AIGNEP

87000 - 88000 Series


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

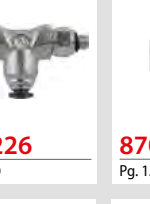

87211
Pg. 1.8


87216
Pg. 1.8


87222
Pg. 1.8


88225
Pg. 1.9


87223
Pg. 1.9


87226
Pg. 1.9


87007
Pg. 1.10

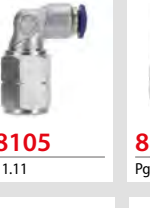

87117
Pg. 1.10

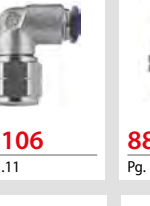

88000
Pg. 1.10


88030
Pg. 1.10


88055
Pg. 1.11


88100
Pg. 1.11


88105
Pg. 1.11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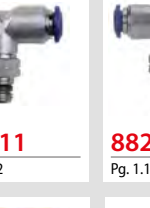
Pg. 1.11


88110
Pg. 1.12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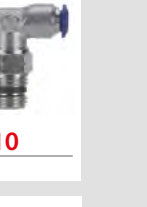
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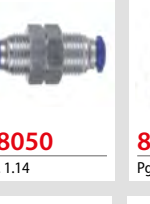
Pg. 1.13


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

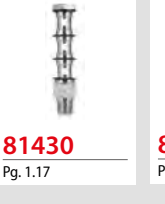

88310
Pg. 1.15


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

AIGNEP

PUSH-TO-CONNECT FITTINGS

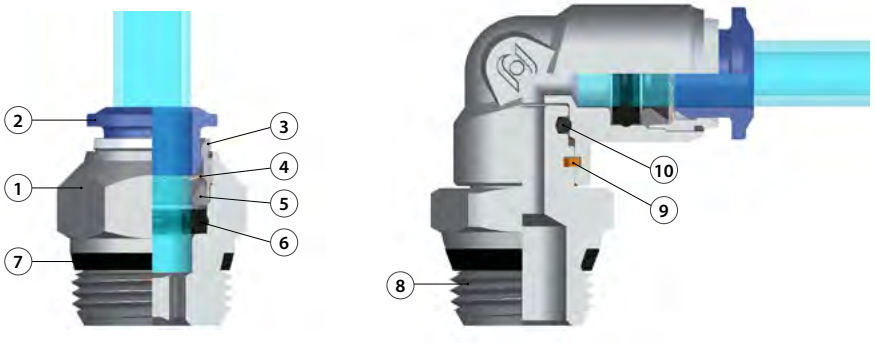


87 - 88 Series

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

Temperature 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 results)
PTFE
FEP

SWIFTFIT Universal thread

One fitting... Endless possibilities

NPT NPTF TAPERED	ISO 7 BSPP - PF PARALLEL	ISO 7 BSPT - PT TAPERED	ISO 228 BSP PARALLEL



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 their airtight 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.

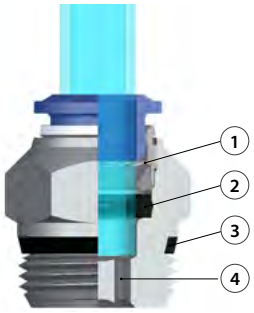


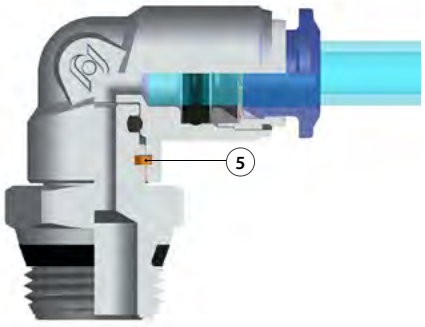
Torque Specifications

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 kind of material without damage the surface. The connection between the tube and the fitting ensures a total tightness even in severe conditions such as impact and vibrations.

2 The particular geometric shape of the seal ensures 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.

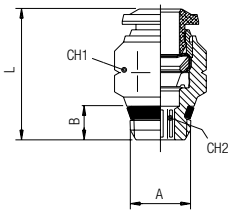
5 Orienting fitting with safety ring Inside. Improved durability to the rotation and traction.

87000

SWIFTFIT Universal thread

STRAIGHT MALE





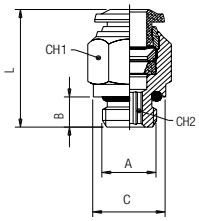
Code	Usa Ref	Tube	A	B	L	CH1	CH2	Pack
87000 00 001	87000-02-02	1/8	1/8	.217 (5.5)	.650 (16.5)	.433 (11)	.079 (2)	10
87000 00 002	87000-02-04	1/8	1/4	.276 (7)	.728 (18.5)	.551 (14)	.079 (2)	10
87000 00 003	87000-53-02	5/32 (4)	1/8	.197 (5)	.709 (18)	.433 (11)	.118 (3)	10
87000 00 004	87000-53-04	5/32 (4)	1/4	.276 (7)	.768 (19.5)	.551 (14)	.118 (3)	10
87000 00 005	87000-04-02	1/4	1/8	.197 (5)	.866 (22)	.512 (13)	.157 (4)	10
87000 00 006	87000-04-04	1/4	1/4	.276 (7)	.827 (21)	.551 (14)	.157 (4)	10
87000 00 007	87000-04-06	1/4	3/8	.295 (7.5)	.827 (21)	.669 (17)	.157 (4)	10
87000 00 008	87000-05-02	5/16 (8)	1/8	.197 (5)	.965 (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)	.906 (23)	.669 (17)	.236 (6)	10
87000 00 011	87000-06-02	3/8	1/8	.197 (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)	.236 (6)	10
87000 00 013	87000-06-06	3/8	3/8	.295 (7.5)	1.043 (26.5)	.669 (17)	.236 (6)	10
87000 00 014	87000-06-08	3/8	1/2	.354 (9)	1.043 (26.5)	.827 (21)	.236 (6)	10
87000 00 018	87000-08-02	1/2	1/8	.217 (5.5)	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)	.276 (7)	10
87000 00 016	87000-08-06	1/2	3/8	.295 (7.5)	1.260 (32)	.787 (20)	.354 (9)	10
87000 00 017	87000-08-08	1/2	1/2	.354 (9)	1.260 (32)	.827 (21)	.394 (10)	10

