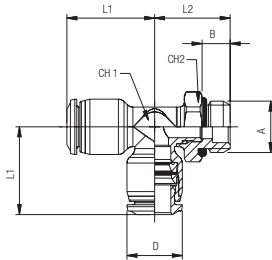


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55216-4-M5	5/32 (4)	M5	.142 (3,6)	1.299 (33)	.610 (15,5)	.276 (7)	.354 (9)	.394 (10)
55216-4-1/8	5/32 (4)	1/8	.213 (5,4)	1.299 (33)	.673 (17,1)	.276 (7)	.512 (13)	.394 (10)
55216-4-1/4	5/32 (4)	1/4	.280 (7,1)	1.299 (33)	.740 (18,8)	.276 (7)	.630 (16)	.394 (10)
55216-5-M5	5	M5	.142 (3,6)	1.575 (40)	.579 (14,7)	.354 (9)	.354 (9)	.472 (12)
55216-5-1/8	5	1/8	.213 (5,4)	1.575 (40)	.724 (18,4)	.354 (9)	.512 (13)	.472 (12)
55216-6-M5	6	M5	.142 (3,6)	1.614 (41)	.579 (14,7)	.354 (9)	.354 (9)	.492 (12,5)
55216-6-1/8	6	1/8	.213 (5,4)	1.614 (41)	.724 (18,4)	.354 (9)	.512 (13)	.492 (12,5)
55216-6-1/4	6	1/4	.280 (7,1)	1.614 (41)	.787 (20)	.354 (9)	.630 (16)	.492 (12,5)
55216-8-1/8	5/16 (8)	1/8	.213 (5,4)	1.732 (44)	.870 (22,1)	.394 (10)	.512 (13)	.551 (14)
55216-8-1/4	5/16 (8)	1/4	.280 (7,1)	1.732 (44)	.843 (21,4)	.394 (10)	.630 (16)	.551 (14)
55216-8-3/8	5/16 (8)	3/8	.319 (8,1)	1.732 (44)	.898 (22,8)	.394 (10)	.787 (20)	.551 (14)
55216-10-1/4	10	1/4	.280 (7,1)	2.087 (53)	1.051 (26,7)	.512 (13)	.630 (16)	.669 (17)
55216-10-3/8	10	3/8	.319 (8,1)	2.087 (53)	1.031 (26,2)	.512 (13)	.787 (20)	.669 (17)
55216-10-1/2	10	1/2	.378 (9,6)	2.087 (53)	1.091 (27,7)	.512 (13)	.984 (25)	.669 (17)
55216-12-1/4	12	1/4	.280 (7,1)	2.421 (61,5)	1.106 (28,1)	.630 (16)	.630 (16)	.787 (20)
55216-12-3/8	12	3/8	.319 (8,1)	2.421 (61,5)	1.087 (27,6)	.630 (16)	.787 (20)	.787 (20)
55216-12-1/2	12	1/2	.378 (9,6)	2.421 (61,5)	1.146 (29,1)	.630 (16)	.984 (25)	.787 (20)
55216-14-3/8	14	3/8	.319 (8,1)	2.402 (61)	1.252 (31,8)	.709 (18)	.787 (20)	.827 (21)
55216-14-1/2	14	1/2	.378 (9,6)	2.402 (61)	1.173 (29,8)	.709 (18)	.984 (25)	.827 (21)

55226

SWIVEL RUN TEE

BSPP

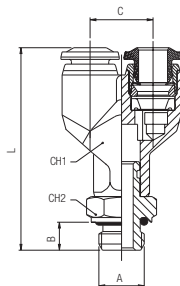


Part No.	Tube	A	B	L1	L2	CH1	CH2	D
55226-4-1/8	5/32 (4)	1/8	.217 (5,5)	.650 (16,5)	.717 (18,2)	.276 (7)	.512 (13)	.394 (10)
55226-4-1/4	5/32 (4)	1/4	.276 (7)	.650 (16,5)	.776 (19,7)	.276 (7)	.591 (15)	.394 (10)
55226-5-1/8	5	1/8	.217 (5,5)	.787 (20)	.685 (17,4)	.354 (9)	.512 (13)	.472 (12)
55226-6-1/8	6	1/8	.217 (5,5)	.807 (20,5)	.685 (17,4)	.354 (9)	.512 (13)	.492 (12,5)
55226-6-1/4	6	1/4	.276 (7)	.807 (20,5)	.744 (18,9)	.354 (9)	.591 (15)	.492 (12,5)
55226-8-1/8	5/16 (8)	1/8	.217 (5,5)	.866 (22)	.744 (18,9)	.394 (10)	.512 (13)	.551 (14)
55226-8-1/4	5/16 (8)	1/4	.276 (7)	.866 (22)	.803 (20,4)	.394 (10)	.591 (15)	.551 (14)
55226-8-3/8	5/16 (8)	3/8	.295 (7,5)	.866 (22)	.823 (20,9)	.394 (10)	.669 (17)	.551 (14)
55226-10-1/4	10	1/4	.276 (7)	1.043 (26,5)	.858 (21,8)	.512 (13)	.630 (16)	.669 (17)
55226-10-3/8	10	3/8	.295 (7,5)	1.043 (26,5)	.858 (21,8)	.512 (13)	.669 (17)	.669 (17)
55226-10-1/2	10	1/2	.354 (9)	1.043 (26,5)	.957 (24,3)	.512 (13)	.827 (21)	.669 (17)
55226-12-1/4	12	1/4	.276 (7)	1.220 (31)	.909 (23,1)	.630 (16)	.630 (16)	.787 (20)
55226-12-3/8	12	3/8	.295 (7,5)	1.220 (31)	.909 (23,1)	.630 (16)	.669 (17)	.787 (20)
55226-12-1/2	12	1/2	.354 (9)	1.220 (31)	1.008 (25,6)	.630 (16)	.827 (21)	.787 (20)
55226-14-3/8	14	3/8	.295 (7,5)	1.201 (30,5)	1.043 (26,5)	.709 (18)	.787 (20)	.827 (21)
55226-14-1/2	14	1/2	.354 (9)	1.201 (30,5)	1.063 (27)	.709 (18)	.827 (21)	.827 (21)

55325

UNION Y

BSPP

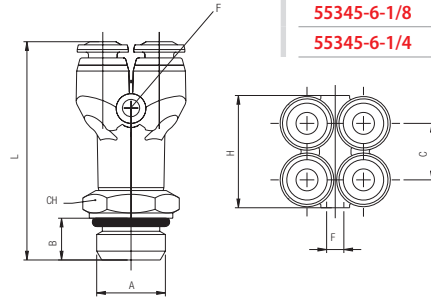


Part No.	Tube	A	B	C	L	CH1	CH2
55325-4-M5	5/32 (4)	M5	.157 (4)	.433 (11)	1.437 (36,5)	.394 (10)	.394 (10)
55325-4-1/8	5/32 (4)	1/8	.236 (6)	.433 (11)	1.516 (38,5)	.394 (10)	.512 (13)
55325-4-1/4	5/32 (4)	1/4	.315 (8)	.433 (11)	1.594 (40,5)	.394 (10)	.630 (16)
55325-6-M5	6	M5	.157 (4)	.531 (13,5)	1.634 (41,5)	.472 (12)	.394 (10)
55325-6-1/8	6	1/8	.236 (6)	.531 (13,5)	1.713 (43,5)	.472 (12)	.512 (13)
55325-6-1/4	6	1/4	.315 (8)	.531 (13,5)	1.831 (46,5)	.472 (12)	.630 (16)
55325-8-1/8	5/16 (8)	1/8	.236 (6)	.610 (15,5)	1.850 (47)	.551 (14)	.512 (13)
55325-8-1/4	5/16 (8)	1/4	.315 (8)	.610 (15,5)	1.969 (50)	.551 (14)	.630 (16)
55325-8-3/8	5/16 (8)	3/8	.354 (9)	.610 (15,5)	2.047 (52)	.551 (14)	.787 (20)
55325-10-1/4	10	1/4	.315 (8)	.748 (19)	2.343 (59,5)	.669 (17)	.630 (16)
55325-10-3/8	10	3/8	.354 (9)	.748 (19)	2.343 (59,5)	.669 (17)	.787 (20)
55325-10-1/2	10	1/2	.394 (10)	.748 (19)	2.441 (62)	.669 (17)	.945 (24)
55325-12-3/8	12	3/8	.354 (9)	.866 (22)	2.697 (68,5)	.787 (20)	.787 (20)
55325-12-1/2	12	1/2	.394 (10)	.866 (22)	2.795 (71)	.787 (20)	.945 (24)

55345

4 POSITION Y

BSPP

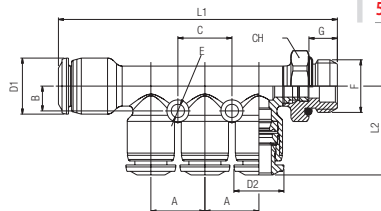


Part No.	Tube	A	B	C	L	H	CH	F
55345-4-1/8	5/32 (4)	1/8	.236 (6)	.425 (10,8)	1.575 (40)	.846 (21,5)	.512 (13)	.130 (3,3)
55345-4-1/4	5/32 (4)	1/4	.315 (8)	.425 (10,8)	1.654 (42)	.846 (21,5)	.630 (16)	.130 (3,3)
55345-6-1/8	6	1/8	.236 (6)	.524 (13,3)	1.850 (47)	1.055 (26,8)	.512 (13)	.130 (3,3)
55345-6-1/4	6	1/4	.315 (8)	.524 (13,3)	1.929 (49)	1.055 (26,8)	.630 (16)	.130 (3,3)

55365

REDUCTION MANIFOLD

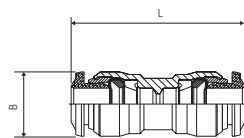
BSPP



Part No.	Tube	F	A	B	L1	L2	C	E	G	H	D1	D2
55365-6-4-1/8	6-5/32(4)	1/8	.531 (13,5)	.236 (6)	2.783 (70,7)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.213 (5,4)	.512 (13)	.551 (14)	.472 (12)
55365-6-4-1/4	6-5/32(4)	1/4	.531 (13,5)	.236 (6)	2.756 (70)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.280 (7,1)	.630 (16)	.551 (14)	.472 (12)
55365-8-4-1/8	5/16(8)-5/32(4)	1/8	.531 (13,5)	.236 (6)	2.783 (70,7)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.213 (5,4)	.512 (13)	.551 (14)	.472 (12)
55365-8-4-1/4	5/16(8)-5/32(4)	1/4	.531 (13,5)	.236 (6)	2.756 (70)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.280 (7,1)	.630 (16)	.551 (14)	.472 (12)
55365-8-6-1/8	5/16(8)-6	1/8	.531 (13,5)	.236 (6)	2.783 (70,7)	.878 (22,3)	.531 (13,5)	.130 (3,3)	.213 (5,4)	.512 (13)	.551 (14)	.492 (12,5)
55365-8-6-1/4	5/16(8)-6	1/4	.531 (13,5)	.236 (6)	2.756 (70)	.878 (22,3)	.531 (13,5)	.130 (3,3)	.280 (7,1)	.630 (16)	.551 (14)	.492 (12,5)
55365-10-6-1/4	10-6	1/4	.591 (15)	.276 (7)	3.244 (82,4)	.933 (23,7)	.591 (15)	.130 (3,3)	.280 (7,1)	.630 (16)	.669 (17)	.551 (14)
55365-10-6-3/8	10-6	3/8	.591 (15)	.276 (7)	3.228 (82)	.933 (23,7)	.591 (15)	.130 (3,3)	.319 (8,1)	.787 (20)	.669 (17)	.551 (14)
55365-10-8-1/4	10-5/16(8)	1/4	.591 (15)	.276 (7)	3.244 (82,4)	.913 (23,2)	.591 (15)	.130 (3,3)	.280 (7,1)	.630 (16)	.669 (17)	.551 (14)
55365-10-8-3/8	10-5/16(8)	3/8	.591 (15)	.276 (7)	3.228 (82)	.913 (23,2)	.591 (15)	.130 (3,3)	.319 (8,1)	.787 (20)	.669 (17)	.551 (14)

55040

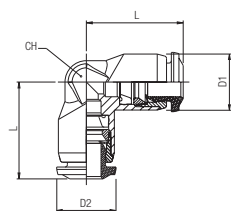
UNION



Part No.	Tube	Tube	L	B
55040-4	5/32 (4)		1.220 (31)	.394 (10)
55040-5	5		1.339 (34)	.472 (12)
55040-6	6		1.378 (35)	.492 (12,5)
55040-6-4	6	5/32 (4)	1.339 (34)	.492 (12,5)
55040-8	5/16 (8)		1.457 (37)	.551 (14)
55040-8-4	5/16 (8)	5/32 (4)	1.476 (37,5)	.551 (14)
55040-8-6	5/16 (8)	6	1.476 (37,5)	.551 (14)
55040-10	10		1.772 (45)	.669 (17)
55040-10-6	10	6	1.732 (44)	.669 (17)
55040-10-8	10	5/16 (8)	1.732 (44)	.669 (17)
55040-12	12		1.929 (49)	.787 (20)
55040-12-8	12	5/16 (8)	1.929 (49)	.787 (20)
55040-12-10	12	10	1.929 (49)	.787 (20)
55040-14	14		1.890 (48)	.827 (21)
55040-14-12	14	12	1.909 (48,5)	.827 (21)

55130

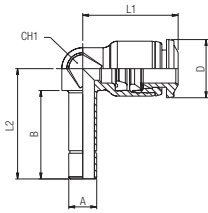
UNION ELBOW



Part No.	D1	D2	L	CH	D
55130-4	5/32 (4)		.650 (16,5)	.354 (9)	.394 (10)
55130-5	5		.787 (20)	.433 (11)	.472 (12)
55130-6	6		.807 (20,5)	.433 (11)	.472 (12)
55130-8-6	5/16 (8)	6	.886 (22,5)	.512 (13)	.551 (14)
55130-8	5/16 (8)		.866 (22)	.512 (13)	.551 (14)
55130-10-6	10	6	1.024 (26)	.630 (16)	.669 (17)
55130-10-8	10	5/16 (8)	1.024 (26)	.630 (16)	.669 (17)
55130-10	10		1.043 (26,5)	.630 (16)	.669 (17)
55130-12-10	12	10	1.201 (30,5)	.748 (19)	.787 (20)
55130-12	12		1.181 (30)	.748 (19)	.787 (20)
55130-14	14		1.201 (30,5)	.787 (20)	.827 (21)

55140

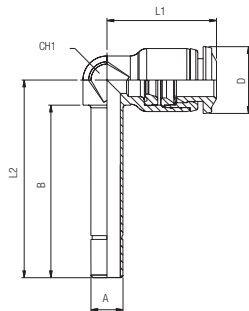
ELBOW PLUG IN



Part No.	Tube	A	B	L1	L2	CH1	D
55140-4	5/32 (4)	5/32 (4)	.669 (17)	.650 (16,5)	.819 (20,8)	.276 (7)	.394 (10)
55140-4-6	5/32 (4)	6	.748 (19)	.650 (16,5)	.898 (22,8)	.276 (7)	.394 (10)
55140-6	6	6	.748 (19)	.807 (20,5)	.933 (23,7)	.354 (9)	.492 (12,5)
55140-6-4	6	5/32 (4)	.669 (17)	.807 (20,5)	.854 (21,7)	.354 (9)	.492 (12,5)
55140-6-8	6	5/16 (8)	.787 (20)	.886 (22,5)	1.024 (26)	.394 (10)	.551 (14)
55140-8	5/16 (8)	5/16 (8)	.787 (20)	.866 (22)	1.024 (26)	.394 (10)	.551 (14)
55140-8-10	5/16 (8)	10	.858 (21,8)	.866 (22)	1.087 (27,6)	.394 (10)	.551 (14)
55140-10	10	10	.886 (22,5)	1.043 (26,5)	1.181 (30)	.512 (13)	.669 (17)
55140-10-12	10	12	.972 (24,7)	1.043 (26,5)	1.268 (32,2)	.512 (13)	.669 (17)
55140-12	12	12	1.004 (25,5)	1.181 (30)	1.319 (33,5)	.630 (16)	.787 (20)

55150

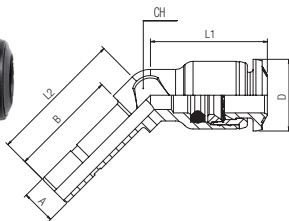
ELBOW PLUG IN



Part No.	Tube	A	B	L1	L2	CH1	D
55150-4	5/32 (4)	5/32 (4)	1.102 (28)	.650 (16,5)	1.252 (31,8)	.276 (7)	.394 (10)
55150-4-6	5/32 (4)	6	1.201 (30,5)	.650 (16,5)	1.350 (34,3)	.276 (7)	.394 (10)
55150-6	6	6	1.272 (32,3)	.807 (20,5)	1.457 (37)	.354 (9)	.492 (12,5)
55150-6-4	6	5/32 (4)	1.181 (30)	.807 (20,5)	1.366 (34,7)	.354 (9)	.492 (12,5)
55150-8	5/16 (8)	5/16 (8)	1.417 (36)	.866 (22)	1.654 (42)	.394 (10)	.551 (14)
55150-8-10	5/16 (8)	10	1.476 (37,5)	.866 (22)	1.697 (43,1)	.394 (10)	.551 (14)
55150-10	10	10	1.606 (40,8)	1.043 (26,5)	1.902 (48,3)	.512 (13)	.669 (17)
55150-10-12	10	12	1.701 (43,2)	1.043 (26,5)	1.996 (50,7)	.512 (13)	.669 (17)
55150-12	12	12	1.850 (47)	1.220 (31)	2.165 (55)	.630 (16)	.787 (20)

55160

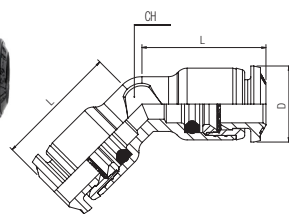
45° ELBOW PLUG IN



Part No.	Tube	A	B	L1	L2	CH1	D
55160-4	5/32 (4)	5/32 (4)	.669 (17)	.492 (12,5)	.827 (21)	.276 (7)	.394 (10)
55160-6	6	6	.748 (19)	.807 (20,5)	.925 (23,5)	.354 (9)	.472 (12)
55160-8	5/16 (8)	5/16 (8)	.787 (20)	.866 (22)	.984 (25)	.394 (10)	.551 (14)
55160-10	10	10	.886 (22,5)	1.043 (26,5)	1.181 (30)	.512 (13)	.669 (17)
55160-12	12	12	1.004 (25,5)	1.181 (30)	1.319 (33,5)	.630 (16)	.787 (20)

55180

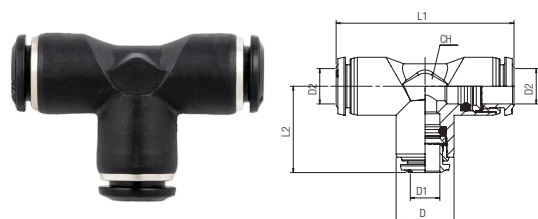
45° UNION ELBOW



Part No.	Tube	L	CH	D
55180-4	5/32 (4)	.650 (16,5)	.276 (7)	.394 (10)
55180-6	6	.807 (20,5)	.354 (9)	.472 (12)
55180-8	5/16 (8)	.866 (22)	.394 (10)	.551 (14)
55180-10	10	1.043 (26,5)	.512 (13)	.669 (17)
55180-12	12	1.181 (30)	.630 (16)	.787 (20)

55230

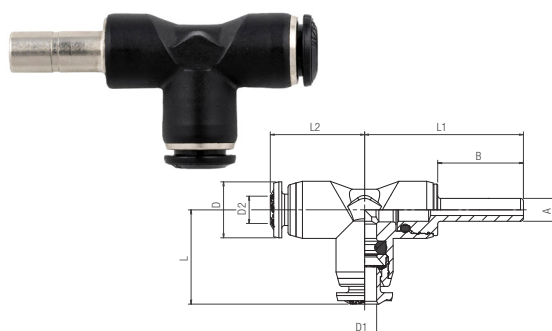
UNION TEE



Part No.	D1	D2	L1	L2	CH	D
55230-4	5/32(4)	5/32(4)	1.299 (33)	.650 (16,5)	.354 (9)	.394 (10)
55230-5	5	5	1.575 (40)	.787 (20)	.433 (11)	.472 (12)
55230-6	6	6	1.614 (41)	.807 (20,5)	.433 (11)	.472 (12)
55230-4-6	5/32(4)	6	1.614 (41)	.787 (20)	.433 (11)	.492 (12,5)
55230-8	5/16(8)	5/16(8)	1.732 (44)	.866 (22)	.512 (13)	.551 (14)
55230-6-8	6	5/16(8)	1.772 (45)	.886 (22,5)	.512 (13)	.551 (14)
55230-10-8	10	5/16(8)	2.047 (52)	1.043 (26,5)	.630 (16)	.669 (17)
55230-10	10	10	2.087 (53)	1.043 (26,5)	.630 (16)	.669 (17)
55230-8-10	5/16(8)	10	2.087 (53)	1.024 (26)	.630 (16)	.669 (17)
55230-12-10	12	10	2.343 (59,5)	1.201 (30,5)	.748 (19)	.787 (20)
55230-12	12	12	2.421 (61,5)	1.181 (30)	.748 (19)	.787 (20)
55230-10-12	10	12	2.421 (61,5)	1.181 (30)	.748 (19)	.787 (20)
55230-14	14	14	2.402 (61)	1.201 (30,5)	.787 (20)	.827 (21)
55230-8-14	5/16(8)	14	2.421 (61,5)	1.161 (29,5)	.787 (20)	.827 (21)
55230-10-14	10	14	2.402 (61)	1.181 (30)	.787 (20)	.827 (21)
55230-12-14	12	14	2.402 (61)	1.201 (30,5)	.787 (20)	.827 (21)

55235

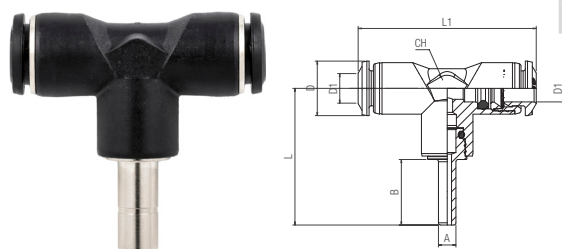
RUN TEE PLUG IN



Part No.	D1	D2	A	B	L	L1	L2	CH	D
55235-4-4-4	5/32(4)	5/32(4)	5/32(4)	.591 (15)	1.102 (28)	.650 (16,5)	.650 (16,5)	.354 (9)	.394 (10)
55235-6-6-6	6	6	6	.669 (17)	1.319 (33,5)	.807 (20,5)	.807 (20,5)	.433 (11)	.492 (12,5)
55235-8-8-8	5/16(8)	5/16(8)	5/16(8)	.709 (18)	1.437 (36,5)	.886 (22,5)	.886 (22,5)	.512 (13)	.551 (14)
55235-10-10-10	10	10	10	.866 (22)	1.732 (44)	1.043 (26,5)	1.043 (26,5)	.630 (16)	.669 (17)
55235-12-12-12	12	12	12	.965 (24,5)	1.220 (31)	1.969 (50)	1.22 (31)	.748 (19)	.787 (20)
55235-4-6-6	5/32(4)	6	6	.669 (17)	.787 (20)	1.319 (33,5)	.807 (20,5)	.433 (11)	.492 (12,5)
55235-6-8-8	6	5/16(8)	5/16(8)	.886 (22,5)	.886 (22,5)	1.437 (36,5)	.886 (22,5)	.512 (13)	.551 (14)
55235-8-10-10	5/16(8)	10	10	.866 (22)	1.024 (26)	1.732 (44)	1.043 (26,5)	.630 (16)	.669 (17)
55235-10-12-12	10	12	12	.965 (24,5)	1.181 (30)	1.969 (50)	1.22 (31)	.748 (19)	.787 (20)

55237

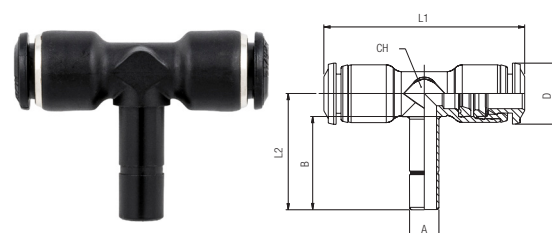
BRANCH TEE PLUG IN



Part No.	D1	A	B	L	L1	CH	D
55237-6-4	6	5/32 (4)	.591 (15)	1.240 (31,5)	1.614 (41)	.433 (11)	.492 (12,5)
55237-8-6	5/16 (8)	6	.669 (17)	1.398 (35,5)	1.772 (45)	.512 (13)	.551 (14)
55237-10-8	10	5/16 (8)	.709 (18)	1.575 (40)	2,087 (53)	.630 (16)	.669 (17)
55237-12-10	12	10	.866 (22)	1.870 (47,5)	2,402 (61)	.748 (19)	.787 (20)

55240

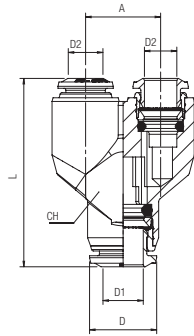
TEE PLUG IN



Part No.	Tube	A	B	L1	L2	CH	D
55240-4	5/32 (4)	5/32 (4)	.669 (17)	1.299 (33)	.815 (20,7)	.276 (7)	.394 (10)
55240-4-6	5/32 (4)	6	.748 (19)	1.299 (33)	.894 (22,7)	.276 (7)	.394 (10)
55240-6	6	6	.748 (19)	1.614 (41)	.933 (23,7)	.354 (9)	.492 (12,5)
55240-6-4	6	5/32 (4)	.669 (17)	1.614 (41)	.854 (21,7)	.354 (9)	.492 (12,5)
55240-8	5/16 (8)	5/16 (8)	.787 (20)	1.732 (44)	1.024 (26)	.394 (10)	.551 (14)
55240-8-10	5/16 (8)	10	.874 (22,2)	1.732 (44)	1.102 (28)	.394 (10)	.551 (14)
55240-10	10	10	.886 (22,5)	2.087 (53)	1.181 (30)	.512 (13)	.669 (17)
55240-10-12	10	12	.984 (25)	2.087 (53)	1.268 (32,2)	.512 (13)	.669 (17)
55240-12	12	12	1.004 (25,5)	2.421 (61,5)	1.319 (33,5)	.630 (16)	.787 (20)

55310

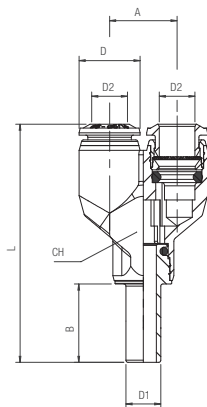
UNION Y



Part No.	D1	D2	A	L	CH	D
55310-4	5/32 (4)	5/32 (4)	.433 (11)	1.24 (31,5)	.394 (10)	.394 (10)
55310-6-4	6	5/32 (4)	.531 (13,5)	1.398 (35,5)	.472 (12)	.492 (12,5)
55310-6	6	6	.531 (13,5)	1.457 (37)	.472 (12)	.472 (12)
55310-8-6	5/16 (8)	6	.610 (15,5)	1.614 (41)	.551 (14)	.551 (14)
55310-8	5/16 (8)	5/16 (8)	.610 (15,5)	1.575 (40)	.551 (14)	.551 (14)
55310-10-8	10	5/16 (8)	.748 (19)	1.870 (47,5)	.669 (17)	.709 (18)
55310-10	10	10	.748 (19)	1.909 (48,5)	.669 (17)	.709 (18)
55310-12	12	12	.866 (22)	2.264 (57,5)	.787 (20)	.787 (20)

55315

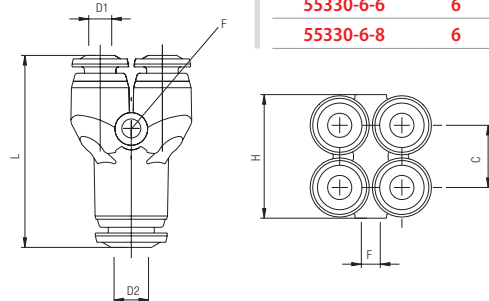
Y PLUG IN



Part No.	D1	D2	A	L	CH	B	D
55315-4	5/32 (4)	5/32 (4)	.433 (11)	1.693 (43)	.394 (10)	.591 (15)	.394 (10)
55315-6-4	6	5/32 (4)	.531 (13,5)	1.949 (49,5)	.472 (12)	.669 (17)	.492 (12,5)
55315-6	6	6	.531 (13,5)	1.969 (50)	.472 (12)	.669 (17)	.492 (12,5)
55315-8-6	5/16 (8)	6	.610 (15,5)	2.165 (55)	.551 (14)	.709 (18)	.492 (12,5)
55315-8	5/16 (8)	5/16 (8)	.610 (15,5)	2.165 (55)	.551 (14)	.709 (18)	.551 (14)
55315-10-8	10	5/16 (8)	.748 (19)	2.559 (65)	.669 (17)	.866 (22)	.669 (17)
55315-10	10	10	.748 (19)	2.579 (65,5)	.669 (17)	.866 (22)	.669 (17)
55315-12	12	12	.866 (22)	3.071 (78)	.787 (20)	.965 (24,5)	.787 (20)

55330

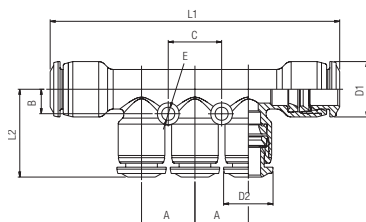
"4 POSITION Y



Part No.	D1	D2	C	L	F	H
55330-4-4	5/32 (4)	5/32 (4)	.425 (10,8)	1.319 (33,5)	.130 (3,3)	.846 (21,5)
55330-4-6	5/32 (4)	6	.425 (10,8)	1.358 (34,5)	.130 (3,3)	.846 (21,5)
55330-6-6	6	6	.524 (13,3)	1.555 (39,5)	.130 (3,3)	1.055 (26,8)
55330-6-8	6	5/16 (8)	.524 (13,3)	1.575 (40)	.130 (3,3)	1.055 (26,8)

55350

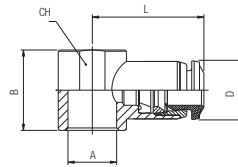
REDUCTION MANIFOLD



Part No.	Tube	A	B	L1	L2	C	E	D1	D2
55350-6-4	6 - 5/32(4)	.531 (13,5)	.236 (6)	2.913 (74)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.551 (14)	.472 (12)
55350-8-4	5/16(8) - 5/32(4)	.531 (13,5)	.236 (6)	2.874 (73)	.858 (21,8)	.531 (13,5)	.130 (3,3)	.551 (14)	.472 (12)
55350-8-6	5/16(8) - 6	.531 (13,5)	.236 (6)	2.874 (73)	.878 (22,3)	.531 (13,5)	.130 (3,3)	.551 (14)	.492 (12,5)
55350-10-6	10 - 6	.591 (15)	.276 (7)	3.268 (83)	.933 (23,7)	.591 (15)	.130 (3,3)	.669 (17)	.551 (14)
55350-10-8	10 - 5/16(8)	.591 (15)	.276 (7)	3.268 (83)	.913 (23,2)	.591 (15)	.130 (3,3)	.669 (17)	.551 (14)

55500

SINGLE BANJO BODY

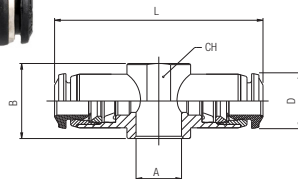


Part No.	Tube	A	B	L	CH	D
55500-4-M5	5/32 (4)	M5	.551 (14)	.768 (19,5)	.354 (9)	.394 (10)
55500-4-M6	5/32 (4)	M6	.551 (14)	.768 (19,5)	.354 (9)	.394 (10)
55500-4-1/8	5/32 (4)	1/8	.65 (16,5)	.846 (21,5)	.551 (14)	.394 (10)
55500-5-M5	5	M5	.551 (14)	.807 (20,5)	.354 (9)	.472 (12)
55500-5-M6	5	M6	.551 (14)	.807 (20,5)	.354 (9)	.472 (12)
55500-5-1/8	5	1/8	.650 (16,5)	.886 (22,5)	.551 (14)	.472 (12)
55500-5-1/4	5	1/4	.728 (18,5)	.984 (25)	.709 (18)	.472 (12)
55500-6-M5	6	M5	.551 (14)	.827 (21)	.354 (9)	.472 (12)
55500-6-M6	6	M6	.551 (14)	.827 (21)	.354 (9)	.472 (12)
55500-6-1/8	6	1/8	.650 (16,5)	.906 (23)	.551 (14)	.472 (12)
55500-6-1/4	6	1/4	.728 (18,5)	1.004 (25,5)	.709 (18)	.472 (12)
55500-8-1/8	5/16 (8)	1/8	.650 (16,5)	.925 (23,5)	.551 (14)	.551 (14)
55500-8-1/4	5/16 (8)	1/4	.728 (18,5)	1.024 (26)	.709 (18)	.551 (14)
55500-8-3/8	5/16 (8)	3/8	.866 (22)	1.083 (27,5)	.827 (21)	.551 (14)
55500-10-3/8	10	3/8	.866 (22)	1.201 (30,5)	.827 (21)	.669 (17)
55500-12-3/8	12	3/8	.866 (22)	1.280 (32,5)	.827 (21)	.787 (20)
55500-12-1/2	12	1/2	1.024 (26)	1.378 (35)	1.024 (26)	.787 (20)

For BANJO STEM assemblies see 10.7/10.8/10.9

55510

DOUBLE BANJO BODY

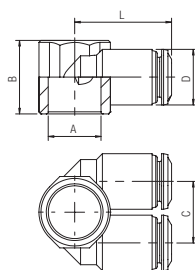


Part No.	Tube	A	B	L	CH	D
55510-4-M5	5/32 (4)	M5	.551 (14)	1.535 (39)	.354 (9)	.394 (10)
55510-4-1/8	5/32 (4)	1/8	.650 (16,5)	1.693 (43)	.551 (14)	.394 (10)
55510-5-1/8	5	1/8	.650 (16,5)	1.772 (45)	.551 (14)	.472 (12)
55510-5-1/4	5	1/4	.728 (18,5)	1.969 (50)	.709 (18)	.472 (12)
55510-6-1/8	6	1/8	.650 (16,5)	1.811 (46)	.551 (14)	.472 (12)
55510-6-1/4	6	1/4	.728 (18,5)	2.008 (51)	.709 (18)	.472 (12)
55510-8-1/8	5/16 (8)	1/8	.650 (16,5)	1.850 (47)	.551 (14)	.551 (14)
55510-8-1/4	5/16 (8)	1/4	.728 (18,5)	2.047 (52)	.709 (18)	.551 (14)

For BANJO STEM assemblies see 10.7/10.8/10.9

55520

DOUBLE BANJO BODY

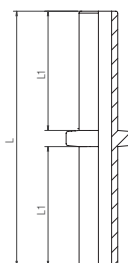


Part No.	Tube	A	B	C	L	D
55520-4-1/8	5/32 (4)	1/8	.650 (16,5)	.512 (13)	.827 (21)	.472 (12)
55520-4-1/4	5/32 (4)	1/4	.728 (18,5)	.610 (15,5)	.945 (24)	.551 (14)
55520-6-1/8	6	1/8	.650 (16,5)	.512 (13)	.846 (21,5)	.472 (12)
55520-6-1/4	6	1/4	.728 (18,5)	.610 (15,5)	.965 (24,5)	.551 (14)
55520-6-3/8	6	3/8	.866 (22)	.531 (13,5)	.984 (25)	.472 (12)
55520-8-1/4	5/16 (8)	1/4	.728 (18,5)	.610 (15,5)	.965 (24,5)	.551 (14)
55520-8-3/8	5/16 (8)	3/8	.866 (22)	.748 (19)	1.102 (28)	.669 (17)
55520-10-3/8	10	3/8	.866 (22)	.748 (19)	1.102 (28)	.669 (17)

