

								
87000 Pg. 1.5	88020 Pg. 1.5	87010 Pg. 1.5	87010 Pg. 1.5	87110 Pg. 1.6	88115 Pg. 1.6	87111 Pg. 1.6	87116 Pg. 1.7	87210 Pg. 1.7
								
88215 Pg. 1.7	87211 Pg. 1.8	87216 Pg. 1.8	87222 Pg. 1.8	88225 Pg. 1.9	87223 Pg. 1.9	87226 Pg. 1.9	87007 Pg. 1.10	87117 Pg. 1.10
								
88000 Pg. 1.10	88030 Pg. 1.10	88055 Pg. 1.11	88100 Pg. 1.11	88105 Pg. 1.11	88106 Pg. 1.11	88110 Pg. 1.12	88111 Pg. 1.12	88210 Pg. 1.13
								
88211 Pg. 1.13	88222 Pg. 1.13	88223 Pg. 1.14	88040 Pg. 1.14	88050 Pg. 1.14	88130 Pg. 1.14	88230 Pg. 1.15	88310 Pg. 1.15	88500 Pg. 1.16
								
88510 Pg. 1.16	81410 Pg. 1.16	81420 Pg. 1.16	81430 Pg. 1.17	88610 Pg. 1.17	88700 Pg. 1.17	50980 Pg. 1.17	87800 Pg. 1.18	55801 Pg. 1.18
								
55802 Pg. 1.18								

Fitting kits

				
87861-02 Pg. 1.19	87861-04 Pg. 1.19	87861-06 Pg. 1.19	87861-08 Pg. 1.20	87861-90 Pg. 1.20

Click here to view the **87000 - 88000 Series** on our Website 

PUSH-TO-CONNECT FITTINGS



87 - 88 Series



TECHNICAL CHARACTERISTICS



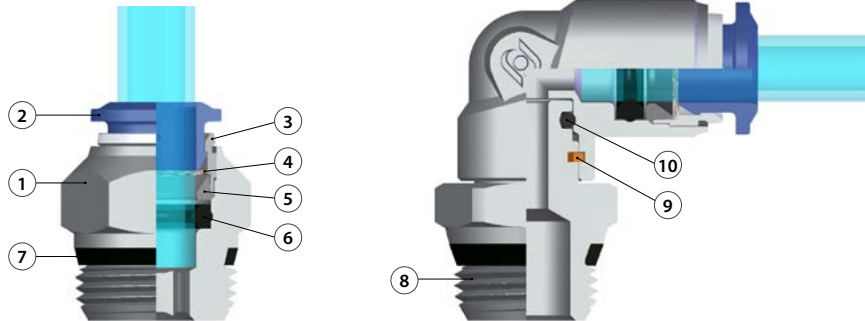
Standard Reference

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

ISO
14743:2020

SILICON
FREE


Component Parts and Materials

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



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
- Steam (FKM required)



Tubing Compatibility

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



One fitting... Endless possibilities

NPT
NPTF
TAPERED

ISO 7
BSPP - PF
PARALLELL

ISO 7
BSPT - PT
TAPERED

ISO 228
BSP
PARALLELL



INCLINED



CONCAVE



CONVEX

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

All SWIFTFIT fittings have been equipped with threads and an NBR thread seal that will universally connect to all thread types.
Our SWIFTFIT universal fittings also work on non-flat surfaces without compromising its air-tight seal.



UNF Threads

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



PTF Threads

Standard USA design. PTF/SAE 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.

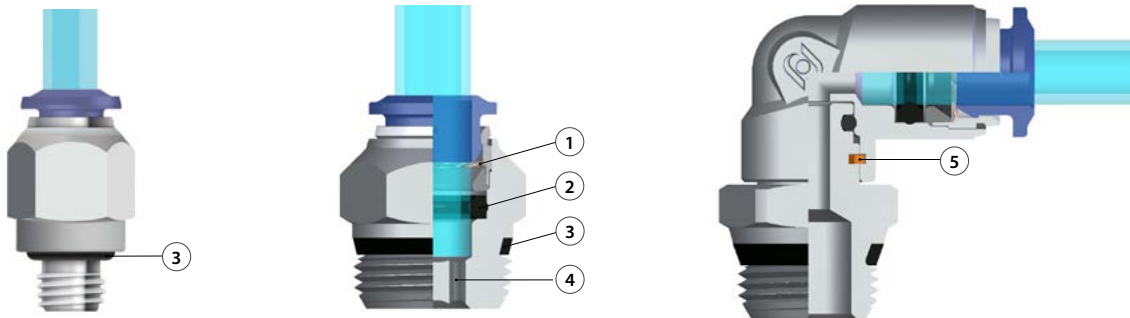


Torque Specifications

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



Advantages

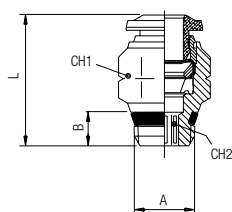


Advantages

- 1 The washer is made in stainless steel ensures the perfect tube clamping with every Kinds of materials without damage the surface. The connection between the tube and the fitting ensure a total tightness even in severe conditions such as impact and vibrations.
- 2 The particular geometric shape of the seal ensure the perfect tightness even with vacuum.
- 3 All of threads from this range have been equipped with tightening parts which allow the direct assembly of the fittings, reducing the installation time.
- 4 All the straight fittings can be assembled also with Allen wrench and it is possible to use them in reduced spaces.
- 5 Orienting fitting with safety ring Inside. Improved durability to the rotation and traction.

87000

STRAIGHT MALE

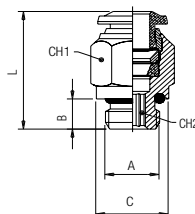


Code	Usa Ref	Tube	A	B	C	L	CH1	CH2	Pack
87000 00 001	87000-02-02	1/8	1/8	.217 (5,5)	-	.650 (16,5)	.433 (11)	.079 (2)	10
87000 00 002	87000-02-04	1/8	1/4	.276 (7)	-	.728 (18,5)	.551 (14)	.079 (2)	10
87000 00 003	87000-53-02	5/32 (4)	1/8	.217 (5)	-	.708 (18)	.433 (11)	.118 (3)	10
87000 00 004	87000-53-04	5/32 (4)	1/4	.276 (7)	-	.767 (19,5)	.551 (14)	.118 (3)	10
87000 00 005	87000-04-02	1/4	1/8	.217 (5)	-	.866 (22)	.512 (13)	.157 (4)	10
87000 00 006	87000-04-04	1/4	1/4	.276 (7)	-	.826 (21)	.551 (14)	.157 (4)	10
87000 00 007	87000-04-06	1/4	3/8	.295 (7,5)	-	.826 (21)	.669 (17)	.157 (4)	10
87000 00 008	87000-05-02	5/16 (8)	1/8	.217 (5)	-	.964 (24,5)	.551 (14)	.197 (5)	10
87000 00 009	87000-05-04	5/16 (8)	1/4	.276 (7)	-	.866 (22)	.551 (14)	.236 (6)	10
87000 00 010	87000-05-06	5/16 (8)	3/8	.295 (7,5)	-	.905 (23)	.669 (17)	.236 (6)	10
87000 00 011	87000-06-02	3/8	1/8	.217 (5)	-	1.122 (28,5)	.669 (17)	.197 (5)	10
87000 00 012	87000-06-04	3/8	1/4	.276 (7)	-	1.122 (28,5)	.669 (17)	.276 (6)	10
87000 00 013	87000-06-06	3/8	3/8	.295 (7,5)	-	1.043 (26,5)	.669 (17)	.276 (6)	10
87000 00 014	87000-06-08	3/8	1/2	.354 (9)	-	1.043 (26,5)	.827 (21)	.276 (6)	10
87000 00 018	87000-08-02	1/2	1/8	.217 (5)	-	1.299 (33)	.787 (20)	.197 (5)	10
87000 00 015	87000-08-04	1/2	1/4	.276 (7)	-	1.299 (33)	.787 (20)	.197 (5)	10
87000 00 016	87000-08-06	1/2	3/8	.295 (7,5)	-	1.259 (32)	.787 (20)	.354 (9)	10
87000 00 017	87000-08-08	1/2	1/2	.354 (9)	-	1.259 (32)	.827 (21)	.394 (10)	10

88020

STRAIGHT MALE

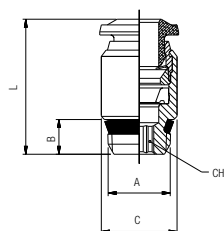
UNF



Code	Usa Ref	Tube	A	B	C	L	CH1	CH2	Pack
88020 00 001	88020-02-32	1/8	10/32	.157 (4)	.310 (8)	.787 (18)	.315 (8)	.079 (2)	10
88020 00 002	88020-53-32	5/32 (4)	10/32	.157 (4)	.310 (8)	.827 (21)	.394 (10)	.079 (2)	10
88020 00 003	88020-04-32	1/4	10/32	.157 (4)	.390 (10)	.925 (23,5)	.512 (13)	.079 (2)	10

87010

STRAIGHT MALE WITH INTERNAL HEX

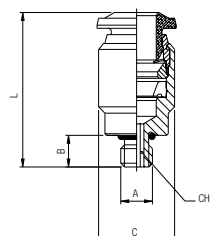


Code	Usa Ref	Tube	A	B	C	L	CH	Pack
87010 00 003	87010-53-02	5/32 (4)	1/8	.217 (5)	.374 (9,5)	.709 (18)	.118 (3)	10
87010 00 005	87010-04-02	1/4	1/8	.217 (5)	.473 (12)	.846 (21,5)	.157 (4)	10
87010 00 006	87010-04-04	1/4	1/4	.276 (7)	.551 (14)	.846 (21,5)	.157 (4)	10

87010

STRAIGHT MALE WITH INTERNAL HEX

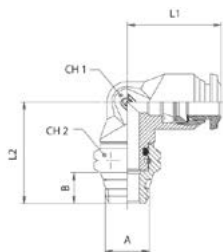
UNF



Code	Usa Ref	Tube	A	B	C	L	CH	Pack
87010 00 001	87010-02-32	1/8	10/32	.157 (4)	.315 (8)	.709 (18)	.098 (2,5)	10
87010 00 002	87010-53-32	5/32 (4)	10/32	.157 (4)	.394 (10)	.787 (20)	.098 (2,5)	10
87010 00 004	87010-04-32	1/4	10/32	.157 (4)	.473 (12)	.925 (23,5)	.098 (2,5)	10