88020

UNF

STRAIGHT MALE





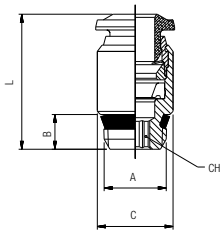
Code	Usa Ref	Tube	A	B	C	L	CH1	CH2	Pack
88020 00 001	88020-02-32	1/8	10/32	.157 (4)	.315 (8)	.709 (18)	.315 (8)	.079 (2)	10
88020 00 002	88020-53-32	5/32 (4)	10/32	.157 (4)	.315 (8)	.827 (21)	.394 (10)	.079 (2)	10
88020 00 003	88020-04-32	1/4	10/32	.157 (4)	.394 (10)	.925 (23.5)	.512 (13)	.079 (2)	10

87010

SWIFTFIT Universal thread

STRAIGHT MALE WITH INTERNAL HEX





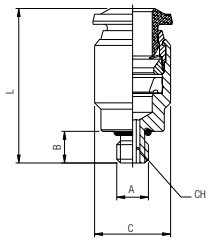
Code	Usa Ref	Tube	A	B	C	L	CH	Pack
87010 00 003	87010-53-02	5/32 (4)	1/8	.217 (5.5)	.433 (11)	.709 (18)	.118 (3)	10
87010 00 005	87010-04-02	1/4	1/8	.217 (5.5)	.472 (12)	.846 (21.5)	.157 (4)	10
87010 00 006	87010-04-04	1/4	1/4	.276 (7)	.551 (14)	.846 (21.5)	.157 (4)	10

87010

UNF

STRAIGHT MALE WITH INTERNAL HEX





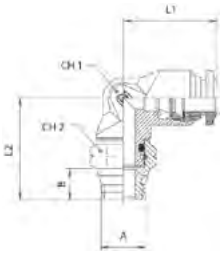
Code	Usa Ref	Tube	A	B	C	L	CH	Pack
87010 00 001	87010-02-32	1/8	10/32	.157 (4)	.315 (8)	.709 (18)	.098 (2.5)	10
87010 00 002	87010-53-32	5/32 (4)	10/32	.157 (4)	.394 (10)	.787 (20)	.098 (2.5)	10
87010 00 004	87010-04-32	1/4	10/32	.157 (4)	.472 (12)	.925 (23.5)	.098 (2.5)	10

87110

SWIFTFIT Universal thread

SWIVEL ELBOW





Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	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

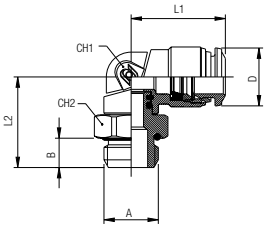
WHILE SUPPLY LAST

88115

UNF

SWIVEL ELBOW





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

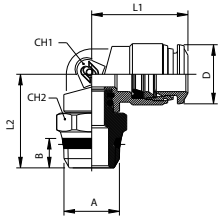
87111

New

SWIFTFIT Universal thread

SWIVEL ELBOW





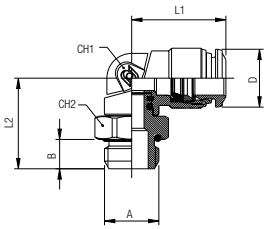
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87111 00 001	87111-02-02	1/8	1/8	.217 (5.5)	.650 (16.5)	.768 (19.5)	.354 (9)	.512 (13)	.394 (10)	10
87111 00 002	87111-02-04	1/8	1/4	.276 (7)	.650 (16.5)	.827 (21)	.354 (9)	.591 (15)	.394 (10)	10
87111 00 003	87111-53-02	5/32 (4)	1/8	.217 (5.5)	.709 (18)	.768 (19.5)	.354 (9)	.512 (13)	.394 (10)	10
87111 00 004	87111-53-04	5/32 (4)	1/4	.276 (7)	.709 (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)	.512 (13)	.492 (12.5)	10
87111 00 006	87111-04-04	1/4	1/4	.276 (7)	.827 (21)	.906 (23)	.433 (11)	.591 (15)	.492 (12.5)	10
87111 00 007	87111-04-06	1/4	3/8	.295 (7.5)	.827 (21)	.925 (23.5)	.433 (11)	.669 (17)	.492 (12.5)	10
87111 00 008	87111-05-02	5/16 (8)	1/8	.217 (5.5)	.886 (22.5)	.945 (24)	.472 (12)	.512 (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)	.512 (13)	.571 (14.5)	10
87111 00 011	87111-06-02	3/8	1/8	.217 (5.5)	1.043 (26.5)	1.024 (26)	.551 (14)	.551 (14)	.689 (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)	.689 (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)	.689 (17.5)	10
87111 00 014	87111-06-08	3/8	1/2	.354 (9)	1.043 (26.5)	1.142 (29)	.551 (14)	.827 (21)	.689 (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)	1.091 (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)	1.189 (30.2)	.630 (16)	.827 (21)	.846 (21.5)	10

87116

New UNF

SWIVEL ELBOW





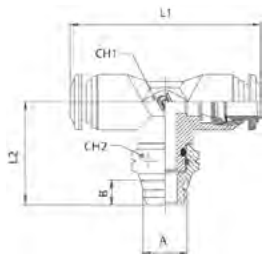
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87116 00 001	87116-02-32	1/8	10/32	.177 (4.5)	.630 (16)	.689 (17.5)	.354 (9)	.315 (8)	.394 (10)	10
87116 00 002	87116-53-32	5/32 (4)	10/32	.177 (4.5)	.689 (17.5)	.689 (17.5)	.354 (9)	.315 (8)	.394 (10)	10
87116 00 003	87116-04-32	1/4	10/32	.177 (4.5)	.827 (21)	.768 (19.5)	.433 (11)	.433 (11)	.492 (12.5)	10