For BANJO STEM assemblies see 10.7/10.8/10.9

55625

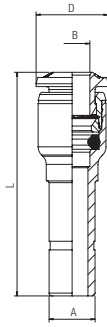
DOUBLE JOINT



Part No.	Tube	L	L1
55625-4	5/32 (4)	1.358 (34,5)	.630 (16)
55625-6	6	1.555 (39,5)	.728 (18,5)
55625-8	5/16 (8)	1.654 (42)	.768 (19,5)
55625-10	10	2.028 (51,5)	.945 (24)
55625-12	12	2.362 (60)	1.102 (28)
55625-14	14	2.736 (69,5)	1.299 (33)

55700

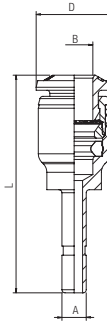
TUBE REDUCER



Part No.	A	B	L	D
55700-6-4	6	5/32 (4)	1.339 (34)	.394 (10)
55700-8-4	5/16 (8)	5/32 (4)	1.496 (38)	.472 (12)
55700-8-6	5/16 (8)	6	1.535 (39)	.492 (12,5)
55700-10-6	10	6	1.673 (42,5)	.492 (12,5)
55700-10-8	10	5/16 (8)	1.654 (42)	.551 (14)
55700-12-6	12	6	1.516 (38,5)	.492 (12,5)
55700-12-8	12	5/16 (8)	1.634 (41,5)	.551 (14)
55700-12-10	12	10	1.909 (48,5)	.669 (17)
55700-14-8	14	5/16 (8)	1.476 (37,5)	.551 (14)
55700-14-10	14	10	1.969 (50)	.787 (20)
55700-14-12	14	12	1.969 (50)	.787 (20)

55705

TUBE EXPANDER



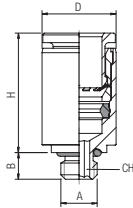
Part No.	A	B	L	D
55705-4-6	5/32 (4)	6	1.417 (36)	.472 (12)
55705-6-8	6	5/16 (8)	1.516 (38,5)	.551 (14)
55705-8-10	8	10	1.693 (43)	.669 (17)
55705-10-12	10	12	1.89 (48)	.787 (20)

56 SERIES - MINI

56010

STRAIGHT MALE WITH INTERNAL HEX

BSPP

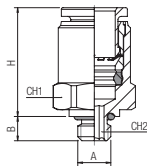


Part No.	Tube	A	B	H	CH	D
56010-4-M5	5/32 (4)	M5	.142 (3,6)	.551 (14)	.098 (2,5)	.335 (8,5)
56010-4-M7	5/32 (4)	M7	.197 (5)	.551 (14)	.118 (3)	.394 (10)
56010-6-M5	6	M5	.142 (3,6)	.630 (16)	.098 (2,5)	.394 (10)
56010-6-M7	6	M7	.197 (5)	.630 (16)	.118 (3)	.394 (10)

56020

STRAIGHT MALE

BSPP

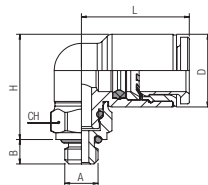


Part No.	Tube	A	B	H	CH1	CH2
56020-2-M3	2	M3	.118 (3)	.433 (11)	.236 (6)	.059 (1,5)
56020-2-M5	2	M5	.157 (4)	.354 (9)	.276 (7)	.059 (1,5)
56020-3-M3	3	M3	.118 (3)	.433 (11)	.236 (6)	.059 (1,5)
56020-3-M5	3	M5	.157 (4)	.394 (10)	.276 (7)	.079 (2)
56020-4-M3	5/32 (4)	M3	.118 (3)	.571 (14,5)	.315 (8)	-
56020-4-M5	5/32 (4)	M5	.142 (3,6)	.551 (14)	.354 (9)	.098 (2,5)
56020-4-M7	5/32 (4)	M7	.197 (5)	.551 (14)	.394 (10)	.118 (3)
56020-4-1/8	5/32 (4)	1/8	.197 (5)	.453 (11,5)	.512 (13)	.118 (3)
56020-6-M5	6	M5	.142 (3,6)	.630 (16)	.433 (11)	.098 (2,5)
56020-6-M7	6	M7	.197 (5)	.630 (16)	.394 (10)	.118 (3)
56020-6-1/8	6	1/8	.197 (5)	.531 (13,5)	.512 (13)	.118 (3)
56020-6-1/4	6	1/4	.280 (7,1)	.472 (12)	.630 (16)	.157 (4)

56115

SWIVEL ELBOW

BSPP

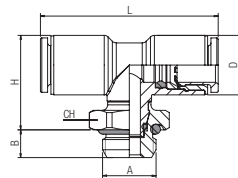


Part No.	Tube	A	B	H	L	D	CH
56115-2-M3	2	M3	.118 (3)	.512 (13)	.433 (11)	.256 (6,5)	.315 (8)
56115-2-M5	2	M5	.157 (4)	.492 (12,5)	.433 (11)	.256 (6,5)	.315 (8)
56115-3-M3	3	M3	.118 (3)	.512 (13)	.433 (11)	.256 (6,5)	.315 (8)
56115-3-M5	3	M5	.157 (4)	.492 (12,5)	.433 (11)	.256 (6,5)	.315 (8)
56115-4-M5	5/32 (4)	M5	.142 (3,6)	.531 (13,5)	.551 (14)	.335 (8,5)	.315 (8)
56115-4-1/8	5/32 (4)	1/8	.197 (5)	.512 (13)	.551 (14)	.335 (8,5)	.512 (13)
56115-4-1/4	5/32 (4)	1/4	.280 (7,1)	.512 (13)	.551 (14)	.335 (8,5)	.630 (16)
56115-6-M5	6	M5	.142 (3,6)	.610 (15,5)	.630 (16)	.413 (10,5)	.315 (8)
56115-6-1/8	6	1/8	.197 (5)	.591 (15)	.630 (16)	.413 (10,5)	.512 (13)
56115-6-1/4	6	1/4	.280 (7,1)	.591 (15)	.630 (16)	.413 (10,5)	.630 (16)

56215

SWIVEL BRANCH TEE

BSPP

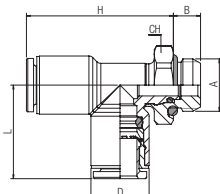


Part No.	Tube	A	B	H	L	CH	D
56215-2-M3	2	M3	.118 (3)	.512 (13)	.866 (22)	.315 (8)	.256 (6,5)
56215-2-M5	2	M5	.157 (4)	.492 (12,5)	.866 (22)	.315 (8)	.256 (6,5)
56215-3-M3	3	M3	.118 (3)	.512 (13)	.866 (22)	.315 (8)	.256 (6,5)
56215-3-M5	3	M5	.157 (4)	.492 (12,5)	.866 (22)	.315 (8)	.256 (6,5)

56225

SWIVEL RUN TEE

BSPP

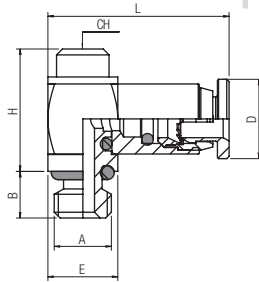


Part No.	Tube	A	B	H	L	CH	D
56225-2-M3	2	M3	.118 (3)	.827 (21)	.433 (11)	.315 (8)	.256 (6,5)
56225-2-M5	2	M5	.157 (4)	.827 (21)	.433 (11)	.315 (8)	.256 (6,5)
56225-3-M3	3	M3	.118 (3)	.827 (21)	.433 (11)	.315 (8)	.256 (6,5)
56225-3-M5	3	M5	.157 (4)	.827 (21)	.433 (11)	.315 (8)	.256 (6,5)

56550

SWIVEL SINGLE BANJO BODY

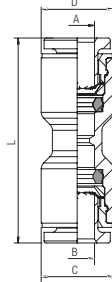
BSPP



Part No.	Tube	A	B	H	L	E	CH	D
56550-3-M3	3	M3	.118 (3)	.413 (10,5)	.610 (15,5)	.236 (6)	.079 (2)	.276 (7)
56550-3-M5	3	M5	.157 (4)	.413 (10,5)	.610 (15,5)	.236 (6)	.079 (2)	.276 (7)

56040

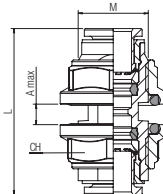
UNION



Part No.	A	B	C	L	D
56040-4-4	5/32 (4)	5/32 (4)	.335 (8,5)	.984 (25)	.335 (8,5)
56040-6-6	6	6	.413 (10,5)	1.102 (28)	.413 (10,5)
56040-8-6	5/16 (8)	6	.413 (10,5)	1.358 (34,5)	.551 (14)

56050

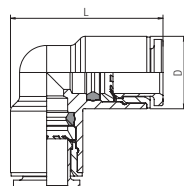
BULKHEAD UNION



Part No.	Tube	M	L	CH	A max
56050-4	5/32 (4)	M10x1	.984 (25)	.512 (13)	.217 (5,5)
56050-6	6	M12x1	1.102 (28)	.591 (15)	.335 (8,5)

56130

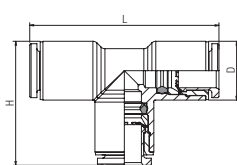
UNION ELBOW



Part No.	Tube	L	D
56130-2	2	.571 (14,5)	.256 (6,5)
56130-3	3	.571 (14,5)	.256 (6,5)
56130-4	5/32 (4)	.748 (19)	.335 (8,5)
56130-6	6	.886 (22,5)	.413 (10,5)

56230

UNION TEE



Part No.	Tube	H	L	D
56230-2	2	.571 (14,5)	.866 (22)	.256 (6,5)
56230-3	3	.571 (14,5)	.866 (22)	.256 (6,5)
56230-4	5/32 (4)	.748 (19)	1.142 (29)	.335 (8,5)
56230-6	6	.886 (22,5)	1.358 (34,5)	.413 (10,5)

60 Series

inch



metric



62 Series



STAINLESS STEEL PUSH-TO-CONNECT
FITTINGS AND ADAPTERS



60-62 Series

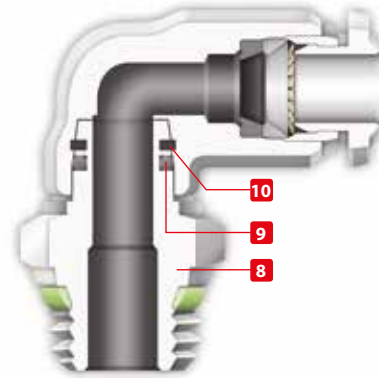
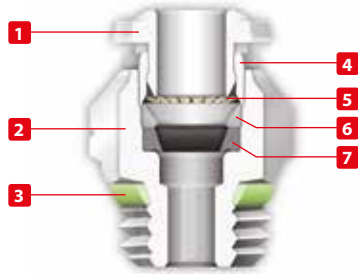


TECHNICAL CHARACTERISTICS



Reference Standard

- 1907/2006
REACH ✓
- 2011/65/CE
RoHS ✓
- PED
2014/68/UE
- ISO
14743:2004
- SILICON
FREE



Pressure Rating

Vacuum ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

FKM
5° F ~ 392° F
-15° C ~ 200° C



Media

- Compressed Air
- Vacuum
- Water
- Steam



Applications

- Pneumatic Automation
- Automotive
- Textile, Packaging
- Compressed Air Circuit
- Vacuum



Advantages

- 1 The 316L Stainless Steel gripper ensures a tight clamp for tubes of any material without damaging the tube's surface. The secure connection between the tube and the fitting will hold up to severe conditions such as impact and vibrations.
- 2 The shape of the safety ring and the molded seal perfectly seal off the tube, creating a vacuum.
- 3 Series with several types of threads:
SWIFTFIT
UNF
BSPP
BSPT
- 4 All straight fittings can be tightened with an Allen wrench because of our internal hex design. This enables the end user to tighten the fitting in spaces too small for an openend wrench.
- 5 Our rotating Swivel Elbow fittings are equipped with a safety ring that enables the fitting to rotate without losing a tight seal.



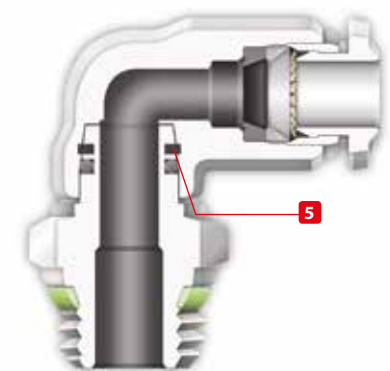
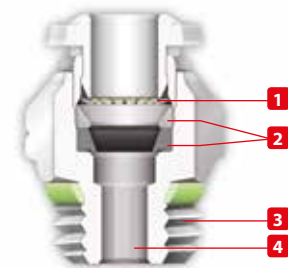
Component Parts and Materials

- 1 Stainless Steel Release Collet
- 2 Stainless Steel Body
- 3 FKM Thread Seal
- 4 Stainless Steel Sleeve
- 5 Stainless Steel Gripper
- 6 Technopolymer Safety Ring
- 7 FKM Molded Seal
- 8 Stainless Steel Thread Body
- 9 FKM Seal
- 10 Safety Ring



Tubing Compatibility

- Nylon 6 - 11 -12
Polyethylene
Polyurethane ("98 Shore A for best result)
PTFE
FEP

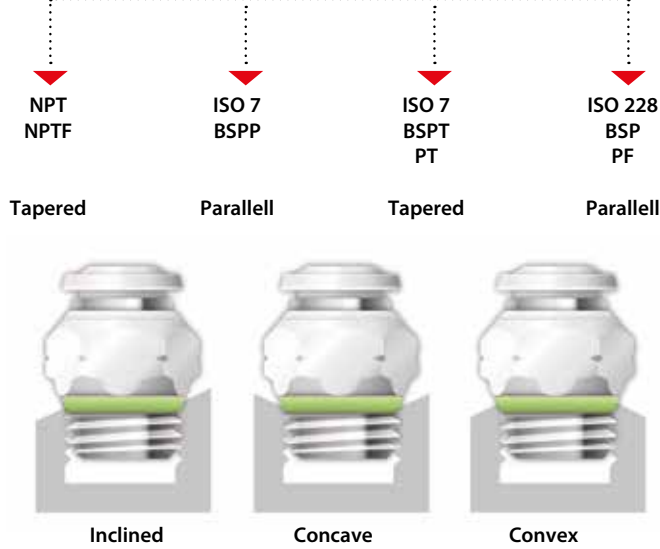




THREADS & ADVANTAGES



One fittings... Endless possibilities



Our **SWIFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

The **SWIFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads
- All **SWIFFIT** fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.

Torque Specifications

Recommended Torque		
Thread Size	Min.	Max.
1/8	5 Nm	7 Nm
1/4	5 Nm	7 Nm
3/8	5 Nm	7 Nm
1/2	5 Nm	7 Nm



UNF Threads



The **UNF** Thread has been designed to offer the following advantages to the end users:

- Standard USA design
- Designed for use in UNF connections with an integrated NBR o-ring that provides a perfect seal

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking Torque
10/32	0.8 Nm	3.2 Nm



BSPP Threads



The **BSPP** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 228 and ISO R/262
- Designed for use in BSPP connections with an integrated NBR o-ring that provides a perfect seal
- Completely reusable

Torque Specifications

Recommended Torque		
Thread Size	Min.	Breaking torque
M5	0.8 Nm	3.2 Nm
1/2	3 Nm	8 Nm
1/4	9 Nm	30 Nm
3/8	10 Nm	60 Nm
1/2	12 Nm	50 Nm



BSPT Thread without seal

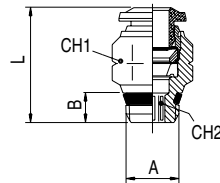


The **BSPT** Thread has been designed to offer the following advantages to the end users:

- Standard ISO 7.1, BS 21, DN 2999
- Designed for use in BSPT and BSPP with seal or glue

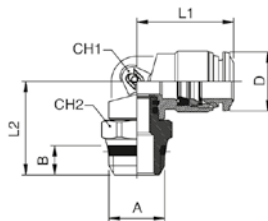
316 STAINLESS STEEL PUSH-TO-CONNECT FOR INCH TUBE

60000
STRAIGHT MALE



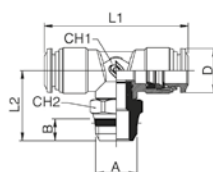
Part No.	Tube	A	B	L	CH1	CH2	C
60000-53-02	5/32 (4)	1/8	.216 (5,5)	.708 (17,5)	.433 (11)	.118 (3)	-
60000-53-04	5/32 (4)	1/4	.275 (7)	.767 (19,5)	.551 (14)	.118 (3)	-
60000-04-02	1/4	1/8	.334 (8,5)	.925 (23,5)	.511 (13)	.157 (4)	-
60000-04-04	1/4	1/4	.275 (7)	.807 (20,5)	.551 (14)	.157 (4)	-
60000-05-02	5/16 (8)	1/8	.216 (5,5)	.944 (24)	.551 (14)	.196 (5)	-
60000-05-04	5/16 (8)	1/4	.275 (7)	.846 (21,5)	.551 (14)	.236 (6)	-
60000-06-04	3/8	1/4	.275 (7)	1.279 (32,5)	.669 (17)	.275 (7)	-
60000-06-06	3/8	3/8	.295 (7,5)	1.161 (29,5)	.708 (18)	.275 (7)	-
60000-08-06	1/2	3/8	.295 (7,5)	1.220 (31)	.826 (21)	.354 (9)	-
60000-08-08	1/2	1/2	.354 (9)	1.220 (31)	.826 (21)	.393 (10)	-

60110
SWIVEL ELBOW



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
60110-53-02	5/32 (4)	1/8	.216 (5,5)	.708 (18)	.688 (17,5)	.354 (9)	.511 (13)	.394 (10)
60110-53-04	5/32 (4)	1/4	.275 (7)	.708 (18)	.688 (17,5)	.354 (9)	.551 (14)	.394 (10)
60110-04-02	1/4	1/8	.216 (5,5)	.826 (21)	.748 (19)	.433 (11)	.511 (13)	.492 (12,5)
60110-04-04	1/4	1/4	.275 (7)	.826 (21)	.748 (19)	.433 (11)	.590 (15)	.492 (12,5)
60110-05-02	5/16 (8)	1/8	.216 (5,5)	.885 (22,5)	.826 (21)	.472 (12)	.511 (13)	.571 (14,5)
60110-05-04	5/16 (8)	1/4	.275 (7)	.885 (22,5)	.826 (21)	.472 (12)	.590 (15)	.571 (14,5)
60110-06-04	3/8	1/4	.275 (7)	1.023 (26)	.984 (25)	.629 (16)	.629 (16)	.689 (17,5)
60110-06-06	3/8	3/8	.295 (7,5)	1.023 (26)	.925 (23,5)	.629 (16)	.669 (17)	.689 (17,5)
60110-06-08	3/8	1/2	.354 (9)	1.023 (26)	1.023 (26)	.629 (16)	.826 (21)	.689 (17,5)
60110-08-06	1/2	3/8	.295 (7,5)	1.200 (30,5)	1.003 (25,5)	.748 (19)	.787 (20)	.807 (20,5)
60110-08-08	1/2	1/2	.354 (9)	1.200 (30,5)	1.102 (28)	.748 (19)	.826 (21)	.807 (20,5)

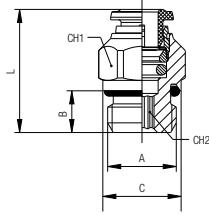
60210
SWIVEL BRANCH TEE



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
60210-53-02	5/32 (4)	1/8	.216 (5,5)	1.417 (36)	.688 (17,5)	.354 (9)	.511 (13)	.394 (10)
60210-53-04	5/32 (4)	1/4	.275 (7)	1.417 (36)	.688 (17,5)	.354 (9)	.590 (15)	.394 (10)
60210-04-02	1/4	1/8	.216 (5,5)	1.653 (42)	.748 (19)	.433 (11)	.511 (13)	.492 (12,5)
60210-04-04	1/4	1/4	.275 (7)	1.653 (42)	.748 (19)	.433 (11)	.590 (15)	.492 (12,5)
60210-05-02	5/16 (8)	1/8	.216 (5,5)	1.771 (45)	.826 (21)	.472 (12)	.511 (13)	.571 (14,5)
60210-05-04	5/16 (8)	1/4	.275 (7)	1.771 (45)	.826 (21)	.472 (12)	.590 (15)	.571 (14,5)
60210-06-04	3/8	1/4	.275 (7)	2.047 (52)	.984 (25)	.629 (16)	.629 (16)	.689 (17,5)
60210-06-06	3/8	3/8	.295 (7,5)	2.047 (52)	.925 (23,5)	.629 (16)	.669 (17)	.689 (17,5)
60210-06-08	3/8	1/2	.354 (9)	2.047 (52)	1.023 (26)	.629 (16)	.826 (21)	.689 (17,5)
60210-08-06	1/2	3/8	.295 (7,5)	2.381 (60,5)	1.003 (25,5)	.748 (19)	.787 (20)	.807 (20,5)
60210-08-08	1/2	1/2	.354 (9)	2.381 (60,5)	1.102 (28)	.748 (19)	.826 (21)	.807 (20,5)

60000
STRAIGHT MALE

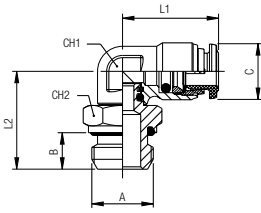
UNF



Part No.	Tube	A	B	L	CH1	CH2	C
60000-53-32	5/32 (4)	10/32	.157 (4)	.826 (21)	.393 (10)	.078 (2)	.314 (8)
60000-04-32	1/4	10/32	.157 (4)	.906 (23)	.472 (12)	.078 (2)	.472 (12)

60110
SWIVEL ELBOW

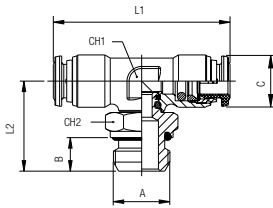
UNF



Part No.	Tube	A	B	L1	L2	CH1	CH2	D
60110-53-32	5/32 (4)	10/32	.157 (4)	.708 (18)	.629 (16)	.354 (9)	.314 (8)	.394 (10)

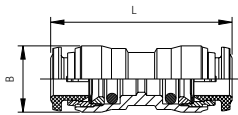
60210
SWIVEL BRANCH TEE

UNF



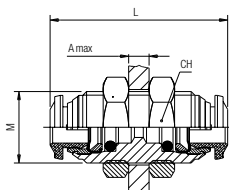
Part No.	Tube	A	B	L1	L2	CH1	CH2	D
60210-53-32	5/32 (4)	10/32	.157 (4)	1.417 (36)	.629 (16)	.354 (9)	.314 (8)	.394 (10)

60040
UNION



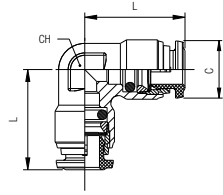
Part No.	Tube	L	B
60040-53	5/32 (4)	1.220 (31)	.393 (10)
60040-04	1/4	1.377 (35)	.492 (12,5)
60040-05	5/16 (8)	1.437 (36,5)	.570 (14,5)
60040-06	3/8	1.653 (42)	.688 (17,5)
60040-08	1/2	1.889 (48)	.807 (20,5)

60050
BULKHEAD UNION



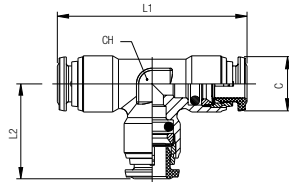
Part No.	Tube	M	L	CH	A max
60050-53	5/32 (4)	M12x1	1.220 (31)	.669 (17)	.275 (7)
60050-04	1/4	M14x1	1.377 (35)	.669 (17)	.354 (9)
60050-05	5/16 (8)	M16x1	1.456 (37)	.748 (19)	.413 (10,5)
60050-06	3/8	M20x1	1.653 (42)	1.023 (26)	.492 (12,5)
60050-08	1/2	M22x1	1.889 (48)	1.023 (26)	.649 (16,5)

60130
UNION ELBOW



Part No.	Tube	L	CH	C
60130-53	5/32 (4)	.708 (18)	.354 (9)	.394 (10)
60130-04	1/4	.826 (21)	.433 (11)	.492 (12,5)
60130-05	5/16 (8)	.885 (22,5)	.472 (12)	.571 (14,5)
60130-06	3/8	1.023 (26)	.629 (16)	.688 (17,5)
60130-08	1/2	1.200 (30,5)	.748 (19)	.807 (20,5)

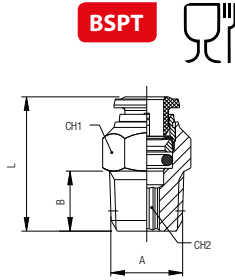
60230
UNION TEE



Part No.	Tube	L1	L2	CH	C
60230-53	5/32 (4)	1.417 (36)	.708 (18)	.354 (9)	.394 (10)
60230-04	1/4	1.653 (42)	.826 (21)	.433 (11)	.492 (12,5)
60230-05	5/16 (8)	1.771 (45)	.885 (22,5)	.472 (12)	.571 (14,5)
60230-06	3/8	2.047 (52)	1.023 (26)	.629 (16)	.689 (17,5)
60230-08	1/2	2.381 (60,5)	1.200 (30,5)	.748 (19)	.807 (20,5)

316 STAINLESS STEEL PUSH-TO-CONNECT FOR METRIC TUBE

60000
STRAIGHT MALE

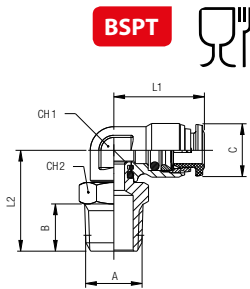


BSPT



Part No.	Tube	A	B	L	CH1	CH2
60000-4-1/8	5/32 (4)	1/8	.295 (7,5)	.748 (19)	.394 (10)	.118 (3)
60000-4-1/4	5/32 (4)	1/4	.433 (11)	.906 (23)	.551 (14)	.118 (3)
60000-6-1/8	6	1/8	.295 (7,5)	.886 (22,5)	.512 (13)	.157 (4)
60000-6-1/4	6	1/4	.433 (11)	.965 (24,5)	.551 (14)	.157 (4)
60000-8-1/8	5/16 (8)	1/8	.295 (7,5)	1.004 (25,5)	.551 (14)	.197 (5)
60000-8-1/4	5/16 (8)	1/4	.433 (11)	.984 (25)	.551 (14)	.236 (6)
60000-10-1/4	10	1/4	.433 (11)	1.201 (30,5)	.669 (17)	.276 (7)
60000-10-3/8	10	3/8	.453 (11,5)	1.102 (28)	.669 (17)	.315 (8)
60000-12-3/8	12	3/8	.453 (11,5)	1.319 (33,5)	.827 (21)	.354 (9)
60000-12-1/2	12	1/2	.551 (14)	1.260 (32)	.866 (22)	.394 (10)

60110
SWIVEL ELBOW

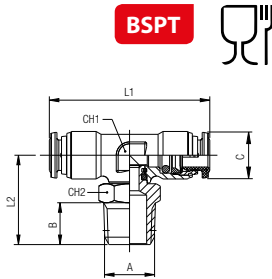


BSPT



Part No.	Tube	A	B	C	L1	L2	CH1	CH2
60110-4-1/8	5/32 (4)	1/8	.394 (10)	.295 (7,5)	.709 (18)	.689 (17,5)	.354 (9)	.433 (11)
60110-4-1/4	5/32 (4)	1/4	.394 (10)	.433 (11)	.709 (18)	.846 (21,5)	.354 (9)	.551 (14)
60110-6-1/8	6	1/8	.492 (12,5)	.295 (7,5)	.827 (21)	.768 (19,5)	.433 (11)	.433 (11)
60110-6-1/4	6	1/4	.492 (12,5)	.433 (11)	.827 (21)	.925 (23,5)	.433 (11)	.551 (14)
60110-8-1/8	5/16 (8)	1/8	.571 (14,5)	.295 (7,5)	.886 (22,5)	.787 (20)	.472 (12)	.433 (11)
60110-8-1/4	5/16 (8)	1/4	.571 (14,5)	.433 (11)	.886 (22,5)	.945 (24)	.472 (12)	.551 (14)
60110-10-1/4	10	1/4	.689 (17,5)	.433 (11)	1.024 (26)	1.004 (25,5)	.630 (16)	.669 (17)
60110-10-3/8	10	3/8	.689 (17,5)	.453 (11,5)	1.024 (26)	1.063 (27)	.630 (16)	.669 (17)
60110-10-1/2	10	1/2	.689 (17,5)	.551 (14)	1.024 (26)	1.201 (30,5)	.630 (16)	.866 (22)
60110-12-3/8	12	3/8	.807 (20,5)	.453 (11,5)	1.201 (30,5)	1.201 (30,5)	.748 (19)	.709 (18)
60110-12-1/2	12	1/2	.807 (20,5)	.551 (14)	1.201 (30,5)	1.299 (33)	.748 (19)	.866 (22)

60210
SWIVEL BRANCH TEE

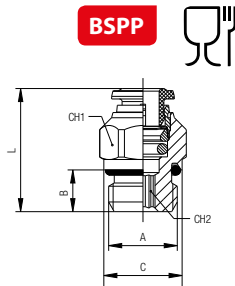


BSPT



Part No.	Tube	A	B	C	L1	L2	CH1	CH2
60210-4-1/8	5/32 (4)	1/8	.295 (7,5)	.394 (10)	1.417 (36)	.728 (18,5)	.354 (9)	.433 (11)
60210-4-1/4	5/32 (4)	1/4	.433 (11)	.394 (10)	1.417 (36)	.886 (22,5)	.354 (9)	.551 (14)
60210-6-1/8	6	1/8	.295 (7,5)	.492 (12,5)	1.654 (42)	.768 (19,5)	.433 (11)	.433 (11)
60210-6-1/4	6	1/4	.433 (11)	.492 (12,5)	1.654 (42)	.925 (23,5)	.433 (11)	.551 (14)
60210-8-1/8	5/16 (8)	1/8	.295 (7,5)	.571 (14,5)	1.772 (45)	.807 (20,5)	.472 (12)	.433 (11)
60210-8-1/4	5/16 (8)	1/4	.433 (11)	.571 (14,5)	1.772 (45)	.965 (24,5)	.472 (12)	.551 (14)
60210-10-1/4	10	1/4	.433 (11)	.689 (17,5)	2.047 (52)	1.024 (26)	.630 (16)	.551 (14)
60210-10-3/8	10	3/8	.453 (11,5)	.689 (17,5)	2.047 (52)	1.083 (27,5)	.630 (16)	.669 (17)
60210-10-1/2	10	1/2	.551 (14)	.689 (17,5)	2.047 (52)	1.220 (31)	.630 (16)	.866 (22)
60210-12-3/8	12	3/8	.453 (11,5)	.807 (20,5)	2.402 (61)	1.201 (30,5)	.748 (19)	.709 (18)
60210-12-1/2	12	1/2	.551 (14)	.807 (20,5)	2.402 (61)	1.299 (33)	.748 (19)	.866 (22)

60020
STRAIGHT MALE

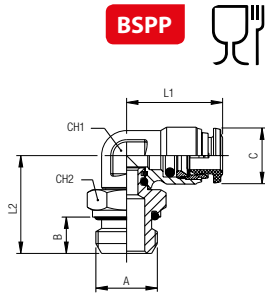


BSPP



Part No.	Tube	A	B	C	L	CH1	CH2
60020-4-M5	5/32 (4)	M5	.157 (4)	.315 (8)	.787 (20)	.394 (10)	.079 (2)
60020-4-1/8	5/32 (4)	1/8	.236 (6)	.512 (13)	.768 (19,5)	.394 (10)	.118 (3)
60020-4-1/4	5/32 (4)	1/4	.315 (8)	.591 (15)	.768 (19,5)	.591 (15)	.118 (3)
60020-6-M5	6	M5	.157 (4)	.394 (10)	.906 (23)	.472 (12)	.079 (2)
60020-6-1/8	6	1/8	.236 (6)	.512 (13)	.925 (23,5)	.512 (13)	.157 (4)
60020-6-1/4	6	1/4	.315 (8)	.591 (15)	.925 (23,5)	.591 (15)	.157 (4)
60020-8-1/8	5/16 (8)	1/8	.236 (6)	.512 (13)	1.004 (25,5)	.551 (14)	.197 (5)
60020-4-1/8	5/16 (8)	1/4	.315 (8)	.591 (15)	.925 (23,5)	.591 (15)	.236 (6)
60020-10-1/4	10	1/4	.315 (8)	.630 (16)	1.181 (30)	.669 (17)	.315 (8)
60020-10-3/8	10	3/8	.354 (9)	.787 (20)	1.063 (27)	.669 (17)	.315 (8)
60020-10-1/2	10	1/2	.394 (10)	.669 (17)	1.181 (30)	.866 (22)	.315 (8)
60020-12-3/8	12	3/8	.354 (9)	.827 (21)	1.339 (34)	.827 (21)	.315 (8)
60020-12-1/2	12	1/2	.394 (10)	.984 (25)	1.22 (31)	.866 (22)	.394 (10)

60115
SWIVEL ELBOW

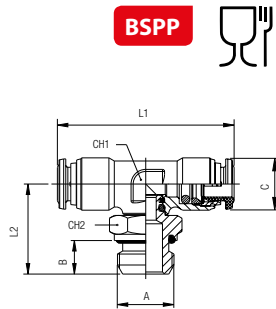


BSPP



Part No.	Tube	A	B	C	L1	L2	CH1	CH2
60115-4-M5	5/32 (4)	M5	.157 (4)	.394 (10)	.709 (18)	.591 (15)	.354 (9)	.315 (8)
60115-4-1/8	5/32 (4)	1/8	.236 (6)	.394 (10)	.709 (18)	.669 (17)	.354 (9)	.512 (13)
60115-4-1/4	5/32 (4)	1/4	.315 (8)	.394 (10)	.709 (18)	.768 (19,5)	.354 (9)	.591 (15)
60115-6-M5	6	M5	.157 (4)	.492 (12,5)	.827 (21)	.709 (18)	.433 (11)	.394 (10)
60115-6-1/8	6	1/8	.236 (6)	.492 (12,5)	.827 (21)	.748 (19)	.433 (11)	.512 (13)
60115-6-1/4	6	1/4	.315 (8)	.492 (12,5)	.827 (21)	.846 (21,5)	.433 (11)	.591 (15)
60115-8-1/8	5/16 (8)	1/8	.236 (6)	.571 (14,5)	.886 (22,5)	.768 (19,5)	.472 (12)	.512 (13)
60115-8-1/4	5/16 (8)	1/4	.315 (8)	.571 (14,5)	.886 (22,5)	.846 (21,5)	.472 (12)	.591 (15)
60115-10-1/4	10	1/4	.315 (8)	.689 (17,5)	1.024 (26)	.906 (23)	.630 (16)	.591 (15)
60115-10-3/8	10	3/8	.354 (9)	.689 (17,5)	1.024 (26)	1.043 (26,5)	.630 (16)	.827 (21)
60115-10-1/2	10	1/2	.394 (10)	.689 (17,5)	1.024 (26)	1.142 (29)	.630 (16)	.866 (22)
60115-12-3/8	12	3/8	.354 (9)	.807 (20,5)	1.201 (30,5)	1.142 (29)	.748 (19)	.827 (21)
60115-12-1/2	12	1/2	.394 (10)	.807 (20,5)	1.201 (30,5)	1.240 (31,5)	.748 (19)	.866 (22)