87110

SWIVEL ELBOW



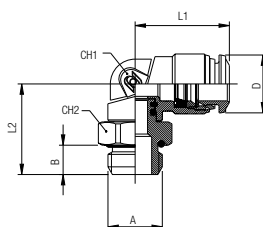
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87110 00 001	87110-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.846 (21,5)	.354 (9)	.512 (13)	-	10
87110 00 002	87110-02-04	1/8	1/4	.276 (7)	.669 (17)	1.004 (25,5)	.354 (9)	.591 (15)	-	10
87110 00 003	87110-53-02	5/32 (4)	1/8	.217 (5,5)	.709 (18)	.846 (21,5)	.354 (9)	.512 (13)	-	10
87110 00 004	87110-53-04	5/32 (4)	1/4	.276 (7)	.709 (18)	1.004 (25,5)	.354 (9)	.591 (15)	-	10
87110 00 005	87110-04-02	1/4	1/8	.217 (5,5)	.846 (21,5)	.925 (23,5)	.433 (11)	.512 (13)	-	10
87110 00 006	87110-04-04	1/4	1/4	.276 (7)	.846 (21,5)	.925 (23,5)	.433 (11)	.591 (15)	-	10
87110 00 007	87110-04-06	1/4	3/8	.295 (7,5)	.846 (21,5)	1.083 (27,5)	.433 (11)	.669 (17)	-	10
87110 00 008	87110-05-02	5/16 (8)	1/8	.217 (5,5)	.906 (23)	.984 (25)	.512 (13)	.512 (13)	-	10
87110 00 009	87110-05-04	5/16 (8)	1/4	.276 (7)	.906 (23)	1.083 (27,5)	.512 (13)	.591 (15)	-	10
87110 00 010	87110-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	1.102 (28)	.512 (13)	.669 (17)	-	10
87110 00 011	87110-06-02	3/8	1/8	.217 (5,5)	1.063 (27)	1.083 (27,5)	.630 (16)	.512 (13)	-	10
87110 00 012	87110-06-04	3/8	1/4	.276 (7)	1.063 (27)	1.161 (29,5)	.630 (16)	.591 (15)	-	10
87110 00 013	87110-06-06	3/8	3/8	.295 (7,5)	1.063 (27)	1.181 (30)	.630 (16)	.669 (17)	-	10
87110 00 014	87110-06-08	3/8	1/2	.354 (9)	1.063 (27)	1.299 (33)	.630 (16)	.827 (21)	-	10
87110 00 015	87110-08-04	1/2	1/4	.276 (7)	1.240 (31,5)	1.299 (33)	.748 (19)	.591 (15)	-	10
87110 00 016	87110-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.299 (33)	.748 (19)	.669 (17)	-	10
87110 00 017	87110-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.417 (36)	.748 (19)	.827 (21)	-	10

WHILE SUPPLY LAST

88115

SWIVEL ELBOW

UNF



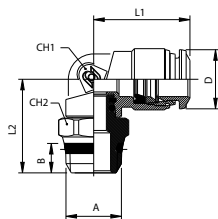
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
88115 00 001	87110-02-32	1/8	10/32	.157 (4)	.650 (16,5)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
88115 00 002	87110-53-32	5/32 (4)	10/32	.157 (4)	.709 (18)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
88115 00 003	87110-04-32	1/4	10/32	.157 (4)	.846 (21,5)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)	10

WHILE SUPPLY LAST

87111

SWIVEL ELBOW

New



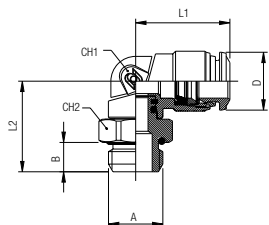
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87111 00 001	87111-02-02	1/8	1/8	.217 (5,5)	.650 (16,5)	.768 (19,5)	.354 (9)	.511 (13)	.394 (10)	10
87111 00 002	87111-02-04	1/8	1/4	.276 (7)	.650 (16,5)	.827 (21)	.354 (9)	.591 (15)	.394 (10)	10
87111 00 003	87111-53-02	5/32 (4)	1/8	.217 (5,5)	.708 (18)	.768 (19,5)	.354 (9)	.511 (13)	.394 (10)	10
87111 00 004	87111-53-04	5/32 (4)	1/4	.276 (7)	.708 (18)	.827 (21)	.354 (9)	.591 (15)	.394 (10)	10
87111 00 005	87111-04-02	1/4	1/8	.217 (5,5)	.827 (21)	.846 (21,5)	.433 (11)	.511 (13)	.493 (12,5)	10
87111 00 006	87111-04-04	1/4	1/4	.276 (7)	.827 (21)	.906 (23)	.433 (11)	.591 (15)	.493 (12,5)	10
87111 00 007	87111-04-06	1/4	3/8	.295 (7,5)	.827 (21)	.926 (23,5)	.433 (11)	.669 (17)	.493 (12,5)	10
87111 00 008	87111-05-02	5/16 (8)	1/8	.217 (5,5)	.886 (22,5)	.945 (24)	.472 (12)	.511 (13)	.571 (14,5)	10
87111 00 009	87111-05-04	5/16 (8)	1/4	.276 (7)	.886 (22,5)	.945 (24)	.472 (12)	.591 (15)	.571 (14,5)	10
87111 00 010	87111-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	.965 (24,5)	.472 (12)	.669 (17)	.571 (14,5)	10
87111 00 018	87111-05-08	5/16 (8)	1/2	.354 (9)	.886 (22,5)	1.063 (27)	.472 (12)	.511 (13)	.571 (14,5)	10
87111 00 011	87111-06-02	3/8	1/8	.217 (5,5)	1.043 (26,5)	1.023 (26)	.551 (14)	.551 (14)	.669 (17,5)	10
87111 00 012	87111-06-04	3/8	1/4	.276 (7)	1.043 (26,5)	1.122 (28,5)	.551 (14)	.630 (16)	.669 (17,5)	10
87111 00 013	87111-06-06	3/8	3/8	.295 (7,5)	1.043 (26,5)	1.102 (28)	.551 (14)	.669 (17)	.669 (17,5)	10
87111 00 014	87111-06-08	3/8	1/2	.354 (9)	1.043 (26,5)	1.141 (29)	.551 (14)	.827 (21)	.669 (17,5)	10
87111 00 015	87111-08-04	1/2	1/4	.276 (7)	1.240 (31,5)	1.169 (29,7)	.630 (16)	.630 (16)	.846 (21,5)	10
87111 00 016	87111-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.090 (27,7)	.630 (16)	.669 (17)	.846 (21,5)	10
87111 00 017	87111-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.188 (30,2)	.630 (16)	.827 (21)	.846 (21,5)	10

87116

SWIVEL ELBOW

New

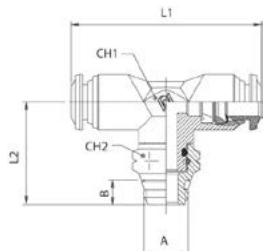
UNF



Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87116 00 001	87116-02-32	1/8	10/32	.177 (4,5)	.630 (16)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
87116 00 002	87116-53-32	5/32 (4)	10/32	.177 (4,5)	.689 (17,5)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
87116 00 003	87116-04-32	1/4	10/32	.177 (4,5)	.827 (21)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)	10

87210

SWIVEL BRANCH TEE



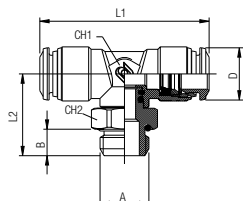
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87210 00 001	87210-02-02	1/8	1/8	.216 (5,5)	1.300 (33)	.846 (21,5)	.354 (9)	.511 (13)	-	10
87210 00 002	87210-02-04	1/8	1/4	.275 (7)	1.300 (33)	1.004 (25,5)	.354 (9)	.591 (15)	-	10
87210 00 003	87210-53-02	5/32 (4)	1/8	.216 (5,5)	1.339 (34)	.846 (21,5)	.354 (9)	.511 (13)	-	10
87210 00 004	87210-53-04	5/32 (4)	1/4	.275 (7)	1.300 (33)	1.004 (25,5)	.354 (9)	.591 (15)	-	10
87210 00 005	87210-04-02	1/4	1/8	.216 (5,5)	1.692 (43)	.925 (23,5)	.433 (11)	.511 (13)	-	10
87210 00 006	87210-04-04	1/4	1/4	.275 (7)	1.692 (43)	1.063 (27)	.433 (11)	.591 (15)	-	10
87210 00 014	87210-04-06	1/4	3/8	.295 (7,5)	2.087 (53)	1.102 (28)	.630 (16)	.669 (17)	-	10
87210 00 013	87210-06-02	3/8	1/8	.216 (5,5)	2.047 (52)	1.083 (27,5)	.630 (16)	.591 (15)	-	10
87210 00 007	87210-06-04	3/8	1/4	.275 (7)	2.087 (53)	1.181 (30)	.630 (16)	.511 (13)	-	10
87210 00 008	87210-06-06	3/8	3/8	.295 (7,5)	2.087 (53)	1.181 (30)	.630 (16)	.669 (17)	-	10
87210 00 009	87210-06-08	3/8	1/2	.354 (9)	2.087 (53)	1.299 (33)	.630 (16)	.827 (21)	-	10
87210 00 010	87210-08-04	1/2	1/4	.275 (7)	2.402 (61)	1.240 (31,5)	.748 (19)	.591 (15)	-	10
87210 00 011	87210-08-06	1/2	3/8	.295 (7,5)	2.402 (61)	1.299 (33)	.748 (19)	.669 (17)	-	10
87210 00 012	87210-08-08	1/2	1/2	.354 (9)	2.402 (61)	1.417 (36)	.748 (19)	.827 (21)	-	10