87210

SWIFTFIT Universal thread

SWIVEL BRANCH TEE





Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
87210 00 001	87210-02-02	1/8	1/8	.217 (5.5)	1.299 (33)	.846 (21.5)	.354 (9)	.512 (13)	10
87210 00 002	87210-02-04	1/8	1/4	.276 (7)	1.299 (33)	1.004 (25.5)	.354 (9)	.591 (15)	10
87210 00 003	87210-53-02	5/32 (4)	1/8	.217 (5.5)	1.339 (34)	.846 (21.5)	.354 (9)	.512 (13)	10
87210 00 004	87210-53-04	5/32 (4)	1/4	.276 (7)	1.299 (33)	1.004 (25.5)	.354 (9)	.591 (15)	10
87210 00 005	87210-04-02	1/4	1/8	.217 (5.5)	1.693 (43)	.925 (23.5)	.433 (11)	.512 (13)	10
87210 00 006	87210-04-04	1/4	1/4	.276 (7)	1.693 (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	.217 (5.5)	2.047 (52)	1.083 (27.5)	.630 (16)	.591 (15)	10
87210 00 007	87210-06-04	3/8	1/4	.276 (7)	2.087 (53)	1.181 (30)	.630 (16)	.512 (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	.276 (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

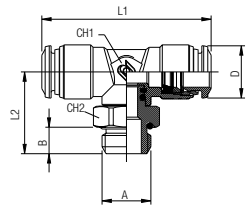
WHILE SUPPLY LAST

88215

UNF

SWIVEL BRANCH TEE





Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
88215 00 001	87210-02-32	1/8	10/32	.157 (4)	1.299 (33)	.689 (17.5)	.354 (9)	.315 (8)	.394 (10)	10
88215 00 002	87210-53-32	5/32 (4)	10/32	.157 (4)	1.299 (33)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
88215 00 003	87210-04-32	1/4	10/32	.157 (4)	1.693 (43)	.768 (19.5)	.433 (11)	.433 (11)	.492 (12.5)	10

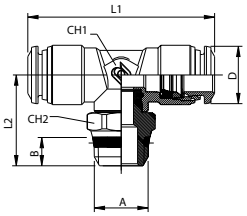
WHILE SUPPLY LAST

87211

New SWIFTFIT Universal thread

SWIVEL BRANCH TEE





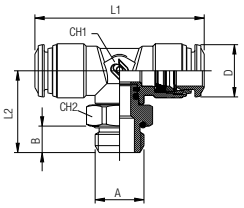
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87211 00 001	87211-02-02	1/8	1/8	.217 (5.5)	1.299 (33)	.807 (20.5)	.354 (9)	.512 (13)	.394 (10)	10
87211 00 002	87211-02-04	1/8	1/4	.276 (7)	1.299 (33)	.787 (20)	.354 (9)	.591 (15)	.394 (10)	10
87211 00 003	87211-53-02	5/32 (4)	1/8	.217 (5.5)	1.299 (33)	.787 (20)	.354 (9)	.512 (13)	.394 (10)	10
87211 00 004	87211-53-04	5/32 (4)	1/4	.276 (7)	1.299 (33)	.846 (21.5)	.354 (9)	.591 (15)	.394 (10)	10
87211 00 005	87211-04-02	1/4	1/8	.217 (5.5)	1.575 (40)	.846 (21.5)	.433 (11)	.512 (13)	.492 (12.5)	10
87211 00 006	87211-04-04	1/4	1/4	.276 (7)	1.575 (40)	.906 (23)	.433 (11)	.630 (16)	.492 (12.5)	10
87211 00 007	87211-04-06	1/4	3/8	.295 (7.5)	1.575 (40)	.925 (23.5)	.433 (11)	.669 (17)	.492 (12.5)	10
87211 00 008	87211-05-02	5/16 (8)	1/8	.217 (5.5)	1.772 (45)	.984 (25)	.512 (13)	.512 (13)	.571 (14.5)	10
87211 00 009	87211-05-04	5/16 (8)	1/4	.276 (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)	1.772 (45)	1.122 (28.5)	.512 (13)	.827 (21)	.571 (14.5)	10
87211 00 011	87211-06-02	3/8	1/8	.217 (5.5)	2.047 (52)	1.024 (26)	.551 (14)	.551 (14)	.689 (17.5)	10
87211 00 012	87211-06-04	3/8	1/4	.276 (7)	2.047 (52)	1.122 (28.5)	.551 (14)	.630 (16)	.689 (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)	.689 (17.5)	10
87211 00 014	87211-06-08	3/8	1/2	.354 (9)	2.047 (52)	1.142 (29)	.551 (14)	.827 (21)	.689 (17.5)	10
87211 00 015	87211-08-04	1/2	1/4	.276 (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)	1.146 (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

New UNF

SWIVEL BRANCH TEE





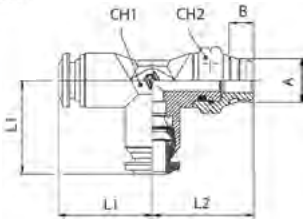
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87216 00 001	87216-02-32	1/8	10/32	.157 (4)	1.299 (33)	.748 (19)	.354 (9)	.315 (8)	.394 (10)	10
87216 00 002	87216-53-32	5/32 (4)	10/32	.157 (4)	1.299 (33)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
87216 00 003	87216-04-32	1/4	10/32	.157 (4)	1.654 (42)	.807 (20.5)	.433 (11)	.433 (11)	.492 (12.5)	10

87222

SWIFTFIT Universal thread

SWIVEL RUN TEE





Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	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