60215
SWIVEL BRANCH TEE

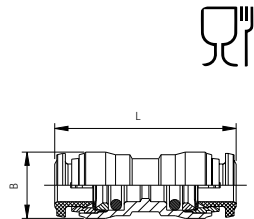


BSPP



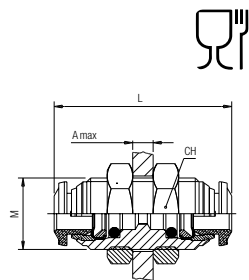
Part No.	Tube	A	B	C	L1	L2	CH1	CH2
60215-4-M5	5/32 (4)	M5	.157 (4)	.394 (10)	1.417 (36)	.591 (15)	.354 (9)	.315 (8)
60215-4-1/8	5/32 (4)	1/8	.236 (6)	.394 (10)	1.417 (36)	.709 (18)	.354 (9)	.512 (13)
60215-4-1/4	5/32 (4)	1/4	.315 (8)	.394 (10)	1.417 (36)	.807 (20,5)	.354 (9)	.591 (15)
60215-6-1/8	6	1/8	.236 (6)	.492 (12,5)	1.654 (42)	.748 (19)	.433 (11)	.512 (13)
60215-6-1/4	6	1/4	.315 (8)	.492 (12,5)	1.654 (42)	.846 (21,5)	.433 (11)	.591 (15)
60215-8-1/8	5/16 (8)	1/8	.236 (6)	.571 (14,5)	1.772 (45)	.787 (20)	.472 (12)	.512 (13)
60215-8-1/4	5/16 (8)	1/4	.315 (8)	.571 (14,5)	1.772 (45)	.866 (22)	.472 (12)	.591 (15)
60215-10-1/4	10	1/4	.315 (8)	.689 (17,5)	2.047 (52)	.925 (23,5)	.630 (16)	.591 (15)
60215-10-3/8	10	3/8	.354 (9)	.689 (17,5)	2.047 (52)	1.063 (27)	.630 (16)	.827 (21)
60215-10-1/2	10	1/2	.394 (10)	.689 (17,5)	2.047 (52)	1.161 (29,5)	.630 (16)	.866 (22)
60215-12-3/8	12	3/8	.354 (9)	.807 (20,5)	2.402 (61)	1.142 (29)	.748 (19)	.827 (21)
60215-12-1/2	12	1/2	.394 (10)	.807 (20,5)	2.402 (61)	1.240 (31,5)	.748 (19)	.866 (22)

60040
UNION



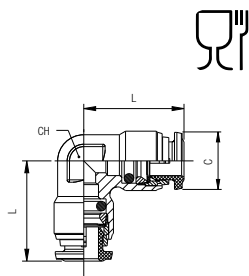
Part No.	Tube	L	B
60040-53	5/32 (4)	.393 (10)	1.220 (31)
60040-6	6	1.378 (35)	.492 (12,5)
60040-8	5/16 (8)	.570 (14,5)	1.437 (36,5)
60040-10	10	1.654 (42)	.689 (17,5)
60040-12	12	1.890 (48)	.807 (20,5)

60050
BULKHEAD UNION



Part No.	Tube	M	L	CH	A max
60050-53	5/32 (4)	M12x1	1.220 (31)	.669 (17)	.275 (7)
60050-6	6	M14x1	1.377 (35)	.669 (17)	.374 (9,5)
60050-8	5/16 (8)	M16x1	1.456 (37)	.748 (19)	.413 (10,5)
60050-10	10	M20x1	1.653 (42)	1.023 (26)	.492 (12,5)
60050-12	12	M22x1	1.889 (48)	1.023 (26)	.649 (16,5)

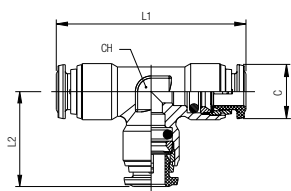
60130
UNION ELBOW



Part No.	Tube	L	CH	C
60130-53	5/32 (4)	.708 (18)	.354 (9)	.394 (10)
60130-6	6	.826 (21)	.433 (11)	.492 (12,5)
60130-8	5/16 (8)	.885 (22,5)	.472 (12)	.571 (14,5)
60130-10	10	1.023 (26)	.629 (16)	.688 (17,5)
60130-12	12	1.200 (30,5)	.748 (19)	.807 (20,5)

60230

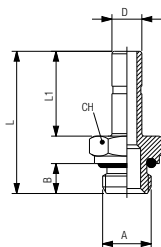
UNION TEE



Part No.	Tube	L1	L2	CH	C
60230-53	5/32 (4)	1.417 (36)	.708 (18)	.354 (9)	.394 (10)
60230-6	6	1.653 (42)	.826 (21)	.433 (11)	.492 (12,5)
60230-8	5/16 (8)	1.771 (45)	.885 (22,5)	.472 (12)	.571 (14,5)
60230-10	10	2.047 (52)	1.023 (26)	.629 (16)	.689 (17,5)
60230-12	12	2.381 (60,5)	1.200 (30,5)	.748 (19)	.807 (20,5)

60600

STANDPIPE



Part No.	D	A	B	L	L1	CH
60600-6-1/8	6	1/8	.236 (6)	1.122 (28,5)	.669 (17)	.512 (13)
60600-8-1/4	5/16 (8)	1/4	.315 (8)	1.240 (31,5)	.709 (18)	.551 (14)
60600-10-1/4	10	1/4	.315 (8)	1.398 (35,5)	.866 (22)	.551 (14)
60600-10-3/8	10	3/8	.354 (9)	1.476 (37,5)	.866 (22)	.787 (20)
60600-12-3/8	12	3/8	.354 (9)	1.575 (40)	.965 (24,5)	.787 (20)
60600-12-1/2	12	1/2	.394 (10)	1.673 (42,5)	.965 (24,5)	.945 (24)



TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE



Pressure Rating

-14 ~ 290 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Media

- Compressed Air
- Fluids for food and chemical industry compatible with component specifications



Temperatures Rating

FKM
-166° F ~ 572° F
-110° C ~ 300° C

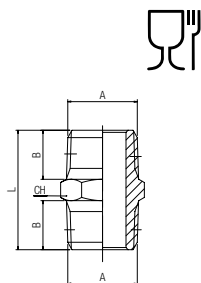


Threads

BSPT
BSPP
Metric screw thread conforming with ISO R/262

62000

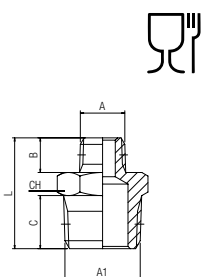
HEX NIPPLE



Part No.	A	B	L	CH
62000-1/8	1/8	.295 (7,5)	.768 (19,5)	.433 (11)
62000-1/4	1/4	.433 (11)	1.063 (27)	.551 (14)
62000-3/8	3/8	.453 (11,5)	1.102 (28)	.669 (17)
62000-1/2	1/2	.551 (14)	1.319 (33,5)	.866 (22)
62000-3/4	3/4	.650 (16,5)	1.575 (40)	1.063 (27)

62020

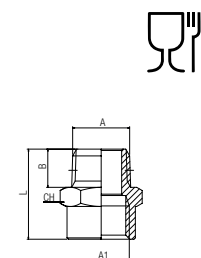
REDUCER NIPPLE



Part No.	A	A1	B	C	L	CH
62020-1/8-1/4	1/8	1/4	.295 (7,5)	.433 (11)	.925 (23,5)	.551 (14)
62020-1/8-3/8	1/8	3/8	.295 (7,5)	.453 (11,5)	.945 (24)	.669 (17)
62020-1/4-3/8	1/4	3/8	.433 (11)	.453 (11,5)	1.083 (27,5)	.669 (17)
62020-1/4-1/2	1/4	1/2	.433 (11)	.551 (14)	1.201 (30,5)	.866 (22)
62020-3/8-1/2	3/8	1/2	.453 (11,5)	.551 (14)	1.220 (31)	.866 (22)
62020-1/2-3/4	1/2	3/4	.551 (14)	.650 (16,5)	1.476 (37,5)	1.063 (27)

62040

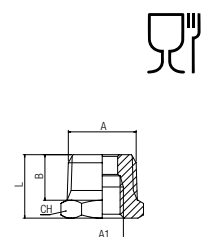
REDUCER (TAPER)



Part No.	A	A1	B	L	CH
62040-1/8-1/4	1/8	1/4	.295 (7,5)	.866 (22)	.669 (17)
62040-1/4-3/8	1/4	3/8	.433 (11)	1.063 (27)	.866 (22)
62040-1/4-1/2	1/4	1/2	.433 (11)	1.181 (30)	.945 (24)
62040-3/8-1/2	3/8	1/2	.453 (11,5)	1.201 (30,5)	.945 (24)
62040-1/2-3/4	1/2	3/4	.551 (14)	1.378 (35)	1.260 (32)

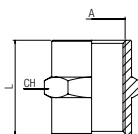
62080

REDUCER (TAPER)



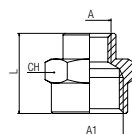
Part No.	A	A1	B	L	CH
62080-1/4-1/8	1/4	1/8	.433 (11)	.630 (16)	.551 (14)
62080-3/8-1/8	3/8	1/8	.453 (11,5)	.650 (16,5)	.669 (17)
62080-3/8-1/4	3/8	1/4	.453 (11,5)	.650 (16,5)	.669 (17)
62080-1/2-1/4	1/2	1/4	.551 (14)	.768 (19,5)	.866 (22)
62080-1/2-3/8	1/2	3/8	.551 (14)	.768 (19,5)	.866 (22)
62080-3/4-1/2	3/4	1/2	.650 (16,5)	.925 (23,5)	1.063 (27)

62300
FEMALE COUPLER



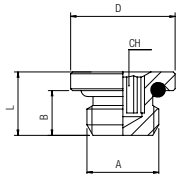
Part No.	A	L	CH
62300-1/8	1/8	.591 (15)	.551 (14)
62300-1/4	1/4	.866 (22)	.669 (17)
62300-3/8	3/8	.945 (24)	.866 (22)
62300-1/2	1/2	1.181 (30)	1.063 (27)
62300-3/4	3/4	1.260 (32)	1.260 (32)

62310
REDUCER COUPLER



Part No.	A	A1	L	CH
62310-1/8-1/4	1/8	1/4	.748 (19)	.669 (17)
62310-1/4-3/8	1/4	3/8	.906 (23)	.866 (22)
62310-3/8-1/2	3/8	1/2	1.083 (27,5)	.945 (24)
62310-1/2-3/4	1/2	3/4	1.181 (30)	1.181 (30)

62315
MALE PLUG WITH INTERNAL HEX



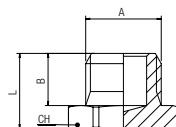
Part No.	A	B	L	D	CH
62315-M5	M5	.157 (4)	.236 (6)	.315 (8)	.079 (2)
62315-1/8	1/8	.236 (6)	.335 (8,5)	.551 (14)	.197 (5)
62315-1/4	1/4	.315 (8)	.433 (11)	.709 (18)	.236 (6)
62315-3/8	3/8	.354 (9)	.492 (12,5)	.787 (20)	.315 (8)
62315-1/2	1/2	.394 (10)	.531 (13,5)	.984 (25)	.394 (10)



Temperature

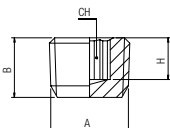
min	max
- 15 °C 5 °F	+ 200 °C 392 °F

62320
MALE PLUG



Part No.	A	B	L	CH
62320-1/8	1/8	.256 (6,5)	.394 (10)	.551 (14)
62320-1/4	1/4	.354 (9)	.512 (13)	.669 (17)
62320-3/8	3/8	.374 (9,5)	.531 (13,5)	.748 (19)
62320-1/2	1/2	.394 (10)	.571 (14,5)	.945 (24)
62320-3/4	3/4	.433 (11)	.630 (16)	1.181 (30)

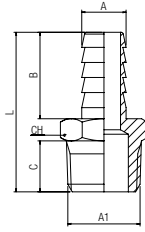
62325
MALE PLUG DIN 906



Part No.	A	B	H	CH
62325-1/8	1/8	.295 (7,5)	.197 (5)	.197 (5)
62325-1/4	1/4	.394 (10)	.276 (7)	.236 (6)
62325-3/8	3/8	.433 (11)	.276 (7)	.315 (8)
62325-1/2	1/2	.512 (13)	.315 (8)	.394 (10)

62340

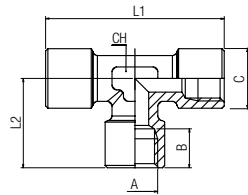
MALE HOSE ADAPTER



Part No.	A	A1	B	C	L	CH
62340-6-1/8	6	1/8	.768 (19,5)	.295 (7,5)	1.260 (32)	.433 (11)
62340-7-1/8	7	1/8	.768 (19,5)	.295 (7,5)	1.260 (32)	.433 (11)
62340-7-1/4	7	1/4	.768 (19,5)	.433 (11)	1.398 (35,5)	.551 (14)
62340-8-1/4	8	1/4	.768 (19,5)	.433 (11)	1.398 (35,5)	.551 (14)
62340-9-1/4	9	1/4	.768 (19,5)	.433 (11)	1.398 (35,5)	.551 (14)
62340-9-3/8	9	3/8	.768 (19,5)	.453 (11,5)	1.417 (36)	.669 (17)
62340-10-1/4	10	1/4	.768 (19,5)	.433 (11)	1.398 (35,5)	.551 (14)
62340-10-3/8	10	3/8	.768 (19,5)	.453 (11,5)	1.417 (36)	.669 (17)
62340-10-1/2	10	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-12-1/4	12	1/4	.768 (19,5)	.433 (11)	1.398 (35,5)	.551 (14)
62340-12-3/8	12	3/8	.768 (19,5)	.453 (11,5)	1.417 (36)	.669 (17)
62340-12-1/2	12	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-14-3/8	14	3/8	.768 (19,5)	.453 (11,5)	1.417 (36)	.669 (17)
62340-14-1/2	14	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-16-1/2	16	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-18-1/2	18	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-18-3/4	18	3/4	.768 (19,5)	.650 (16,5)	1.713 (43,5)	1.063 (27)
62340-20-1/2	20	1/2	.768 (19,5)	.551 (14)	1.535 (39)	.866 (22)
62340-20-3/4	20	3/4	.768 (19,5)	.531 (13,5)	1.575 (40)	1.063 (27)

62400

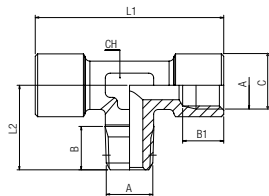
FEMALE TEE



Part No.	A	B	C	L1	L2	CH
62400-1/8	1/8	.335 (8,5)	.512 (13)	1.457 (37)	.728 (18,5)	.472 (12)
62400-1/4	1/4	.433 (11)	.650 (16,5)	1.929 (49)	.965 (24,5)	.472 (12)
62400-3/8	3/8	.472 (12)	.807 (20,5)	2.126 (54)	1.063 (27)	.591 (15)
62400-1/2	1/2	.591 (15)	1.004 (25,5)	2.520 (64)	1.260 (32)	.787 (20)

62440

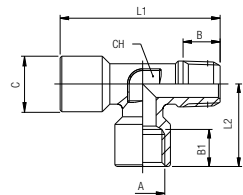
MALE TEE



Part No.	A	B	B1	C	L1	L2	CH
62440-1/8	1/8	.295 (7,5)	.335 (8,5)	.689 (17,5)	1.457 (37)	.689 (17,5)	.472 (12)
62440-1/4	1/4	.433 (11)	.433 (11)	.906 (23)	1.929 (49)	.906 (23)	.472 (12)
62440-3/8	3/8	.453 (11,5)	.472 (12)	1.004 (25,5)	2.126 (54)	1.004 (25,5)	.591 (15)
62440-1/2	1/2	.551 (14)	.591 (15)	1.161 (29,5)	2.52 (64)	1.161 (29,5)	.787 (20)

62450

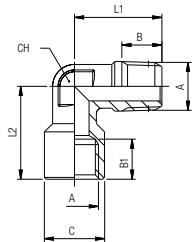
MALE RUN TEE



Part No.	A	B	B1	C	L1	L2	CH
62450-1/8	1/8	.295 (7,5)	.335 (8,5)	.728 (18,5)	1.417 (36)	.728 (18,5)	.472 (12)
62450-1/4	1/4	.433 (11)	.433 (11)	.965 (24,5)	1.87 (47,5)	.965 (24,5)	.472 (12)
62450-3/8	3/8	.453 (11,5)	.472 (12)	1.063 (27)	2.067 (52,5)	1.063 (27)	.591 (15)
62450-1/2	1/2	.551 (14)	.591 (15)	1.26 (32)	2.421 (61,5)	1.26 (32)	.787 (20)

62520

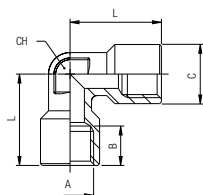
ELBOW MI X Fm



Part No.	A	B	B1	C	L1	L2	CH
62520-1/8	1/8	.295 (7,5)	.335 (8,5)	.827 (21)	.709 (18)	.827 (21)	.394 (10)
62520-1/4	1/4	.433 (11)	.433 (11)	1.004 (25,5)	.945 (24)	1.004 (25,5)	.472 (12)
62520-3/8	3/8	.453 (11,5)	.472 (12)	1.102 (28)	1.063 (27)	1.102 (28)	.591 (15)
62520-1/2	1/2	.551 (14)	.591 (15)	1.260 (32)	1.161 (29,5)	1.260 (32)	.787 (20)

62510

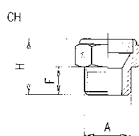
ELBOW Fm X Fm



Part No.	A	C	B	L	CH
62510-1/8	1/8	.512 (13)	.335 (8,5)	.827 (21)	.394 (10)
62510-1/4	1/4	.65 (16,5)	.433 (11)	1.004 (25,5)	.472 (12)
62510-3/8	3/8	.807 (20,5)	.472 (12)	1.102 (28)	.591 (15)
62510-1/2	1/2	1.004 (25,5)	.591 (15)	1.260 (32)	.787 (20)

62540

BREATHER VENT



Part No.	A	F	H	CH	dB*
62540-1/8	1/8	.315 (8)	.591 (15)	.551 (14)	73
62540-1/4	1/4	.315 (8)	.591 (15)	.669 (17)	74
62540-3/8	3/8	.394 (10)	.709 (18)	.866 (22)	86
62540-1/2	1/2	.472 (12)	.866 (22)	1.063 (27)	80

	min	max
Temperature	- 20 °C - 4 °F	+ 300 °C 572 °F
Pressure		10 bar
Filtration threshold		70 µm

dB* Acoustic fading at 6 bar

Functional Series

 89953 Pag. 8.5	 89963 Pag. 8.5	 89973 Pag. 8.5	 89958 Pag. 8.6	 89968 Pag. 8.6	 89978 Pag. 8.6	 88953 Pag. 8.7	 88963 Pag. 8.7	 88973 Pag. 8.7
 88958 Pag. 8.8	 88968 Pag. 8.8	 88978 Pag. 8.8	 50901N Pag. 8.9	 50910N Pag. 8.9	 50920N Pag. 8.9	 50905N Pag. 8.10	 50915N Pag. 8.10	 50925N Pag. 8.10
 85953 Pag. 8.11	 85963 Pag. 8.11	 85973 Pag. 8.11	 85958 Pag. 8.12	 85968 Pag. 8.12	 85978 Pag. 8.12	 55900 Pag. 8.13	 55910 Pag. 8.13	 55920 Pag. 8.13
 55905 Pag. 8.14	 55915 Pag. 8.14	 55925 Pag. 8.14	 88952 Pag. 8.15	 88962 Pag. 8.15	 88972 Pag. 8.15	 88957 Pag. 8.16	 88967 Pag. 8.16	 88977 Pag. 8.16
 82815 Pag. 8.17	 82820 Pag. 8.17	 82830 Pag. 8.17	 82835 Pag. 8.17	 82850 Pag. 8.19	 82860 Pag. 8.19	 82650 Pag. 8.20	 82660 Pag. 8.21	 82662 Pag. 8.23
 82663 Pag. 8.23	 82664 Pag. 8.23	 82670VM Pag. 8.23	 82880 Pag. 8.26	 82890 Pag. 8.27				

FUNCTIONAL FITTINGS



Functional Series

FLOW CONTROL VALVES



TECHNICAL CHARACTERISTICS



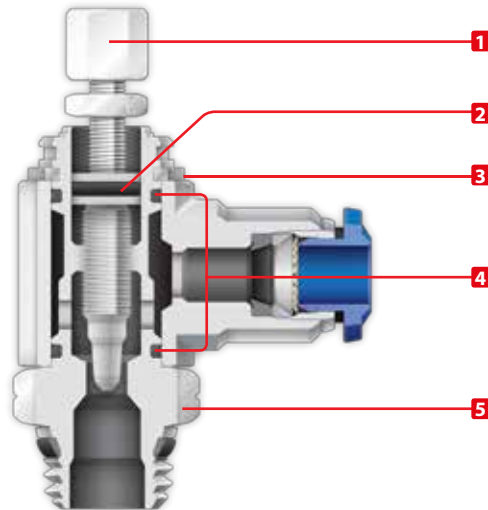
Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

ISO
14743:2004



Pressure Rating

Vacuum ~ 250 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures Rating

NBR
-4° F ~ 176° F
-20° C ~ 80° C



Media

• Compressed Air



Component Parts and Materials

- 1 Nickel Plated Brass Adjustment Screw
- 2 NBR 70 O-Ring
- 3 303 Stainless Steel Shaft Clip
- 4 NBR 70 O-Ring
- 5 Nickel Plated Brass Body

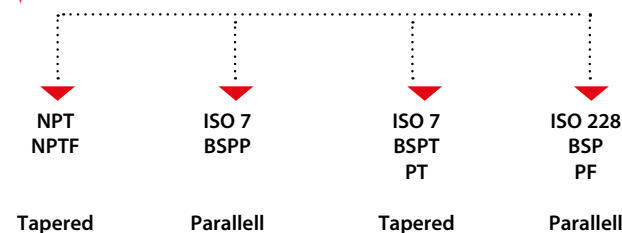


Tubing Compatibility

Nylon 11
Nylon 12
Polyethylene
Polyurethane



Threads & Advantages



Advantages

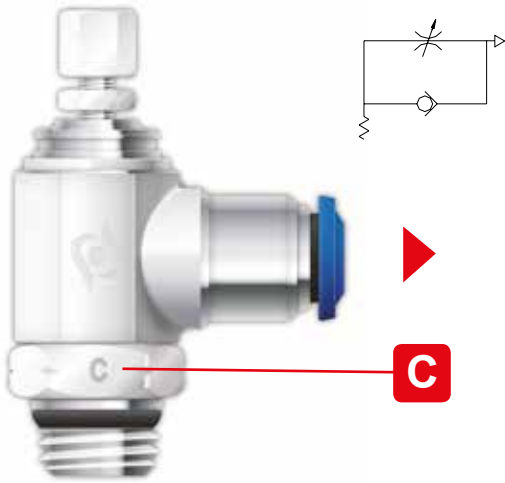
The **SWIFFFIT** Universal Thread has been designed to offer the following advantages to the end users:

- Reduced overall length
- Smaller hex dimensions compared to parallel threads
- Fits with various parallel and tapered threads

Our **SWIFFFIT** universal fittings also work on non-flat surfaces without compromising an air-tight seal.

C

CONTROLLED FLOW OUT

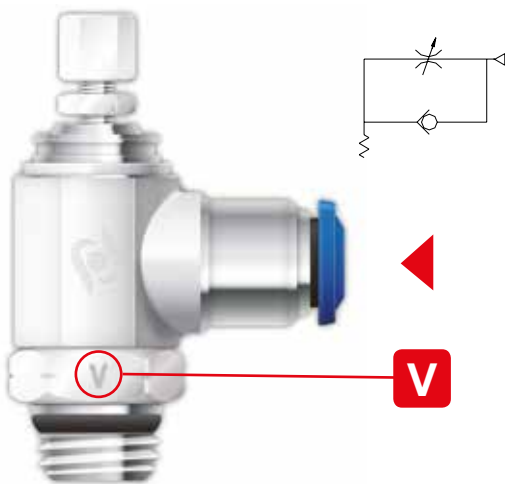


Part Number:

- 89953 - 89958
- 88953 - 88958
- 50901N - 50905N
- 85953 - 85958
- 55900 - 55905
- 88952 - 88957

V

CONTROLLED FLOW IN

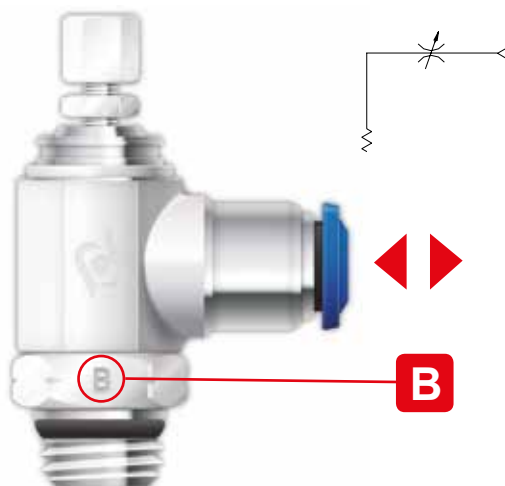


Part Number:

- 89963 - 89968
- 88963 - 88968
- 50910N - 50915N
- 85963 - 85968
- 55910 - 55915
- 88962 - 88967

B

BI-DIRECTIONAL FLOW



Part Number:

- 89973 - 89978
- 88973 - 88978
- 50920N - 50925N
- 85973 - 85978
- 55920 - 55925
- 88972 - 88977

KEY



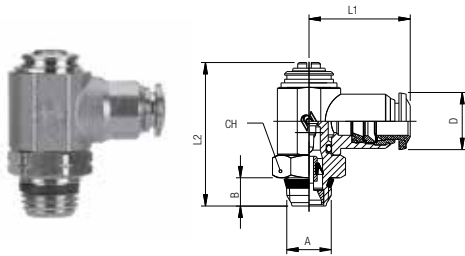
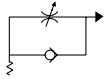
Screw Adjust



Knob Adjust

89953

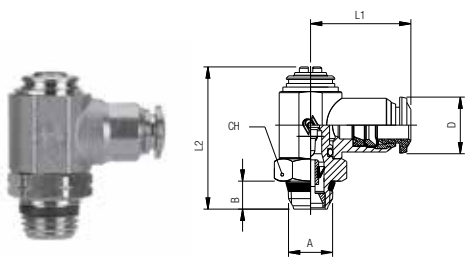
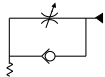
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2	CH	D
89953-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89953-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89953-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89953-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89953-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
89953-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
89953-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89953-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89953-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
89953-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

89963

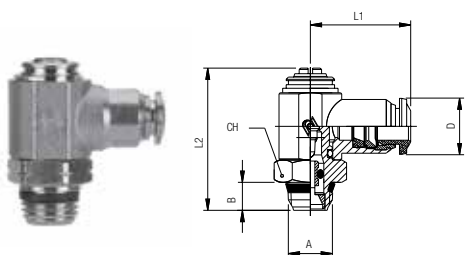
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2	CH	D
89963-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89963-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89963-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89963-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89963-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
89963-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
89963-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89963-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89963-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
89963-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

89973

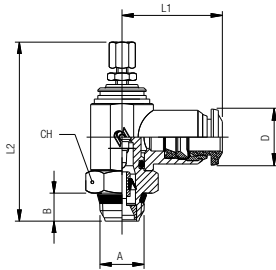
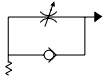
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2	CH	D
89973-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89973-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89973-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
89973-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
89973-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
89973-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
89973-06-04	3/8	1/4	.217 (5,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89973-06-06	3/8	3/8	.217 (5,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
89973-08-06	1/2	3/8	.217 (5,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
89973-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

89958

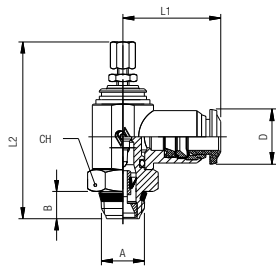
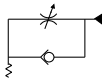
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
89958-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
89958-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89958-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
89958-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89958-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
89958-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
89958-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89958-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89958-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
89958-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.846 (21,5)

89968

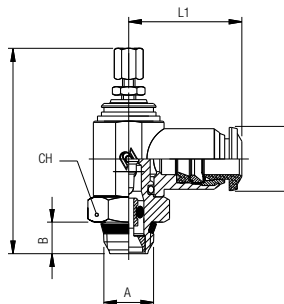
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
89968-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
89968-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89968-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
89968-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89968-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
89968-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
89968-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89968-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89968-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
89968-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.846 (21,5)

89978

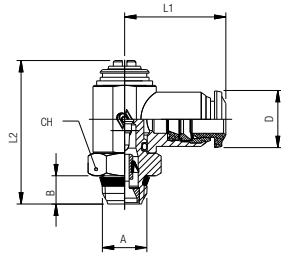
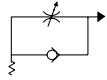
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
89978-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
89978-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89978-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
89978-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
89978-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
89978-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
89978-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89978-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
89978-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
89978-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.846 (21,5)

88953

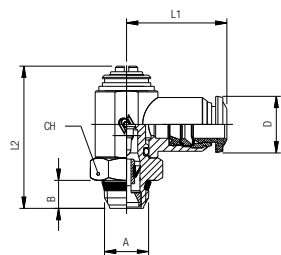
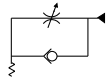
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2	CH	D
88953-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88953-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88953-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88953-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88953-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
88953-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
88953-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88953-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88953-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
88953-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

88963

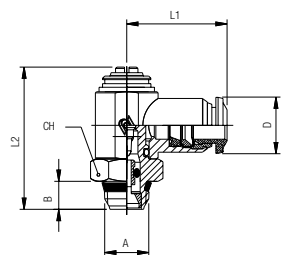
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2	CH	D
88963-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88963-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88963-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88963-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88963-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
88963-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
88963-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88963-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88963-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
88963-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

88973

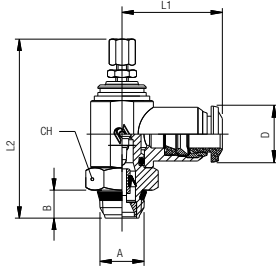
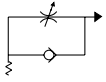
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2	CH	D
88973-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88973-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88973-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
88973-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
88973-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.492 (12,5)
88973-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.492 (12,5)
88973-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88973-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.689 (17,5)
88973-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.846 (21,5)
88973-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

88958

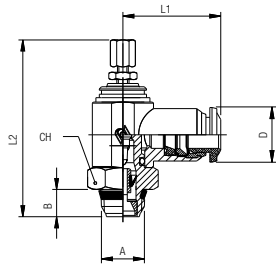
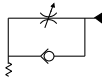
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
88958-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
88958-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88958-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
88958-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88958-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
88958-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
88958-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88958-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88958-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
88958-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.846 (21,5)

88968

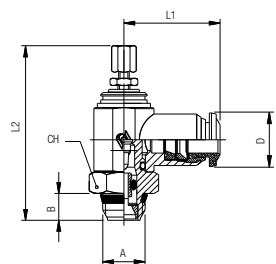
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
88968-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
88968-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88968-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
88968-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88968-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
88968-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
88968-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88968-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88968-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
88968-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.205 (56)	2.717 (69)	.945 (24)	.846 (21,5)

88978

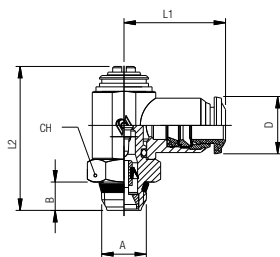
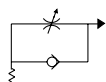
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2 min	L2 max	CH	D
88978-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
88978-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88978-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
88978-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
88978-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.492 (12,5)
88978-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.492 (12,5)
88978-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88978-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.689 (17,5)
88978-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.846 (21,5)
88978-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.846 (21,5)

50901N

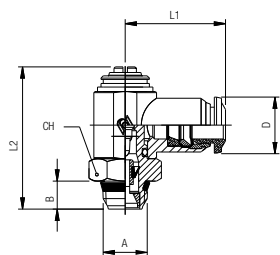
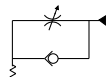
METRIC TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2	CH	D
50901N-3-M5	3	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50901N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50901N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.220 (31)	.551 (14)	.394 (10)
50901N-5-M5	5	M5	.157 (4)	.787 (20)	1.161 (29,5)	.315 (8)	.492 (12,5)
50901N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.492 (12,5)
50901N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
50901N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
50901N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
50901N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
50901N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.220 (31)	.551 (14)	.551 (14)
50901N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
50901N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	1.673 (42,5)	.787 (20)	.551 (14)
50901N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.437 (36,5)	.669 (17)	.669 (17)
50901N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
50901N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
50901N-12-1/2	12	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)
50901N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	1.850 (47)	.945 (24)	.846 (21,5)

50910N

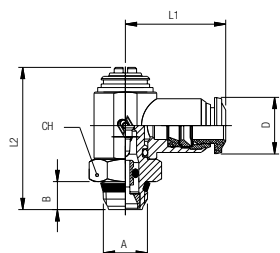
METRIC TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2	CH	D
50910N-3-M5	3	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50910N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50910N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.220 (31)	.551 (14)	.394 (10)
50910N-5-M5	5	M5	.157 (4)	.787 (20)	1.161 (29,5)	.315 (8)	.492 (12,5)
50910N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.492 (12,5)
50910N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
50910N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
50910N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
50910N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
50910N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.220 (31)	.551 (14)	.551 (14)
50910N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
50910N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	1.673 (42,5)	.787 (20)	.551 (14)
50910N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.437 (36,5)	.669 (17)	.669 (17)
50910N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
50910N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
50910N-12-1/2	12	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)
50910N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	1.850 (47)	.945 (24)	.846 (21,5)

50920N

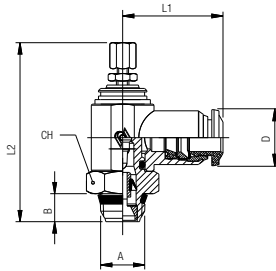
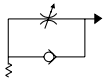
METRIC TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2	CH	D
50920N-3-M5	3	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50920N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.161 (29,5)	.315 (8)	.394 (10)
50920N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.220 (31)	.551 (14)	.394 (10)
50920N-5-M5	5	M5	.157 (4)	.787 (20)	1.161 (29,5)	.315 (8)	.492 (12,5)
50920N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.492 (12,5)
50920N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
50920N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
50920N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
50920N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
50920N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.220 (31)	.551 (14)	.551 (14)
50920N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
50920N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	1.673 (42,5)	.787 (20)	.551 (14)
50920N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.437 (36,5)	.669 (17)	.669 (17)
50920N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
50920N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
50920N-12-1/2	12	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)
50920N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	1.850 (47)	.945 (24)	.846 (21,5)

50905N

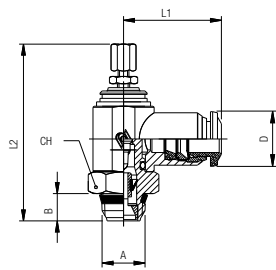
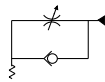
METRIC TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
50905N-3-M5	3	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50905N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50905N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
50905N-5-M5	5	M5	.157 (4)	.787 (20)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50905N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50905N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50905N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50905N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50905N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50905N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
50905N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
50905N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
50905N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.669 (17)
50905N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
50905N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
50905N-12-1/2	12	1/2	.354 (9)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)
50905N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