WHILE SUPPLY LAST

88215

SWIVEL BRANCH TEE

UNF



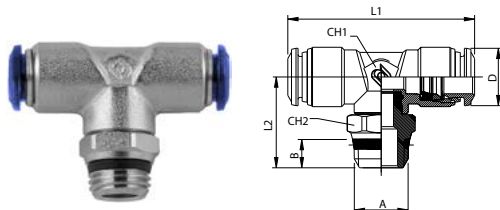
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
88215 00 001	87210-02-32	1/8	10/32	.157 (4)	1.300 (33)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
88215 00 002	87210-53-32	5/32 (4)	10/32	.157 (4)	1.300 (33)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
88215 00 003	87210-04-32	1/4	10/32	.157 (4)	1.692 (43)	.768 (19,5)	.433 (11)	.433 (11)	.492 (12,5)	10

WHILE SUPPLY LAST

87211

SWIVEL BRANCH TEE

New **SWIFTFIT**
Universal Thread

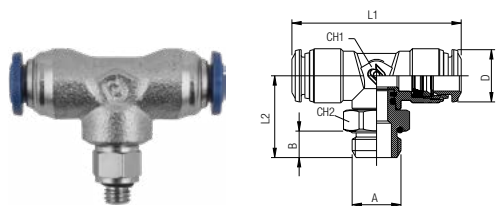


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87211 00 001	87211-02-02	1/8	1/8	.216 (5,5)	1.300 (33)	.807 (20,5)	.354 (9)	.511 (13)	.394 (10)	10
87211 00 002	87211-02-04	1/8	1/4	.275 (7)	1.300 (33)	.787 (20)	.354 (9)	.591 (15)	.394 (10)	10
87211 00 003	87211-53-02	5/32 (4)	1/8	.216 (5,5)	1.300 (33)	.787 (20)	.354 (9)	.511 (13)	.394 (10)	10
87211 00 004	87211-53-04	5/32 (4)	1/4	.275 (7)	1.300 (33)	.846 (21,5)	.354 (9)	.591 (15)	.394 (10)	10
87211 00 005	87211-04-02	1/4	1/8	.216 (5,5)	1.574 (40)	.846 (21,5)	.433 (11)	.511 (13)	.493 (12,5)	10
87211 00 006	87211-04-04	1/4	1/4	.275 (7)	1.574 (40)	.905 (23)	.433 (11)	.629 (16)	.493 (12,5)	10
87211 00 007	87211-04-06	1/4	3/8	.295 (7,5)	1.574 (40)	.925 (23,5)	.433 (11)	.669 (17)	.493 (12,5)	10
87211 00 008	87211-05-02	5/16 (8)	1/8	.216 (5,5)	1.772 (45)	.984 (25)	.512 (13)	.511 (13)	.571 (14,5)	10
87211 00 009	87211-05-04	5/16 (8)	1/4	.275 (7)	1.772 (45)	.984 (25)	.512 (13)	.591 (15)	.571 (14,5)	10
87211 00 010	87211-05-06	5/16 (8)	3/8	.295 (7,5)	1.772 (45)	1.024 (26)	.512 (13)	.669 (17)	.571 (14,5)	10
87211 00 018	87211-05-08	5/16 (8)	1/2	.354 (9)	1.771 (45)	1.122 (28,5)	.511 (13)	.826 (21)	.571 (14,5)	10
87211 00 011	87211-06-02	3/8	1/8	.216 (5,5)	2.047 (52)	1.023 (26)	.551 (14)	.551 (14)	.669 (17,5)	10
87211 00 012	87211-06-04	3/8	1/4	.275 (7)	2.047 (52)	1.122 (28,5)	.551 (14)	.630 (16)	.669 (17,5)	10
87211 00 013	87211-06-06	3/8	3/8	.295 (7,5)	2.047 (52)	1.102 (28)	.551 (14)	.669 (17)	.669 (17,5)	10
87211 00 014	87211-06-08	3/8	1/2	.354 (9)	2.047 (52)	1.141 (29)	.551 (14)	.827 (21)	.669 (17,5)	10
87211 00 015	87211-08-04	1/2	1/4	.275 (7)	2.402 (61)	1.224 (31,1)	.630 (16)	.630 (16)	.846 (21,5)	10
87211 00 016	87211-08-06	1/2	3/8	.295 (7,5)	2.402 (61)	1.145 (29,1)	.630 (16)	.669 (17)	.846 (21,5)	10
87211 00 017	87211-08-08	1/2	1/2	.354 (9)	2.402 (61)	1.244 (31,6)	.630 (16)	.827 (21)	.846 (21,5)	10

87216

SWIVEL BRANCH TEE

New **UNF**

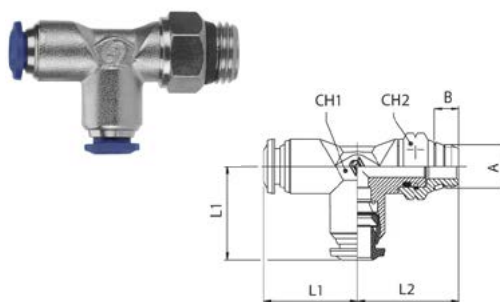


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87216 00 001	87216-02-32	1/8	10/32	.157 (4)	1.300 (33)	.748 (19)	.354 (9)	.315 (8)	.394 (10)	10
87216 00 002	87216-53-32	5/32 (4)	10/32	.157 (4)	1.300 (33)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
87216 00 003	87216-04-32	1/4	10/32	.157 (4)	1.654 (42)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)	10

87222

SWIVEL RUN TEE

SWIFTFIT
Universal Thread



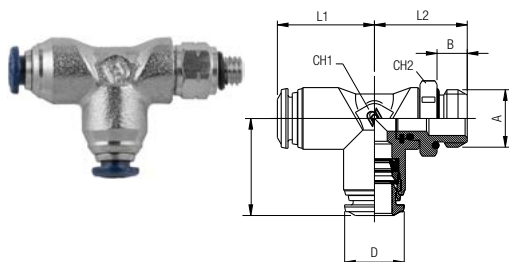
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87222 00 001	87222-02-02	1/8	1/8	.217 (5,5)	.669 (17)	.807 (20,5)	.354 (9)	.512 (13)	-	10
87222 00 002	87222-02-04	1/8	1/4	.512 (13)	.669 (17)	.945 (24)	.354 (9)	.591 (15)	-	10
87222 00 003	87222-53-02	5/32 (4)	1/8	.217 (5,5)	.669 (17)	.787 (20)	.354 (9)	.512 (13)	-	10
87222 00 012	87222-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	.945 (24)	.354 (9)	.591 (15)	-	10
87222 00 004	87222-04-02	1/4	1/8	.217 (5,5)	.827 (21)	.866 (22)	.433 (11)	.512 (13)	-	10
87222 00 005	87222-04-04	1/4	1/4	.512 (13)	.827 (21)	.984 (25)	.433 (11)	.591 (15)	-	10
87222 00 014	87222-04-06	1/4	3/8	.512 (13)	.827 (21)	1.102 (28)	.433 (11)	.591 (15)	-	10
87222 00 013	87222-06-02	3/8	1/8	.217 (5,5)	1.043 (26,5)	1.102 (28)	.433 (11)	.512 (13)	-	10
87222 00 006	87222-06-04	3/8	1/4	.512 (13)	1.043 (26,5)	1.102 (28)	.630 (16)	.591 (15)	-	10
87222 00 007	87222-06-06	3/8	3/8	.512 (13)	1.043 (26,5)	1.181 (30)	.630 (16)	.669 (17)	-	10
87222 00 008	87222-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.299 (33)	.630 (16)	.827 (21)	-	10
87222 00 009	87222-08-04	1/2	1/4	.512 (13)	1.201 (30,5)	1.240 (31,5)	.748 (19)	.591 (15)	-	10
87222 00 010	87222-08-06	1/2	3/8	.512 (13)	1.201 (30,5)	1.299 (33)	.748 (19)	.669 (17)	-	10
87222 00 011	87222-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.417 (36)	.748 (19)	.827 (21)	-	10

WHILE SUPPLY LAST

88225

SWIVEL RUN TEE

UNF

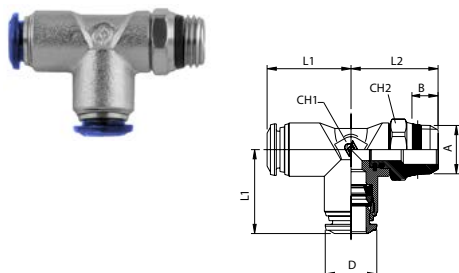


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
88225 00 001	87222-02-32	1/8	10/32	.157 (4)	.650 (16,5)	.689 (17,5)	.354 (9)	.315 (8)	.394 (10)	10
88225 00 002	87222-53-32	5/32 (4)	10/32	.157 (4)	.669 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
88225 00 003	87222-04-32	1/4	10/32	.157 (4)	.827 (21)	.787 (20)	.433 (11)	.433 (11)	.492 (12,5)	10