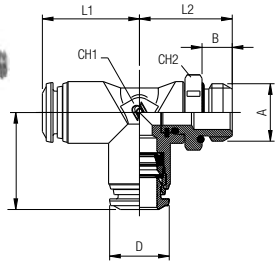
WHILE SUPPLY LAST

88225

UNF

SWIVEL RUN TEE





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

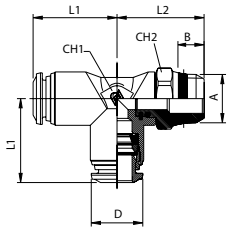
87223

New

SWIFTFIT Universal thread

SWIVEL RUN TEE





Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87223 00 001	87223-02-02	1/8	1/8	.217 (5.5)	.650 (16.5)	.728 (18.5)	.354 (9)	.512 (13)	.394 (10)	10
87223 00 002	87223-02-04	1/8	1/4	.276 (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	.217 (5.5)	.669 (17)	.787 (20)	.354 (9)	.512 (13)	.394 (10)	10
87223 00 004	87223-53-04	5/32 (4)	1/4	.276 (7)	.669 (17)	.846 (21.5)	.354 (9)	.591 (15)	.394 (10)	10
87223 00 005	87223-04-02	1/4	1/8	.217 (5.5)	.846 (21.5)	.846 (21.5)	.433 (11)	.512 (13)	.492 (12.5)	10
87223 00 006	87223-04-04	1/4	1/4	.276 (7)	.846 (21.5)	.906 (23)	.433 (11)	.591 (15)	.492 (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)	.492 (12.5)	10
87223 00 008	87223-05-02	5/16 (8)	1/8	.217 (5.5)	.886 (22.5)	.945 (24)	.512 (13)	.512 (13)	.512 (13)	10
87223 00 009	87223-05-04	5/16 (8)	1/4	.276 (7)	.886 (22.5)	.945 (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)	.965 (24.5)	.512 (13)	.512 (13)	.669 (17)	10
87223 00 018	87223-05-08	5/16 (8)	1/2	.354 (9)	.886 (22.5)	1.102 (28)	.512 (13)	.827 (21)	.571 (14.5)	10
87223 00 011	87223-06-02	3/8	1/8	.217 (5.5)	1.063 (27)	1.024 (26)	.551 (14)	.551 (14)	.689 (17.5)	10
87223 00 012	87223-06-04	3/8	1/4	.276 (7)	1.063 (27)	1.122 (28.5)	.551 (14)	.630 (16)	.689 (17.5)	10
87223 00 013	87223-06-06	3/8	3/8	.295 (7.5)	1.063 (27)	1.102 (28)	.551 (14)	.512 (13)	.689 (17.5)	10
87223 00 014	87223-06-08	3/8	1/2	.354 (9)	1.063 (27)	1.142 (29)	.551 (14)	.827 (21)	.689 (17.5)	10
87223 00 015	87223-08-04	1/2	1/4	.276 (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)	1.146 (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

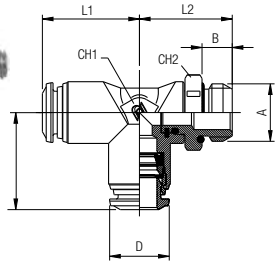
87226

New

UNF

SWIVEL RUN TEE





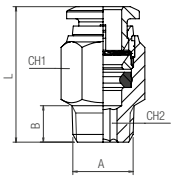
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	D	Pack
87226 00 001	87226-02-32	1/8	10/32	.177 (4.5)	.650 (16.5)	.748 (19)	.354 (9)	.315 (8)	.394 (10)	10
87226 00 002	87226-53-32	5/32 (4)	10/32	.177 (4.5)	.669 (17)	.709 (18)	.354 (9)	.315 (8)	.394 (10)	10
87226 00 003	87226-04-32	1/4	10/32	.177 (4.5)	.827 (21)	.807 (20.5)	.433 (11)	.433 (11)	.492 (12.5)	10

87007

PTF

STRAIGHT MALE





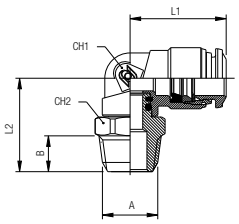
Code	Usa Ref	Tube	A	B	L	CH1	CH2	Pack
87007 00 003	87007-53-02	5/32(4)	1/8	.276 (7)	.768 (19.5)	.433 (11)	.118 (3)	10
87007 00 004	87007-53-04	5/32(4)	1/4	.413 (10.5)	.886 (22.5)	.551 (14)	.118 (3)	10
87007 00 005	87007-04-02	1/4	1/8	.276 (7)	.886 (22.5)	.512 (13)	.157 (4)	10
87007 00 006	87007-04-04	1/4	1/4	.413 (10.5)	.965 (24.5)	.551 (14)	.157 (4)	10

87117

PTF

SWIVEL ELBOW





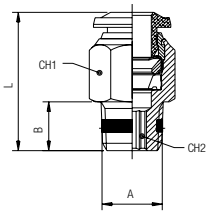
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
87117 00 003	87117-53-02	5/32(4)	1/8	.276 (7)	.709 (18)	.768 (19.5)	.354 (9)	.512 (13)	10
87117 00 004	87117-53-04	5/32(4)	1/4	.413 (10.5)	.709 (18)	.906 (23)	.354 (9)	.591 (15)	10
87117 00 005	87117-04-02	1/4	1/8	.276 (7)	.827 (21)	.846 (21.5)	.433 (11)	.512 (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

NPTF

STRAIGHT MALE





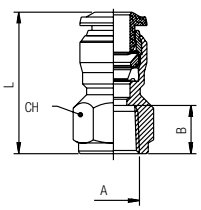
Code	Usa Ref	Tube	A	B	L	CH1	CH2	Pack
88000 00 001	88000-02-02	1/8	1/8	.335 (8.5)	.768 (19.5)	.433 (11)	.079 (2)	10
88000 00 002	88000-02-04	1/8	1/4	.512 (13)	.965 (24.5)	.551 (14)	.079 (2)	10
88000 00 003	88000-53-02	5/32 (4)	1/8	.335 (8.5)	.827 (21)	.433 (11)	.118 (3)	10
88000 00 004	88000-53-04	5/32 (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)	1.024 (26)	.512 (13)	.157 (4)	10
88000 00 006	88000-04-04	1/4	1/4	.512 (13)	1.063 (27)	.551 (14)	.157 (4)	10
88000 00 007	88000-04-06	1/4	3/8	.512 (13)	1.142 (29)	.709 (18)	.157 (4)	10
88000 00 008	88000-05-02	5/16 (8)	1/8	.335 (8.5)	1.063 (27)	.551 (14)	.197 (5)	10
88000 00 009	88000-05-04	5/16 (8)	1/4	.512 (13)	1.083 (27.5)	.551 (14)	.236 (6)	10
88000 00 010	88000-05-06	5/16 (8)	3/8	.512 (13)	1.083 (27.5)	.709 (18)	.236 (6)	10
88000 00 011	88000-06-02	3/8	1/8	.335 (8.5)	1.260 (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

NPTF

STRAIGHT FEMALE





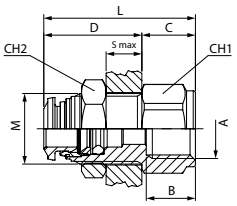
Code	Usa Ref	Tube	A	B	L	CH	Pack
88030 00 001	88030-02-02	1/8	1/8	.374 (9.5)	.945 (24)	.512 (13)	10
88030 00 002	88030-02-04	1/8	1/4	.531 (13.5)	.1.142 (29)	.630 (16)	10
88030 00 003	88030-53-02	5/32 (4)	1/8	.374 (9.5)	.984 (25)	.512 (13)	10
88030 00 004	88030-53-04	5/32 (4)	1/4	.531 (13.5)	1.181 (30)	.630 (16)	10
88030 00 005	88030-04-02	1/4	1/8	.374 (9.5)	1.083 (27.5)	.512 (13)	10
88030 00 006	88030-04-04	1/4	1/4	.512 (13)	1.280 (32.5)	.630 (16)	10
88030 00 007	88030-06-04	3/8	1/4	.531 (13.5)	1.398 (35.5)	.709 (18)	10
88030 00 008	88030-06-06	3/8	3/8	.531 (13.5)	1.398 (35.5)	.787 (20)	10