50915N

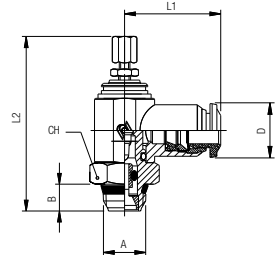
METRIC TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
50915N-3-M5	3	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50915N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50915N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
50915N-5-M5	5	M5	.157 (4)	.787 (20)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50915N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50915N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50915N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50915N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50915N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50915N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
50915N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
50915N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
50915N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.669 (17)
50915N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
50915N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
50915N-12-1/2	12	1/2	.354 (9)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)
50915N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

50925N

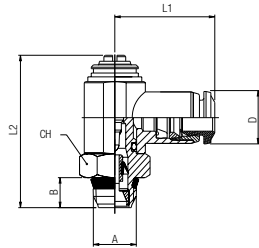
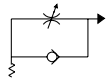
METRIC TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
50925N-3-M5	3	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50925N-4-M5	5/32 (4)	M5	.157 (4)	.748 (19)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
50925N-4-1/8	5/32 (4)	1/8	.217 (5,5)	.827 (21)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
50925N-5-M5	5	M5	.157 (4)	.787 (20)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50925N-5-1/8	5	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50925N-5-1/4	5	1/4	.276 (7)	.965 (24,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50925N-6-M5	6	M5	.157 (4)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
50925N-6-1/8	6	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
50925N-6-1/4	6	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
50925N-8-1/8	5/16 (8)	1/8	.217 (5,5)	.945 (24)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
50925N-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
50925N-8-3/8	5/16 (8)	3/8	.295 (7,5)	1.122 (28,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
50925N-10-1/4	10	1/4	.276 (7)	1.122 (28,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.669 (17)
50925N-10-3/8	10	3/8	.295 (7,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
50925N-12-3/8	12	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
50925N-12-1/2	12	1/2	.354 (9)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)
50925N-14-1/2	14	1/2	.354 (9)	1.398 (35,5)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

85953

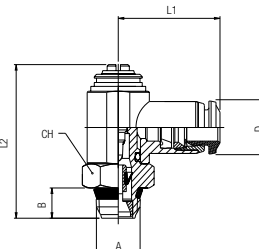
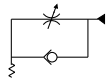
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2	CH	D
85953-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85953-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85953-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85953-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85953-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.472 (12)
85953-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.472 (12)
85953-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85953-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85953-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.787 (20)
85953-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.787 (20)

85963

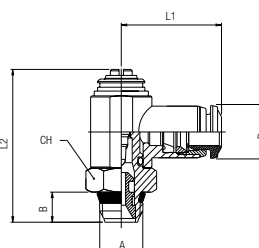
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2	CH	D
85963-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85963-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85963-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85963-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85963-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.472 (12)
85963-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.472 (12)
85963-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85963-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85963-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.787 (20)
85963-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.787 (20)

85973

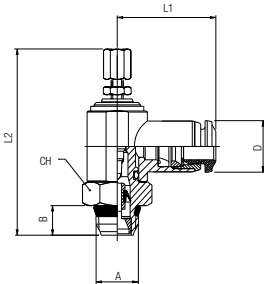
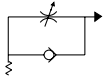
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2	CH	D
85973-02-32	1/8	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85973-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85973-53-32	5/32	10/32	.157 (4)	.748 (19)	.945 (21)	.315 (8)	.394 (10)
85973-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.181 (30,5)	.551 (14)	.394 (10)
85973-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.181 (30,5)	.551 (14)	.472 (12)
85973-04-04	1/4	1/4	.276 (7)	.984 (25)	1.417 (36)	.669 (17)	.472 (12)
85973-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85973-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	1.614 (41)	.787 (20)	.669 (17)
85973-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	1.614 (41)	.787 (20)	.787 (20)
85973-08-08	1/2	1/2	.354 (9)	1.378 (35)	1.850 (47)	.945 (24)	.787 (20)

85958

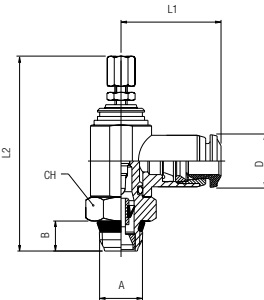
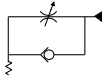
INCH TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
85958-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
85958-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85958-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
85958-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85958-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.472 (12)
85958-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.472 (12)
85958-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85958-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85958-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.787 (20)
85958-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.787 (20)

85968

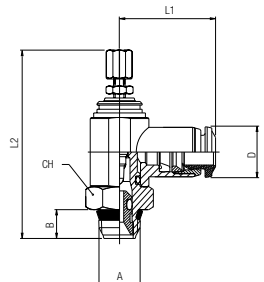
INCH TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
85968-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
85968-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85968-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
85968-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85968-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.472 (12)
85968-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.472 (12)
85968-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85968-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85968-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.787 (20)
85968-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.205 (56)	2.717 (69)	.945 (24)	.787 (20)

85978

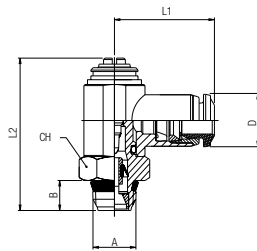
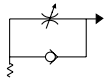
INCH TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
85978-02-32	1/8	10/32	.157 (4)	.748 (19)	1.299 (33)	1.476 (37,5)	.315 (8)	.394 (10)
85978-02-02	1/8	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85978-53-32	5/32	10/32	.157 (4)	.748 (19)	1.299 (33)	1.472 (37,5)	.315 (8)	.394 (10)
85978-53-02	5/32	1/8	.217 (5,5)	.827 (21)	1.614 (41)	1.830 (46,5)	.551 (14)	.394 (10)
85978-04-02	1/4	1/8	.217 (5,5)	.866 (22)	1.614 (41)	1.830 (46,5)	.551 (14)	.472 (12)
85978-04-04	1/4	1/4	.276 (7)	.984 (25)	1.850 (47)	2.086 (53)	.669 (17)	.472 (12)
85978-06-04	3/8	1/4	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85978-06-06	3/8	3/8	.295 (7,5)	1.181 (30,5)	2.205 (56)	2.480 (63)	.787 (20)	.669 (17)
85978-08-06	1/2	3/8	.295 (7,5)	1.280 (32,5)	2.205 (56)	2.480 (63)	.787 (20)	.787 (20)
85978-08-08	1/2	1/2	.354 (9)	1.378 (35)	2.402 (61)	2.717 (69)	.945 (24)	.787 (20)

55900

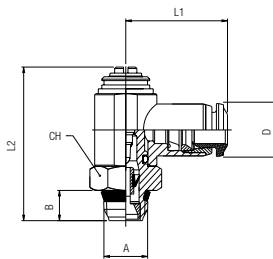
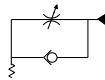
METRIC TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2	CH	D
55900-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.161 (29,5)	.315 (8)	.394 (10)
55900-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.394 (10)
55900-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
55900-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
55900-5-1/4	5	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
55900-6-M5	6	M5	.217 (5,5)	.827 (21)	1.161 (29,5)	.315 (8)	.492 (12,5)
55900-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.220 (31)	.551 (14)	.492 (12,5)
55900-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
55900-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.220 (31)	.551 (14)	.551 (14)
55900-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
55900-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	1.673 (42,5)	.787 (20)	.551 (14)
55900-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
55900-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
55900-12-1/2	12	1/2	.394 (10)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

55910

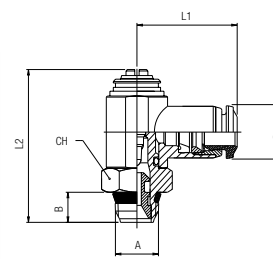
METRIC TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2	CH	D
55910-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.161 (29,5)	.315 (8)	.394 (10)
55910-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.394 (10)
55910-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
55910-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
55910-5-1/4	5	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
55910-6-M5	6	M5	.217 (5,5)	.827 (21)	1.161 (29,5)	.315 (8)	.492 (12,5)
55910-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.220 (31)	.551 (14)	.492 (12,5)
55910-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
55910-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.220 (31)	.551 (14)	.551 (14)
55910-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
55910-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	1.673 (42,5)	.787 (20)	.551 (14)
55910-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
55910-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
55910-12-1/2	12	1/2	.394 (10)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

55920

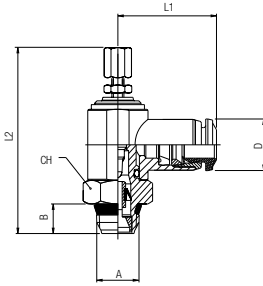
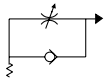
METRIC TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2	CH	D
55920-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.161 (29,5)	.315 (8)	.394 (10)
55920-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.220 (31)	.551 (14)	.394 (10)
55920-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.161 (29,5)	.315 (8)	.492 (12,5)
55920-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.220 (31)	.551 (14)	.492 (12,5)
55920-5-1/4	5	1/4	.276 (7)	.984 (25)	1.437 (36,5)	.669 (17)	.492 (12,5)
55920-6-M5	6	M5	.217 (5,5)	.827 (21)	1.161 (29,5)	.315 (8)	.492 (12,5)
55920-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.220 (31)	.551 (14)	.492 (12,5)
55920-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.437 (36,5)	.669 (17)	.492 (12,5)
55920-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.220 (31)	.551 (14)	.551 (14)
55920-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.437 (36,5)	.669 (17)	.551 (14)
55920-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	1.673 (42,5)	.787 (20)	.551 (14)
55920-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	1.673 (42,5)	.787 (20)	.669 (17)
55920-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	1.673 (42,5)	.787 (20)	.846 (21,5)
55920-12-1/2	12	1/2	.394 (10)	1.378 (35)	1.850 (47)	.945 (24)	.846 (21,5)

55905

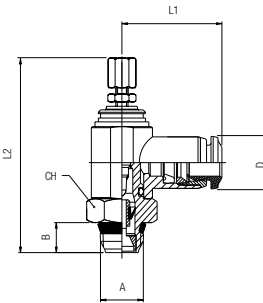
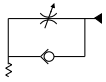
METRIC TUBE FLOW CONTROL (OUT)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
55905-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
55905-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
55905-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55905-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55905-5-1/4	5	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55905-6-M5	6	M5	.217 (5,5)	.827 (21)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55905-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55905-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55905-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
55905-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
55905-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
55905-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
55905-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
55905-12-1/2	12	1/2	.394 (10)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

55915

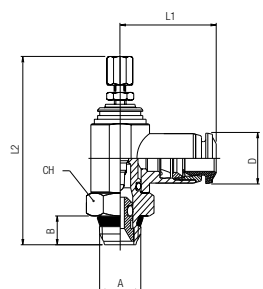
METRIC TUBE FLOW CONTROL (IN)



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
55915-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
55915-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
55915-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55915-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55915-5-1/4	5	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55915-6-M5	6	M5	.217 (5,5)	.827 (21)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55915-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55915-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55915-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
55915-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
55915-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
55915-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
55915-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
55915-12-1/2	12	1/2	.394 (10)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

55925

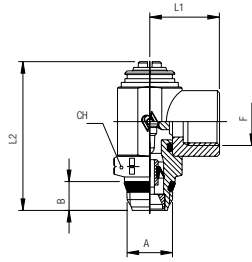
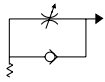
METRIC TUBE NEEDLE VALVE



Part No.	Tube	A	B	L1	L2 min	L2max	CH	D
55925-4-M5	5/32 (4)	M5	.217 (5,5)	.768 (19,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.394 (10)
55925-4-1/8	5/32 (4)	1/8	.217 (5,5)	.846 (21,5)	1.732 (44)	1.929 (49)	.551 (14)	.394 (10)
55925-5-M5	5	M5	.217 (5,5)	.807 (20,5)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55925-5-1/8	5	1/8	.217 (5,5)	.886 (22,5)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55925-5-1/4	5	1/4	.276 (7)	.984 (25)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55925-6-M5	6	M5	.217 (5,5)	.827 (21)	1.516 (38,5)	1.673 (42,5)	.315 (8)	.492 (12,5)
55925-6-1/8	6	1/8	.217 (5,5)	.906 (23)	1.732 (44)	1.929 (49)	.551 (14)	.492 (12,5)
55925-6-1/4	6	1/4	.276 (7)	1.004 (25,5)	1.909 (48,5)	2.165 (55)	.669 (17)	.492 (12,5)
55925-8-1/8	5/16 (8)	1/8	.217 (5,5)	.925 (23,5)	1.732 (44)	1.929 (49)	.551 (14)	.551 (14)
55925-8-1/4	5/16 (8)	1/4	.276 (7)	1.024 (26)	1.909 (48,5)	2.165 (55)	.669 (17)	.551 (14)
55925-8-3/8	5/16 (8)	3/8	.335 (8,5)	1.083 (27,5)	2.205 (56)	2.559 (65)	.787 (20)	.551 (14)
55925-10-3/8	10	3/8	.335 (8,5)	1.201 (30,5)	2.205 (56)	2.559 (65)	.787 (20)	.669 (17)
55925-12-3/8	12	3/8	.335 (8,5)	1.280 (32,5)	2.205 (56)	2.559 (65)	.787 (20)	.846 (21,5)
55925-12-1/2	12	1/2	.394 (10)	1.378 (35)	2.441 (62)	2.717 (69)	.945 (24)	.846 (21,5)

88952

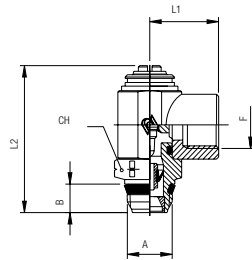
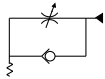
FEMALE NPTF FLOW CONTROL (OUT)



Part No.	F (NPTF)	A	B	L1	L2	CH
88952-32-32	10/32	10/32	.157 (4)	.394 (10)	.945 (24)	.315 (8)
88952-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.181 (30,5)	.551 (14)
88952-04-04	1/4	1/4	.276 (7)	.866 (22)	1.417 (36)	.669 (17)
88952-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	1.614 (26,5)	.787 (20)

88962

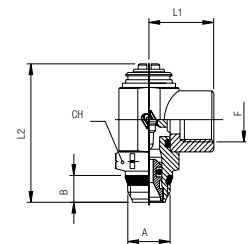
FEMALE NPTF FLOW CONTROL (IN)



Part No.	F (NPTF)	A	B	L1	L2	CH
88962-32-32	10/32	10/32	.157 (4)	.394 (10)	.945 (24)	.315 (8)
88962-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.181 (30,5)	.551 (14)
88962-04-04	1/4	1/4	.276 (7)	.866 (22)	1.417 (36)	.669 (17)
88962-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	1.614 (26,5)	.787 (20)

88972

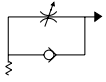
FEMALE NPTF NEEDLE VALVE



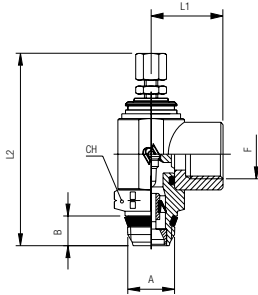
Part No.	F (NPTF)	A	B	L1	L2	CH
88972-32-32	10/32	10/32	.157 (4)	.394 (10)	.945 (24)	.315 (8)
88972-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.181 (30,5)	.551 (14)
88972-04-04	1/4	1/4	.276 (7)	.866 (22)	1.417 (36)	.669 (17)
88972-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	1.614 (26,5)	.787 (20)

88957

FEMALE NPTF FLOW CONTROL (OUT)

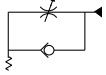


Part No.	F (NPTF)	A	B	L1	L2 min	L2max	CH
88957-32-32	10/32	10/32	.157 (4)	.394 (10)	1.299 (33)	1.477 (37,5)	.315 (8)
88957-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.614 (41)	1.830 (46,5)	.551 (14)
88957-04-04	1/4	1/4	.276 (7)	.866 (22)	1.850 (47)	2.086 (53)	.669 (17)
88957-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	2.480 (63)	2.480 (63)	.787 (20)

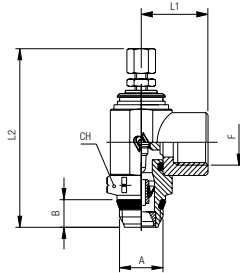


88967

FEMALE NPTF FLOW CONTROL (IN)



Part No.	F (NPTF)	A	B	L1	L2 min	L2max	CH
88967-32-32	10/32	10/32	.157 (4)	.394 (10)	1.299 (33)	1.477 (37,5)	.315 (8)
88967-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.614 (41)	1.830 (46,5)	.551 (14)
88967-04-04	1/4	1/4	.276 (7)	.866 (22)	1.850 (47)	2.086 (53)	.669 (17)
88967-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	2.205 (56)	2.480 (63)	.787 (20)

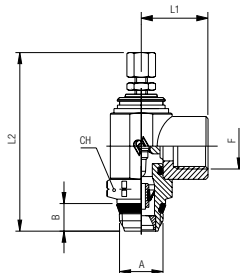


88977

FEMALE NPTF NEEDLE VALVE

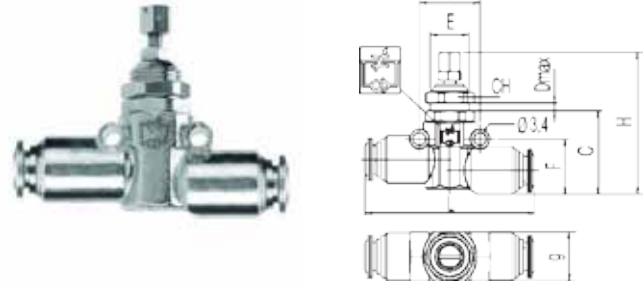


Part No.	F (NPTF)	A	B	L1	L2 min	L2max	CH
88977-32-32	10/32	10/32	.157 (4)	.394 (10)	1.299 (33)	1.477 (37,5)	.315 (8)
88977-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	1.614 (41)	1.830 (46,5)	.551 (14)
88977-04-04	1/4	1/4	.276 (7)	.866 (22)	1.850 (47)	2.086 (53)	.669 (17)
88977-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	2.480 (63)	2.480 (63)	.787 (20)



82815

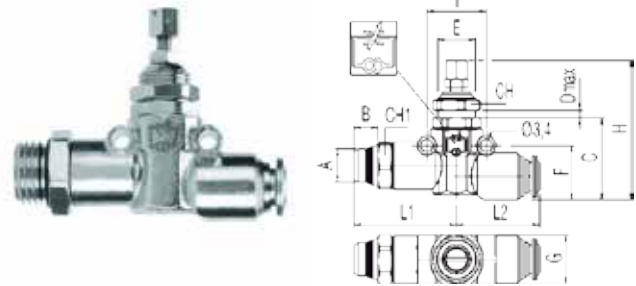
INLINE FLOW CONTROL



Part No.	Tube	C	D	E	F	G	H min	H max	I	L	CH
82815-04	1/4	.928 (23,5)	.157 (4)	M11X1	.618 (15,5)	.551 (14)	1.578 (40,5)	1.827 (46,5)	.677 (17)	1.890 (48)	.512 (13)
82815-06	3/8	.996 (25,5)	.177 (4,5)	M16X1	.807 (20,5)	.807 (20,5)	1.929 (49)	2.161 (55)	.787 (20)	2.272 (57,5)	.709 (18)

82820

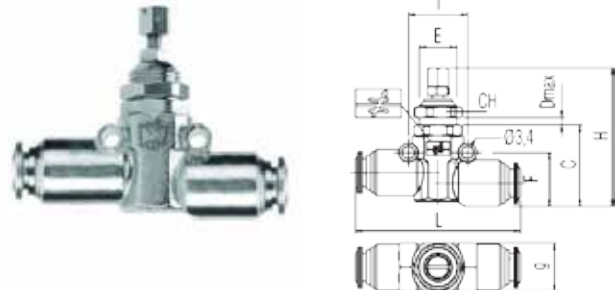
INLINE FLOW CONTROL MALE X TUBE



Part No.	A	Tube	B	C	D	E	F	G	H min	H max	I	L1	L2	CH	CH1
82820-04-04	1/4	1/4	.276 (7)	.928 (23,5)	.157 (4)	M11X1	.618 (15,5)	.551 (14)	1.578 (40,5)	1.827 (46,5)	.677 (17)	1.169 (29,5)	.945 (24)	.512 (13)	.512 (13)
82820-06-04	1/4	3/8	.276 (7)	.996 (25,5)	.177 (4,5)	M16X1	.807 (20,5)	.807 (20,5)	1.929 (49)	2.161 (55)	.787 (20)	1.378 (35)	1.134 (29)	.709 (18)	.630 (13)
82820-06-06	3/8	3/8	.295 (7,5)	.996 (25,5)	.177 (4,5)	M16X1	.807 (20,5)	.807 (20,5)	1.929 (49)	2.161 (55)	.787 (20)	1.299 (33)	1.134 (29)	.709 (18)	.669 (17)

82830

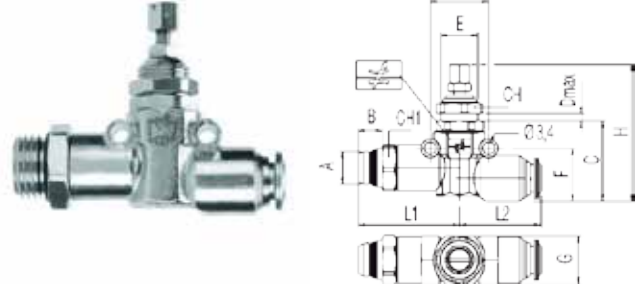
INLINE TUBE NEEDLE VALVE



Part No.	Tube	C	D	E	F	G	H min	H max	I	L	CH
82830-04	1/4	.928 (23,5)	.157 (4)	M11X1	.618 (15,5)	.551 (14)	1.578 (40,5)	1.827 (46,5)	.677 (17)	1.890 (48)	.512 (13)
82830-06	3/8	.996 (25,5)	.177 (4,5)	M16X1	.807 (20,5)	.807 (20,5)	1.929 (49)	2.161 (55)	.787 (20)	2.272 (57,5)	.709 (18)

82835

INLINE NEEDLE VALVE MALE X TUBE



Part No.	A	Tube	B	C	D	E	F	G	H min	H max	I	L1	L2	CH	CH1
82835-04-04	1/4	1/4	.276 (7)	.928 (23,5)	.157 (4)	M11X1	.618 (15,5)	.551 (14)	1.578 (40,5)	1.827 (46,5)	.677 (17)	1.169 (29,5)	.945 (24)	.512 (13)	.512 (13)
82835-06-06	3/8	3/8	.295 (7,5)	.996 (25,5)	.177 (4,5)	M16X1	.807 (20,5)	.807 (20,5)	1.929 (49)	2.161 (55)	.787 (20)	1.299 (33)	1.134 (29)	.709 (18)	.669 (17)

FLOW REGULATORS



TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE



Pressure Rating

Vacuum ~ 250 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa

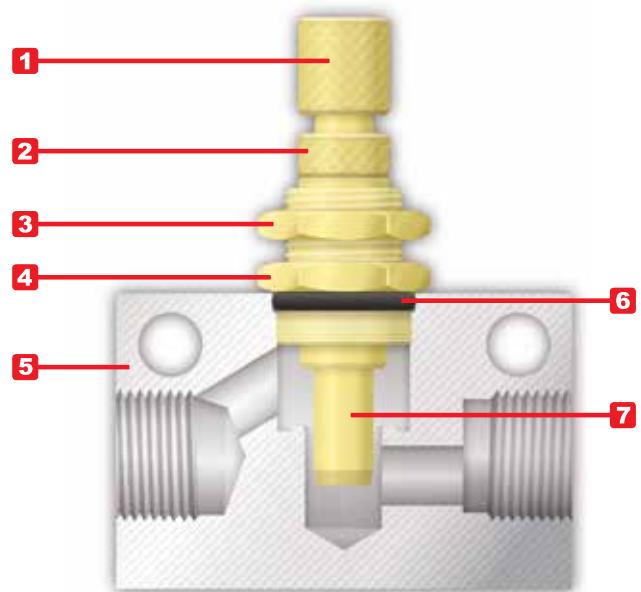
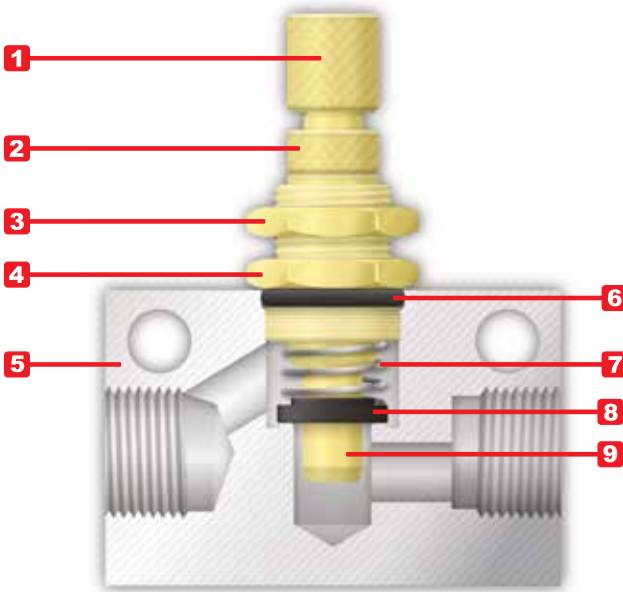


Temperature Rating:

NBR
-4° F ~ 176° F
-20° C ~ 80° C

UNI-DIRECTIONAL

BI-DIRECTIONAL



Component Parts and Materials

- 1 Brass Adjusting Knob
- 2 Brass Nut
- 3 Brass Locking Nut
- 4 Brass Nipple
- 5 Anodized Aluminium Body
- 6 NBR O-Ring
- 7 Steel Spring
- 8 Seal floating washer
- 9 Brass Adjusting Needle



Component Parts and Materials

- 1 Brass Adjusting Knob
- 2 Brass Nut
- 3 Brass Locking Nut
- 4 Brass Nipple
- 5 Anodized Aluminium Body
- 6 NBR O-Ring
- 7 Brass Adjusting Needle

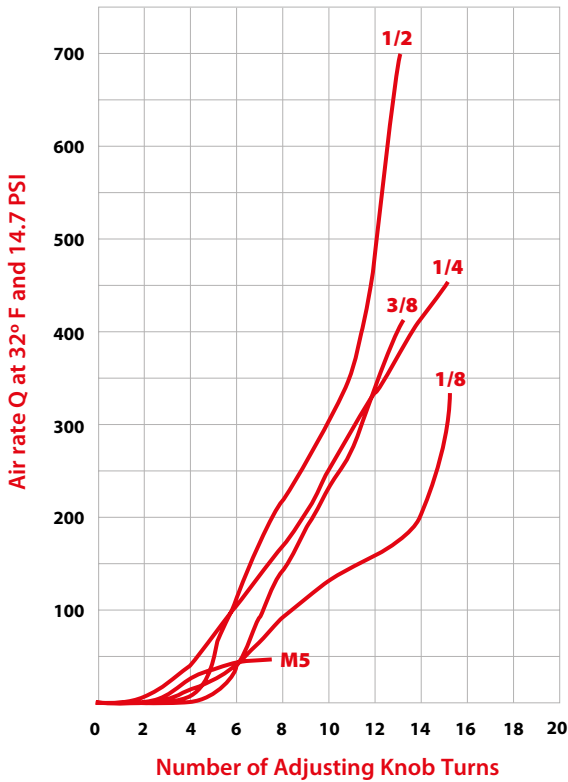


Flow Characteristics of Inline Flow Control Valves

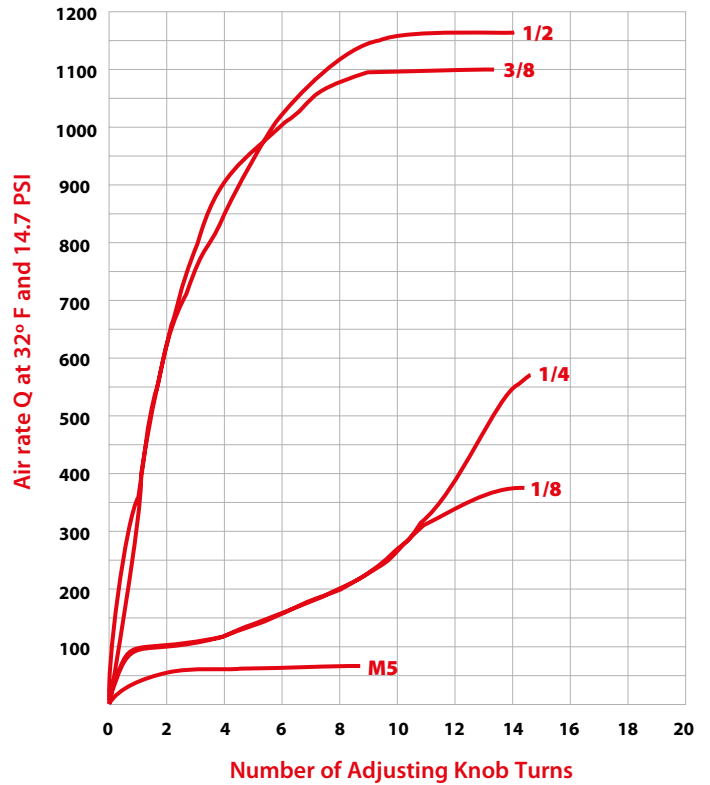
Inlet Pressure
101 PSI

Outlet Pressure: Atmospheric Pressure
14.7 PSI

UNI-DIRECTIONAL

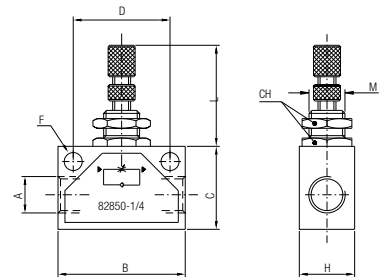


BI-DIRECTIONAL



82850

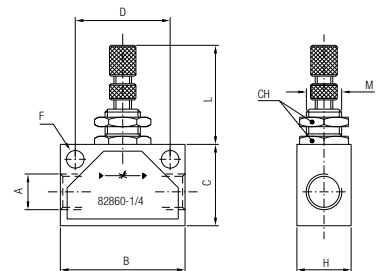
UNI-DIRECTIONAL INLINE VALVE



Part No.	A (NPTF)	B	C	H	D	F	L min	L max	M	CH
82850-02	1/8	1.378 (35)	.866 (22)	.709 (18)	.984 (25)	.177 (4,5)	1.023 (26)	1.417 (36)	M12x0.75	.590 (15)
82850-04	1/4	1.811 (46)	1.181 (30)	.787 (20)	1.378 (35)	.256 (6,5)	1.023 (26)	1.417 (36)	M12x0.75	.590 (15)
82850-06	3/8	1.968 (50)	1.181 (30)	.984 (25)	1.378 (35)	.256 (6,5)	1.259 (32)	1.653 (42)	M18x1.5	.866 (22)
82850-08	1/2	2.362 (60)	1.575 (40)	.984 (25)	1.732 (44)	.256 (6,5)	1.259 (32)	1.734 (44)	M18x1.5	.866 (22)

82860

BI-DIRECTIONAL INLINE NEEDLE VALVE



Part No.	A (NPTF)	B	C	H	D	F	L min	L max	M	CH
82860-02	1/8	1.378 (35)	.866 (22)	.709 (18)	.984 (25)	.177 (4,5)	1.023 (26)	1.417 (36)	M12x0.75	.590 (15)
82860-04	1/4	1.811 (46)	1.181 (30)	.787 (20)	1.378 (35)	.256 (6,5)	1.023 (26)	1.417 (36)	M12x0.75	.590 (15)
82860-06	3/8	1.968 (50)	1.181 (30)	.984 (25)	1.378 (35)	.256 (6,5)	1.259 (32)	1.653 (42)	M18x1.5	.866 (22)
82860-08	1/2	2.362 (60)	1.575 (40)	.984 (25)	1.732 (44)	.256 (6,5)	1.259 (32)	1.734 (44)	M18x1.5	.866 (22)

QUICK EXHAUST VALVES



TECHNICAL CHARACTERISTICS



Reference Standard

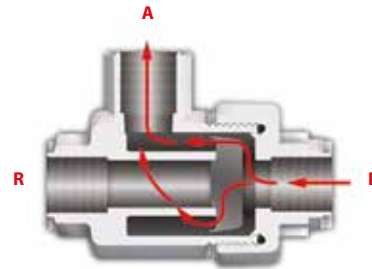
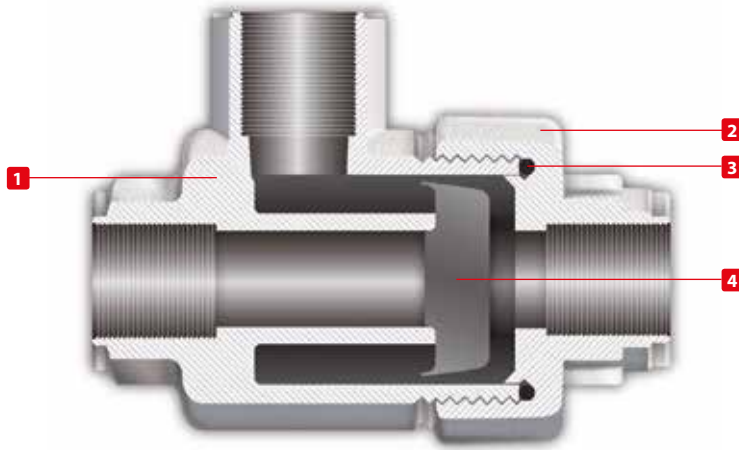
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

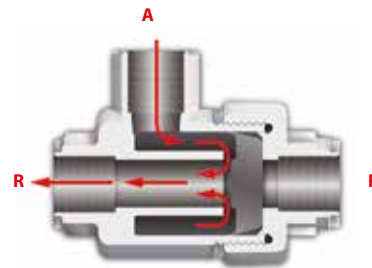
PED
2014/68/UE

SILICON
FREE

According to the UNI standards ref. UNI- ISO 5598, this valve is considered: "Valve which immediately opens its outlet to exhaust, whenever the pressure of the air decreases at the inlet."



System pressure is applied to the inlet port (P), flow is directed to cylinder port (A).



When system pressure (P) is dropped, exhaust air in the cylinder (A) is discharged directly from the exhaust port (R).



Component Parts and Materials

- 1 Nickel Plated Brass Body
- 2 Nylon Cap Seal
- 3 Nickel Plated Brass Cap
- 4 NBR Piston



Pressure Rating

4.35 PSI ~ 145 PSI
0.3 bar ~ 10 bar
0.003 MPa ~ 1.0 MPa



Threads

NPTF



Temperature Rating

-4° F ~ 176° F
-20° C ~ 80° C



Media

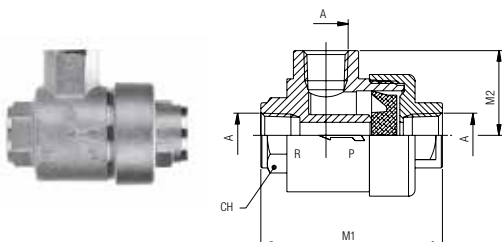
- Compressed air

WARNING!

This valve exhausts to atmosphere.
DO NOT use toxic, corrosive or flammable media.