WHILE SUPPLY LAST

87223

SWIVEL RUN TEE

New SWIFTFIT
Universal thread


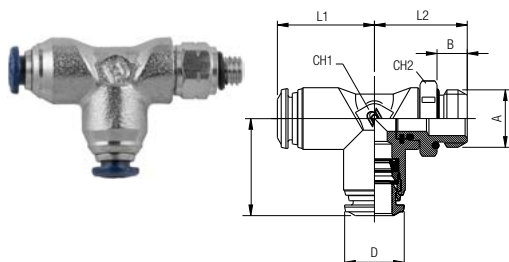
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87223 00 001	87223-02-02	1/8	1/8	.216 (5,5)	.650 (16,5)	.728 (18,5)	.354 (9)	.511 (13)	.394 (10)	10
87223 00 002	87223-02-04	1/8	1/4	.334 (7)	.650 (16,5)	.807 (20,5)	.354 (9)	.591 (15)	.394 (10)	10
87223 00 003	87223-53-02	5/32 (4)	1/8	.216 (5,5)	.649 (17)	.787 (20)	.354 (9)	.511 (13)	.394 (10)	10
87223 00 004	87223-53-04	5/32 (4)	1/4	.275 (7)	.649 (17)	.846 (21,5)	.354 (9)	.591 (15)	.394 (10)	10
87223 00 005	87223-04-02	1/4	1/8	.216 (5,5)	.846 (21,5)	.846 (21,5)	.433 (11)	.511 (13)	.493 (12,5)	10
87223 00 006	87223-04-04	1/4	1/4	.275 (7)	.846 (21,5)	.905 (23)	.433 (11)	.591 (15)	.493 (12,5)	10
87223 00 007	87223-04-06	1/4	3/8	.295 (7,5)	.846 (21,5)	.925 (23,5)	.433 (11)	.669 (17)	.493 (12,5)	10
87223 00 008	87223-05-02	5/16 (8)	1/8	.216 (5,5)	.886 (22,5)	.984 (24)	.512 (13)	.512 (13)	.511 (13)	10
87223 00 009	87223-05-04	5/16 (8)	1/4	.275 (7)	.886 (22,5)	.984 (24)	.512 (13)	.591 (15)	.591 (15)	10
87223 00 010	87223-05-06	5/16 (8)	3/8	.295 (7,5)	.886 (22,5)	.964 (24,5)	.512 (13)	.512 (13)	.669 (17)	10
87223 00 018	87223-05-08	5/16 (8)	1/2	.354 (9)	.885 (22,5)	1.102 (28)	.511 (13)	.826 (21)	.571 (14,5)	10
87223 00 011	87223-06-02	3/8	1/8	.216 (5,5)	1.062 (27)	1.023 (26)	.551 (14)	.551 (14)	.669 (17,5)	10
87223 00 012	87223-06-04	3/8	1/4	.275 (7)	1.062 (27)	1.122 (28,5)	.551 (14)	.630 (16)	.669 (17,5)	10
87223 00 013	87223-06-06	3/8	3/8	.295 (7,5)	1.062 (27)	1.102 (28)	.551 (14)	.512 (13)	.669 (17,5)	10
87223 00 014	87223-06-08	3/8	1/2	.354 (9)	1.062 (27)	1.141 (29)	.551 (14)	.827 (21)	.669 (17,5)	10
87223 00 015	87223-08-04	1/2	1/4	.275 (7)	1.240 (31,5)	1.224 (31,1)	.630 (16)	.630 (16)	.846 (21,5)	10
87223 00 016	87223-08-06	1/2	3/8	.295 (7,5)	1.240 (31,5)	1.145 (29,1)	.630 (16)	.787 (20)	.846 (21,5)	10
87223 00 017	87223-08-08	1/2	1/2	.354 (9)	1.240 (31,5)	1.244 (31,6)	.630 (16)	.827 (21)	.846 (21,5)	10

87226

SWIVEL RUN TEE

New

UNF

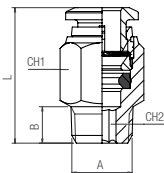


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87226 00 001	87226-02-32	1/8	10/32	.177 (4,5)	.650 (16,5)	.748 (19)	.354 (9)	.315 (8)	.394 (10)	10
87226 00 002	87226-53-32	5/32 (4)	10/32	.177 (4,5)	.670 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
87226 00 003	87226-04-32	1/4	10/32	.177 (4,5)	.827 (21)	.807 (20,5)	.433 (11)	.433 (11)	.492 (12,5)	10

87007

STRAIGHT MALE

PTF

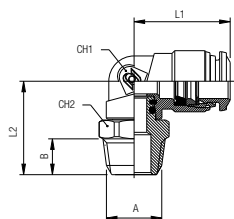


Code	Usa Ref	Tube	A	B	L	CH1	CH2	Pack
87007 00 003	87007-53-02	5/32(4)	1/8	.276(7)	.768(19,5)	.433(11)	.118(3)	10
87007 00 004	87007-53-04	5/32(4)	1/4	.413(10,5)	.886(22,5)	.551(14)	.118(3)	10
87007 00 005	87007-04-02	1/4	1/8	.276(7)	.886(22,5)	.512(13)	.157(4)	10
87007 00 006	87007-04-04	1/4	1/4	.413(10,5)	.965(24,5)	.551(14)	.157(4)	10

87117

SWIVEL ELBOW

PTF

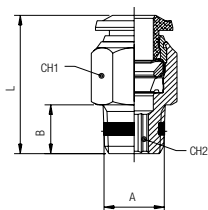


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
87117 00 003	87117-53-02	5/32(4)	1/8	.276(7)	.708(18)	.768(19,5)	.354(9)	.512(13)	10
87117 00 004	87117-53-04	5/32(4)	1/4	.413(10,5)	.708(18)	.905(23)	.354(9)	.591(15)	10
87117 00 005	87117-04-02	1/4	1/8	.276(7)	.827(21)	.846(21,5)	.433(11)	.512(13)	10
87117 00 006	87117-04-04	1/4	1/4	.413(10,5)	.827(21)	.984(25)	.433(11)	.591(15)	10

88000

STRAIGHT MALE

NPTF

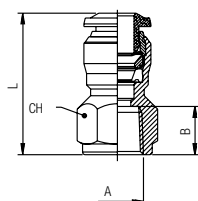


Code	Usa Ref	Tube	A	B	L	CH1	CH2	Pack
88000 00 001	88000-02-02	1/8	1/8	.335 (8,5)	.768 (19,5)	.433 (11)	.079 (2)	10
88000 00 002	88000-02-04	1/8	1/4	.512 (13)	.965 (24,5)	.551 (14)	.079 (2)	10
88000 00 003	88000-53-02	5/32 (4)	1/8	.335 (8,5)	.826 (21)	.433 (11)	.118 (3)	10
88000 00 004	88000-53-04	5/32 (4)	1/4	.512 (13)	.984 (25)	.551 (14)	.118 (3)	10
88000 00 005	88000-04-02	1/4	1/8	.335 (8,5)	1.043 (26)	.512 (13)	.157 (4)	10
88000 00 006	88000-04-04	1/4	1/4	.512 (13)	1.062 (27)	.551 (14)	.157 (4)	10
88000 00 007	88000-04-06	1/4	3/8	.512 (13)	1.141 (29)	.709 (18)	.157 (4)	10
88000 00 008	88000-05-02	5/16 (8)	1/8	.335 (8,5)	1.062 (27)	.551 (14)	.197 (5)	10
88000 00 009	88000-05-04	5/16 (8)	1/4	.512 (13)	1.082 (27,5)	.551 (14)	.236 (6)	10
88000 00 010	88000-05-06	5/16 (8)	3/8	.512 (13)	1.082 (27,5)	.709 (18)	.236 (6)	10
88000 00 011	88000-06-02	3/8	1/8	.335 (8,5)	1.259 (32)	.669 (17)	.197 (5)	10
88000 00 012	88000-06-04	3/8	1/4	.512 (13)	1.319 (33,5)	.669 (17)	.276 (7)	10
88000 00 013	88000-06-06	3/8	3/8	.512 (13)	1.319 (33,5)	.709 (18)	.276 (7)	10
88000 00 014	88000-06-08	3/8	1/2	.669 (17)	1.319 (33,5)	.866 (22)	.276 (7)	10
88000 00 015	88000-08-04	1/2	1/4	.512 (13)	1.535 (39)	.787 (20)	.197 (5)	10
88000 00 016	88000-08-06	1/2	3/8	.512 (13)	1.417 (36)	.787 (20)	.354 (9)	10
88000 00 017	88000-08-08	1/2	1/2	.669 (17)	1.575 (40)	.866 (22)	.394 (10)	10

88030

STRAIGHT FEMALE

NPTF

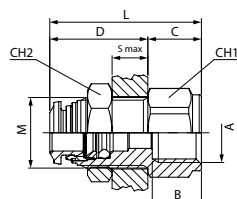


Code	Usa Ref	Tube	A	B	L	CH	Pack
88030 00 001	88030-02-02	1/8	1/8	.374 (9,5)	.945 (24)	.512 (13)	10
88030 00 002	88030-02-04	1/8	1/4	.531 (13,5)	1.142 (29)	.630 (16)	10
88030 00 003	88030-53-02	5/32 (4)	1/8	.374 (9,5)	.984 (25)	.512 (13)	10
88030 00 004	88030-53-04	5/32 (4)	1/4	.531 (13,5)	1.181 (30)	.630 (16)	10
88030 00 005	88030-04-02	1/4	1/8	.374 (9,5)	1.082 (27,5)	.512 (13)	10
88030 00 006	88030-04-04	1/4	1/4	.512 (13)	1.279 (32,5)	.630 (16)	10
88030 00 007	88030-06-04	3/8	1/4	.531 (13,5)	1.397 (35,5)	.709 (18)	10
88030 00 008	88030-06-06	3/8	3/8	.531 (13,5)	1.397 (35,5)	.787 (20)	10

88055

FEMALE BULKHEAD CONNECTOR

NPTF

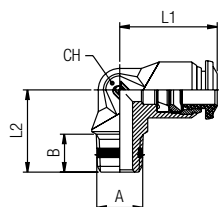


Code	Usa Ref	Tube	A	B	M	S max	CH1	CH2	C	D	L	Pack
88055 00 001	88055-53-02	5/32 (4)	1/8	.374 (9,5)	M12X1	.275 (7)	.591 (15)	.669 (17)	.394 (10)	.748 (19)	1.141 (29)	10
88055 00 009	88055-53-04	5/32 (4)	1/4	.531 (13,5)	M12X1	.275 (7)	.630 (16)	.669 (17)	.591 (15)	.748 (19)	1.339 (34)	10
88055 00 002	88055-04-02	1/4	1/8	.374 (9,5)	M14X1	.315 (8)	.630 (16)	.669 (17)	.394 (10)	.826 (21)	1.221 (31)	10
88055 00 003	88055-04-04	1/4	1/4	.531 (13,5)	M14X1	.315 (8)	.630 (16)	.669 (17)	.591 (15)	.826 (21)	1.417 (36)	10
88055 00 010	88055-04-06	1/4	3/8	.531 (13,5)	M14X1	.315 (8)	.787 (20)	.669 (17)	.591 (15)	.826 (21)	1.417 (36)	10
88055 00 004	88055-05-02	5/16 (8)	1/8	.374 (9,5)	M16X1	.315 (8)	.709 (18)	.748 (19)	.394 (10)	.866 (22)	1.260 (32)	10
88055 00 005	88055-05-04	5/16 (8)	1/4	.531 (13,5)	M16X1	.315 (8)	.709 (18)	.748 (19)	.472 (12)	.866 (22)	1.339 (34)	10
88055 00 011	88055-05-06	5/16 (8)	3/8	.531 (13,5)	M16X1	.315 (8)	.787 (20)	.748 (19)	.591 (15)	.866 (22)	1.457 (37)	10
88055 00 006	88055-06-06	3/8	3/8	.531 (13,5)	M20X1	.374 (9,5)	.945 (24)	.945 (24)	.551 (14)	1.003 (25,5)	1.557 (39,5)	10
88055 00 007	88055-08-06	1/2	3/8	.531 (13,5)	M22X1	.413 (10,5)	.945 (24)	1.024 (26)	.591 (15)	1.083 (27,5)	1.673 (42,5)	10
88055 00 008	88055-08-08	1/2	1/2	.690 (17,5)	M22X1	.413 (10,5)	.945 (24)	1.024 (26)	.787 (20)	1.083 (27,5)	1.870 (47,5)	10