88055

NPTF

FEMALE BULKHEAD CONNECTOR





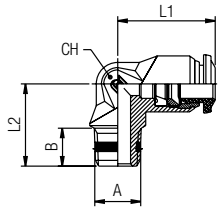
Code	Usa Ref	Tube	A	B	M	S max	CH1	CH2	C	D	L	Pack
88055 00 001	88055-53-02	5/32 (4)	1/8	.374 (9.5)	M12X1	.276 (7)	.591 (15)	.669 (17)	.394 (10)	.748 (19)	1.142 (29)	10
88055 00 009	88055-53-04	5/32 (4)	1/4	.531 (13.5)	M12X1	.276 (7)	.630 (16)	.669 (17)	.591 (15)	.748 (19)	1.339 (34)	10
88055 00 002	88055-04-02	1/4	1/8	.374 (9.5)	M14X1	.315 (8)	.630 (16)	.669 (17)	.394 (10)	.827 (21)	1.220 (31)	10
88055 00 003	88055-04-04	1/4	1/4	.531 (13.5)	M14X1	.315 (8)	.630 (16)	.669 (17)	.591 (15)	.827 (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)	.827 (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)	1.004 (25.5)	1.555 (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	.689 (17.5)	M22X1	.413 (10.5)	.945 (24)	1.024 (26)	.787 (20)	1.083 (27.5)	1.870 (47.5)	10

88100

NPTF

FIXED ELBOW





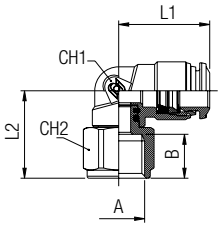
Code	Usa Ref	Tube	A	B	L1	L2	CH1	Pack
88100 00 001	88100-04-02	1/4	1/8	.335 (8.5)	.846 (21.5)	.728 (18.5)	.433 (11)	10
88100 00 002	88100-04-04	1/4	1/4	.512 (13)	.846 (21.5)	.906 (23)	.433 (11)	10
88100 00 003	88100-06-04	3/8	1/4	.512 (13)	1.063 (27)	1.043 (26.5)	.630 (16)	10
88100 00 004	88100-06-06	3/8	3/8	.512 (13)	1.063 (27)	1.004 (25.5)	.669 (17)	10

88105

NPTF

FEMALE ELBOW





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)	.512 (13)	10
88105 00 002	88105-53-04	5/32 (4)	1/4	.531 (13.5)	.669 (17)	1.240 (31.5)	.354 (9)	.630 (16)	10
88105 00 003	88105-04-02	1/4	1/8	.374 (9.5)	.846 (21.5)	1.063 (27)	.433 (11)	.512 (13)	10
88105 00 004	88105-04-04	1/4	1/4	.531 (13.5)	.827 (21)	1.280 (32.5)	.433 (11)	.630 (16)	10
88105 00 005	88105-06-02	3/8	1/8	.374 (9.5)	1.063 (27)	1.220 (31)	.512 (13)	.512 (13)	10
88105 00 006	88105-06-04	3/8	1/4	.531 (13.5)	1.063 (27)	1.398 (35.5)	.630 (16)	.630 (16)	10

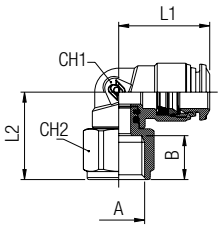
WHILE SUPPLY LAST

88106

New NPTF

FEMALE ELBOW





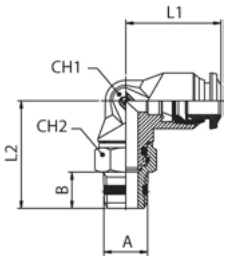
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88106 00 001	88106-53-02	5/32 (4)	1/8	.374 (9.5)	.689 (17.5)	.776 (19.7)	.354 (9)	.512 (13)	10
88106 00 002	88106-53-04	5/32 (4)	1/4	.531 (13.5)	.689 (17.5)	.933 (23.7)	.354 (9)	.630 (16)	10
88106 00 003	88106-04-02	1/4	1/8	.374 (9.5)	.846 (21.5)	.843 (21.4)	.433 (11)	.512 (13)	10
88106 00 004	88106-04-04	1/4	1/4	.531 (13.5)	.846 (21.5)	1 (25.4)	.433 (11)	.630 (16)	10
88106 00 005	88106-06-02	3/8	1/8	.374 (9.5)	1.063 (27)	.953 (24.2)	.512 (13)	.512 (13)	10
88106 00 006	88106-06-04	3/8	1/4	.531 (13.5)	1.063 (27)	1.110 (28.2)	.630 (16)	.630 (16)	10

88110

NPTF

SWIVEL ELBOW





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 00 015	88110-08-04	1/2	1/4	.512 (13)	1.201 (30.5)	1.555 (39.5)	.748 (19)	.591 (15)	10
88110 00 016	88110-08-06	1/2	3/8	.512 (13)	1.201 (30.5)	1.476 (37.5)	.748 (19)	.709 (18)	10
88110 00 017	88110-08-08	1/2	1/2	.669 (17)	1.201 (30.5)	1.732 (44)	.748 (19)	.866 (22)	10