82650

QUICK EXHAUST VALVE

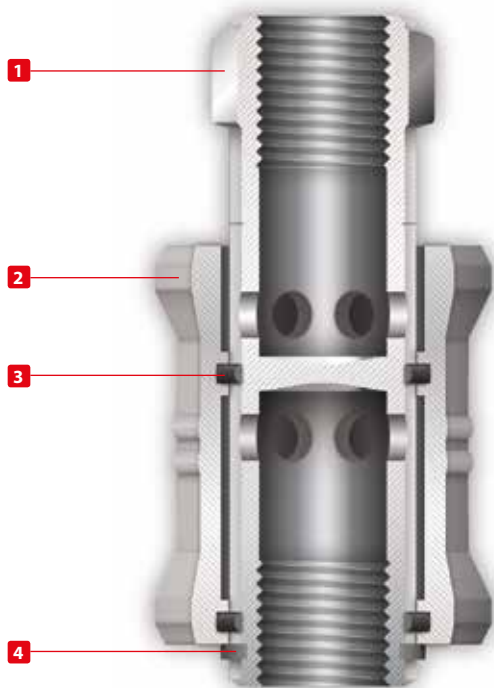


Part No.	A NPTF	M1	M2	CH
82650-02	1/8	1.653 (42)	.768 (19.5)	.591 (15)
82650-04	1/4	2.125 (54)	.984 (25)	.748 (19)
82650-06	3/8	2.381 (60,5)	1.043 (26,5)	.866 (22)
82650-08	1/2	2.834 (72)	1.260 (32)	1.024 (26)
82650-12	3/4	3.664 (88)	1.457 (37)	1.260 (32)
82650-16	1	4.291 (109)	1.890 (48)	1.811 (46)

SLIDE VALVES



TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH ✓

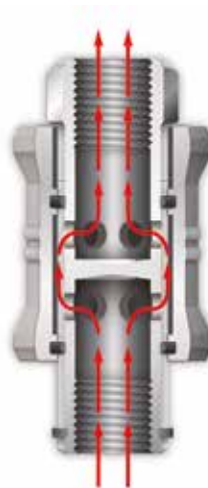
2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE

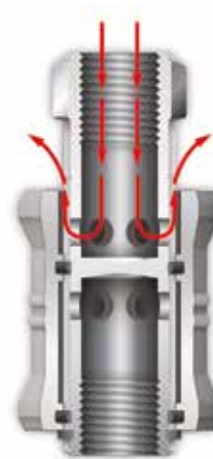
This Slide Valve can be considered a reversing ON-OFF valve. When in the closed position, it allows the used air to exit to the atmosphere.

ON



In the On position, the air coming from the air source passes through the holes on the stem of the valve.

OFF



In the OFF position, the air in the circuit passes through the holes on the stem and automatically exits to the atmosphere.



Pressure Rating

4.35 PSI ~ 145 PSI
0.3 bar ~ 10 bar
0.003 MPa ~ 1.0 MPa



Component Parts and Materials

- 1 Aluminium Sleeve
- 2 Nickel Plated Brass Stem
- 3 NBR O-Ring
- 4 Steel Shaft Clip



Temperature Rating

-4° F ~ 176° F
-20° C ~ 80° C



Media

- Compressed air

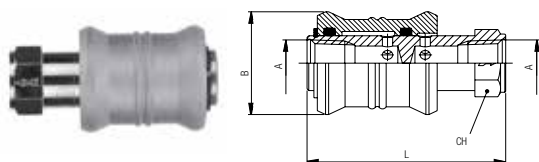


Threads

NPTF

82660

SLIDE VALVE



Part No.	A NPTF	M1	M2	CH
82660-02	1/8	.984 (25)	1.890 (48)	.551 (14)
82660-04	1/4	1.181 (30)	2.283 (58)	.669 (17)
82660-06	3/8	1.378 (35)	2.756 (70)	.866 (22)
82660-08	1/2	1.575 (40)	3.150 (80)	1.024 (26)

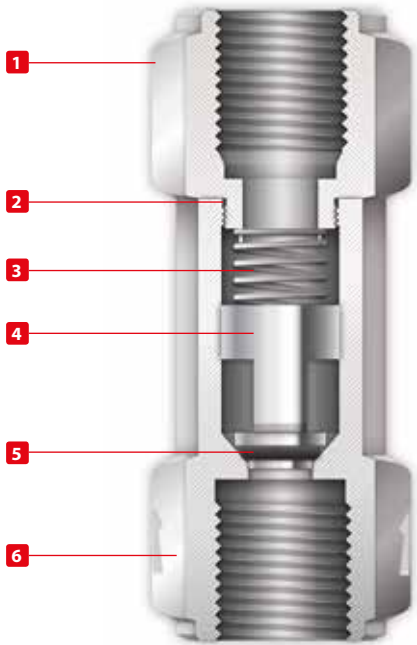
UNIDIRECTIONAL VALVES OR NON RETURN VALVES

TECHNICAL CHARACTERISTICS



Reference Standard

- 1907/2006
REACH ✓
- 2011/65/CE
RoHS ✓
- PED
2014/68/UE
- SILICON
FREE



Check Valves allow air to flow in only one direction. They do not allow air flow the opposite direction.

They operate directly with the air that passes through. Check Valves are normally used as safety device, permitting air pressure in a part of the circuit. The internal spring keeps the valve closed.



Pressure Rating

29 PSI ~ 116 PSI
2 bar ~ 8 bar
0.2 MPa ~ 0.8 MPa

Approximate Opening Pressure

29 PSI
2 bar
0.02 MPa



Component Parts and Materials

- 1 Nickel Plated Brass Body
- 2 NBR O-Ring
- 3 Steel Spring
- 4 Nickel Plated Brass Shutter
- 5 NBR O-Ring
- 6 Nickel Plated Brass Body



Temperatures Rating

NBR	FKM - 82662, 82663
-4° F ~ 176° F	5° F ~ 392° F
-20° C ~ 80° C	-15° C ~ 200° C



Fluids

- Compressed air



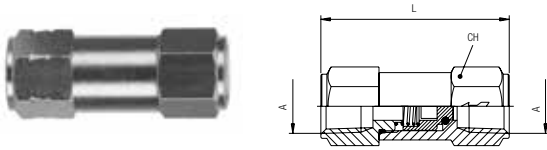
Threads

NPTF

82662

FEMALE X FEMALE

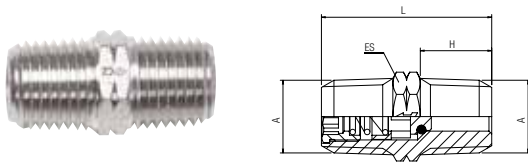
Part No.	A NPTF	L	Es
82662-02	1/8	1.437 (36,5)	.512 (13)
82662-04	1/4	1.850 (47)	.669 (17)



82663

MALE X MALE

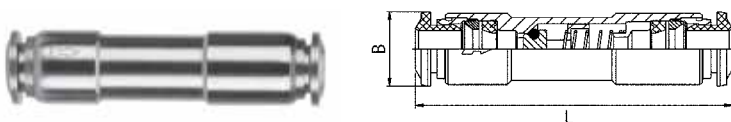
Part No.	A NPTF	L	Es	H
82663-04	1/4	1.220 (31)	.551 (14)	.512 (13)
82663-06	3/8	1.220 (31)	.748 (19)	.512 (13)



82664

INCH TUBE X TUBE

Part No.	Tube	L	B
82664-04	1/4	2.047 (52)	.512 (13)
82664-06	3/8	2.244 (57)	.669 (17)



82670VM

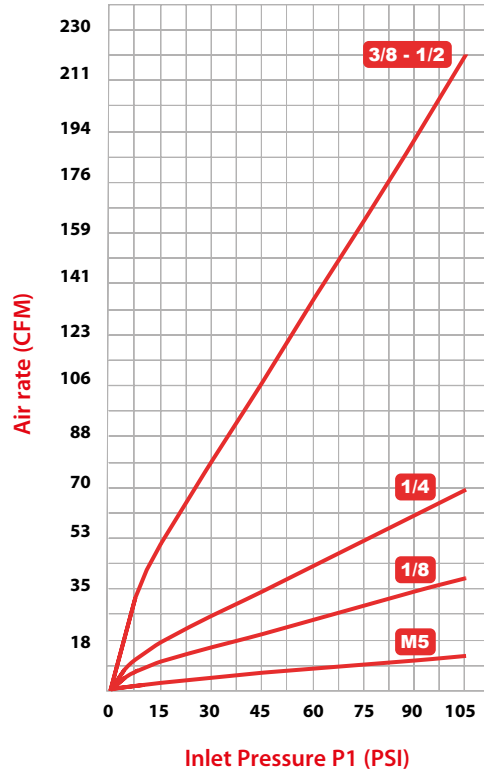
INLINE FILTER

Part No.	Tube	L	CH1	CH2
82670VM-04	1/4	2.579 (65,5)	.748 (19)	.512 (13)
82670VM-06	3/8	2.834 (72)	.748 (19)	.669 (17)

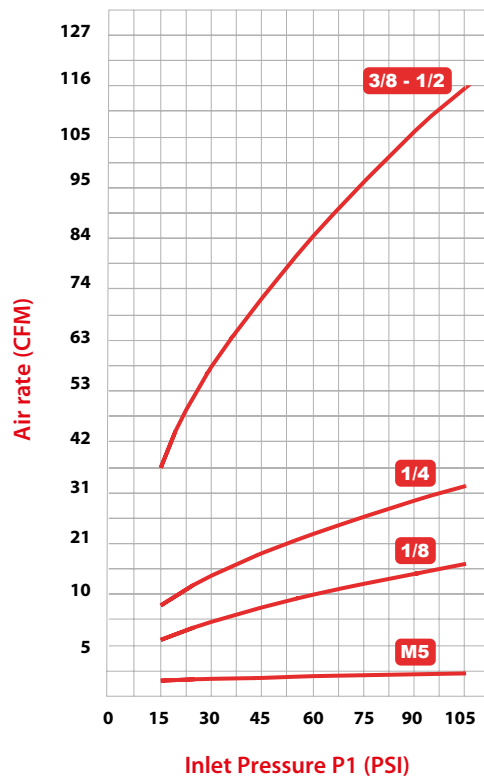




Flow Rates of Exhaust



Flow Rates of Exhaust with a drop of 14.5 PSI



BLOCK VALVES



TECHNICAL CHARACTERISTICS

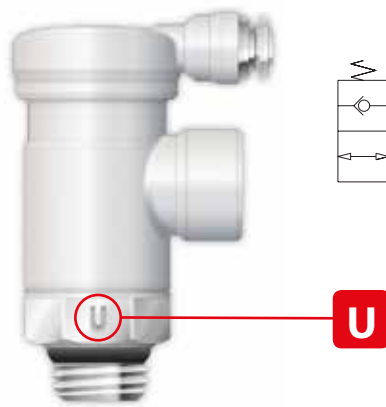
Aignep Block Valves are pneumatic devices used to control the movement of the cylinder. They install directly on the inlet and outlet ports of the cylinder and lock the piston in case of a drop in air pressure. Block Valves are used as safety devices in case of emergency stops, the bursting of an air tube, or anything that would stop the flow of air to the cylinder. Block Valves also enable the cylinder to be stopped in intermediate positions whenever the application would require such a solution.



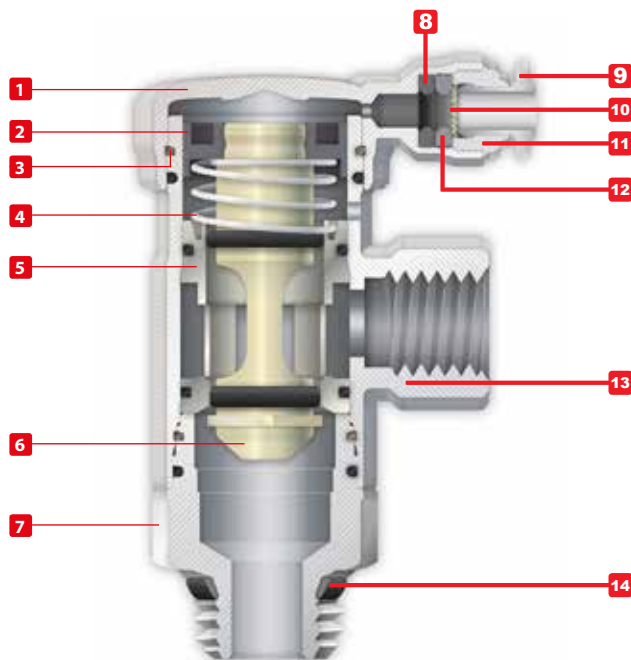
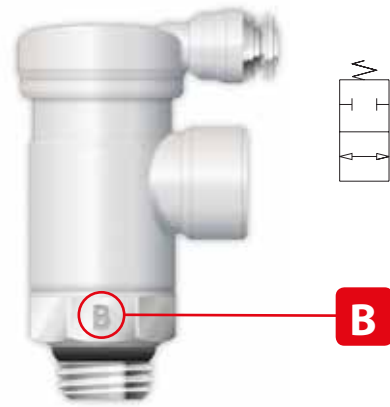
Advantages

- 1 Aignep Block Valves are available in Uni-Directional and Bi-Directional versions.
- 2 The bore of these valves do not reduce in size so airflow is never restricted.
- 3 These valves are compact, and the threaded connection and tube connection can rotate for maximum versatility.
- 4 The threaded port can also receive a flow control valve to adjust the speed of the cylinder.

**UNI-DIRECTIONAL
82880**



**BI-DIRECTIONAL
82890**



Reference Standard

1907/2006 REACH ✓	2011/65/CE RoHS ✓	PED 2014/68/UE	SILICON FREE
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Component Parts and Materials

- 1 Nickel Plated Brass Cover Cap
- 2 Nylon Lip Seal
- 3 Brass Retaining Ring
- 4 Steel Spring
- 5 Brass Shutter Support
- 6 Brass Shutter
- 7 Nickel Plated Brass Base
- 8 NBR Lip Seal
- 9 Nickel Plated Collet
- 10 303 Stainless Steel Gripper
- 11 Nickel Plated Brass Sleeve
- 12 Technopolymer Safety Ring
- 13 Nickel Plated Brass Body
- 14 NBR Thread Seal



Size

1/8"
1/4"



Orifice

1/8"	1/4"
Ø 5.5 mm	Ø 8 mm



Flow rate (87 PSI)

1/8"	1/4"
26.5 CFM	50.1 CFM



Pressure Rating

4.35 PSI ~ 145 PSI
0.3 bar ~ 10 bar
0.03 MPa ~ 1.0 MPa



Temperature Rating

-4° F ~ 176° F
-20° C ~ 80° C

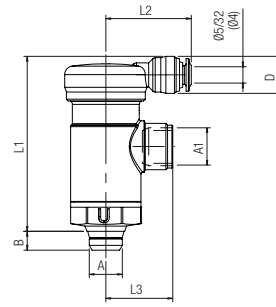


Media

• Compressed Air
(lubricated and non lubricated)

82880

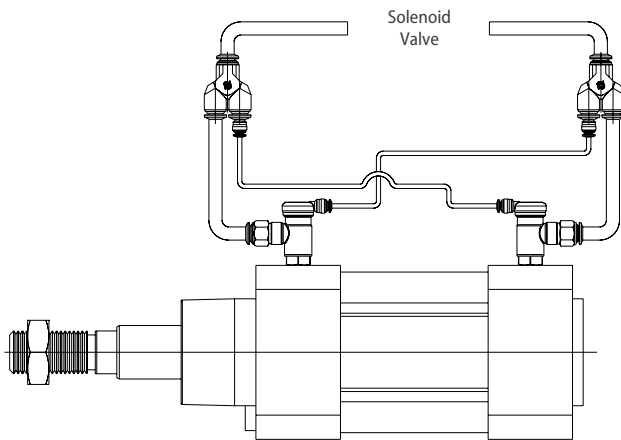
UNI-DIRECTIONAL CHECK VALVE



Part No.	A	A1 NPTF	B	L1	L2	L3	CH	D
82880-02	1/8	1/8	.217 (5,5)	1.969 (50)	.984 (25)	.728 (18,5)	.709 (18)	.433 (11)
82880-04	1/4	1/4	.276 (7)	1.988 (50,5)	.984 (25)	.807 (20,5)	.709 (18)	.433 (11)

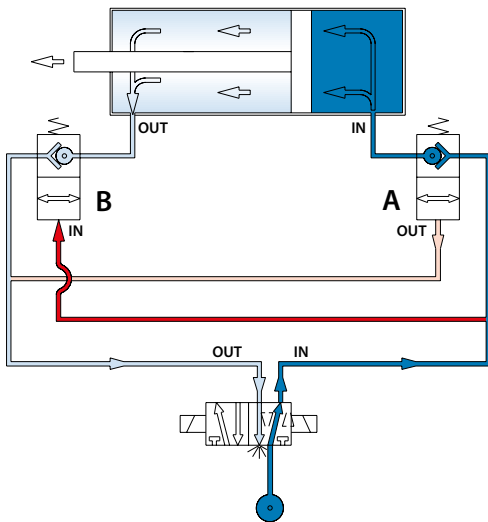


Installation



Pneumatic circuit - Cylinder in Action

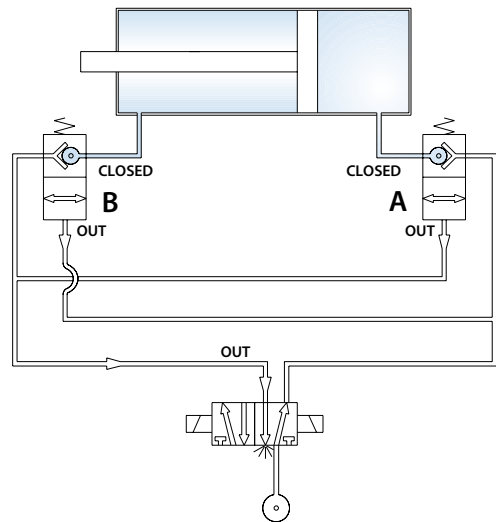
The PO check circuit is connected to the cylinder circuit. When P1 pressure is applied to the directional control valve, pressure is applied simultaneously to PO check valve A and a pilot signal to PO check valve B. The cylinder will extend. When the directional control valve shifts, pressure is applied to PO check valve B with a pilot signal sent to PO check valve A. The cylinder will retract.



■ Pilot
■ Feeding

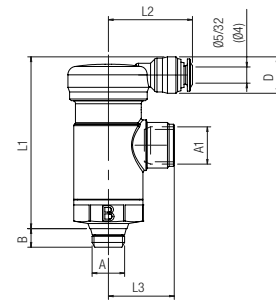
Pneumatic circuit - Cylinder at Rest

Remove P1 pressure from the directional control valve to lock the cylinder in place even under load conditions.



82890

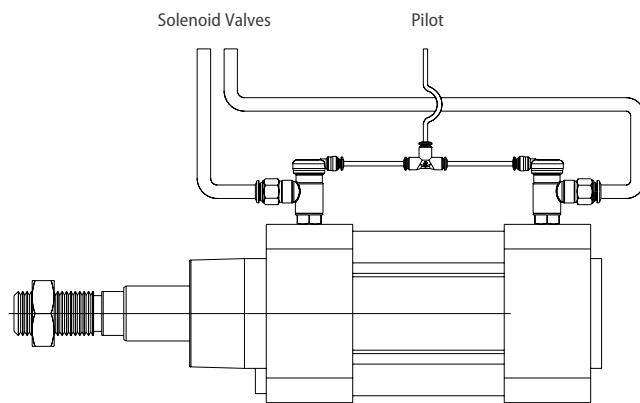
BI-DIRECTIONAL BLOCK VALVE



Part No.	A	A1 NPTF	B	L1	L2	L3	CH	D
82890-02	1/8	1/8	.217 (5,5)	1.969 (50)	.984 (25)	.728 (18,5)	.709 (18)	.433 (11)
82890-04	1/4	1/4	.276 (7)	1.988 (50,5)	.984 (25)	.807 (20,5)	.709 (18)	.433 (11)

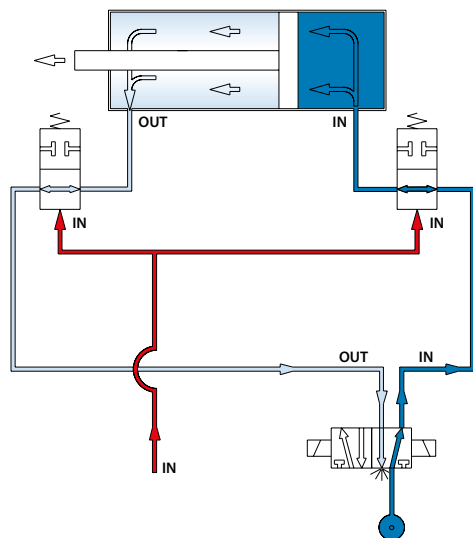


Installation



Pneumatic circuit - Cylinder in Action

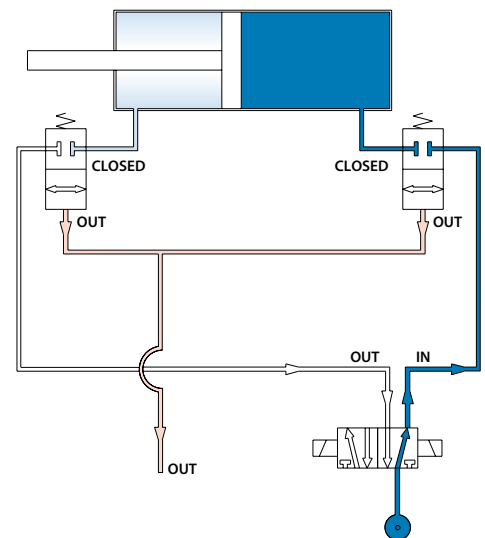
Note, the cylinder circuit and the pilot valve circuit are independent. With a pilot signal applied to the PO block valves and P1 pressure to the directional control valve the cylinder will extend and retract normally.



■ Pilot
■ Feeding

Pneumatic circuit - Cylinder at Rest

Remove the pilot signal pressure from the PO block valves to lock the cylinder in place even under load conditions.



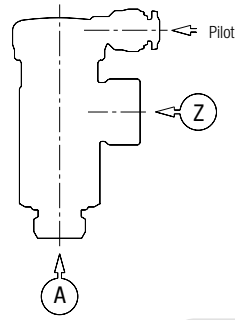


BLOCK VALVE SPECIFICATIONS



Pilot Pressure

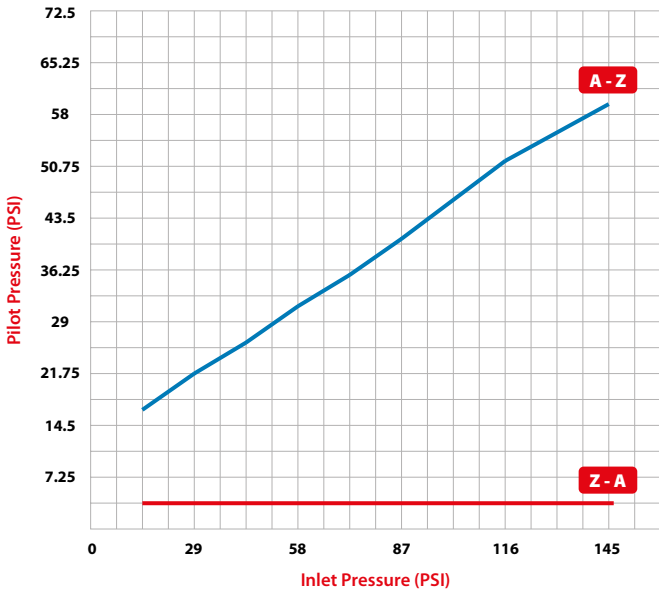
Minimum pilot pressure is required to ensure proper valve function and is based on inlet pressure.



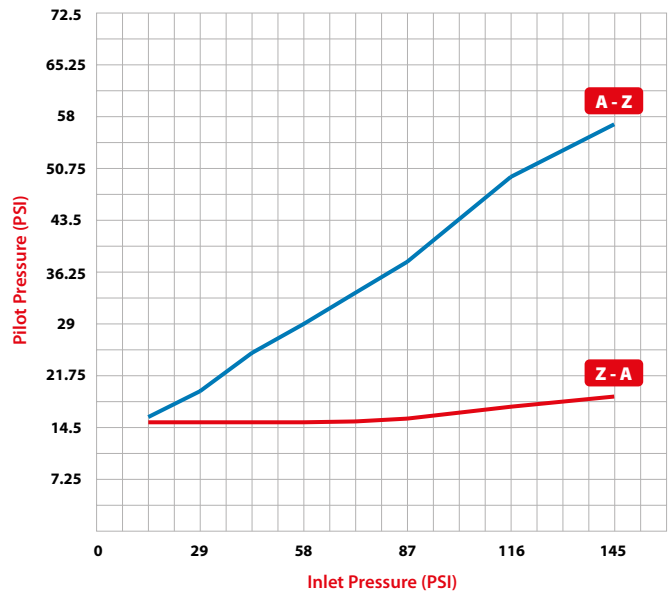
Pilot Pressure

Inlet Pressure

UNI-DIRECTIONAL
82880
1/8" - 1/4"

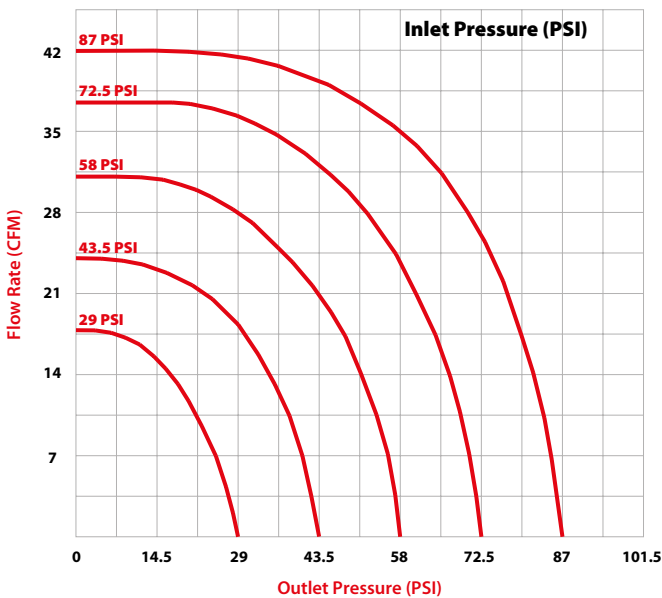


BI-DIRECTIONAL
82890
1/8" - 1/4"

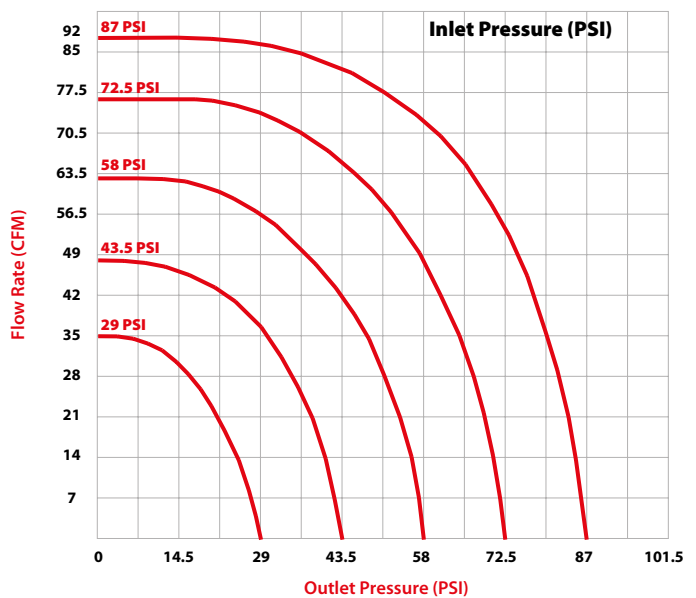


Flow Rates

82880 - 82890
1/8"



82880 - 82890
1/4"



Ball Valves



86300

Pag. 9.6



86310

Pag. 9.6



86320

Pag. 9.6



86330

Pag. 9.6



86700

Pag. 9.6



86710

Pag. 9.7



86720

Pag. 9.7



6300

Pag. 9.7



6310

Pag. 9.7



6400

Pag. 9.8



6410

Pag. 9.8



6560

Pag. 9.8



6570

Pag. 9.8



86900

Pag. 9.9



86910

Pag. 9.9



86915

Pag. 9.9



86920

Pag. 9.9

Stainless Steel Ball Valves



66300

Pag. 9.10



66310

Pag. 9.10

CHROME PLATED BRASS BALL VALVES



Ball Valves



TECHNICAL CHARACTERISTICS



Reference Standard

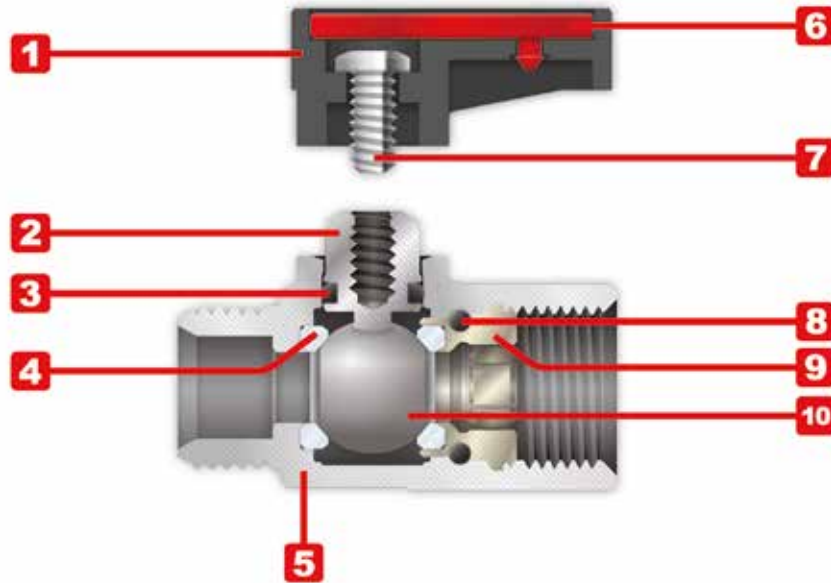
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

BS EN
331:2015

SILICON
FREE



Pressure Rating

Vacuum ~ 250 PSI
-0.99 bar ~ 20 bar
-0.099 MPa ~ 2.0 MPa



Temperatures

NBR	EPDM	FKM
-4° F ~ 176° F	-40° F - 266° F	5° F - 266° C
-20° C ~ 80° C	-40° C - 130° C	-15° C - 130° C



Component Parts and Materials

- 1 PA66 Glass Reinforced Handle
- 2 Chrome Nickel Plated Brass Spindle
- 3 NBR O-Ring Seal
- 4 PTFE Seats
- 5 Chrome Nickel Plated Brass Body
- 6 Acetalic Resin Plate
- 7 Steel Screw
- 8 NBR O-Ring Seal
- 9 Brass Fitting
- 10 Chrome Nickel Plated Brass Ball



Media

- Compressed air
- Water
- Oils
- Rated for gases, consult factory for details



Threads

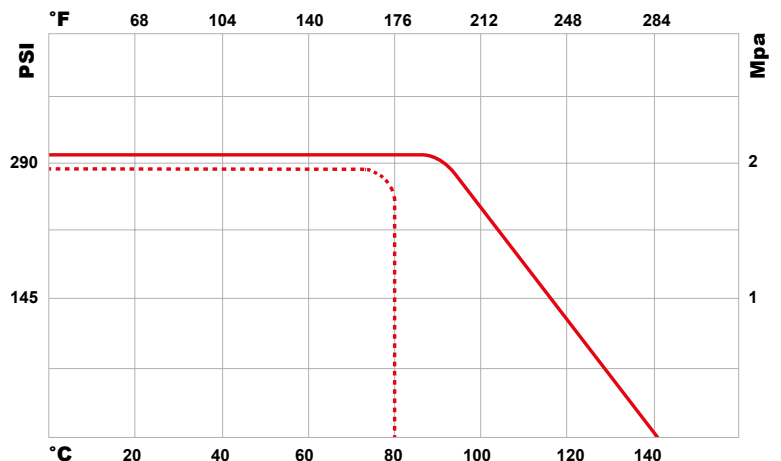
Gas in conformity with ISO7.1, BS 21, DIN 2999.
Parallel gas in conformity with ISO 228 Class A.