88100

FIXED ELBOW

NPTF

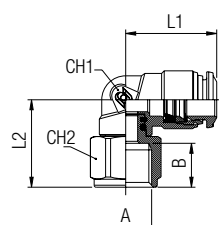


Code	Usa Ref	Tube	A	B	L1	L2	CH1	Pack
88100 00 001	88100-04-02	1/4	1/8	.335 (8,5)	.846 (21,5)	.728 (18,5)	.433 (11)	10
88100 00 002	88100-04-04	1/4	1/4	.512 (13)	.846 (21,5)	.905 (23)	.433 (11)	10
88100 00 003	88100-06-04	3/8	1/4	.512 (13)	1.062 (27)	1.043 (26,5)	.630 (16)	10
88100 00 004	88100-06-06	3/8	3/8	.512 (13)	1.062 (27)	1.004 (25,5)	.688 (17)	10

88105

FEMALE ELBOW

NPTF



Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88105 00 001	88105-53-02	5/32 (4)	1/8	.374 (9,5)	.669 (17)	.984 (25)	.354 (9)	.511 (13)	10
88105 00 002	88105-53-04	5/32 (4)	1/4	.531 (13,5)	.669 (17)	1.240 (31,5)	.354 (9)	.629 (16)	10
88105 00 003	88105-04-02	1/4	1/8	.374 (9,5)	.846 (21,5)	1.063 (27)	.433 (11)	.511 (13)	10
88105 00 004	88105-04-04	1/4	1/4	.531 (13,5)	.827 (21)	1.280 (32,5)	.433 (11)	.629 (16)	10
88105 00 005	88105-06-02	3/8	1/8	.374 (9,5)	1.063 (27)	1.220 (31)	.511 (13)	.511 (13)	10
88105 00 006	88105-06-04	3/8	1/4	.531 (13,5)	1.063 (27)	1.398 (35,5)	.629 (16)	.629 (16)	10

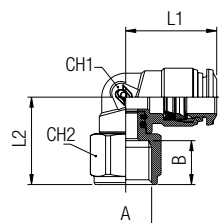
WHILE SUPPLY LAST

88106

FEMALE ELBOW

New

NPTF

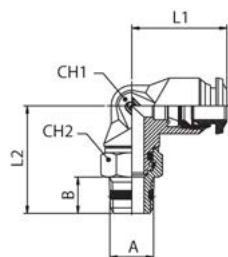


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88106 00 001	88106-53-02	5/32 (4)	1/8	.374 (9,5)	.689 (17,5)	.775 (19,7)	.354 (9)	.511 (13)	10
88106 00 002	88106-53-04	5/32 (4)	1/4	.531 (13,5)	.689 (17,5)	.933 (23,7)	.354 (9)	.629 (16)	10
88106 00 003	88106-04-02	1/4	1/8	.374 (9,5)	.846 (21,5)	.842 (21,4)	.433 (11)	.511 (13)	10
88106 00 004	88106-04-04	1/4	1/4	.531 (13,5)	.846 (21,5)	1.000 (25,4)	.433 (11)	.629 (16)	10
88106 00 005	88106-06-02	3/8	1/8	.374 (9,5)	1.062 (27)	.952 (24,2)	.511 (13)	.511 (13)	10
88106 00 006	88106-06-04	3/8	1/4	.531 (13,5)	1.062 (27)	1.110 (28,2)	.629 (16)	.629 (16)	10

88110

SWIVEL ELBOW

NPTF



Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88110 00 001	88110-02-02	1/8	1/8	.335 (8,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)	10
88110 00 002	88110-02-04	1/8	1/4	.512 (13)	.669 (17)	1.122 (28,5)	.354 (9)	.591 (15)	10
88110 00 003	88110-53-02	5/32 (4)	1/8	.335 (8,5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)	10
88110 00 004	88110-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	1.181 (30)	.354 (9)	.591 (15)	10
88110 00 005	88110-04-02	1/4	1/8	.335 (8,5)	.827 (21)	1.024 (26)	.433 (11)	.512 (13)	10
88110 00 006	88110-04-04	1/4	1/4	.512 (13)	.827 (21)	1.220 (31)	.433 (11)	.591 (15)	10
88110 00 007	88110-04-06	1/4	3/8	.512 (13)	.827 (21)	1.280 (32,5)	.433 (11)	.709 (18)	10
88110 00 008	88110-05-02	5/16 (8)	1/8	.335 (8,5)	.886 (22,5)	1.043 (26,5)	.512 (13)	.512 (13)	10
88110 00 009	88110-05-04	5/16 (8)	1/4	.512 (13)	.886 (22,5)	1.260 (32)	.512 (13)	.591 (15)	10
88110 00 010	88110-05-06	5/16 (8)	3/8	.512 (13)	.886 (22,5)	1.280 (32,5)	.512 (13)	.709 (18)	10
88110 00 011	88110-06-02	3/8	1/8	.335 (8,5)	1.043 (26,5)	1.181 (30)	.630 (16)	.512 (13)	10
88110 00 012	88110-06-04	3/8	1/4	.512 (13)	1.102 (28)	1.378 (35)	.630 (16)	.591 (15)	10
88110 00 013	88110-06-06	3/8	3/8	.512 (13)	1.024 (26)	1.358 (34,5)	.630 (16)	.709 (18)	10
88110 00 014	88110-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.614 (41)	.630 (16)	.866 (22)	10
88110 00 016	88110-08-06	1/2	3/8	.512 (13)	1.201 (30,5)	1.476 (37,5)	.749 (19)	.709 (18)	10
88110 00 017	88110-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.732 (44)	.749 (19)	.866 (22)	10

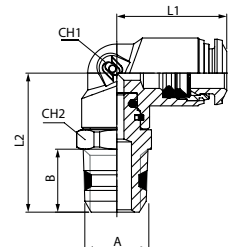
WHILE SUPPLY LAST

88111

SWIVEL ELBOW

New

NPTF

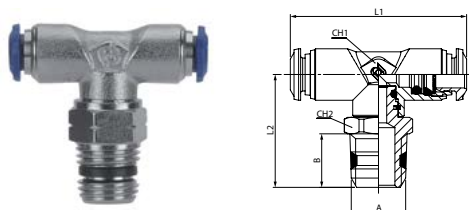


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88111 00 001	88111-02-02	1/8	1/8	.335 (8,5)	.669 (17)	.826 (21)	.354 (9)	.512 (13)	10
88111 00 002	88111-02-04	1/8	1/4	.512 (13)	.669 (17)	1.003 (25,5)	.354 (9)	.591 (15)	10
88111 00 003	88111-53-02	5/32 (4)	1/8	.335 (8,5)	.669 (17)	.826 (21)	.354 (9)	.512 (13)	10
88111 00 004	88111-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	1.003 (25,5)	.354 (9)	.591 (15)	10
88111 00 005	88111-04-02	1/4	1/8	.335 (8,5)	.827 (21)	.905 (23)	.433 (11)	.512 (13)	10
88111 00 006	88111-04-04	1/4	1/4	.512 (13)	.827 (21)	1.082 (27,5)	.433 (11)	.591 (15)	10
88111 00 007	88111-04-06	1/4	3/8	.512 (13)	.827 (21)	1.082 (27,5)	.433 (11)	.709 (18)	10
88111 00 008	88111-05-02	5/16 (8)	1/8	.335 (8,5)	.886 (22,5)	1.003 (25,5)	.472 (12)	.512 (13)	10
88111 00 009	88111-05-04	5/16 (8)	1/4	.512 (13)	.886 (22,5)	1.122 (28,5)	.472 (12)	.591 (15)	10
88111 00 010	88111-05-06	5/16 (8)	3/8	.512 (13)	.886 (22,5)	1.122 (28,5)	.472 (12)	.709 (18)	10
88111 00 011	88111-06-02	3/8	1/8	.335 (8,5)	1.043 (26,5)	1.082 (27,5)	.551 (14)	.551 (14)	10
88111 00 012	88111-06-04	3/8	1/4	.512 (13)	1.043 (26,5)	1.299 (33)	.551 (14)	.591 (15)	10
88111 00 013	88111-06-06	3/8	3/8	.512 (13)	1.043 (26,5)	1.259 (32)	.551 (14)	.709 (18)	10
88111 00 014	88111-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.397 (35,5)	.551 (14)	.866 (22)	10
88111 00 015	88111-08-04	1/2	1/4	.512 (13)	1.201 (30,5)	1.346 (34,2)	.630 (16)	.630 (16)	10
88111 00 016	88111-08-06	1/2	3/8	.512 (13)	1.201 (30,5)	1.248 (31,7)	.630 (16)	.749 (19)	10
88111 00 017	88111-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.444 (36,7)	.630 (16)	.866 (22)	10