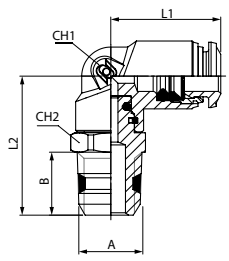
WHILE SUPPLY LAST

88111

New NPTF

SWIVEL ELBOW





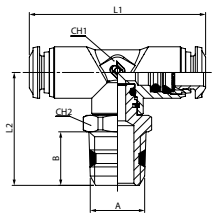
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88111 00 001	88111-02-02	1/8	1/8	.335 (8.5)	.669 (17)	.827 (21)	.354 (9)	.512 (13)	10
88111 00 002	88111-02-04	1/8	1/4	.512 (13)	.669 (17)	1.004 (25.5)	.354 (9)	.591 (15)	10
88111 00 003	88111-53-02	5/32 (4)	1/8	.335 (8.5)	.669 (17)	.827 (21)	.354 (9)	.512 (13)	10
88111 00 004	88111-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	1.004 (25.5)	.354 (9)	.591 (15)	10
88111 00 005	88111-04-02	1/4	1/8	.335 (8.5)	.827 (21)	.906 (23)	.433 (11)	.512 (13)	10
88111 00 006	88111-04-04	1/4	1/4	.512 (13)	.827 (21)	1.083 (27.5)	.433 (11)	.591 (15)	10
88111 00 007	88111-04-06	1/4	3/8	.512 (13)	.827 (21)	1.083 (27.5)	.433 (11)	.709 (18)	10
88111 00 008	88111-05-02	5/16 (8)	1/8	.335 (8.5)	.886 (22.5)	1.004 (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)	1.083 (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)	1.260 (32)	.551 (14)	.709 (18)	10
88111 00 014	88111-06-08	3/8	1/2	.669 (17)	1.043 (26.5)	1.398 (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)	.748 (19)	10
88111 00 017	88111-08-08	1/2	1/2	.669 (17)	1.201 (30.5)	1.445 (36.7)	.630 (16)	.866 (22)	10

88210

NPTF

SWIVEL BRANCH TEE





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)	.748 (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

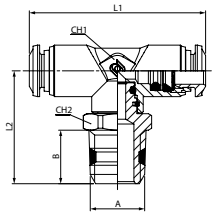
WHILE SUPPLY LAST

88211

New NPTF

SWIVEL BRANCH TEE





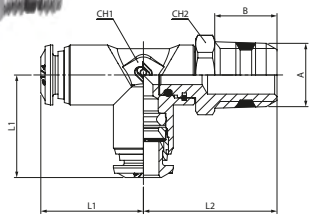
Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88211 00 001	88211-02-02	1/8	1/8	.335 (8.5)	1.299 (33)	.807 (20.5)	.354 (9)	.512 (13)	10
88211 00 002	88211-02-04	1/8	1/4	.512 (13)	1.299 (33)	.984 (25)	.354 (9)	.591 (15)	10
88211 00 003	88211-53-02	5/32 (4)	1/8	.335 (8.5)	1.299 (33)	.846 (21.5)	.354 (9)	.512 (13)	10
88211 00 004	88211-53-04	5/32 (4)	1/4	.512 (13)	1.299 (33)	1.024 (26)	.354 (9)	.591 (15)	10
88211 00 005	88211-04-02	1/4	1/8	.335 (8.5)	1.654 (42)	.906 (23)	.433 (11)	.512 (13)	10
88211 00 006	88211-04-04	1/4	1/4	.512 (13)	1.654 (42)	1.083 (27.5)	.433 (11)	.591 (15)	10
88211 00 008	88211-05-02	5/16 (8)	1/8	.335 (8.5)	1.772 (45)	1.043 (26.5)	.512 (13)	.512 (13)	10
88211 00 009	88211-05-04	5/16 (8)	1/4	.512 (13)	1.772 (45)	1.161 (29.5)	.512 (13)	.591 (15)	10
88211 00 010	88211-05-06	5/16 (8)	3/8	.512 (13)	1.772 (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)	1.260 (32)	.551 (14)	.709 (18)	10
88211 00 014	88211-06-08	3/8	1/2	.669 (17)	2.087 (53)	1.398 (35.5)	.551 (14)	.866 (22)	10
88211 00 015	88211-08-04	1/2	1/4	.512 (13)	2.402 (61)	1.402 (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)	.748 (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

NPTF

SWIVEL RUN TEE





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)	.748 (19)	.591 (15)	10
88222 00 011	88222-08-06	1/2	3/8	.512 (13)	1.201 (30.5)	1.476 (37.5)	.748 (19)	.709 (18)	10
88222 00 012	88222-08-08	1/2	1/2	.669 (17)	1.201 (30.5)	1.732 (44)	.748 (19)	.866 (22)	10

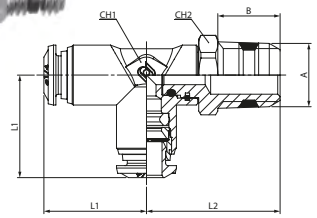
WHILE SUPPLY LAST

88223

New NPTF

SWIVEL RUN TEE



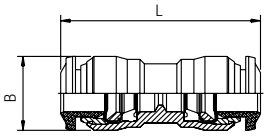


Code	Usa Ref	Tube	A	B	L1	L2	CH1	CH2	Pack
88223 00 001	88223-02-02	1/8	1/8	.335 (8.5)	.669 (17)	.807 (20.5)	.354 (9)	.512 (13)	10
88223 00 002	88223-02-04	1/8	1/4	.512 (13)	.669 (17)	.984 (25)	.354 (9)	.591 (15)	10
88223 00 003	88223-53-02	5/32 (4)	1/8	.335 (8.5)	.669 (17)	.846 (21.5)	.354 (9)	.512 (13)	10
88223 00 004	88223-53-04	5/32 (4)	1/4	.512 (13)	.669 (17)	1.024 (26)	.354 (9)	.591 (15)	10
88223 00 005	88223-04-02	1/4	1/8	.335 (8.5)	.827 (21)	.906 (23)	.433 (11)	.512 (13)	10
88223 00 006	88223-04-04	1/4	1/4	.512 (13)	.827 (21)	1.083 (27.5)	.433 (11)	.591 (15)	10
88223 00 008	88223-05-02	5/16 (8)	1/8	.335 (8.5)	.886 (22.5)	1.004 (25.5)	.512 (13)	.512 (13)	10
88223 00 009	88223-05-04	5/16 (8)	1/4	.512 (13)	.886 (22.5)	1.122 (28.5)	.512 (13)	.591 (15)	10
88223 00 010	88223-05-06	5/16 (8)	3/8	.512 (13)	.886 (22.5)	1.122 (28.5)	.512 (13)	.709 (18)	10
88223 00 012	88223-06-04	3/8	1/4	.512 (13)	1.043 (26.5)	1.299 (33)	.551 (14)	.591 (15)	10
88223 00 013	88223-06-06	3/8	3/8	.512 (13)	1.043 (26.5)	1.260 (32)	.551 (14)	.709 (18)	10
88223 00 014	88223-06-08	3/8	1/2	.669 (17)	1.043 (26.5)	1.398 (35.5)	.551 (14)	.866 (22)	10
88223 00 015	88223-08-04	1/2	1/4	.512 (13)	1.201 (30.5)	1.402 (35.6)	.630 (16)	.630 (16)	10
88223 00 016	88223-08-06	1/2	3/8	.512 (13)	1.201 (30.5)	1.303 (33.1)	.630 (16)	.748 (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