PRESSURE - TEMPERATURE RATINGS DIAGRAM

PTFE + FKM

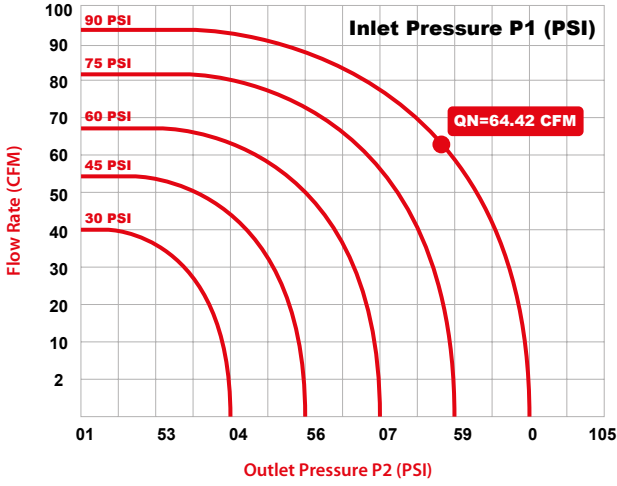
PTFE + NBR



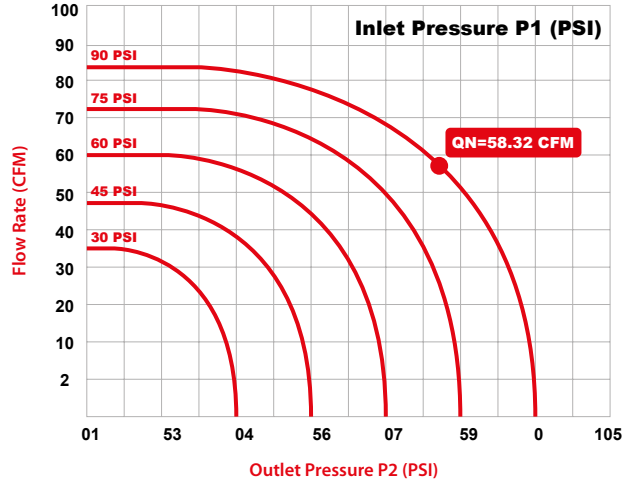


BALL VALVES SPECIFICATIONS

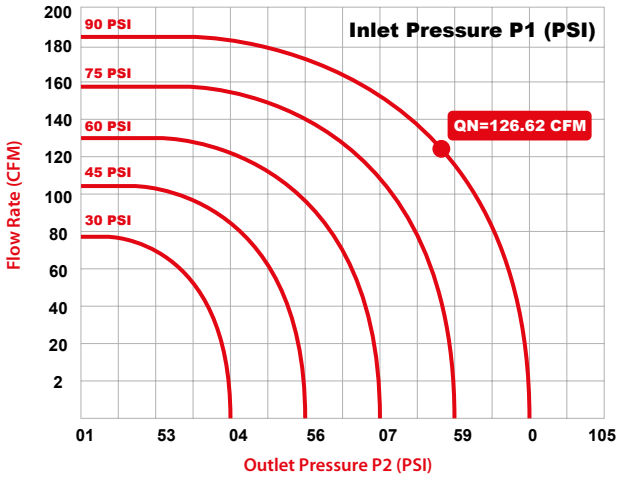
1/8"



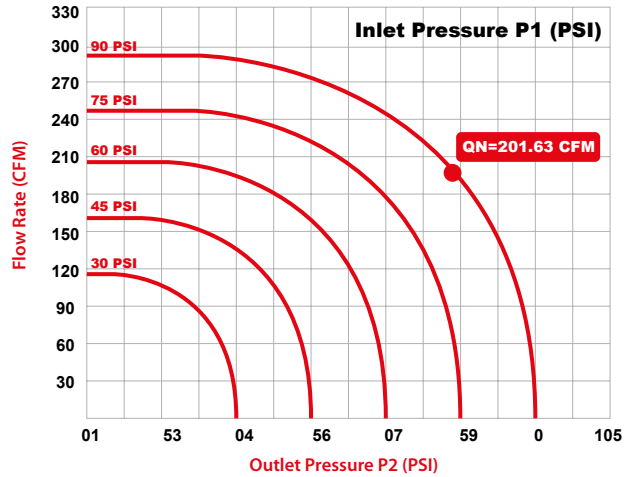
1/4"



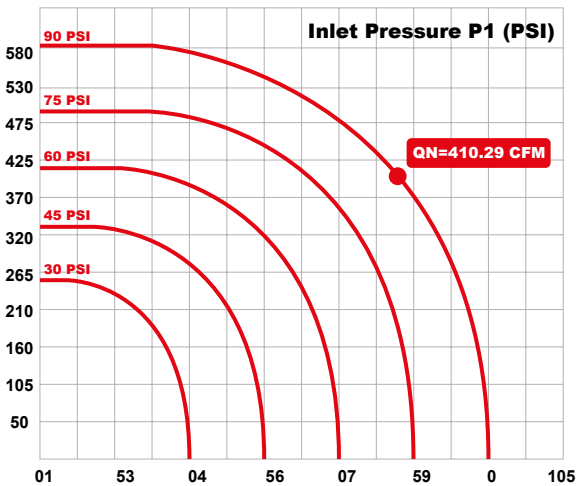
3/8"



1/2"



3/4"





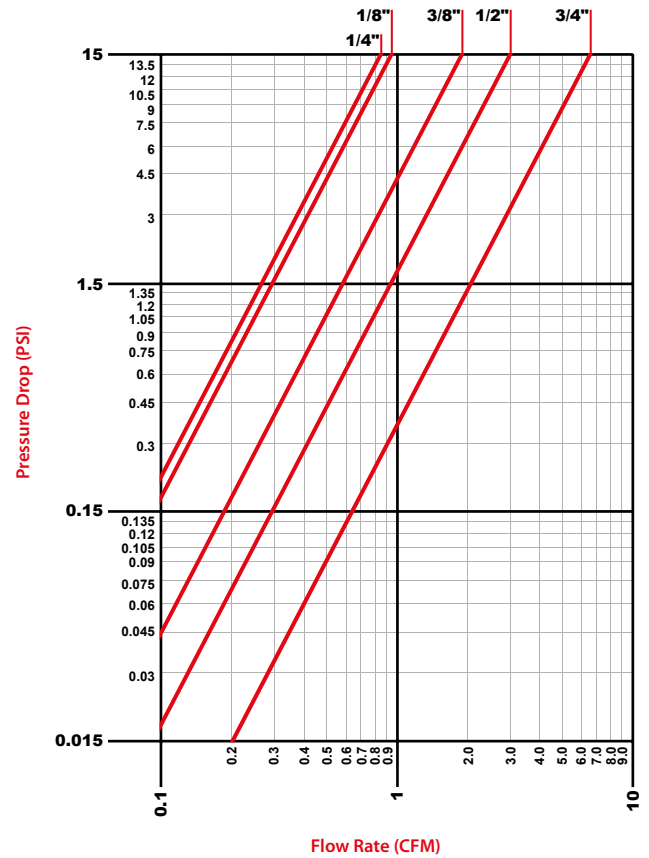
BALL VALVES SPECIFICATIONS



Flow Rate & Pressure Drop

In the table below, we specify the flow rate factors of our ball valves. These factors represent the amount of air and water that flows through the valve. They are measured by Cubic Feet per Minute at 60° F.

Thread Size	Factors of flow rate	
	CFM	m ³ /h
1/8"	0.95	1.6
1/4"	0.86	1.4
3/8"	1.86	3.1
1/2"	2.97	5
3/4"	6.05	10.2



Option

PART NUMBER	SIZE	COLOR	TYPE OF THE SEAL	TYPE OF HANDLE
-------------	------	-------	------------------	----------------

86300

3/8-3/8

RED PLATE

NBR

AGNEP Blue Plate
BL

NBR

Standard Short Handle for Valve 1/8-1/4-3/8-1/2
Standard Long Handle for Valve 3/4

If required

- AGNEP** Red Plate
- RO**
- AGNEP** Green Plate
- VE**
- AGNEP** White Plate
- BN**
- AGNEP** Yellow Plate
- GI**

**FKM
HNBR
EPDM**

LONG Handle

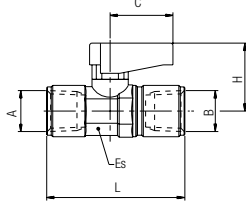
Long Handle with Spindle Extension

GAS:
AGNEP Yellow Plate EN 331
GI

86300

FEMALE X FEMALE

NPTF

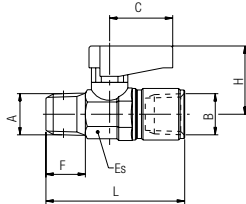


Part No.	A NPTF	B NPTF	DN	ES	L	C	H
86300-02	1/8	1/8	.217 (5,5)	.551 (14) - .591 (15)	1.476 (37,5)	.748 (19)	.827 (21)
86300-04	1/4	1/4	.217 (5,5)	.551 (14) - .591 (15)	1.811 (46)	.748 (19)	.827 (21)
86300-06	3/8	3/8	.315 (8)	.709 (18) - .748 (19)	1.909 (48,5)	.748 (19)	.866 (22)
86300-08	1/2	1/2	.394 (10)	.866 (22) - .906 (23)	2.441 (62)	1.024 (26)	1.201 (30,5)

86310

MALE X FEMALE

NPTF

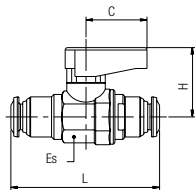


Part No.	A NPTF	B NPTF	DN	ES	F	L	C	H
86310-02	1/8	1/8	.217 (5,5)	.551 (14) - .591 (15)	.335 (8,5)	1.476 (37,5)	.748 (19)	.827 (21)
86310-04	1/4	1/4	.217 (5,5)	.551 (14) - .591 (15)	.512 (13)	1.811 (46)	.748 (19)	.827 (21)
86310-06	3/8	3/8	.315 (8)	.709 (18) - .748 (19)	.512 (13)	1.909 (48,5)	.748 (19)	.866 (22)
86310-08	1/2	1/2	.394 (10)	.866 (22) - .906 (23)	.669 (17)	2.441 (62)	1.024 (26)	1.201 (30,5)
86310-12	3/4	3/4	.551 (14)	1.102 (28) - 1.181 (30)	.689 (17,5)	2.500 (63,5)	1.953 (49,5)	1.319 (33,5)

86320

INCH TUBE X INCH TUBE

Inch tube

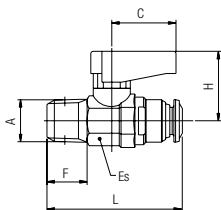


Part No.	Tube	Tube	ES	L	C	H
86320-02	1/8	1/8	.551 (14) - .591 (15)	1.673 (42,5)	.748 (19)	.828 (21)
86320-04	1/4	1/4	.551 (14) - .591 (15)	1.831 (46,5)	.748 (19)	.828 (21)
86320-06	3/8	3/8	.709 (18) - .748 (19)	2.382 (60,5)	.748 (19)	.866 (22)

86330

INCH TUBE X MALE

NPTF

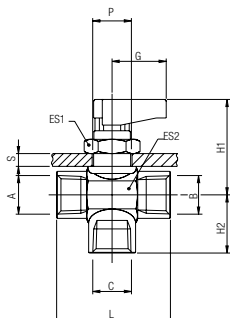


Part No.	Tube	A NPTF	F NPTF	ES	L	C	H
86330-53-02	5/32 (4)	1/8	.332 (8,5)	.551 (14) - .591 (15)	1.365 (35)	.741 (19)	.819 (21)
86330-04-02	1/4	1/8	.332 (8,5)	.551 (14) - .591 (15)	1.574 (40)	.741 (19)	.819 (21)
86330-04-04	1/4	1/4	.488 (12,5)	.551 (14) - .591 (15)	1.502 (38,5)	.741 (19)	.819 (21)
86330-06-06	3/8	3/8	.507 (13)	.709 (18) - .748 (19)	1.755 (45)	.741 (19)	.858 (22)

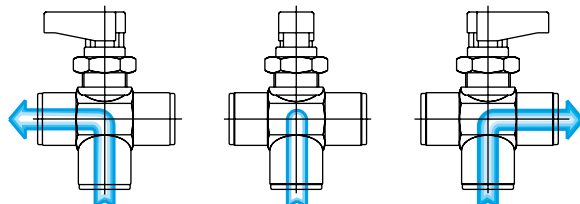
86700

THREE POSITION (CLOSED CENTER)

NPTF



Part No.	A/B/C	DN	ES1	ES2	L	G	H1	H2	S max
86700-02	1/8	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86700-04	1/4	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86700-06	3/8	.276 (7)	.669 (17)	.827 (21)	1.909 (48,5)	.748 (19)	1.378 (35)	.866 (22)	.177 (4,5)

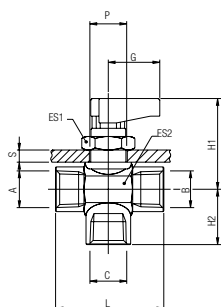


No Gas

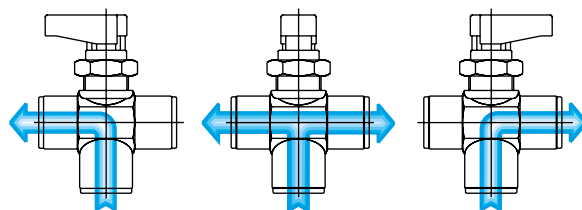
86710

THREE POSITION (OPEN CENTER)

NPTF



Part No.	A/B/C	DN	ES1	ES2	L	G	H1	H2	S max
86710-02	1/8	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86710-04	1/4	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86710-06	3/8	.276 (7)	.827 (21)	.827 (21)	1.909 (48,5)	.748 (19)	1.378 (35)	.866 (22)	.177 (4,5)

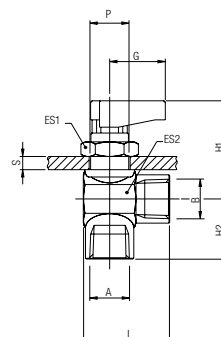


No Gas

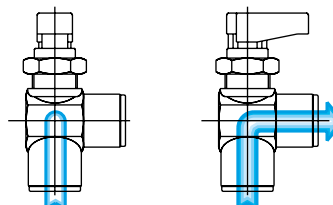
86720

RIGHT ANGLE

NPTF



Part No.	A/B	DN	ES1	ES2	L	G	H1	H2	S max
86720-02	1/8	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86720-04	1/4	.217 (5,5)	.669 (17)	.669 (17)	1.476 (37,5)	.748 (19)	1.319 (33,5)	.650 (16,5)	.177 (4,5)
86720-06	3/8	.276 (7)	.669 (17)	.827 (21)	1.535 (39)	.748 (19)	1.378 (35)	.866 (22)	.177 (4,5)

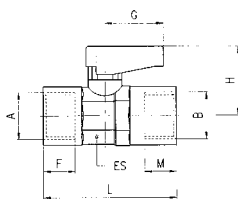


No Gas

6300

FEMALE X FEMALE

BSPT

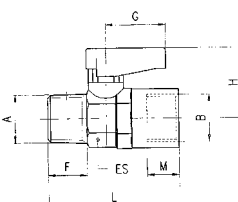


Part No.	A	B	DN	ES	F	M	L	G	H
6300-02	1/8	1/8	.217 (5,5)	.551(14) - .591(15)	.291 (7,4)	.291 (7,4)	1.417 (36)	.748 (19)	.827 (21)
6300-04	1/4	1/4	.217 (5,5)	.551(14) - .591(15)	.433 (11)	.433 (11)	1.693 (43)	.748 (19)	.827 (21)
6300-06	3/8	3/8	.315 (8)	.709(18) - .748(19)	.449 (11,4)	.449 (11,4)	1.850 (47)	.748 (19)	.866 (22)
6300-08	1/2	1/2	.394 (10)	.866(22) - .906(23)	.591 (15)	.591 (15)	2.323 (59)	1.024 (26)	1.201 (30,5)
6300-12	3/4	3/4	.551 (14)	1.102(28) - 1.181(30)	.642 (16,3)	.642 (16,3)	2.638 (67)	1.969 (50)	1.299 (33)

6310

MALE X FEMALE

BSPT

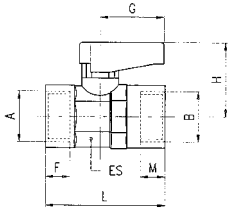


Part No.	A	B	DN	ES	F	M	L	G	H
6310-02	1/8	1/8	.217 (5,5)	.551(14) - .591(15)	.291 (7,4)	.291 (7,4)	1.417 (36)	.748 (19)	.827 (21)
6310-04-02	1/4	1/8	.217 (5,5)	.551(14) - .591(15)	.433 (11)	.291 (7,4)	1.594 (40,5)	.748 (19)	.827 (21)
6310-04	1/4	1/4	.217 (5,5)	.551(14) - .591(15)	.433 (11)	.433 (11)	1.693 (43)	.748 (19)	.827 (21)
6310-06	3/8	3/8	.315 (8)	.709(18) - .748(19)	.449 (11,4)	.449 (11,4)	1.811 (46)	.748 (19)	.866 (22)
6310-08	1/2	1/2	.394 (10)	.866(22) - .906(23)	.591 (15)	.591 (15)	2.244 (57)	1.024 (26)	1.201 (30,5)
6310-12	3/4	3/4	.551 (14)	1.102(28) - 1.181(30)	.642 (16,3)	.642 (16,3)	2.480 (63)	1.969 (50)	1.299 (33)

6400

FEMALE X FEMALE

G-THREAD

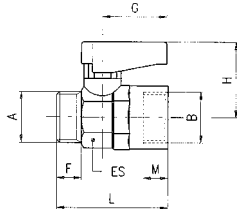


Part No.	A	B	DN	ES	F	M	L	G	H
6400-1/8	1/8	1/8	.217 (5,5)	.551(14) - .591(15)	.276 (7)	.276 (7)	1.378 (35)	.748 (19)	.827 (21)
6400-1/4	1/4	1/4	.217 (5,5)	.551(14) - .591(15)	.315 (8)	.315 (8)	1.457 (37)	.748 (19)	.827 (21)
6400-3/8	3/8	3/8	.315 (8)	.709(18) - .748(19)	.354 (9)	.354 (9)	1.654 (42)	.748 (19)	.866 (22)
6400-1/2	1/2	1/2	.394 (10)	.866(22) - .906(23)	.394 (10)	.394 (10)	1.929 (49)	1.024 (26)	1.201 (30,5)
6400-3/4	3/4	3/4	.551 (14)	1.102(28) - 1.181(30)	.472 (12)	.472 (12)	2.283 (58)	1.969 (50)	1.299 (33)

6410

MALE X FEMALE

G-THREAD

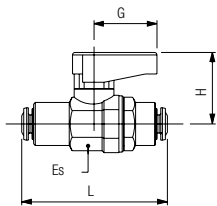


Part No.	A	B	DN	ES	F	M	L	G	H
6410-1/8-1/8	1/8	1/8	.217 (5,5)	.551(14) - .591(15)	.276 (7)	.276 (7)	1.339 (34)	.748 (19)	.827 (21)
6410-1/4-1/8	1/4	1/8	.217 (5,5)	.551(14) - .591(15)	.315 (8)	.276 (7)	1.378 (35)	.748 (19)	.827 (21)
6410-1/4-1/4	1/4	1/4	.217 (5,5)	.551(14) - .591(15)	.315 (8)	.315 (8)	1.378 (35)	.748 (19)	.827 (21)
6410-3/8-3/8	3/8	3/8	.315 (8)	.709(18) - .748(19)	.354 (9)	.354 (9)	1.535 (39)	.748 (19)	.866 (22)
6410-1/2-1/2	1/2	1/2	.394 (10)	.866(22) - .906(23)	.394 (10)	.394 (10)	1.772 (45)	1.024 (26)	1.201 (30,5)
6410-3/4-3/4	3/4	3/4	.551 (14)	1.102(28) - 1.181(30)	.472 (12)	.472 (12)	2.047 (52)	1.969 (50)	1.299 (33)

6560

TUBE X TUBE

Metric tube



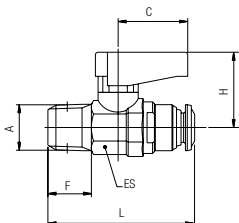
Part No.	Tube	Tube	DN	ES	L	G	H
6560-4	5/32 (4)	5/32 (4)	.118 (3)	.551(14) - .591(15)	1.732 (44)	.748 (19)	.827 (21)
6560-6	6	6	.197 (5)	.551(14) - .591(15)	1.890 (48)	.748 (19)	.827 (21)
6560-8	5/16 (8)	5/16 (8)	.217 (5,5)	.551(14) - .591(15)	1.890 (48)	.748 (19)	.827 (21)
6560-10	10	10	.315 (8)	.709(18) - .748(19)	2.303 (58,5)	.748 (19)	.866 (22)
6560-12	12	12	.394 (10)	.866(22) - .906(23)	2.598 (66)	1.024 (26)	1.201 (30,5)

No Gas

6570

TUBE X MALE

Metric tube - BSPT



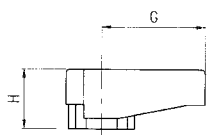
Part No.	A	Tube	DN	F	ES	L	C	H
6570-4-1/8	1/8	5/32 (4)	.118 (3)	.335 (8,5)	.551(14) - .591(15)	1.378 (35)	.748 (19)	.827 (21)
6570-6-1/8	1/8	6	.197 (5)	.335 (8,5)	.551(14) - .591(15)	1.575 (40)	.748 (19)	.827 (21)
6570-8-1/8	1/8	5/16 (8)	.217 (5,5)	.335 (8,5)	.551(14) - .591(15)	1.634 (41,5)	.748 (19)	.827 (21)
6570-6-1/4	1/4	6	.315 (8)	.492 (12,5)	.551(14) - .591(15)	1.516 (38,5)	.748 (19)	.827 (21)
6570-8-1/4	1/4	8	.394 (10)	.492 (12,5)	.551(14) - .591(15)	1.791 (45,5)	.748 (19)	.866 (22)

No Gas

BALL VALVE ACCESSORIES

86900

SHORT HANDLE

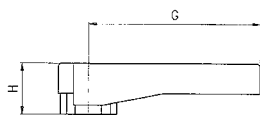


Part No.	C	H	Size Valve
* 86900-02	.748 (19)	.433 (11)	1/8 - 1/4 - 3/8
86900-08	1.024 (26)	.590 (15)	1/2 - 3/4

* Standard

86910

LONG HANDLE

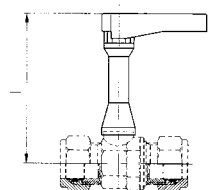


Part No.	C	H	Size Valve
86910-02	1.378 (35)	.433 (11)	1/8 - 1/4 - 3/8
* 86910-08	1.968 (50)	.590 (15)	1/2 - 3/4

* Standard

86915

STEM EXTENSION KIT



Part No.	Size	L
86915-02	1/8	2.283 (58)
	1/4	2.283 (58)
	3/8	2.323 (59)
86915-08	1/2	2.677 (68)
	3/4	2.756 (70)

86920

COLOR PLATE



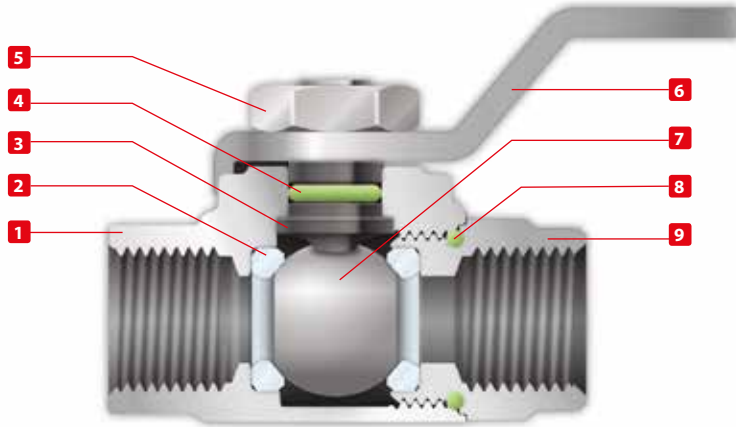
Part No.	Color	Size
86920-01	Blue (Standard Color)	1/8 - 1/4 - 3/8
86920-02	Red	1/8 - 1/4 - 3/8
86920-03	Green	1/8 - 1/4 - 3/8
86920-04	Yellow	1/8 - 1/4 - 3/8
86920-05	White	1/8 - 1/4 - 3/8
86921-01	Blue (Standard Color)	1/2 - 3/4
86921-02	Red	1/2 - 3/4
86921-03	Green	1/2 - 3/4
86921-04	Yellow	1/2 - 3/4
86921-05	White	1/2 - 3/4

GHINOX SERIES: MINIBALLVALVE IN STAINLESS STEEL AISI 316 L

TECHNICAL CHARACTERISTICS

Reference Standard

- 1907/2006 REACH ✓
- 2011/65/CE RoHS ✓
- PED 2014/68/UE
- SILICON FREE



Pressure Rating

Vacuum ~ 580 PSI
 -0.99 bar ~ 40 bar
 -0.099 MPa ~ 4 MPa

Temperatures

Minimum temperature **5 °F**
- 15 °C

Maximum temperature in continuous **302 °F**
+ 150 °C

Maximum temperature for short term **356 °F**
+ 180 °C

Media

- Compressed air
- Vacuum
- Water
- Oils

Component Parts and Materials

- 1 Stainless steel AISI 316L Body
- 2 PTFE Seats
- 3 Stainless steel AISI316L Spindle
- 4 FKM Seal O-RING
- 5 Stainless steel AISI316L Hex Nut
- 6 Stainless steel AISI316L Spindle
- 7 Stainless steel AISI316L Ball
- 8 FKM Seal O-RING
- 9 Stainless steel AISI316L Fitting

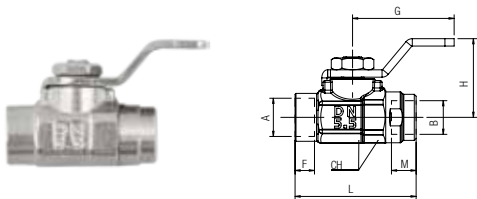
Threads

Gas in conformity with ISO7.1, BS 21, DIN 2999.

66300
FEMALE x FEMALE



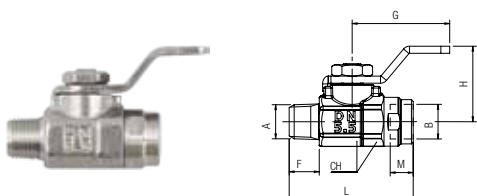
Part No.	A	B	DN	CH	F	M	L	G	H
66300-02-02	0.3 (1/8)	0.3 (1/8)	0.217	0.551-0.591	0.335	0.335	1.299	1.102	0.846
66300-04-04	0.635 (1/4)	0.635 (1/4)	0.217	0.630-0.669	0.492	0.492	1.693	1.102	0.846



66310
MALE x FEMALE



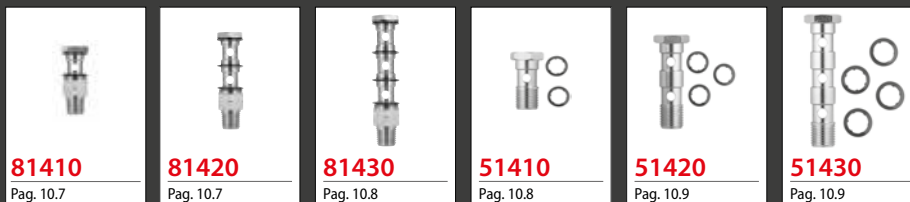
Part No.	A	B	DN	CH	F	M	L	G	H
66310-02-02	0.3 (1/8)	0.3 (1/8)	0.217	0.551-0.591	0.335	0.335	1.299	1.102	0.846
66310-04-04	0.635 (1/4)	0.635 (1/4)	0.217	0.630-0.669	0.492	0.492	1.693	1.102	0.846



Adapters



NPTF Banjo Stem Assemblies



Tubing



NICKEL-PLATED BRASS ADAPTERS

Adapters





TECHNICAL CHARACTERISTICS



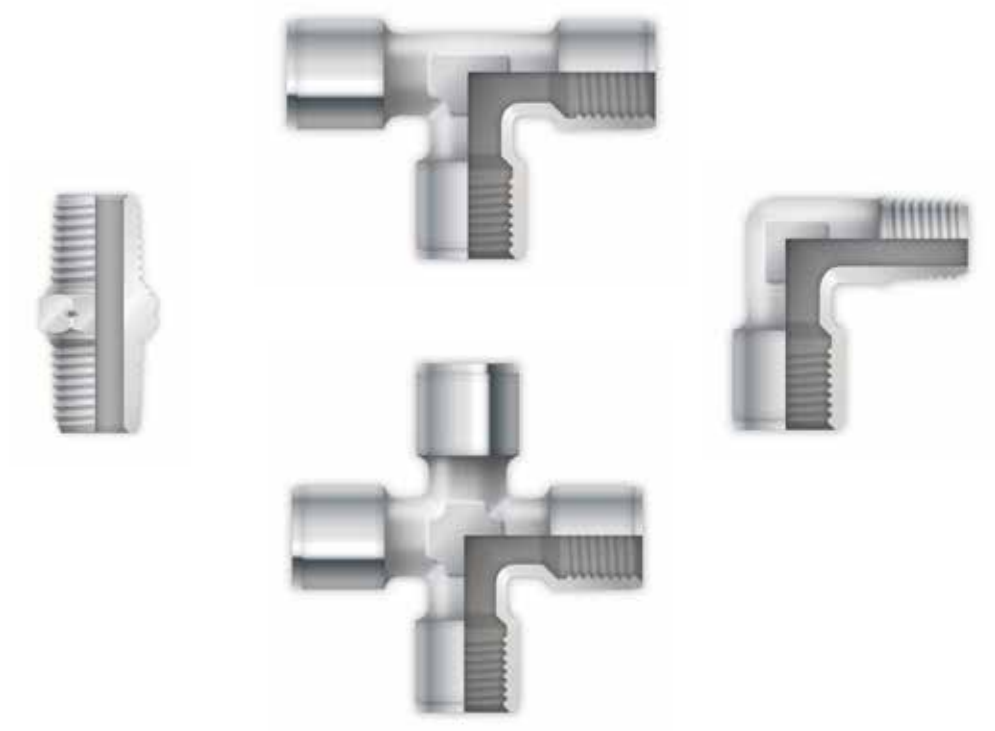
Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE



Maximum temperature

Vacuum ~ 290 PSI
300° C



Component Parts and Materials

These fittings are made in **OT UNI EN 12164/5 CW 614/7N** and undergo a nickel-plating process. All other materials will be specified in catalog.



Size	Maximum pressure advised
1/8"	2175 PSI
1/4"	1450 PSI
3/8"	1080 PSI
1/2"	725 PSI



Media

- Compressed air
- Water
- Oils
- General fluids for pneumatic, hydraulic and oildynamic facilities.



Threads

Tapered gas in conformity with ISO7.1, BS 21, DIN 2999.
Parallel gas in conformity with ISO 228 Class A.
Metric in conformity with ISO R/262.
NPTF in conformity with ANSI B1.20.5

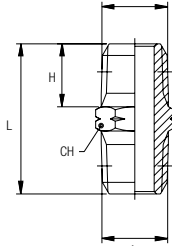


Connection Tubes

Tubes and general fittings.

82200N

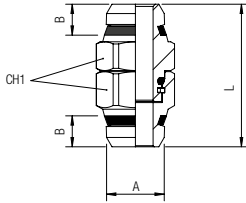
HEX NIPPLE



Part No.	A NPTF	H	L	CH
82200N-02	1/8	.335 (8,5)	.846 (21,5)	.472 (12)
82200N-04	1/4	.512 (13)	1.220 (31)	.551 (14)
82200N-06	3/8	.512 (13)	1.220 (31)	.748 (19)
82200N-08	1/2	.669 (17)	1.575 (40)	.866 (22)

82201

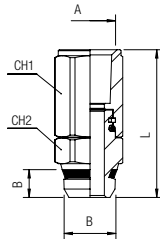
NIPPLE - MALE X MALE



Part No.	A	B	L	CH1
82201-02	1/4	.275 (7)	1.279 (32,5)	.630 (16)
82201-04	3/8	.295 (7,5)	1.240 (31,5)	.787 (20)

82203

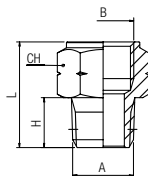
NIPPLE - MALE X FEMALE



Part No.	A NPTF	B	H	L	CH1	CH2
82203-04-04	1/4	1/4	.275 (7)	1.476 (37,5)	.630 (16)	.630 (16)
82203-06-06	3/8	3/8	.295 (7,5)	1.417 (36)	.787 (20)	.787 (20)
82203-06-04	3/8	1/4	.275 (7)	1.496 (38)	.787 (20)	.630 (16)

82241N

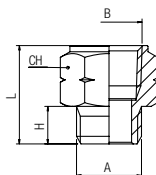
ADAPTER FEMALE G THREAD - MALE NPTF



Part No.	A NPTF	B ISO228	H	L	CH
82241N-32-M5	10/32 UNF	M5	.177 (4,5)	.472 (12)	.315 (8)
82241N-02-02	1/8	1/8	.335 (8,5)	.768 (19,5)	.551 (14)
82241N-04-04	1/4	1/4	.512 (13)	1.063 (27)	.669 (17)
82241N-06-06	3/8	3/8	.512 (13)	1.102 (28)	.866 (22)

82242N

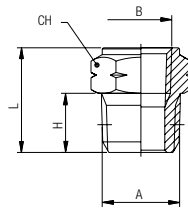
ELBOW - FEMALE-MALE NPTF



Part No.	A ISO228	B NPTF	H	L	CH
82242N-02	1/8	1/8	.236 (6)	.669 (17)	.551 (14)
82242N-04	1/4	1/4	.315 (8)	.906 (23)	.669 (17)
82242N-06	3/8	3/8	.354 (9)	.945 (24)	.866 (22)
82242N-08	1/2	1/2	.472 (12)	1.240 (31,5)	1.063 (27)

82280N

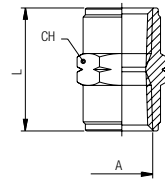
REDUCER FEMALE - MALE NPTF



Part No.	A NPTF	B NPTF	H	L	CH
82280N-02-32	1/8	10/32 UNF	.335 (8,5)	.571 (14,5)	.472 (12)
82280N-04-02	1/4	1/8	.512 (13)	.748 (19)	.551 (14)
82280N-06-02	3/8	1/8	.512 (13)	.768 (19,5)	.748 (19)
82280N-06-04	3/8	1/4	.512 (13)	.906 (23)	.748 (19)
82280N-08-04	1/2	1/4	.669 (17)	.965 (24,5)	.866 (22)
82280N-08-06	1/2	3/8	.669 (17)	.571 (14,5)	.472 (12)

82300N

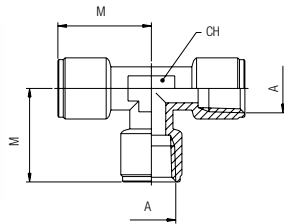
COUPLING FEMALE NPTF



Part No.	A NPTF	L	CH
82300N-02	1/8	.748 (19)	.551 (14)
82300N-04	1/4	1.063 (27)	.669 (17)
82300N-06	3/8	1.063 (27)	.866 (22)
82300N-08	1/2	1.378 (35)	1.063 (27)

82400N

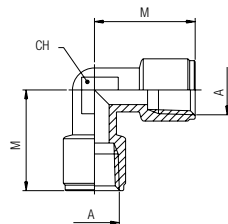
TEE FEMALE NPTF



Part No.	A NPTF	M	CH
82400N-02	1/8	.669 (19,5)	.472 (12)
82400N-04	1/4	.906 (26)	.512 (13)
82400N-06	3/8	.945 (28,5)	.630 (16)
82400N-08	1/2	1.240 (33,5)	.787 (20)

82510N

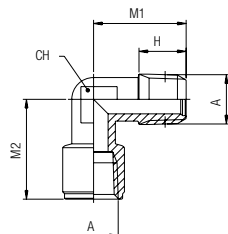
ELBOW - FEMALE NPTF



Part No.	A NPTF	M	CH
82510N-02	1/8	.846 (21,5)	.433 (11)
82510N-04	1/4	1.083 (27,5)	.512 (13)
82510N-06	3/8	1.161 (29,5)	.669 (17)
82510N-08	1/2	1.339 (34)	.787 (20)

82520N

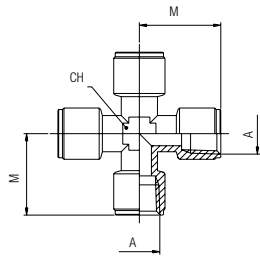
ELBOW - FEMALE - MALE NPTF



Part No.	A NPTF	H	M1	M2	CH
82520N-02	1/8	.335 (8,5)	.827 (21)	.748 (19)	.433 (11)
82520N-04	1/4	.512 (13)	1.083 (27,5)	1.004 (25,5)	.512 (13)
82520N-06	3/8	.512 (13)	1.161 (29,5)	1.083 (27,5)	.669 (17)
82520N-08	1/2	.669 (17)	1.339 (34)	1.260 (32)	.787 (20)

82620N

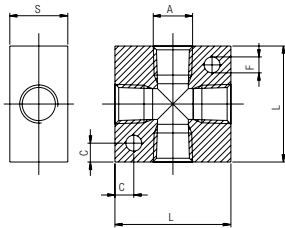
CROSS - FEMALE NPTF



Part No.	A NPTF	M	CH
82620N-02	1/8	.787 (20)	.433 (11)
82620N-04	1/4	1.063 (27)	.512 (13)
82620N-06	3/8	1.142 (29)	.669 (17)

82640N

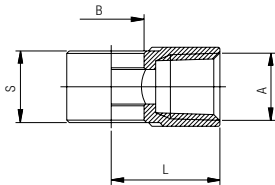
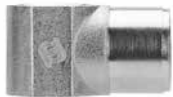
ALUMINUM DISTRIBUTION BLOCK - FEMALE



Part No.	A NPTF	L	S	F	C
82640N-02	1/8	.984 (25)	.630 (16)	.177 (4,5)	.169 (4,5)
82640N-04	1/4	1.575 (40)	.787 (20)	.217 (5,5)	.256 (6,5)
82640N-06	3/8	1.969 (50)	.984 (25)	.217 (5,5)	.295 (7,5)
82640N-08	1/2	1.969 (50)	1.181 (30)	.217 (5,5)	.295 (7,5)

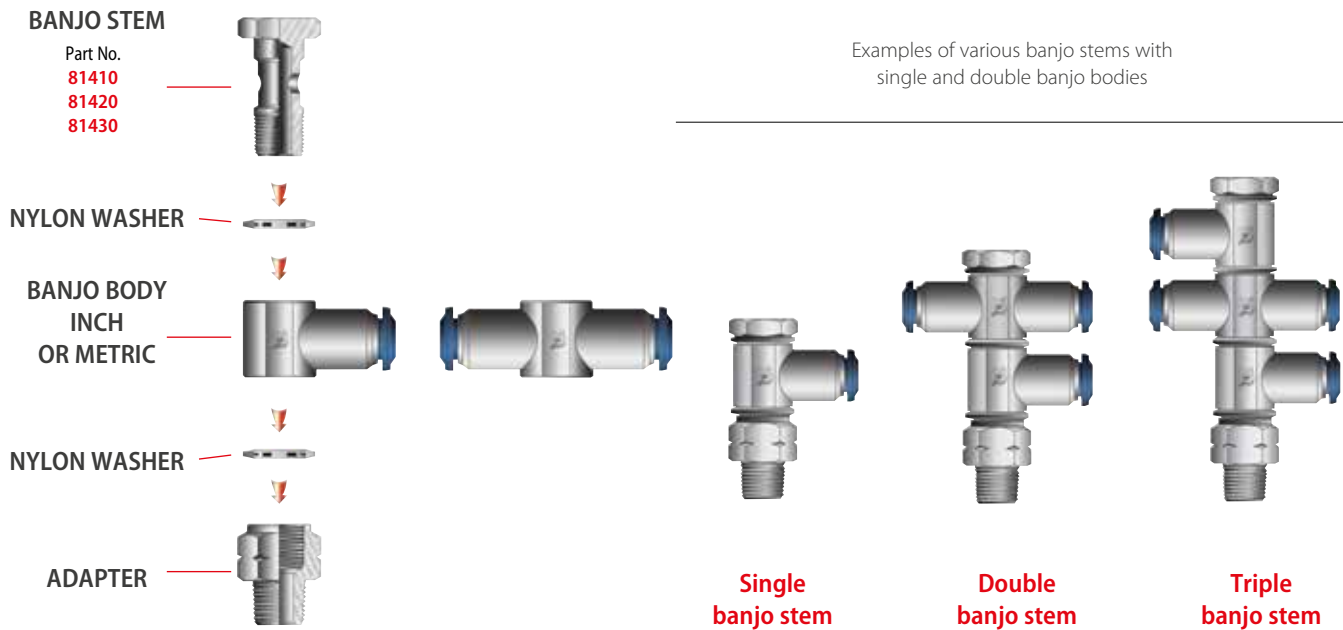
82690

SINGLE BANJO BODY FEMALE



Part No.	A NPTF	B	L	S	CH
82690-32	10/32	.240 (6.1)	.570 (14.5)	.484 (12.3)	N/A
82690-02	1/8	.394 (10)	.649 (16.5)	.590 (15)	.551 (14)
82690-04	1/4	.531 (13.5)	.866 (22)	.669 (17)	.708 (18)
82690-06	3/8	.688 (17.5)	1.043 (26.5)	.787 (20)	.827 (21)

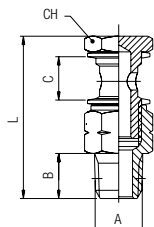
NPTF BANJO STEM ASSEMBLIES



With nylon banjo body remove the washer.