88210

SWIVEL BRANCH TEE

NPTF



Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88210 00 001	88210-02-02	1/8	1/8	.295 (7.5)	1.299 (33)	.906 (23)	.354 (9)	.512 (13)	10
88210 00 013	88210-02-04	1/8	1/4	.512 (13)	1.299 (33)	1.220 (31)	.354 (9)	.591 (15)	10
88210 00 002	88210-53-02	5/32 (4)	1/8	.295 (7.5)	1.299 (33)	.906 (23)	.354 (9)	.512 (13)	10
88210 00 003	88210-53-04	5/32 (4)	1/4	.512 (13)	1.299 (33)	1.220 (31)	.354 (9)	.591 (15)	10
88210 00 004	88210-04-02	1/4	1/8	.295 (7.5)	1.654 (42)	1.024 (26)	.433 (11)	.512 (13)	10
88210 00 005	88210-04-04	1/4	1/4	.512 (13)	1.654 (42)	1.220 (31)	.433 (11)	.591 (15)	10
88210 00 007	88210-06-04	3/8	1/4	.512 (13)	2.087 (53)	1.378 (35)	.630 (16)	.591 (15)	10
88210 00 008	88210-06-06	3/8	3/8	.512 (13)	2.087 (53)	1.358 (34.5)	.630 (16)	.709 (18)	10
88210 00 009	88210-06-08	3/8	1/2	.669 (17)	2.087 (53)	1.614 (41)	.630 (16)	.866 (22)	10
88210 00 010	88210-08-04	1/2	1/4	.512 (13)	2.402 (61)	1.555 (39.5)	.748 (19)	.591 (15)	10
88210 00 011	88210-08-06	1/2	3/8	.512 (13)	2.402 (61)	1.476 (37.5)	.748 (19)	.749 (19)	10
88210 00 012	88210-08-08	1/2	1/2	.669 (17)	2.402 (61)	1.732 (44)	.748 (19)	.866 (22)	10

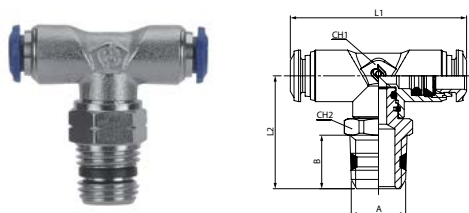
WHILE SUPPLY LAST

88211

SWIVEL BRANCH TEE

New

NPTF

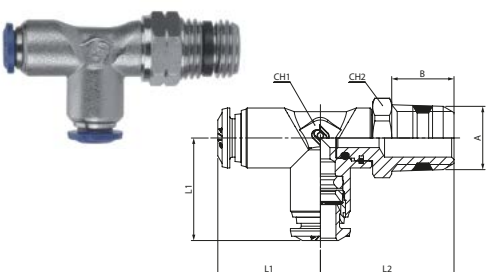


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88211 00 001	88211-02-02	1/8	1/8	.335 (8.5)	1.299 (33)	.807 (20.5)	.354 (9)	.512 (13)	10
88211 00 002	88211-02-04	1/8	1/4	.512 (13)	1.299 (33)	.984 (25)	.354 (9)	.591 (15)	10
88211 00 003	88211-53-02	5/32 (4)	1/8	.335 (8.5)	1.299 (33)	.846 (21.5)	.354 (9)	.512 (13)	10
88211 00 004	88211-53-04	5/32 (4)	1/4	.512 (13)	1.299 (33)	1.023 (26)	.354 (9)	.591 (15)	10
88211 00 005	88211-04-02	1/4	1/8	.335 (8.5)	1.654 (42)	.905 (23)	.433 (11)	.512 (13)	10
88211 00 006	88211-04-04	1/4	1/4	.512 (13)	1.654 (42)	1.082 (27.5)	.433 (11)	.591 (15)	10
88211 00 008	88211-05-02	5/16 (8)	1/8	.335 (8.5)	1.771 (45)	1.161 (26.5)	.512 (13)	.512 (13)	10
88211 00 009	88211-05-04	5/16 (8)	1/4	.512 (13)	1.771 (45)	1.161 (29.5)	.512 (13)	.591 (15)	10
88211 00 010	88211-05-06	5/16 (8)	3/8	.512 (13)	1.771 (45)	1.161 (29.5)	.512 (13)	.709 (18)	10
88211 00 012	88211-06-04	3/8	1/4	.512 (13)	2.087 (53)	1.299 (33)	.551 (14)	.591 (15)	10
88211 00 013	88211-06-06	3/8	3/8	.512 (13)	2.087 (53)	1.259 (32)	.551 (14)	.709 (18)	10
88211 00 014	88211-06-08	3/8	1/2	.669 (17)	2.087 (53)	1.397 (35.5)	.551 (14)	.866 (22)	10
88211 00 015	88211-08-04	1/2	1/4	.512 (13)	2.402 (61)	1.399 (35.6)	.630 (16)	.630 (16)	10
88211 00 016	88211-08-06	1/2	3/8	.512 (13)	2.402 (61)	1.303 (33.1)	.630 (16)	.749 (19)	10
88211 00 017	88211-08-08	1/2	1/2	.669 (17)	2.402 (61)	1.500 (38.1)	.630 (16)	.866 (22)	10

88222

SWIVEL RUN TEE

NPTF



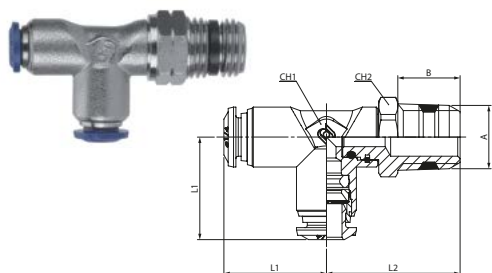
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88222 00 001	88222-02-02	1/8	1/8	.295 (7.5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)	10
88222 00 013	88222-02-04	1/8	1/4	.512 (13)	.669 (17)	1.181 (30)	.354 (9)	.591 (15)	10
88222 00 002	88222-53-02	5/32 (4)	1/8	.295 (7.5)	.669 (17)	.906 (23)	.354 (9)	.512 (13)	10
88222 00 004	88222-04-02	1/4	1/8	.295 (7.5)	.827 (21)	.984 (25)	.433 (11)	.512 (13)	10
88222 00 005	88222-04-04	1/4	1/4	.512 (13)	.827 (21)	1.220 (31)	.433 (11)	.591 (15)	10
88222 00 007	88222-06-04	3/8	1/4	.512 (13)	1.043 (26.5)	1.339 (34)	.630 (16)	.591 (15)	10
88222 00 008	88222-06-06	3/8	3/8	.512 (13)	1.043 (26.5)	1.358 (34.5)	.630 (16)	.709 (18)	10
88222 00 009	88222-06-08	3/8	1/2	.669 (17)	1.043 (26.5)	1.614 (41)	.630 (16)	.866 (22)	10
88222 00 010	88222-08-04	1/2	1/4	.512 (13)	1.201 (30.5)	1.476 (37.5)	.749 (19)	.591 (15)	10
88222 00 011	88222-08-06	1/2	3/8	.511 (13)	1.201 (30.5)	1.476 (37.5)	.749 (19)	.709 (18)	10
88222 00 012	88222-08-08	1/2	1/2	.669 (17)	1.201 (30.5)	1.732 (44)	.749 (19)	.866 (22)	10

WHILE SUPPLY LAST

88223

SWIVEL RUN TEE

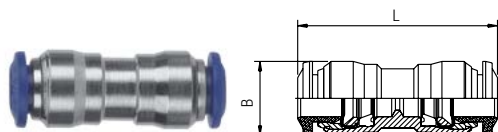
New NPTF



Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88223 00 001	88223-02-02	1/8	1/8	.335 (8,5)	.669 (17)	.807 (20,5)	.354 (9)	.512 (13)	10
88223 00 002	88223-02-04	1/8	1/4	.511 (13)	.669 (17)	.984 (25)	.354 (9)	.591 (15)	10
88223 00 003	88223-53-02	5/32 (4)	1/8	.335 (8,5)	.669 (17)	.846 (21,5)	.354 (9)	.512 (13)	10
88223 00 004	88223-53-04	5/32 (4)	1/4	.511 (13)	.669 (17)	1.023 (26)	.354 (9)	.591 (15)	10
88223 00 005	88223-04-02	1/4	1/8	.335 (8,5)	.827 (21)	.905 (23)	.433 (11)	.512 (13)	10
88223 00 006	88223-04-04	1/4	1/4	.511 (13)	.827 (21)	1.082 (27,5)	.433 (11)	.591 (15)	10
88223 00 008	88223-05-02	5/16 (8)	1/8	.335 (8,5)	.886 (22,5)	1.003 (25,5)	.512 (13)	.512 (13)	10
88223 00 009	88223-05-04	5/16 (8)	1/4	.511 (13)	.886 (22,5)	1.122 (28,5)	.512 (13)	.591 (15)	10
88223 00 010	88223-05-06	5/16 (8)	3/8	.511 (13)	.886 (22,5)	1.122 (28,5)	.512 (13)	.709 (18)	10
88223 00 012	88223-06-04	3/8	1/4	.511 (13)	1.043 (26,5)	1.299 (33)	.551 (14)	.591 (15)	10
88223 00 013	88223-06-06	3/8	3/8	.511 (13)	1.043 (26,5)	1.259 (32)	.551 (14)	.709 (18)	10
88223 00 014	88223-06-08	3/8	1/2	.669 (17)	1.043 (26,5)	1.397 (35,5)	.551 (14)	.866 (22)	10
88223 00 015	88223-08-04	1/2	1/4	.512 (13)	1.201 (30,5)	1.399 (35,6)	.630 (16)	.630 (16)	10
88223 00 016	88223-08-06	1/2	3/8	.511 (13)	1.201 (30,5)	1.303 (33,1)	.630 (16)	.749 (19)	10
88223 00 017	88223-08-08	1/2	1/2	.669 (17)	1.201 (30,5)	1.500 (38,1)	.630 (16)	.866 (22)	10

88040

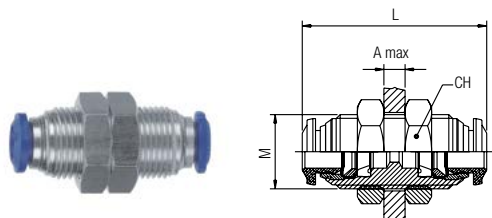
UNION



Code	Usa Ref	Tube	Tube	B	L	Pack
88040 00 001	88040-02	1/8		.335 (8,5)	1.024 (26)	10
88040 00 002	88040-53	5/32 (4)		.413 (10,5)	1.181 (30)	10
88040 00 007	88040-04-53	1/4	5/32 (4)	.492 (12,5)	1.279 (32,5)	10
88040 00 003	88040-04	1/4		.492 (12,5)	1.378 (35)	10
88040 00 004	88040-05	5/16 (8)		.571 (14,5)	1.465 (37)	10
88040 00 009	88040-06-04	3/8	1/4	.688 (17,5)	1.555 (39,5)	10
88040 00 005	88040-06	3/8		.688 (17,5)	1.693 (43)	10
88040 00 011	88040-06-08	3/8	1/2	.807 (20,5)	1.850 (47)	10
88040 00 006	88040-08	1/2		.807 (20,5)	1.909 (48,5)	10