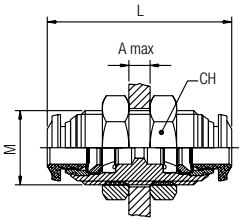


Code	Usa Ref	Tube	Tube	B	L	Pack
88040 00 001	88040-02	1/8		.335 (8.5)	1.024 (26)	10
88040 00 002	88040-53	5/32 (4)		.413 (10.5)	1.181 (30)	10
88040 00 007	88040-04-53	1/4	5/32 (4)	.492 (12.5)	1.280 (32.5)	10
88040 00 003	88040-04	1/4		.492 (12.5)	1.378 (35)	10
88040 00 004	88040-05	5/16 (8)		.571 (14.5)	1.457 (37)	10
88040 00 009	88040-06-04	3/8	1/4	.689 (17.5)	1.555 (39.5)	10
88040 00 005	88040-06	3/8		.689 (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



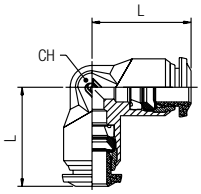


Code	Usa Ref	Tube	M	L	CH	A max	Pack
88050 00 001	88050-02	1/8	M10X1	1.024 (26)	.551 (14)	.197 (5)	10
88050 00 002	88050-53	5/32 (4)	M12X1	1.260 (32)	.669 (17)	.276 (7)	10
88050 00 003	88050-04	1/4	M14X1	1.417 (36)	.669 (17)	.374 (9.5)	10
88050 00 004	88050-05	5/16 (8)	M16X1	1.476 (37.5)	.748 (19)	.413 (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



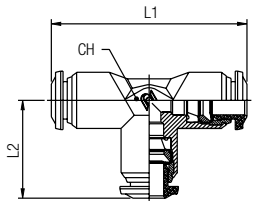


Code	Usa Ref	Tube	L	CH	Pack
88130 00 001	88130-02	1/8	.669 (17)	.354 (9)	10
88130 00 002	88130-53	5/32 (4)	.669 (17)	.354 (9)	10
88130 00 003	88130-04	1/4	.827 (21)	.433 (11)	10
88130 00 004	88130-05	5/16 (8)	.906 (23)	.512 (13)	10
88130 00 005	88130-06	3/8	1.043 (26.5)	.630 (16)	10
88130 00 006	88130-08	1/2	1.201 (30.5)	.748 (19)	10

88230

UNION TEE



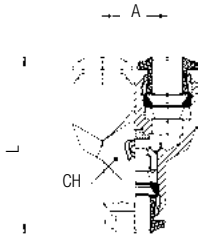


Code	Usa Ref	Tube	L1	L2	CH	Pack
88230 00 001	88230-02	1/8	1.299 (33)	.669 (17)	.354 (9)	10
88230 00 002	88230-53	5/32 (4)	1.339 (34)	.669 (17)	.354 (9)	10
88230 00 003	88230-04	1/4	1.654 (42)	.827 (21)	.433 (11)	10
88230 00 004	88230-05	5/16 (8)	1.772 (45)	.886 (22.5)	.512 (13)	10
88230 00 005	88230-06	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

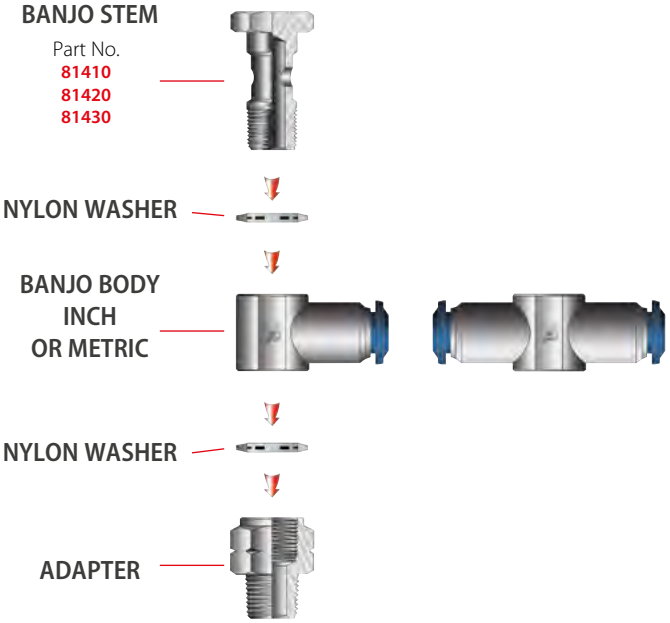




Code	Usa Ref	Tube	A	L	CH	Pack
88310 00 001	88310-02	1/8	.394 (10)	1.142 (29)	.433 (11)	10
88310 00 002	88310-53	5/32 (4)	.433 (11)	1.260 (32)	.433 (11)	10
88310 00 003	88310-04	1/4	.531 (13.5)	1.437 (36.5)	.512 (13)	10
88310 00 004	88310-05	5/16 (8)	.610 (15.5)	1.614 (41)	.512 (13)	10
88310 00 005	88310-06	3/8	.728 (18.5)	1.890 (48)	.709 (18)	10

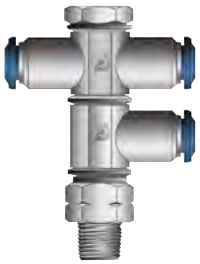
NPTF BANJO STEM ASSEMBLIES

Examples of various banjo stems with single and double banjo bodies

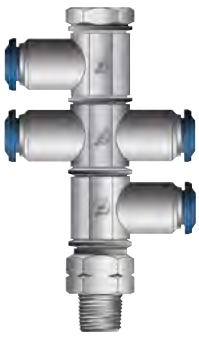




Single banjo stem



Double banjo stem



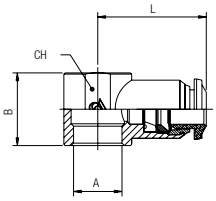
Triple banjo stem

With nylon banjo body remove the washer.