81410

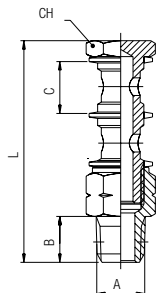
SINGLE BANJO STEM



Part No.	A NPTF	B	C	L	CH
81410-32	10/32	.177 (4,5)	.492 (15,5)	1.200 (30,5)	.315 (8)
81410-02	1/8	.334 (8,5)	.591 (15)	1.653 (42)	.551 (14)
81410-04	1/4	.511 (13)	.669 (17)	2.047 (52)	.669 (17)
81410-06	3/8	.511 (13)	.787 (20)	2.106 (53,5)	.748 (19)

81420

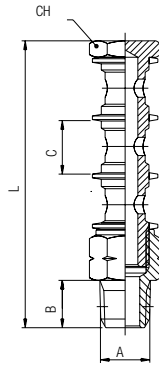
DOUBLE BANJO STEM



Part No.	A NPTF	B	C	L	CH
81420-02	1/8	.334 (8,5)	.591 (15)	2.283 (58)	.551 (14)
81420-04	1/4	.511 (13)	.669 (17)	2.755 (70)	.669 (17)
81420-06	3/8	.511 (13)	.787 (20)	3.031 (77)	.748 (19)

81430

TRIPLE BANJO STEM



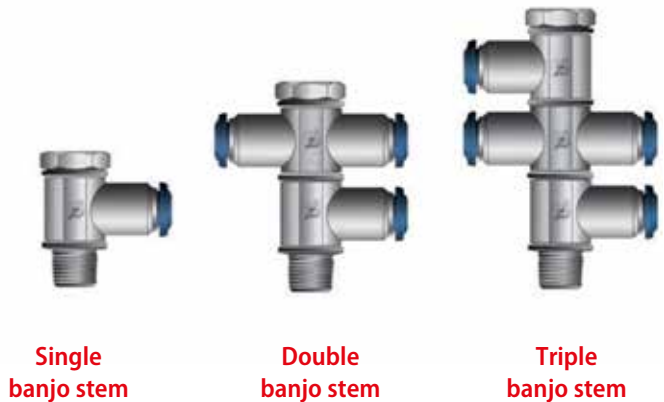
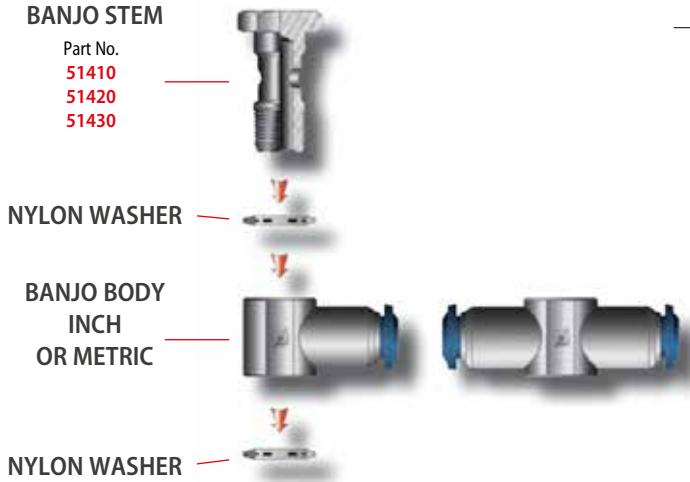
Part No.	A NPTF	B	C	L	CH
81430-02	1/8	.334 (8,5)	.591 (15)	2.913 (74)	.551 (14)
81430-04	1/4	.511 (13)	.669 (17)	3.464 (88)	.669 (17)
81430-06	3/8	.511 (13)	.787 (20)	3.897 (99)	.748 (19)

BSPP BANJO STEM ASSEMBLIES

Examples of various banjo stems with single and double banjo bodies

BANJO STEM

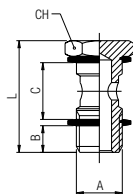
Part No.
51410
51420
51430



With nylon banjo body remove the washer.

51410

SINGLE BANJO STEM



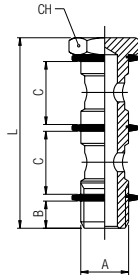
Part No.	A	B	C	L	CH
51410-M5	M5	.157 (4)	.02 (12.5)	.866 (22)	.315 (8)
51410-M6	M6	.197 (5)	.02 (12.5)	.906 (23)	.315 (8)
51410-1/8	1/8	.236 (6)	.591 (15)	1.102 (28)	.551 (14)
51410-1/4	1/4	.315 (8)	.669 (17)	1.26 (32)	.669 (17)
51410-3/8	3/8	.354 (9)	.787 (20)	1.417 (36)	.748 (19)
51410-1/2	1/2	.394 (10)	.945 (24)	1.654 (42)	.945 (24)
51410-M12x1.5 *M12X1.5		.315 (8)	.669 (17)	1.26 (32)	.669 (17)

This item will be supplied with the PA66 washers (ART. 1610).

* With this banjo stem using 1/4 orienting banjo body.

51420

DOUBLE BANJO STEM



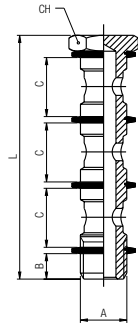
Part No.	A	B	C	L	CH
51420-1/8	1/8	.236 (6)	.591 (15)	.072 (44,5)	.551 (14)
51420-1/4	1/4	.315 (8)	.669 (17)	.082 (50,5)	.669 (17)
51420-3/8	3/8	.354 (9)	.787 (20)	2.283 (58)	.748 (19)
51420-1/2	1/2	.394 (10)	.945 (24)	2.677 (68)	.945 (24)
51420-M12x1.5 *M12X1.5		.315 (8)	.669 (17)	.082 (50,5)	.669 (17)

This item will be supplied with the PA66 washers (ART. 1610).

* With this banjo stem using 1/4 orienting banjo body.

51430

TRIPLE BANJO STEM



Part No.	A	B	C	L	CH
51430-1/8	1/8	.236 (6)	.591 (15)	2.402 (61)	.551 (14)
51430-1/4	1/4	.315 (8)	.669 (17)	2.717 (69)	.669 (17)
51430-3/8	3/8	.354 (9)	.787 (20)	3.15 (80)	.748 (19)
51430-1/2	1/2	.394 (10)	.945 (24)	3.701 (94)	.945 (24)

This item will be supplied with the PA66 washers (ART. 1610).

PA TUBING



- **COMPOUND** **PA11**
- **TEMPERATURE RANGE** **-60° F**
+200° F
- **DIAMETER TOLERANCE** **+ .002**
(all size) **- .004**
- **VACUUM RATING** **Natural or black**
(consult factory for others colors)
- **HARDNESS** **78 Rockwell R**

N11

PA 11 TUBING



Part No.	OD	ID	Wall	Color	Working Pressure 75°F	Working Pressure 150°F	Bend Radius	Standard Pack
N11-021-100	1/8	.93	.016	Black	225 PSI	123 PSI	.375	100' Bag
N11-022-100	1/8	.93	.016	Natural	225 PSI	123 PSI	.375	100' Bag
N11-531-100	5/32 (4)	.108	.016	Black	225 PSI	123 PSI	.375	100' Bag
N11-532-100	5/32 (4)	.108	.016	Natural	225 PSI	123 PSI	.375	100' Bag
N11-041-100	1/4	.205	.035	Black	225 PSI	123 PSI	.375	100' Bag
N11-042-100	1/4	.205	.016	Natural	225 PSI	123 PSI	.375	100' Bag
N11-051-100	5/16 (8)	.232	.016	Black	225 PSI	123 PSI	.375	100' Bag
N11-052-100	5/16 (8)	.232	.016	Natural	225 PSI	123 PSI	.375	100' Bag
N11-061-100	3/8	.275	.016	Black	225 PSI	123 PSI	.375	100' Bag
N11-062-100	3/8	.275	.016	Natural	225 PSI	123 PSI	.375	100' Bag
N11-081-100	1/2	.375	.016	Black	225 PSI	123 PSI	.375	100' Bag
N11-082-100	1/2	.375	.016	Natural	225 PSI	123 PSI	.375	100' Bag

RECOIL ASSEMBLIES


Part No.	Fitting Male NPTF	ID	OD	Lenght Straight	Lenght Working	Lenght Retracted	Coil Diameter	Working Pressure 75°F	Working Pressure 150°F
R811-043-012	1/4	1/4	.309	12	10 1/2	5 1/4	3 1/2	185 PSI	100 PSI
R811-043-025	1/4	1/4	.309	25	22	10 1/2	3 1/2	185 PSI	100 PSI
R811-043-050	1/4	1/4	.309	50	44	21	3 1/2	185 PSI	100 PSI
R811-043-100	1/4	1/4	.309	100	88	42	3 1/2	185 PSI	100 PSI
R811-053-012	3/8	3/8	.470	12	10	5	5 5/8	185 PSI	100 PSI
R811-053-025	3/8	3/8	.470	25	10	10 1/4	5 5/8	185 PSI	100 PSI
R811-053-050	3/8	3/8	.470	50	10	20 1/4	5 5/8	185 PSI	100 PSI
R811-053-100	3/8	3/8	.470	100	10	41	5 5/8	185 PSI	100 PSI
R811-083-012	1/2	1/2	.625	12	8.5	4 1/4	9	185 PSI	100 PSI
R811-083-025	1/2	1/2	.625	25	18	9	9	185 PSI	100 PSI
R811-083-050	1/2	1/2	.625	50	36	18	9	185 PSI	100 PSI
R811-083-100	1/2	1/2	.625	100	72	36	9	185 PSI	100 PSI

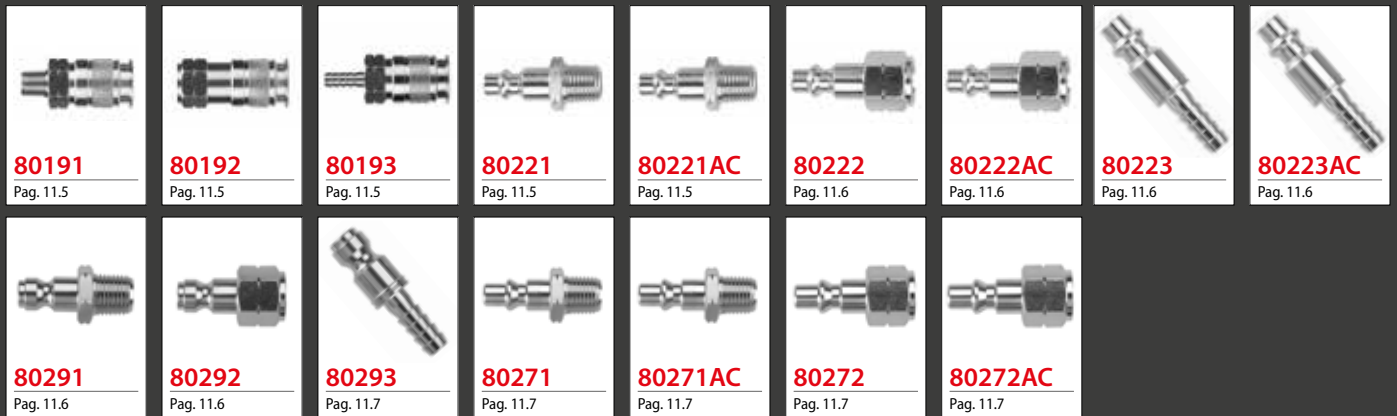
ACCESSORIES
81026
RECOIL FITTING


Part No.	A NPTF	B	C	L	CH
81026-04	1/4	.236 (6)	.591 (15)	2.402 (61)	.551 (14)
81026-06	3/8	.315 (8)	.669 (17)	2.717 (69)	.669 (17)
81026-08	1/2	.354 (9)	.787 (20)	3.150 (80)	.748 (19)

1750
TUBE CUTTER

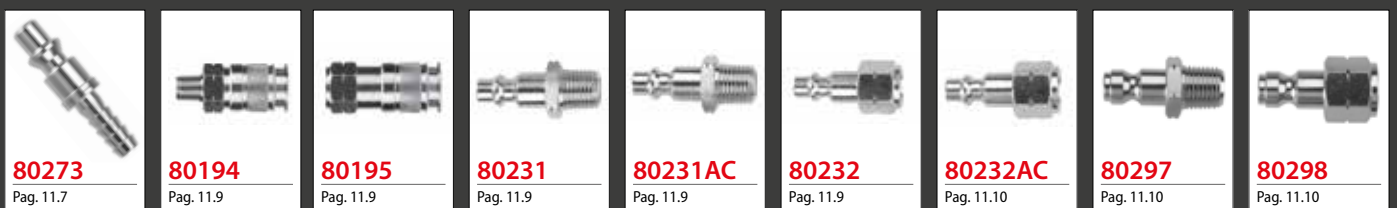

1/4 Multisocket

p. 11.4



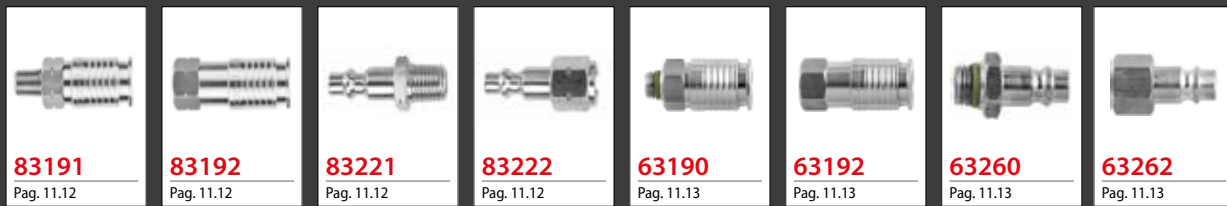
3/8 Multisocket

p. 11.8



1/4 Multisocket -Stainless Steel

p. 11.11



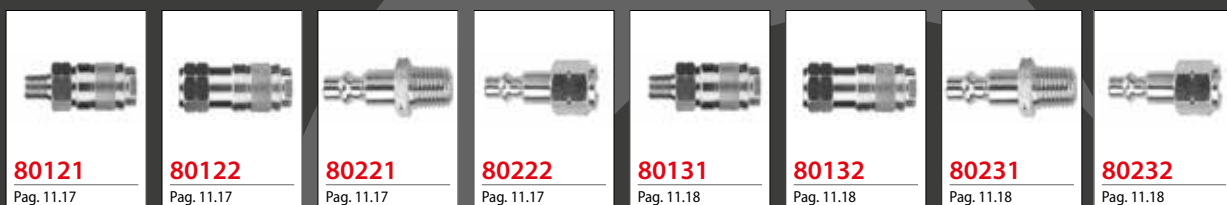
AC Mini

p. 11.14



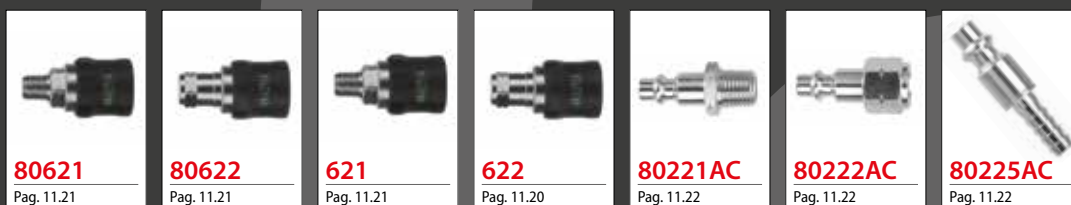
Industrial

p. 11.16



Safety Couplers

p. 11.19



QUICK DISCONNECT COUPLERS



Quick Couplers

1/4" Basic size: Industrial									
AIGNEP	MILTON	AMFLO	ARO	COIL HOSE	DIXON	NAPA	PARKER	FOSTER	TOMCO
80192-04	715	C20-AU	MSCF22-000	150	DC20	90-670	B23	2803	M184
80191-04	716	C21	MSCM22-000	152	DC21	90-672	B22	2903	M181
80193-04	717	C20-42	MSCH22-000	153	DC2042	90-671	B20-3B	3603	M186
80193-06	717-6	C20-44	MSCH23-000		DC2044			3703	M187
80192-06	718	C20-23	MSCF23-000	151	DC2023	90-667	B23E	3203	M185
80191-06	719	C21-03	MSCM23-000	155	DC2103	90-657	B22E	3303	M182
80221-04	727	CP21	23902-210	1501	DCP21	90-674	H2C	10-3	1804
80222-04	728	CP20	23902-200	1502	DCP2021	90-676	H3C	11-3	1805
80222-06	732	CP20-23	23902-300	1505	DCP2023	90-659	H3C-E	15-3	1807
80221-06	733	CP21-03	23902-310	1503	DCP2103	90-677	H2C-E	14-3	1806
80223-04	736	CP21-42	23902-220	1506	DCP2142	90-673	H8C	16-3	1824
80223-06	736-6	CP21-44	23902-420	1508	DCP2144		H9C	17-3	1826
80192-04	745								UC2-16
80191-04	746								UC2-15
80192-04	755	C40B	MSCF22-X00		DCB20	90-615	B33		
80191-04	756	C41B	MSCM22-X00		DCB21	90-617	B32		
80193-04	1717-4	C20-42L	MSCP22-000				B20-3BP		
80193-06	1717-6	C20-44L	MSCP23-000				B20-5BP		
1/4" Basic size: ARO									
AIGNEP	MILTON	AMFLO	ARO	COIL HOSE	DIXON	NAPA	PARKER	FOSTER	TOMCO
80192-04	775	C38,C46	210	140	DC38	90-613	B53	210-3303	A100
80191-04	776	C37,C45	210-212		DC37		B50	210-3103	A101
80193-04	776-4	C38-42	210-022		DC3842	90-679	B50-3BP	210-3603	A104
80193-06	776-6	C38-44	210-215		DC3844		B50-5BP	210-3703	A105
80271-04	777	CP37	2608	1401	DCP37	90-618	A2C	210-10	200
80273-04	777-4	CP37-42	3946	1406	DCP3742		A8C	210-16	400
80273-06	777-6	CP37-44	22238		DCP3744			210-17	500
80272-04	778	CP38	2609	1402	DCP38	90-620	A3C	210-11	300
1/4" Basic size: TRU-FLATE									
AIGNEP	MILTON	AMFLO	ARO	COIL HOSE	DIXON	NAPA	PARKER	FOSTER	TOMCO
80291-04	783	CP1	TFPM22-000	1601	DCP1	90-628	2C	TF10	2154
80293-04	783-4	CP1-42	TFPH22-000	1606	DCP142	90-630	8C	TF16	2164
80293-06	783-6	CP1-44	TFPH23-000	1608	DCP143	90-626	9C	TF17	2166
80292-04	784	CP2	TFPH22-000	1602	DCP2	90-600	3C	TF11	2155
80192-04	785	C2	TFCF22-000	160	DC2	90-610	B13	TF3003	A2184
80191-04	786	C1	TFCM22-000	162	DC1	90-607	B12	TF3103	A2181
80193-04	786-4	C2-42	TFCH22-000	163	DC242	90-611	B10-3B	TF3603	A2186
80193-06	786-6	C2-44	TFCH23-000	166	DC244	90-609	B10-5B	TF3703	A2188
80192-06	788	C2-23	TFCF23-000					TF3203	A2185
80191-06	789	C1-03	TFCM23-000		DC103			TF3303	A2182
3/8" Basic size: Industrial									
AIGNEP	MILTON	AMFLO	ARO	COIL HOSE	DIXON	NAPA	PARKER	FOSTER	TOMCO
80195-06	1835	C26	MSCF33-000	580	DC26	90-680	25	4204	T420
80194-06	1836	C25	MSCM33-000	581	DC25	90-682	24	4304	T430
80195-08									T440
80194-08									T450
80231-06	1837	CP25	23903-310	5801	DCP25	90-683	H2E	42-4	T42
80232-06	1838	CP26	23903-300	5802	DCP26	90-681	H3E	43-4	T43
80231-08									T44
80232-08									T45
3/8" Basic size: TRU-FLATE									
AIGNEP	MILTON	AMFLO	ARO	COIL HOSE	DIXON	NAPA	PARKER	FOSTER	TOMCO
80195-06	1805	C6	TFCF33-000	590	DC6	90-654	15	5005	PT420
80194-06	1806	C5	TFCM33-000	591	DC5	90-656	14	5105	PT430
80281-06	1807	CP5	TFPM33-000	5901	DCP5	90-658	2E	TF42	PT42
80282-06	1808	CP6	TFPF33-000	5902	DCP6	90-660	3E	TF43	PT43

TECHNICAL CHARACTERISTICS

Reference Standard

- 1907/2006 REACH ✓
- 2011/65/CE RoHS ✓
- PED 2014/68/UE
- SILICON FREE

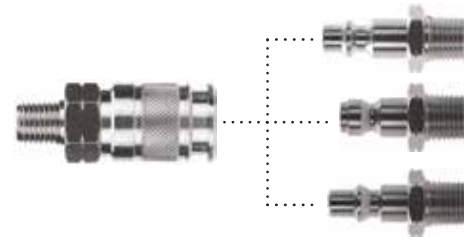
MULTISOCKET
Universal quick disconnect

One socket for 3 different plugs

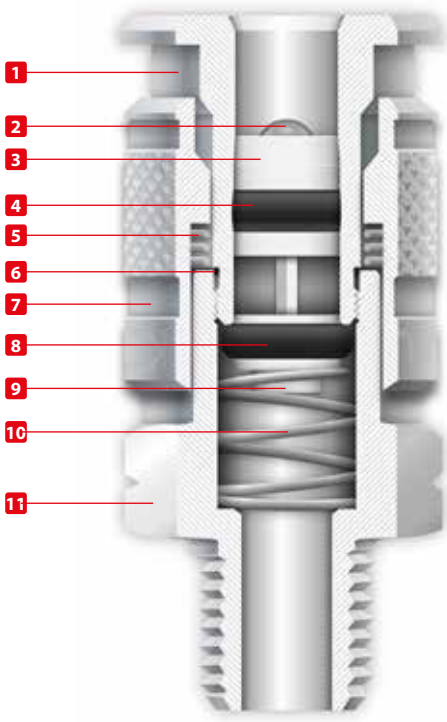
It's a fact that there are various Quick-Disconnect plugs available on the market today. In most cases, each plug needs a specific of coupler that is not interchangeable.

To get around this issue, Aignep is proud to offer to its customers a practical and cost-effective solution.

MULTISOCKET is a universal coupler that works with the 3 main types of QD plugs.



1/4 INDUSTRIAL	ARO	TRU-FLATE
1:1	1:1	1:1
DN 5.5 mm	DN 5.5 mm	DN 5 mm



FKM Available upon request

Pressure Rating

0 ~ 232 PSI
0 bar ~ 16 bar
0 MPa ~ 1.6 MPa

Maximum static pressure

507 PSI
35 bar
3.5 MPa

Temperatures

NBR	FKM
-4° F ~ 176° F	14° F ~ 392° F
-20° C ~ 80° C	-10° C ~ 200° C

Component Parts and Materials

- Nickel Plated Brass Body
- 420 Stainless Steel Ball
- Nickel Plated Brass Guide Ring
- NBR O-Ring Seal
- 302 Stainless Steel Ring Nut Spring
- NBR O-Ring Seal
- Nickel Plated Brass Sleeve
- NBR O-Ring Seal
- Nickel Plated Brass Shutter
- 302 Stainless Steel Shutter Spring
- Nickel Plated Brass Coupler

Threads

NPTF

Media

- Compressed air

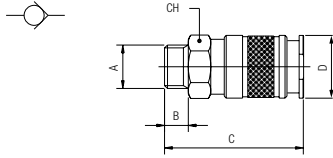
For other fluids, consult the technical department Aignep.

Flow Rate **CFM (NI/min)**

Plug	87 psi	87 psi	87 psi
	Δ 14.5	Δ 7.2	Δ 0 (Exhaust Free)
80220	38.8 (1100)	28.25 (800)	52.97 (1500)
80270	45.9 (1300)	35.31 (1000)	58.27 (1650)
80290	22.95 (650)	16.95 (480)	38.8 (1100)

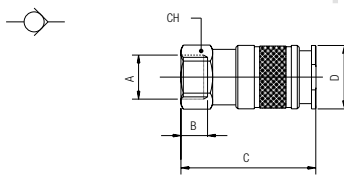
1/4" MULTISOCKET

80191
1/4" MALE NPTF



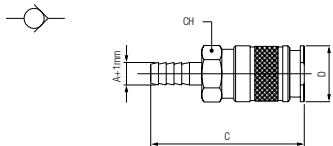
Part No.	A NPTF	B	C	D	CH
80191-04	1/4	.512 (13)	2.126 (54)	.945 (24)	.827 (21)
80191-06	3/8	.512 (13)	2.126 (54)	.945 (24)	.827 (21)
80191-08	1/2	.669 (17)	2.303 (58,5)	.945 (24)	.945 (24)

80192
1/4" FEMALE NPTF



Part No.	A NPTF	B	C	D	CH
80192-04	1/4	.533 (13,5)	2.126 (54)	.945 (24)	.827 (21)
80192-06	3/8	.533 (13,5)	2.126 (54)	.945 (24)	.827 (21)
80192-08	1/2	.689 (17,5)	2.323 (59)	.945 (24)	.945 (24)

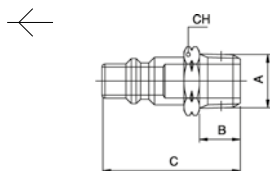
80193
1/4" BARB



Part No.	A NPTF	C	D	CH
80193-04	1/4	2.382 (60,5)	.945 (24)	.827 (21)
80193-06	3/8	2.402 (61)	.945 (24)	.827 (21)
80193-08	1/2	2.402 (61)	.945 (24)	.866 (22)

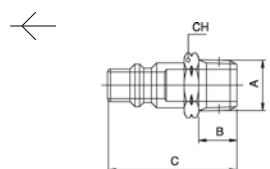
QD PLUGS

80221
1/4" INDUSTRIAL MALE



Part No.	A NPTF	B	C	CH
80221-04	1/4	.512 (13)	1.634 (41,5)	.669 (17)
80221-06	3/8	.512 (13)	1.634 (41,5)	.748 (19)
80221-08	1/2	.669 (17)	1.811 (46)	.866 (22)

80221AC
1/4" INDUSTRIAL MALE (STEEL)

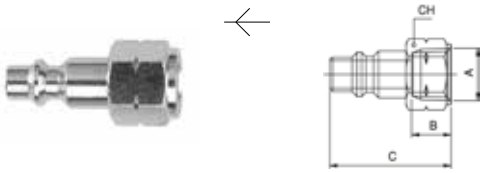


Part No.	A NPTF	B	C	CH
80221AC-04	1/4	.512 (13)	1.634 (41,5)	.669 (17)
80221AC-06	3/8	.512 (13)	1.634 (41,5)	.748 (19)
80221AC-08	1/2	.669 (17)	1.811 (46)	.866 (22)

HARDENED STEEL

80222

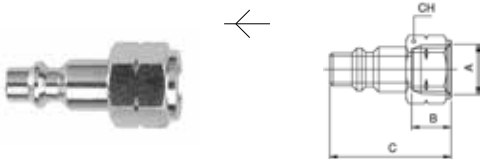
1/4" INDUSTRIAL FEMALE



Part No.	A NPTF	B	C	CH
80222-04	1/4	.531 (13,5)	1.535 (39)	.669 (17)
80222-06	3/8	.531 (13,5)	1.535 (39)	.787 (20)
80222-08	1/2	.689 (17,5)	1.693 (43)	.944 (24)

80222AC

1/4" INDUSTRIAL FEMALE (STEEL)

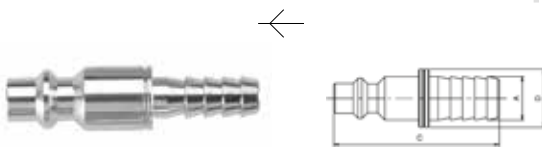


Part No.	A NPTF	B	C	CH
80222AC-04	1/4	.531 (13,5)	1.535 (39)	.669 (17)
80222AC-06	3/8	.531 (13,5)	1.535 (39)	.866 (22)
80222AC-08	1/2	.689 (17,5)	1.693 (43)	.944 (24)

HARDENED STEEL

80223

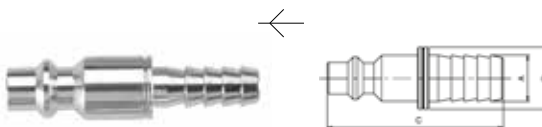
1/4" INDUSTRIAL BARB



Part No.	A NPTF	C	D
80223-04	1/4	1.713 (43,5)	.472 (12)
80223-08	1/2	1.811 (46)	.629 (16)

80223AC

1/4" INDUSTRIAL BARB (STEEL)

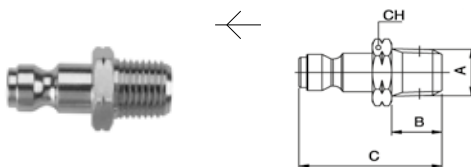


Part No.	A NPTF	C	D
80223AC-04	1/4	1.713 (43,5)	.472 (12)

HARDENED STEEL

80291

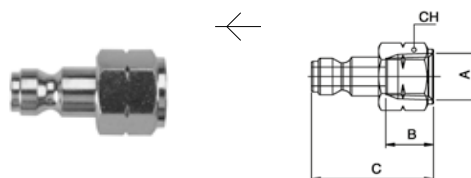
1/4" TRU-FLATE MALE



Part No.	A NPTF	B	C	CH
80291-04	1/4	.512 (13)	1.457 (37)	.669 (17)
80291-06	3/8	.512 (13)	1.457 (37)	.748 (19)
80291-08	1/2	.669 (17)	1.634 (41,5)	.866 (22)

80292

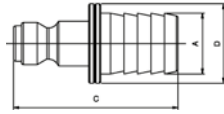
1/4" TRU-FLATE FEMALE



Part No.	A NPTF	B	C	CH
80292-04	1/4	.531 (13,5)	1.358 (34,5)	.669 (17)
80292-06	3/8	.531 (13,5)	1.358 (34,5)	.787 (17)
80292-08	1/2	.689 (17,5)	1.516 (38,5)	.945 (24)

80293

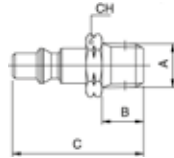
1/4" TRU-FLATE BARB



Part No.	A	B	D
80293-04	1/4	1.634 (41,5)	.472 (12)
80293-06	3/8	1.634 (41,5)	.551 (14)
80293-08	1/2	1.634 (41,5)	.787 (20)

80271

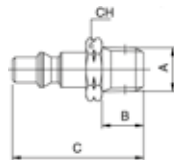
1/4" ARO MALE



Part No.	A NPTF	B	C	CH
80271-04	1/4	.511 (13)	1.574 (40)	.669 (17)
80271-06	3/8	.511 (13)	1.574 (40)	.748 (19)
80271-08	1/2	.669 (17)	1.771 (45)	.866 (22)

80271AC

1/4" ARO MALE (STEEL)

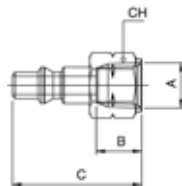


Part No.	A NPTF	B	C	CH
80271AC-04	1/4	.511 (13)	1.574 (40)	.669 (17)

HARDENED STEEL

80272

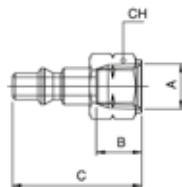
1/4" ARO FEMALE



Part No.	A NPTF	B	C	CH
80272-04	1/4	.531 (13,5)	1.496 (38)	.669 (17)
80272-06	3/8	.531 (13,5)	1.496 (38)	.787 (20)
80272-08	1/2	.689 (17,5)	1.653 (42)	.945 (24)

80272AC

1/4" ARO FEMALE (STEEL)

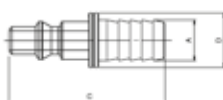


Part No.	A NPTF	C	D	CH
80272AC-04	1/4	.531 (13,5)	1.496 (38)	.669 (17)

HARDENED STEEL

80273

1/4" ARO BARB



Part No.	A	B	D
80273-04	1/4	1.673 (42,5)	.472 (12)
80273-08	1/2	1.791 (45,5)	.787 (20)

TECHNICAL CHARACTERISTICS

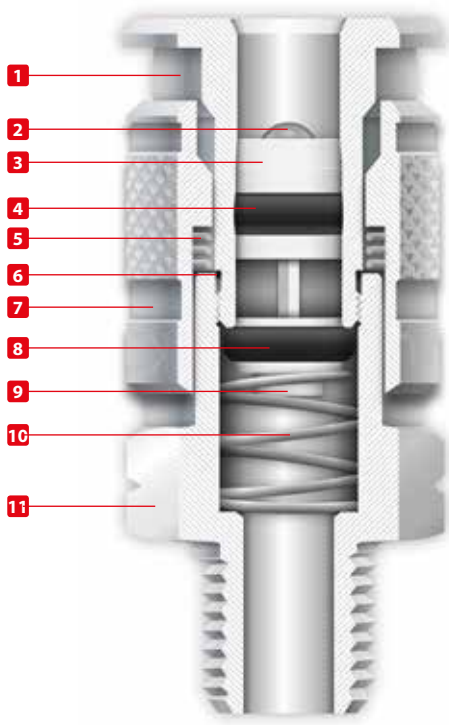
MULTISOCKET
Universal quick disconnect

One socket for 2 different plugs

It's a fact that there are various Quick-Disconnect plugs available on the market today. In most cases, each plug needs a specific of coupler that is not interchangeable.