88050

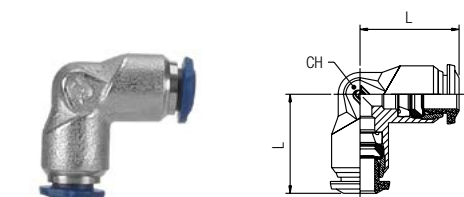
BULKHEAD UNION



Code	Usa Ref	Tube	M	L	CH	A max	Pack
88050 00 001	88050-02	1/8	M10X1	1.024 (26)	.551 (14)	.197 (5)	10
88050 00 002	88050-53	5/32 (4)	M12X1	1.220 (32)	.669 (17)	.276 (7)	10
88050 00 003	88050-04	1/4	M14X1	1.418 (36)	.669 (17)	.374 (9,5)	10
88050 00 004	88050-05	5/16 (8)	M16X1	1.476 (37,5)	.748 (19)	.413 (10,5)	10
88050 00 005	88050-06	3/8	M20X1	1.732 (44)	.945 (24)	.492 (12,5)	10
88050 00 006	88050-08	1/2	M22X1	1.929 (49)	1.024 (26)	.650 (16,5)	10

88130

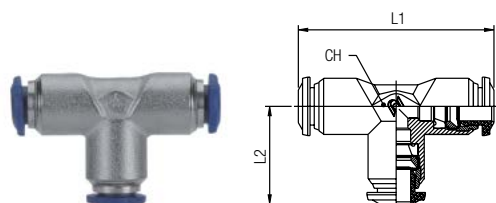
UNION ELBOW



Code	Usa Ref	Tube	L	CH	Pack
88130 00 001	88130-02	1/8	.669 (17)	.354 (9)	10
88130 00 002	88130-53	5/32 (4)	.669 (17)	.354 (9)	10
88130 00 003	88130-04	1/4	.827 (21)	.433 (11)	10
88130 00 004	88130-05	5/16 (8)	.905 (23)	.512 (13)	10
88130 00 005	88130-06	3/8	1.043 (26,5)	.630 (16)	10
88130 00 006	88130-08	1/2	1.201 (30,5)	.748 (19)	10

88230

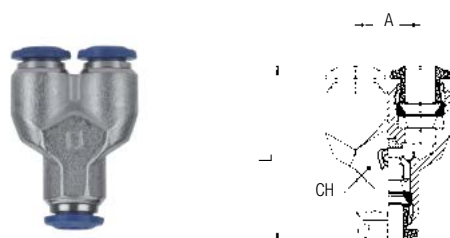
UNION TEE



Code	Usa Ref	Tube	L1	L2	CH	Pack
88230 00 001	88230-02	1/8	1.299 (33)	.669 (17)	.354 (9)	10
88230 00 002	88230-53	5/32 (4)	1.339 (34)	.669 (17)	.354 (9)	10
88230 00 003	88230-04	1/4	1.654 (42)	.827 (21)	.433 (11)	10
88230 00 004	88230-05	5/16 (8)	1.772 (45)	.886 (22,5)	.512 (13)	10
88230 00 005	88230-06	3/8	2.087 (53)	1.043 (26,5)	.630 (16)	10
88230 00 006	88230-08	1/2	2.402 (61)	1.201 (30,5)	.748 (19)	10

88310

UNION Y



Code	Usa Ref	Tube	A	L	CH	Pack
88310 00 001	88310-02	1/8	.394 (10)	1.142 (29)	.433 (11)	10
88310 00 002	88310-53	5/32 (4)	.433 (11)	1.260 (32)	.433 (11)	10
88310 00 003	88310-04	1/4	.531 (13,5)	1.437 (36,5)	.511 (13)	10
88310 00 004	88310-05	5/16 (8)	.610 (15,5)	1.514 (41)	.511 (13)	10
88310 00 005	88310-06	3/8	.728 (18,5)	1.890 (48)	.708 (18)	10

NPTF BANJO STEM ASSEMBLIES

Examples of various banjo stems with single and double banjo bodies

BANJO STEM

Part No.

81410

81420

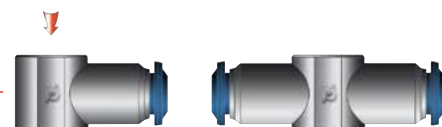
81430



NYLON WASHER



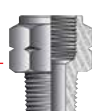
BANJO BODY INCH OR METRIC



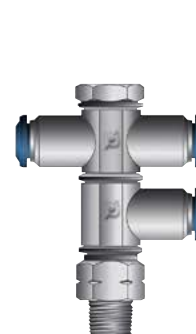
NYLON WASHER



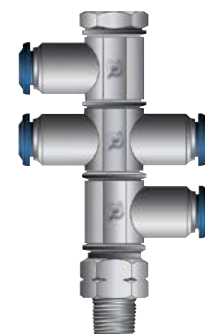
ADAPTER



Single
banjo stem



Double
banjo stem

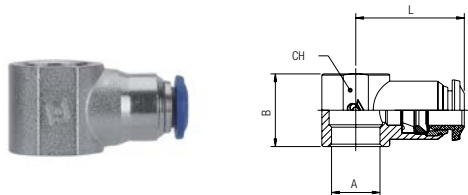


Triple
banjo stem

With nylon banjo body remove the washer.

88500

SINGLE BANJO BODY

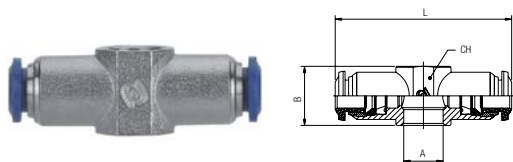


Code	Usa Ref	Tube	A	B	L	CH	Pack
88500 00 002	88500-02-02	1/8	1/8	.591 (15)	.767 (19,5)	.551 (14)	10
88500 00 001	88500-53-32	5/32 (4)	10/32	.492 (12,5)	.748 (19)	-	10
88500 00 003	88500-53-02	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)	10
88500 00 004	88500-04-02	1/4	1/8	.591 (15)	.885 (22,5)	.551 (14)	10
88500 00 005	88500-04-04	1/4	1/4	.669 (17)	.984 (25)	.709 (18)	10
88500 00 006	88500-06-04	3/8	1/4	.669 (17)	1.142 (29)	.709 (18)	10
88500 00 007	88500-06-06	3/8	3/8	.787 (20)	1.201 (30,5)	.827 (21)	10
88500 00 008	88500-08-06	1/2	3/8	.787 (20)	1.259 (32)	.827 (21)	10
88500 00 009	88500-08-08	1/2	1/2	.944 (24)	1.377 (35)	.984 (25)	10

For BANJO STEM assemblies

88510

DOUBLE BANJO BODY

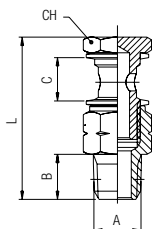


Code	Usa Ref	Tube	A	B	L	CH	Pack
88510 00 001	88510-53-32	5/32 (4)	10/32	.492 (12,5)	1.496 (38)	-	10
88510 00 004	88510-04-02	1/4	1/8	.591 (15)	1.732 (44)	.551 (14)	10
88510 00 005	88510-04-04	1/4	1/4	.669 (17)	1.968 (50)	.709 (18)	10

For BANJO STEM assemblies

81410

SINGLE BANJO STEM



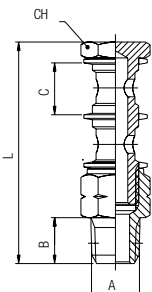
NPTF

UNF

Code	Usa Ref	A	B	C	L	CH	Pack
81410 00 011	81410-32	10/32 UNF	.177 (4,5)	.492 (15,5)	1.200 (30,5)	.315 (8)	10
81410 00 012	81410-02	1/8	.334 (8,5)	.591 (15)	1.653 (42)	.551 (14)	10
81410 00 013	81410-04	1/4	.511 (13)	.669 (17)	2.047 (52)	.669 (17)	10
81410 00 014	81410-06	3/8	.511 (13)	.787 (20)	2.106 (53,5)	.748 (19)	10

81420

DOUBLE BANJO STEM

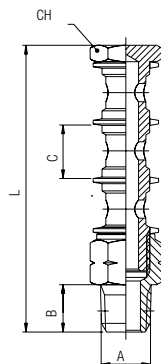


NPTF

Code	Usa Ref	A NPTF	B	C	L	CH	Pack
81420 00 012	81420-02	1/8	.334 (8,5)	.591 (15)	2.283 (58)	.551 (14)	10
81420 00 013	81420-04	1/4	.511 (13)	.669 (17)	2.755 (70)	.669 (17)	10
81420 00 014	81420-06	3/8	.511 (13)	.787 (20)	3.031 (77)	.748 (19)	10

81430

TRIPLE BANJO STEM

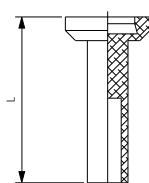


NPTF

Code	Usa Ref	A NPTF	B	C	L	CH	Pack
81430 00 012	81430-02	1/8	.334 (8,5)	.591 (15)	2.913 (74)	.551 (14)	10
81430 00 013	81430-04	1/4	.511 (13)	.669 (17)	3.464 (88)	.669 (17)	10
81430 00 014	81430-06	3/8	.511 (13)	.787 (20)	3.897 (99)	.748 (19)	10

88610

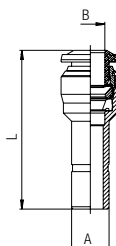
NYLON PLUG



Code	Usa Ref	Tube	L	Pack
88610 00 31 02 NE	88610B-02	1/8	.708 (18)	10
88610 00 31 27 NE	88610B-53	5/32 (4)	.925 (23,5)	10
88610 00 31 03 NE	88610B-04	1/4	.964 (24,5)	10
88610 00 31 28 NE	88610B-05	5/16 (8)	1.023 (26)	10
88610 00 31 04 NE	88610B-06	3/8	1.122 (28,5)	10
88610 00 31 05 NE	88610B-08	1/2	1.122 (28,5)	10