88500

SINGLE BANJO BODY





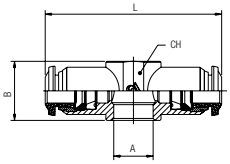
Code	Usa Ref	Tube	A	B	L	CH	Pack
88500 00 002	88500-02-02	1/8	1/8	.591 (15)	.768 (19.5)	.551 (14)	10
88500 00 001	88500-53-32	5/32 (4)	10/32	.492 (12.5)	.748 (19)	-	10
88500 00 003	88500-53-02	5/32 (4)	1/8	.591 (15)	.827 (21)	.551 (14)	10
88500 00 004	88500-04-02	1/4	1/8	.591 (15)	.886 (22.5)	.551 (14)	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)	1.260 (32)	.827 (21)	10
88500 00 009	88500-08-08	1/2	1/2	.945 (24)	1.378 (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)	1.969 (50)	.709 (18)	10

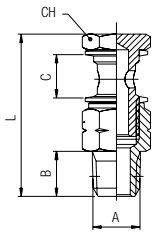
For BANJO STEM assemblies

81410

SINGLE BANJO STEM

NPTF
UNF





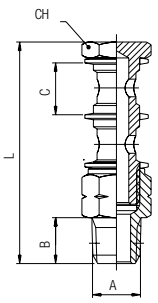
Code	Usa Ref	A	B	C	L	CH	Pack
81410 00 011	81410-32	10/32 UNF	.177 (4.5)	.610 (15.5)	1.201 (30.5)	.315 (8)	10
81410 00 012	81410-02	1/8	.335 (8.5)	.591 (15)	1.654 (42)	.551 (14)	10
81410 00 013	81410-04	1/4	.512 (13)	.669 (17)	2.047 (52)	.669 (17)	10
81410 00 014	81410-06	3/8	.512 (13)	.787 (20)	2.106 (53.5)	.748 (19)	10

81420

DOUBLE BANJO STEM

NPTF





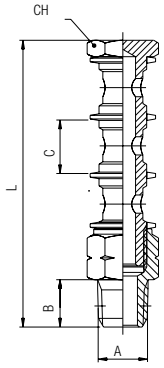
Code	Usa Ref	A NPTF	B	C	L	CH	Pack
81420 00 012	81420-02	1/8	.335 (8.5)	.591 (15)	2.283 (58)	.551 (14)	10
81420 00 013	81420-04	1/4	.512 (13)	.669 (17)	2.756 (70)	.669 (17)	10
81420 00 014	81420-06	3/8	.512 (13)	.787 (20)	3.031 (77)	.748 (19)	10

81430

NPTF

TRIPLE BANJO STEM



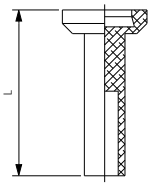


Code	Usa Ref	A NPTF	B	C	L	CH	Pack
81430 00 012	81430-02	1/8	.335 (8.5)	.591 (15)	2.913 (74)	.551 (14)	10
81430 00 013	81430-04	1/4	.512 (13)	.669 (17)	3.465 (88)	.669 (17)	10
81430 00 014	81430-06	3/8	.512 (13)	.787 (20)	3.898 (99)	.748 (19)	10

88610

NYLON PLUG



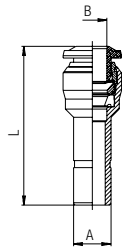


Code	Usa Ref	Tube	L	Pack
88610 00 31 02 NE	88610B-02	1/8	.709 (18)	10
88610 00 31 27 NE	88610B-53	5/32 (4)	.925 (23.5)	10
88610 00 31 03 NE	88610B-04	1/4	.965 (24.5)	10
88610 00 31 28 NE	88610B-05	5/16 (8)	1.024 (26)	10
88610 00 31 04 NE	88610B-06	3/8	1.122 (28.5)	10
88610 00 31 05 NE	88610B-08	1/2	1.122 (28.5)	10

88700

TUBE REDUCER



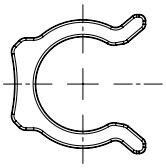


Code	Usa Ref	A	B	L	Pack
88700 00 001	88700-04-02	1/4	1/8	1.181 (30)	10
88700 00 002	88700-04-53	1/4	5/32 (4)	1.181 (30)	10
88700 00 003	88700-06-04	3/8	1/4	1.378 (35)	10
88700 00 004	88700-08-04	1/2	1/4	1.693 (43)	10
88700 00 005	88700-08-06	1/2	3/8	1.693 (43)	10

50980

SECURITY CLIP



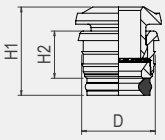


Code	Usa Ref	Tube	Pack.
50980 00 32 X1 RO	50980-53	5/32 (4)	50
50980 00 32 X4 RO	50980-04	1/4 (6)	50
50980 00 32 X7 RO	50980-05	5/16 (8)	50
50980 00 32 X9 RO	50980-06	3/8 (10)	50
50980 00 32 Y1 RO	50980-08	1/2 (12)	50

87800

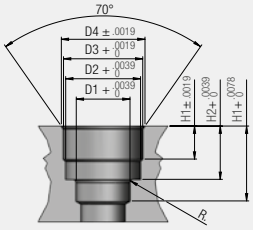
PUSH-FIT CARTRIDGES





Code	Usa Ref	Tube	H1	H2	D	Pack
87800 00 001	87800-02	1/8	.370 (9.4)	.197 (5)	.264 (6.7)	25
87800 00 002	87800-53	5/32 (4)	.429 (10.9)	.220 (5.6)	.343 (8.7)	25
87800 00 003	87800-04	1/4	.508 (12.9)	.272 (6.9)	.423 (10.75)	25
87800 00 004	87800-05	5/16 (8)	.512 (13)	.270 (6.85)	.500 (12.7)	25
87800 00 005	87800-06	3/8	.610 (15.5)	.335 (8.5)	.618 (15.7)	25
87800 00 006	87800-08	1/2	.697 (17.7)	.374 (9.5)	.720 (18.3)	25

SEAT



Seat 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)	.260 (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)	.382 (9.7)	.571 (14.5)	.606 (15.4)	.630 (16)	.264 (6.7)	.413 (10.5)	.591 (15)	.030 (0.75)
1/2 (13)	.512 (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