To get around this issue, Aignep is proud to offer to its customers a practical and cost-effective solution.

MULTISOCKET is a universal coupler that works with the 2 main types of QD plugs.



FKM Available upon request

Pressure Rating
0 ~ 232 PSI
0 bar ~ 16 bar
0 MPa ~ 1.6 MPa

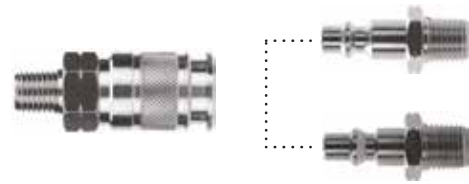
Maximum static pressure
507 PSI
35 bar
3.5 MPa

Temperatures

NBR	FKM
-4° F ~ 176° F	14° F ~ 392° F
-20° C ~ 80° C	-10° C ~ 200° C

Reference Standard

1907/2006 REACH ✓	2011/65/CE RoHS ✓	PED 2014/68/UE	SILICON FREE
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3/8 INDUSTRIAL

DN 9 mm

3/8 TRU-FLATE

DN 9 mm

- Component Parts and Materials**
- 1 Nickel Plated Brass Body
 - 2 420 Stainless Steel Ball
 - 3 Nickel Plated Brass Guide Ring
 - 4 NBR O-Ring Seal
 - 5 302 Stainless Steel Ring Nut Spring
 - 6 NBR O-Ring Seal
 - 7 Nickel Plated Brass Sleeve
 - 8 NBR O-Ring Seal
 - 9 Nickel Plated Brass Shutter
 - 10 302 Stainless Steel Shutter Spring
 - 11 Nickel Plated Brass Coupler

Threads
NPTF

Media
• Compressed air
For other fluids, consult the technical department Aignep.

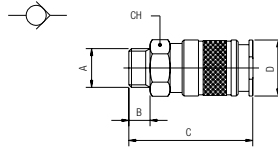
Flow Rate **CFM (NI/min)**

Plug	87 psi Δ 14.5	87 psi Δ 7.2	87 psi Δ 0 (Exhaust Free)
80230	88.2 (2500)	72.3 (2050)	116.5 (3300)
80297	88.2 (2500)	72.3 (2050)	116.5 (3300)

3/8" MULTISOCKET

80194

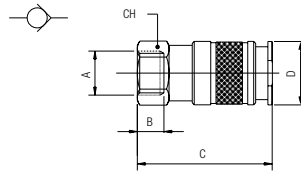
3/8" MALE NPTF



Part No.	A NPTF	B	C	D	CH
80194-06	3/8	.512 (13)	2.342 (59,5)	1.102 (28)	.945 (24)
80194-08	1/2	.669 (17)	2.500 (63,5)	1.102 (28)	.945 (24)

80195

3/8" FEMALE NPTF

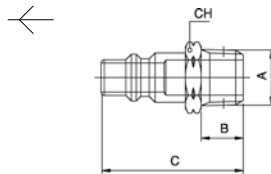


Part No.	A NPTF	B	C	D	CH
80195-06	3/8	.531 (13,5)	2.362 (60)	1.102 (28)	.945 (24)
80195-08	1/2	.689 (17,5)	2.520 (64)	1.102 (28)	.945 (24)

QD PLUGS

80231

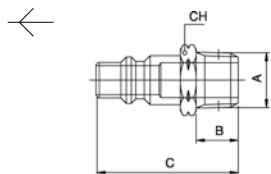
3/8" INDUSTRIAL MALE



Part No.	A NPTF	B	C	CH
80231-06	3/8	.512 (13)	1.732 (44)	.748 (19)
80231-08	1/2	.669 (17)	1.909 (48,5)	.866 (22)

80231AC

3/8" INDUSTRIAL MALE (STEEL)

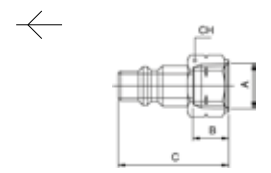


Part No.	A NPTF	B	C	CH
80231AC-06	3/8	.512 (13)	1.732 (44)	.748 (19)
80231AC-08	1/2	.669 (17)	1.909 (48,5)	.866 (22)

HARDENED STEEL

80232

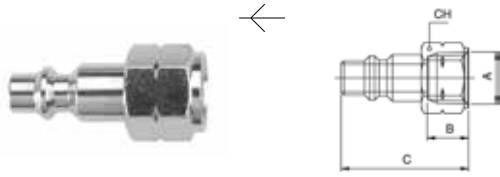
3/8" INDUSTRIAL FEMALE



Part No.	A NPTF	B	C	CH
80232-06	3/8	.531 (13,5)	1.634 (41,5)	.787 (20)
80232-08	1/2	.669 (17)	1.791 (45,5)	.866 (22)

80232AC

3/8" INDUSTRIAL FEMALE (STEEL)

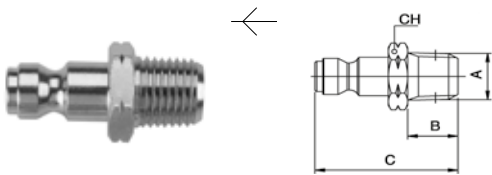


Part No.	A NPTF	B	C	CH
80232AC-06	3/8	.531 (13,5)	1.634 (41,5)	.787 (20)
80232AC-08	1/2	.689 (17,5)	1.791 (45,5)	.945 (24)

HARDENED STEEL

80297

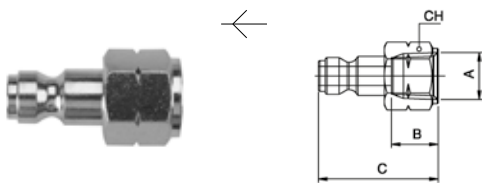
3/8" TRU-FLATE MALE



Part No.	A	B	C	CH
80297-06	3/8	.512 (13)	1.752 (44,5)	.748 (19)
80297-08	1/2	.669 (17)	1.929 (49)	.866 (22)

80298

3/8" TRU-FLATE FEMALE



Part No.	A NPTF	B	C	CH
80298-06	3/8	.531 (13,5)	1.654 (42)	.787 (20)
80298-08	1/2	.689 (17,5)	1.811 (46)	.866 (24)



TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH ✓

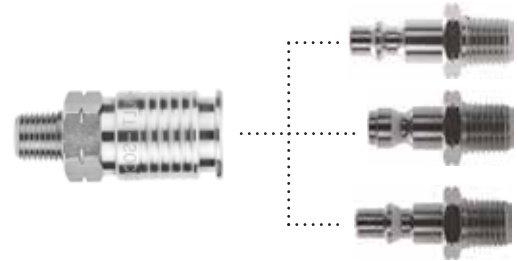
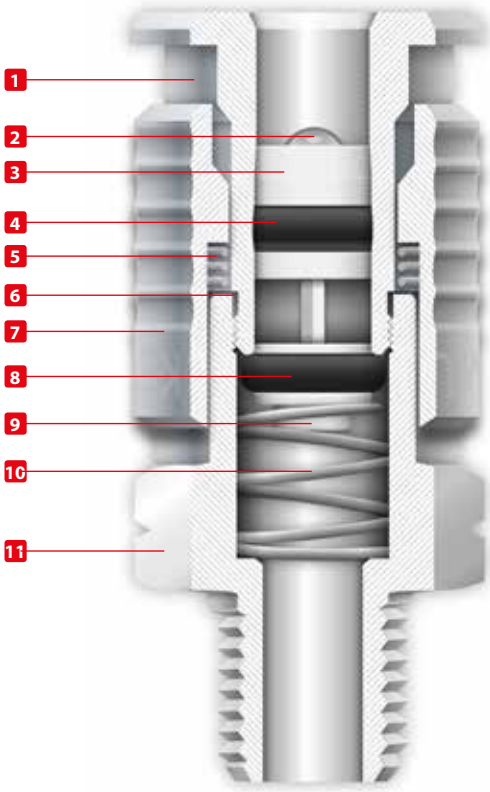
2011/65/CE
RoHS ✓

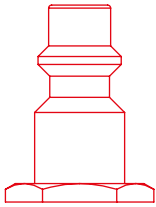
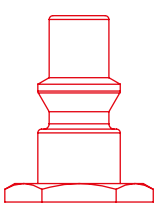




PED
2014/68/UE

SILICON
FREE



MULTISOCKET
Universal quick disconnect



1/4 INDUSTRIAL	ARO	EUROPEAN
		
1:1	1:1	1:1
		
5.5 mm	5.5 mm	7.8 mm



Pressure Rating

0 PSI ~ 232 PSI
0 bar ~ 16 bar
0 MPa ~ 1.6 MPa

Maximum static pressure

507 PSI
35 bar
3.5 MPa



Component Parts and Materials

- 1 316 Stainless Steel Body
- 2 420 Stainless Steel Ball
- 3 316 Stainless Steel Guide Ring
- 4 FKM O-Ring Seal
- 5 302 Stainless Steel Ring Nut Spring
- 6 FKM O-Ring Seal
- 7 316 Stainless Steel Sleeve
- 8 FKM O-Ring Seal
- 9 316 Stainless Steel Shutter
- 10 302 Stainless Steel Shutter Spring
- 11 316 Stainless Steel Coupler



Temperature Rating

FKM
5° F ~ 392° F
-15° C ~ 200° C



Threads

SWIFTFIT
Universal thread
NPTF



Media

- Compressed air
- Fluid for food and chemical industry compatible with all components.



Flow Rate

CFM (NI/min)

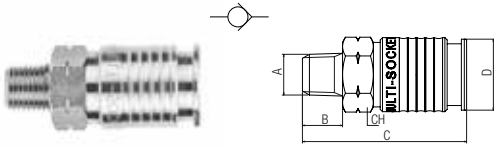
Plug	87 psi Δ 14.5	87 psi Δ 7.2	87 psi Δ 0 (Exhaust Free)
	1/4 INDUSTRIAL	88.2 (2500)	72.3 (2050)
EUROPEAN	53.32 (1510)	42.38 (1200)	79.45 (2250)

1/4" Multisocket Stainless steel

83191
1/4" MALE NPTF 316L
(STAINLESS)



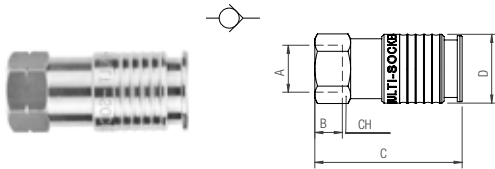
Part No.	A NPTF	B	C	D	CH
83191-04	1/4	.511 (13)	2.086 (53)	.945 (24)	.827 (21)



83192
1/4" FEMALE NPTF 316L
(STAINLESS)



Part No.	A NPTF	B	C	D	CH
83192-04	1/4	.533 (13,5)	2.066 (52,5)	.945 (24)	.827 (21)

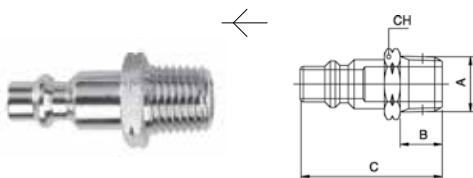


1:1

83221
1/4 INDUSTRIAL MALE 316L (STAINLESS)



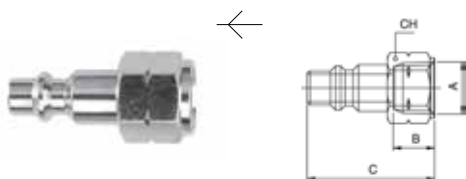
Part No.	A NPTF	B	C	CH
83221-04	1/4	.512 (13)	1.633 (41)	.669 (17)



83222
1/4 INDUSTRIAL FEMALE 316L (STAINLESS)

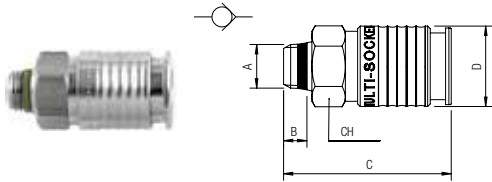


Part No.	A NPTF	B	C	CH
83222-04	1/4	.533 (13,5)	1.535 (39)	.669 (17)



63190

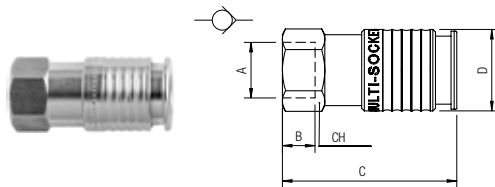
1/4" MALE NPTF 316L
(STAINLESS)



Part No.	A	B	C	D	CH
63190-04	1/4	.276 (7)	1.969 (50)	.945 (24)	.827 (21)
63190-06	3/8	.295 (7,5)	1.988 (50,5)	.945 (24)	.827 (21)
63190-08	1/2	.354 (9)	2.047 (52)	.945 (24)	.827 (21)

63192

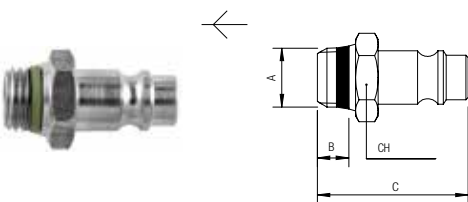
1/4" FEMALE BSPP 316L
(STAINLESS)



Part No.	A	B	C	D	CH
63192-04	1/4	.433 (11)	2.028 (51,5)	.945 (24)	.827 (21)
63192-06	3/8	.453 (11,5)	2.047 (52)	.945 (24)	.827 (21)
63192-08	1/2	.591 (15)	2.224 (56,5)	.945 (24)	.945 (24)

63260 DN 7.8

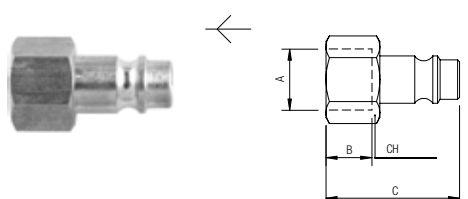
MALE PLUG EUROPEAN PROFILE



Part No.	A	B	C	CH
63260-04	1/4	.276 (7)	1.319 (33,5)	.669 (17)
63260-06	3/8	.295 (7,5)	1.339 (34)	.748 (19)
63260-08	1/2	.354 (9)	1.417 (36)	.945 (24)

63262 DN 7.8

FEMALE PLUG EUROPEAN PROFILE



Part No.	A	B	C	CH
63262-04	1/4	.433 (11)	1.299 (33)	.669 (17)
63262-06	3/8	.453 (11,5)	1.319 (33,5)	.748 (19)
63262-08	1/2	.591 (15)	1.457 (37)	.945 (24)



TECHNICAL CHARACTERISTICS



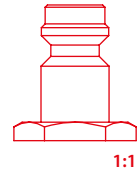
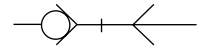
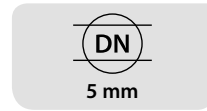
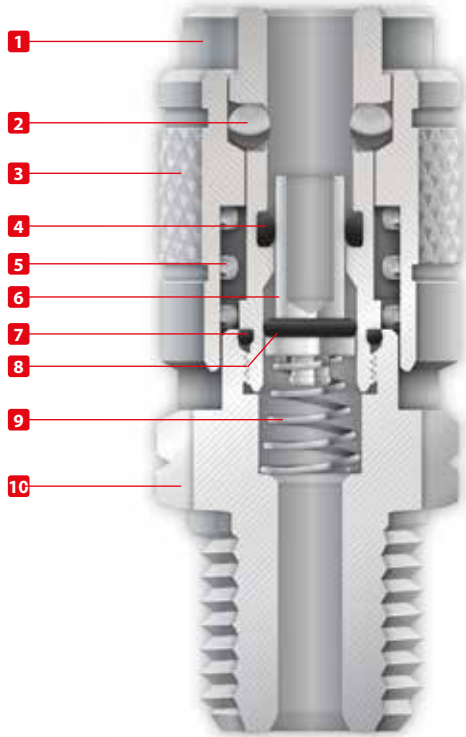
Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE



FKM Available upon request



Pressures

0 PSI ~ 232 PSI
0 bar ~ 16 bar
0 MPa ~ 1.6 MPa

Maximum static pressure

507 PSI
35 bar
3.5 MPa



Component Parts and Materials

- 1 Nickel Plated Brass Body
- 2 420 Stainless Steel Ball
- 3 Nickel Plated Brass Sleeve
- 4 NBR O-Ring Seal
- 5 302 Stainless Steel Ring Nut Spring
- 6 Nickel Plated Brass Shutter
- 7 NBR O-Ring Seal
- 8 NBR O-Ring Seal
- 9 302 Stainless Steel Shutter Spring
- 10 Nickel Plated Brass Coupler



Temperature Rating

NBR

-4° F ~ 176° F
-20° C ~ 80° C

FKM

14° F ~ 392° F
-10° C ~ 200° C



Threads

NPTF



Media

- Compressed air
- For other fluids, consult the technical department Aignep.



Flow Rate

CFM (NI/min)

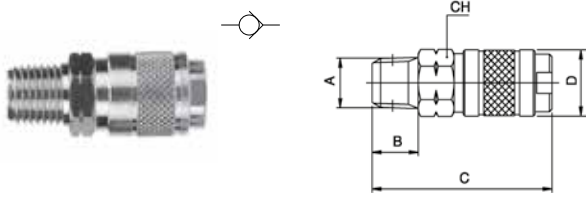
87 psi Δ 14.5	87 psi Δ 7.2	87 psi Δ 0 (Exhaust Free)
8.48 (240)	6.71 (190)	11.3 (320)

80111

AC MINI MALE

NPTF

Part No.	A NPTF	B	C	D	CH
80111-02	1/8	.335 (8,5)	1.496 (38)	.709 (18)	.630 (16)
80111-04	1/4	.512 (13)	1.673 (42,5)	.709 (18)	.630 (16)
80111-06	3/8	.512 (13)	1.673 (42,5)	.709 (18)	.751 (19)

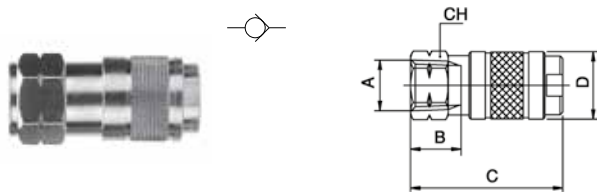


80112

AC MINI FEMALE

NPTF

Part No.	A NPTF	B	C	D	CH
80112-02	1/8	.335 (8,5)	1.457 (37)	.709 (18)	.630 (16)
80112-04	1/4	.531 (13,5)	1.614 (41)	.709 (18)	.669 (17)
80112-06	3/8	.531 (13,5)	1.614 (41)	.709 (18)	.787 (20)

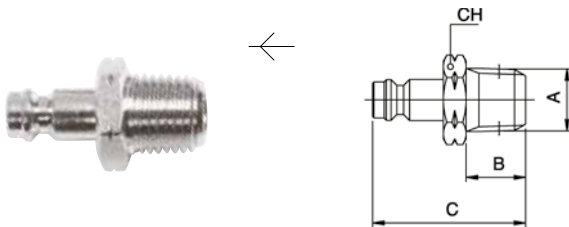


80211

AC MINI MALE PLUG

NPTF

Part No.	A NPTF	B	C	CH
80211-02	1/8	.335 (8,5)	1.122 (28,5)	.551 (14)
80211-04	1/4	.512 (13)	1.319 (33,5)	.669 (17)
80211-06	3/8	.512 (13)	1.319 (33,5)	.748 (19)

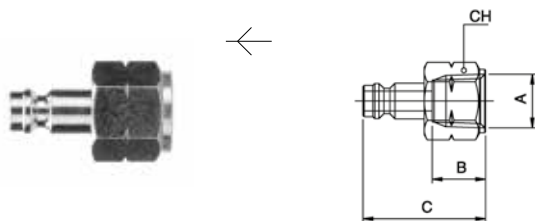


80212

AC MINI FEMALE PLUG

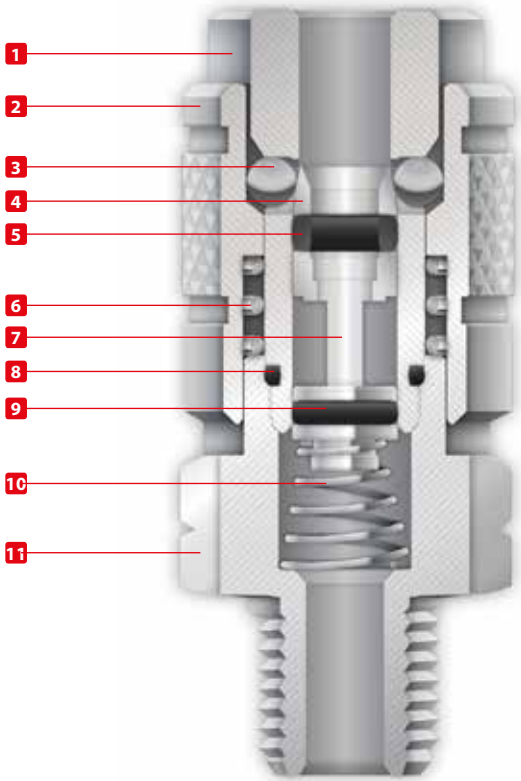
NPTF

Part No.	A NPTF	B	C	CH
80212-02	1/8	.374 (9,5)	1.063 (27)	.551 (14)
80212-04	1/4	.531 (13,5)	1.220 (31)	.669 (17)
80212-06	3/8	.531 (13,5)	1.220 (31)	.787 (20)





TECHNICAL CHARACTERISTICS



FKM Available upon request



Reference Standard

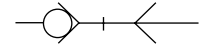
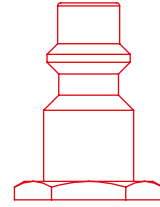
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON FREE

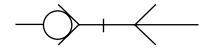
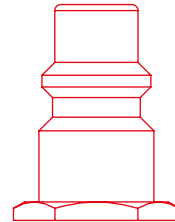
1/4 INDUSTRIAL



1:1

DN
5.5 mm

3/8 INDUSTRIAL



1:1

DN
9 mm



Pressure Rating

0 PSI ~ 232 PSI
0 bar ~ 16 bar
0 MPa ~ 1.6 MPa

Maximum static pressure

507 PSI
35 bar
3.5 MPa



Component Parts and Materials

- 1 Nickel Plated Brass Body
- 2 Nickel Plated Brass Sleeve
- 3 420 Stainless Steel Ball
- 4 Nickel Plated Brass Guide Ring
- 5 NBR O-Ring Seal
- 6 302 Stainless Steel Ring Nut Spring
- 7 Nickel Plated Brass Shutter
- 8 NBR O-Ring Seal
- 9 NBR O-Ring Seal
- 10 302 Stainless Steel Shutter Spring
- 11 Nickel Plated Brass Coupler



Temperature Rating

NBR	FKM
-4° F ~ 176° F	14° F ~ 392° F
-20° C ~ 80° C	-10° C ~ 200° C



Threads

NPTF



Media

- Compressed air
- For other fluids, consult the technical department Aignep.



Flow Rate

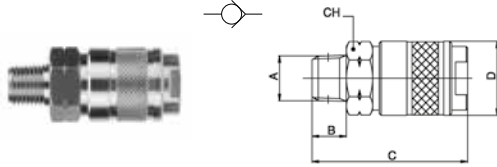
CFM (NI/min)

Plug	87 psi Δ 14.5	87 psi Δ 7.2	87 psi Δ 0 (Exhaust Free)
1/4 IND.	38.8 (1100)	28.25 (800)	52.97 (1500)
3/8 IND.	88.28 (2500)	72.39 (2050)	116.53 (3300)

1/4" INDUSTRIAL INTERCHANGE

80121

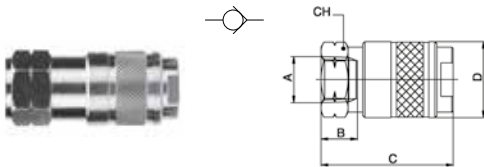
1/4" INDUSTRIAL MALE



Part No.	A NPTF	B	C	D	CH
80121-04	1/4	.512 (13)	2.224 (56,5)	.945 (24)	.827 (21)
80121-06	3/8	.512 (13)	2.224 (56,5)	.945 (24)	.827 (21)
80121-08	1/2	.669 (17)	2.402 (61)	.945 (24)	.945 (24)

80122

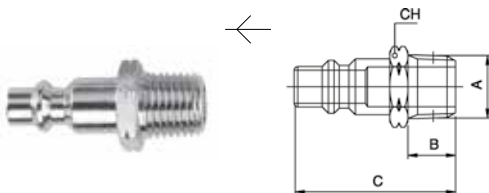
1/4" INDUSTRIAL FEMALE



Part No.	A NPTF	B	C	D	CH
80122-04	1/4	.531 (13,5)	2.205 (56)	.945 (24)	.827 (21)
80122-06	3/8	.531 (13,5)	2.205 (56)	.945 (24)	.827 (21)
80122-08	1/2	.689 (17,5)	2.421 (61,5)	.945 (24)	.945 (24)

80221

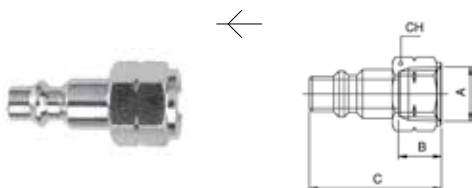
1/4" INDUSTRIAL MALE PLUG



Part No.	A NPTF	B	C	CH
80221-04	1/4	.512 (13)	1.634 (41,5)	.669 (17)
80221-06	3/8	.512 (13)	1.634 (41,5)	.748 (19)
80221-08	1/2	.669 (17)	1.811 (46)	.866 (22)

80222

1/4" INDUSTRIAL FEMALE PLUG



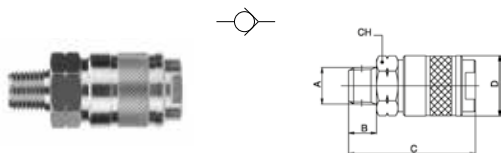
Part No.	A NPTF	B	C	CH
80222-04	1/4	.531 (13,5)	1.535 (39)	.669 (17)
80222-06	3/8	.531 (13,5)	1.535 (39)	.787 (20)
80222-08	1/2	.689 (17,5)	1.693 (43)	.944 (24)

3/8" INDUSTRIAL INTERCHANGE

80131

3/8" INDUSTRIAL MALE

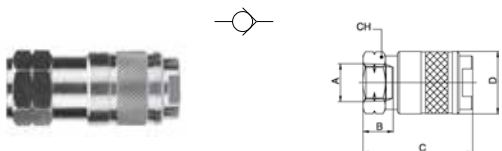
Part No.	A NPTF	B	C	D	CH
80131-06	3/8	.512 (13)	2.362 (60)	1.102 (28)	.945 (24)
80131-08	1/2	.669 (17)	2.4802 (63)	1.102 (28)	.945 (24)



80132

3/8" INDUSTRIAL FEMALE

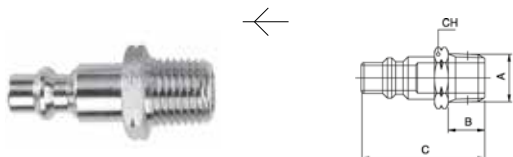
Part No.	A NPTF	B	C	D	CH
80132-06	3/8	.531 (13,5)	2.343 (59,5)	1.102 (28)	.945 (24)
80132-08	1/2	.689 (17,5)	2.500 (63,5)	1.102 (28)	.945 (24)



80231

3/8" INDUSTRIAL MALE PLUG

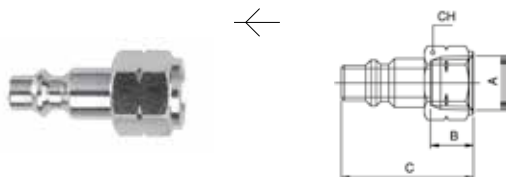
Part No.	A NPTF	B	C	CH
80231-06	3/8	.512 (13)	1.732 (44)	.748 (19)
80231-08	1/2	.669 (17)	1.909 (48,5)	.866 (22)



80232

3/8" INDUSTRIAL FEMALE PLUG

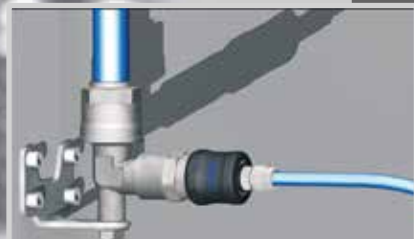
Part No.	A NPTF	B	C	CH
80232-06	3/8	.531 (13,5)	1.634 (41,5)	.787 (20)
80232-08	1/2	.689 (17,5)	1.791 (45,5)	.945 (24)



QUICK DISCONNECT SAFETY COUPLERS



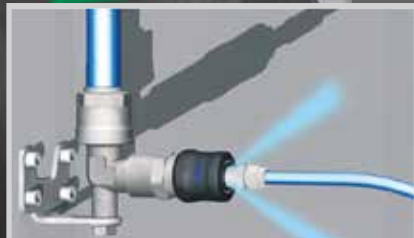
Connect the plug



Quick coupling is working



Push the sleeve ahead and leave the hand



Air is exhausting completely



Remove the plug

Safety Couplers



TECHNICAL CHARACTERISTICS



Reference Standard

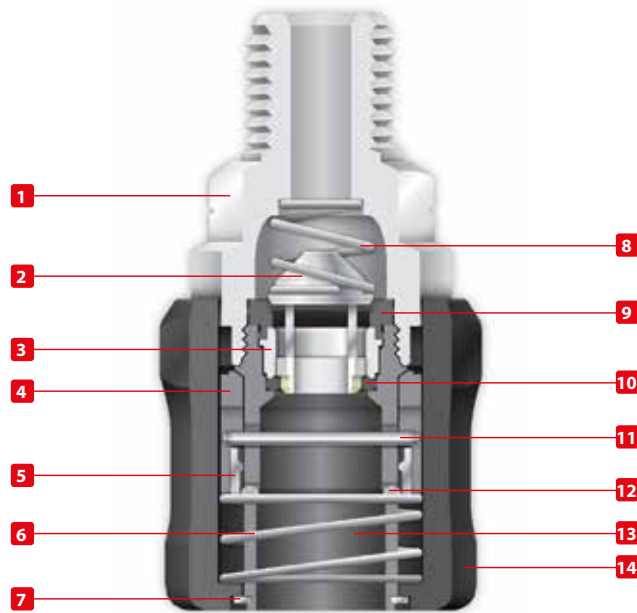
1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE

ISO
4414



Pressure Rating

Vacuum ~ 217 PSI
-0.99 bar ~ 15 bar
-0.099 MPa ~ 1.5 MPa



Temperature Rating

-4° F ~ 176° F
-20° C ~ 80° C



Media

• Compressed air



Threads

Parallel gas in conformity with ISO 228 Class A



Component Parts and Materials

- 1 Nickel Plated Brass Coupler
- 2 Nickel Plated Brass Shutter
- 3 Nickel Plated Brass Ring
- 4 Nylon Trailing Pin Ring
- 5 Stainless Steel Restraining Ball Ring
- 6 Stainless Steel Spring
- 7 Stainless Steel Shaft Clip
- 8 Stainless Steel Shutter Spring
- 9 NBR O-Ring Seal
- 10 NBR O-Ring Seal
- 11 Stainless Steel Pin
- 12 Stainless Steel Ball
- 13 Nylon Body
- 14 Nylon Sleeve

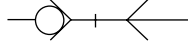


Flow Rate

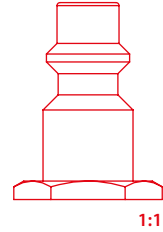
CFM (NI/min)

Part No.	87 psi Δ 14.5	87 psi Δ 7.2	87 psi Δ 0 (Exhaust Free)
80220AC	33.55 (950)	24.72 (700)	49.44 (1400)

SAFETY COUPLERS



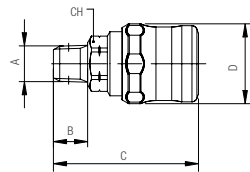
1/4 INDUSTRIAL



80621
MALE SAFETY COUPLER

NPTF

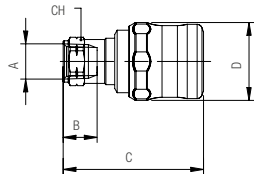
Part No.	A NPTF	B	C	D	CH
80621-04	1/4	.512 (13)	2.173 (55)	1.200 (30,5)	.748 (19)
80621-06	3/8	.512 (13)	2.173 (55)	1.200 (30,5)	.748 (19)
80621-08	1/2	.669 (17)	2.322 (59)	1.200 (30,5)	.866 (22)



80622
FEMALE SAFETY COUPLER

NPTF

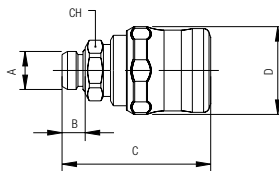
Part No.	A NPTF	B	C	D	CH
80622-04	1/4	.531 (13,5)	2.165 (55)	1.200 (30,5)	.669 (17)
80622-06	3/8	.531 (13,5)	2.146 (54,5)	1.200 (30,5)	.787 (20)
80622-08	1/2	.689 (17,5)	2.323 (59)	1.200 (30,5)	.945 (24)



621
MALE SAFETY COUPLER

G-THREAD

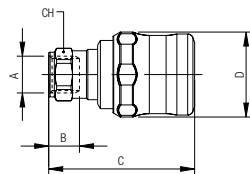
Part No.	A	B	C	L	CH
621-04	1/4	.512 (13)	2.173 (55)	1.200 (30,5)	.748 (19)
621-06	3/8	.512 (13)	2.173 (55)	1.200 (30,5)	.787 (20)
621-08	1/2	.512 (13)	2.173 (55)	1.200 (30,5)	.984 (25)



622
FEMALE SAFETY COUPLER

G-THREAD

Part No.	A	B	C	L	CH
622-04	1/4	.531 (13,5)	2.165 (55)	1.200 (30,5)	.669 (17)
622-06	3/8	.531 (13,5)	2.146 (54,5)	1.200 (30,5)	.787 (20)
622-08	1/2	.689 (17,5)	2.323 (59)	1.200 (30,5)	.945 (24)



80221AC

1/4 INDUSTRIAL MALE (STEEL)

NPTF

Part No.	A NPTF	B	C	CH
80221AC-04	1/4	.512 (13)	1.634 (41,5)	.669 (17)
80221AC-06	3/8	.512 (13)	1.634 (41,5)	.748 (19)
80221AC-08	1/2	.669 (17)	1.811 (46)	.866 (22)

HARDENED STEEL



80222AC

1/4 INDUSTRIAL FEMALE (STEEL)

NPTF

Part No.	A NPTF	B	C	CH
80222AC-04	1/4	.531 (13,5)	1.535 (39)	.669 (17)
80222AC-06	3/8	.531 (13,5)	1.535 (39)	.866 (22)
80222AC-08	1/2	.689 (17,5)	1.693 (43)	.944 (24)

HARDENED STEEL



80225AC

1/4" INDUSTRIAL BARB (STEEL)

NPTF

Part No.	A NPTF	C	D
80225AC-04	1/4	1.713 (43,5)	.472 (12)

HARDENED STEEL