88700

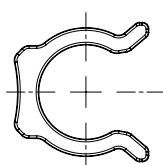
TUBE REDUCER



Code	Usa Ref	A	B	L	Pack
88700 00 001	88700-04-02	1/4	1/8	1.181 (30)	10
88700 00 002	88700-04-53	1/4	5/32 (4)	1.181 (30)	10
88700 00 003	88700-06-04	3/8	1/4	1.377 (35)	10
88700 00 004	88700-08-04	1/2	1/4	1.693 (43)	10
88700 00 005	88700-08-06	1/2	3/8	1.693 (43)	10

50980

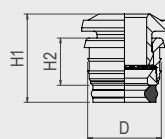
SECURITY CLIP



Code	Usa Ref	Tube	Pack.
50980 00 32 X1 RO	50980-53	5/32 (4)	50
50980 00 32 X4 RO	50980-04	1/4 (6)	50
50980 00 32 X7 RO	50980-05	5/16 (8)	50
50980 00 32 X9 RO	50980-06	3/8 (10)	50
50980 00 32 Y1 RO	50980-08	1/2 (12)	50

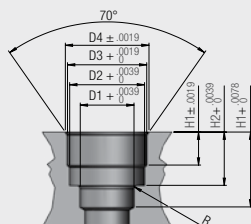
87800

PUSH-FIT CARTRIDGES



Code	Usa Ref	Tube	H1	H2	D	Pack
87800 00 001	87800-02	1/8	.382 (9,7)	.197 (5)	.264 (6,7)	25
87800 00 002	87800-53	5/32 (4)	.433 (11)	.220 (5,6)	.343 (8,7)	25
87800 00 003	87800-04	1/4	.528 (13,4)	.272 (6,9)	.423 (10,75)	25
87800 00 004	87800-05	5/16 (8)	.528 (13,4)	.270 (6,85)	.500 (12,7)	25
87800 00 005	87800-06	3/8	.630 (16)	.335 (8,5)	.618 (15,7)	25
87800 00 006	87800-08	1/2	.720 (18,3)	.374 (9,5)	.720 (18,3)	25

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



Code	Usa Ref	Tube	ø Body
55801 00 007	55801-3	1/8 (3)	.394 (10)
55801 00 001	55801-4	5/32 (4)	.394 (10)
87801 00 002	87801-04	1/4	.472 (12)
55801 00 003	55801-8	5/16 (8)	.472 (12)
87801 00 003	87801-06	3/8	.630 (16)
87801 00 004	87801-8	1/2	.630 (16)

55802

TOOL FOR PUSH-FIT CARTRIDGES SEAT



Code	Usa Ref	Tube
55802 00 001	55802-3	1/8
55802 00 002	55802-4	5/32 (4)
55802 00 004	55802-6	1/4 (6)
55802 00 005	55802-8	5/16 (8)
55802 00 006	55802-10	3/8 (10)
55802 00 007	55802-12	1/2 (12)

PUSH-FIT CARTRIDGE ASSEMBLING INSTRUCTIONS ART. 87800

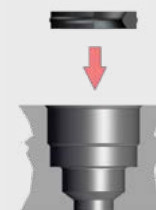
1

Use tool to drill into material to create the seat for the Push-Fit Cartridge.



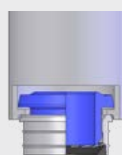
2

Insert lip seal.



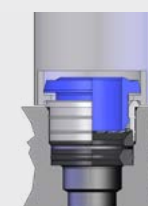
3

Insert cartridge into the assembling tool.



4

Press cartridge into the seat until it stops.



FITTING KITS

87861-02

FITTING KIT - 1/8 TUBE



Code	Usa Ref	Description	Qty
87000 00 001	87000-02-02	Straight Male - 1/8 Tube x 1/8 Male	5
87000 00 002	87000-02-04	Straight Male - 1/8 Tube x 1/4 Male	5
87000 00 005	87000-04-02	Straight Male - 1/4 Tube x 1/8 Male	5
87111 00 001	87111-02-02	Swivel Elbow - 1/8 Tube x 1/8 Male	5
87111 00 002	87111-02-04	Swivel Elbow - 1/8 Tube x 1/4 Male	5
87111 00 005	87111-04-02	Swivel Elbow - 1/4 Tube x 1/8 Male	5
87211 00 001	87211-02-02	Swivel Branch Tee - 1/8 Tube x 1/8 Male	5
87211 00 002	87211-02-04	Swivel Branch Tee - 1/8 Tube x 1/4 Male	5
87211 00 005	87211-04-02	Swivel Branch Tee - 1/4 Tube x 1/8 Male	5
88040 00 001	88040-02	Union - 1/8 Tube	5
88130 00 001	88130-02	Union Elbow - 1/8 Tube	5
88230 00 001	88230-02	Union Tee - 1/8 Tube	5

87861-04

FITTING KIT - 1/4 TUBE



Code	Usa Ref	Description	Qty
87000 00 005	87000-04-02	Straight Male - 1/4 Tube x 1/8 Male	5
87000 00 006	87000-04-04	Straight Male - 1/4 Tube x 1/4 Male	5
87000 00 007	87000-04-06	Straight Male - 1/4 Tube x 3/8 Male	5
87111 00 005	87111-04-02	Swivel Elbow - 1/4 Tube x 1/8 Male	5
87111 00 006	87111-04-04	Swivel Elbow - 1/4 Tube x 1/4 Male	5
87111 00 007	87111-04-06	Swivel Elbow - 1/4 Tube x 3/8 Male	5
87211 00 005	87211-04-02	Swivel Branch Tee - 1/4 Tube x 1/8 Male	5
87211 00 006	87211-04-04	Swivel Branch Tee - 1/4 Tube x 1/4 Male	5
87211 00 014	87211-04-06	Swivel Branch Tee - 1/4 Tube x 3/8 Male	5
88040 00 003	88040-04	Union - 1/4 Tube	5
88130 00 003	88130-04	Union Elbow - 1/4 Tube	5
88230 00 003	88230-04	Union Tee - 1/4 Tube	5

87861-06

FITTING KIT - 3/8 TUBE



Code	Usa Ref	Description	Qty
87000 00 012	87000-06-04	Straight Male - 3/8 Tube x 1/4 Male	5
87000 00 013	87000-06-06	Straight Male - 3/8 Tube x 3/8 Male	5
87000 00 014	87000-06-08	Straight Male - 3/8 Tube x 1/2 Male	5
87111 00 012	87111-06-04	Swivel Elbow - 3/8 Tube x 1/4 Male	5
87111 00 013	87111-06-06	Swivel Elbow - 3/8 Tube x 3/8 Male	5
87111 00 014	87111-06-08	Swivel Elbow - 3/8 Tube x 1/2 Male	5
87211 00 007	87211-06-04	Swivel Branch Tee - 3/8 Tube x 1/4 Male	5
87211 00 008	87211-06-06	Swivel Branch Tee - 3/8 Tube x 3/8 Male	5
87211 00 009	87211-06-08	Swivel Branch Tee - 3/8 Tube x 1/2 Male	5
88040 00 005	88040-06	Union - 3/8 Tube	5
88130 00 005	88130-06	Union Elbow - 3/8 Tube	5
88230 00 005	88230-06	Union Tee - 3/8 Tube	5

87861-08

FITTING KIT - 1/2 TUBE



Code	Usa Ref	Description	Qty
87000 00 015	87000-08-04	Straight Male - 1/2 Tube x 1/4 Male	5
87000 00 016	87000-08-06	Straight Male - 1/2 Tube x 3/8 Male	5
87000 00 017	87000-08-08	Straight Male - 1/2 Tube x 1/2 Male	5
87111 00 015	87111-08-04	Swivel Elbow - 1/2 Tube x 1/4 Male	5
87111 00 016	87111-08-06	Swivel Elbow - 1/2 Tube x 3/8 Male	5
87111 00 017	87111-08-08	Swivel Elbow - 1/2 Tube x 1/2 Male	5
87211 00 010	87211-08-04	Swivel Branch Tee - 1/2 Tube x 1/4 Male	5
87211 00 011	87211-08-06	Swivel Branch Tee - 1/2 Tube x 3/8 Male	5
87211 00 012	87211-08-08	Swivel Branch Tee - 1/2 Tube x 1/2 Male	5
88040 00 006	88040-08	Union - 1/2 Tube	5
88130 00 006	88130-08	Union Elbow - 1/2 Tube	5
88230 00 006	88230-08	Union Tee - 1/2 Tube	5

87861-90

FITTING KIT



Code	Usa Ref	Description	Qty
87000 00 006	87000-04-04	Straight Male - 1/4 Tube x 1/4 Male	5
87000 00 013	87000-06-06	Straight Male - 3/8 Tube x 3/8 Male	5
87000 00 017	87000-08-08	Straight Male - 1/2 Tube x 1/2 Male	5
87111 00 006	87111-04-04	Swivel Elbow - 1/4 Tube x 1/4 Male	5
87111 00 013	87111-06-06	Swivel Elbow - 3/8 Tube x 3/8 Male	5
87111 00 017	87111-08-08	Swivel Elbow - 1/2 Tube x 1/2 Male	5
87211 00 006	87211-04-04	Swivel Branch Tee - 1/4 Tube x 1/4 Male	5
87211 00 008	87211-06-06	Swivel Branch Tee - 3/8 Tube x 3/8 Male	5
87211 00 012	87211-08-08	Swivel Branch Tee - 1/2 Tube x 1/2 Male	5
88040 00 003	88040-04	Union - 1/4 Tube	5
88040 00 005	88040-06	Union - 3/8 Tube	5
88040 00 006	88040-08	Union - 1/2 Tube	5
88130 00 003	88130-04	Union Elbow - 1/4 Tube	5
88130 00 005	88130-06	Union Elbow - 3/8 Tube	5
88130 00 006	88130-08	Union Elbow - 1/2 Tube	5
88230 00 003	88230-04	Union Tee - 1/4 Tube	5
88230 00 005	88230-06	Union Tee - 3/8 Tube	5
88230 00 006	88230-08	Union Tee - 1/2 Tube	5