

Furon® Flare Grip® II

PFA Fittings
Product

Industry
Standard Fine
Flare Thread



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STRAIGHT FLARE GRIP® II FITTING LINE



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UAFF (Fuse-Bond)
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Note:
All fittings are class 100 clean room assembled and double bagged.
All pipe ends are manufactured to standard schedule 40 pipe dimensions.

ELBOW AND NUT FLARE GRIP® II FITTING LINE



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Male Run Tee

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BT
Branch Tee

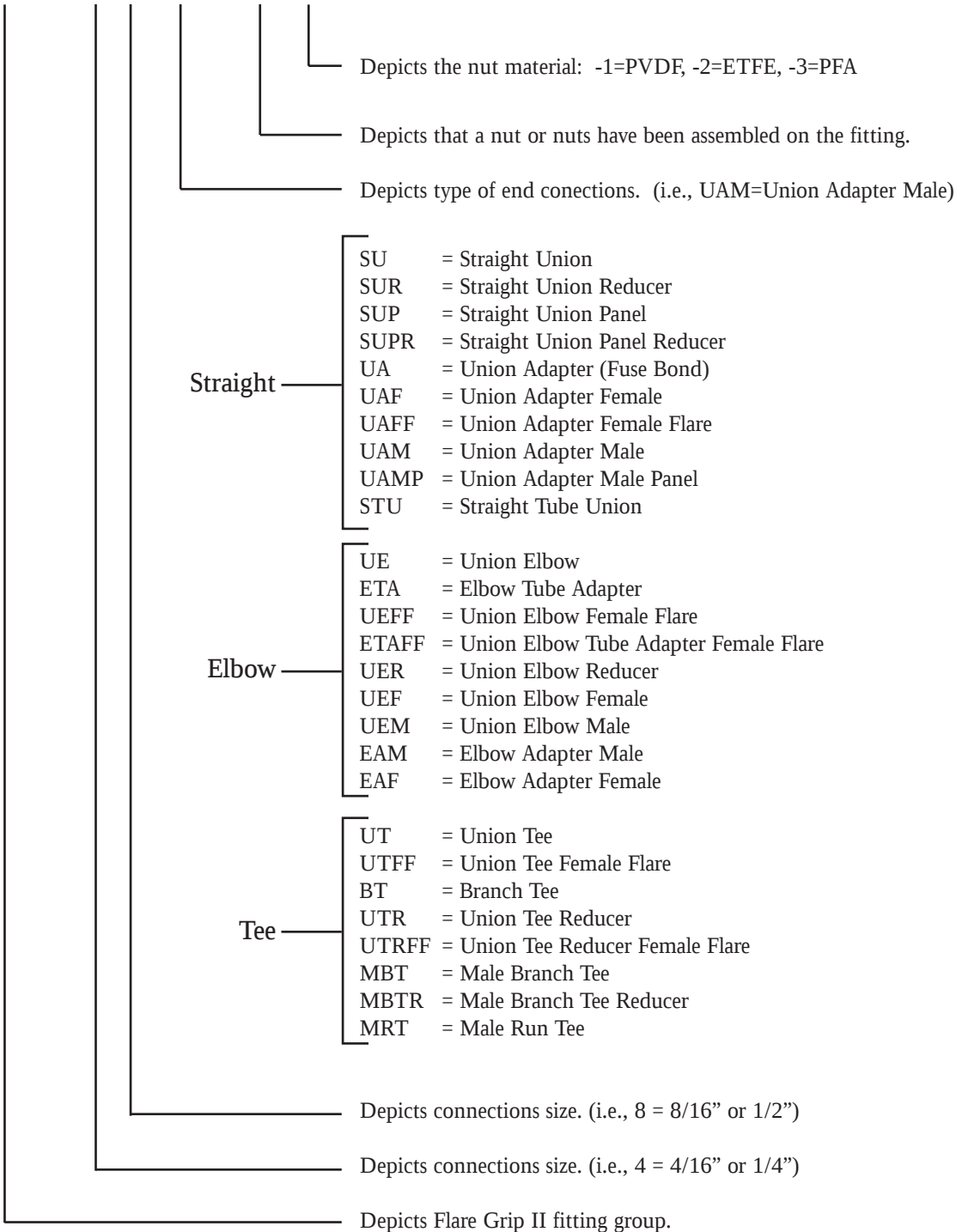
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ORDERING INFORMATION

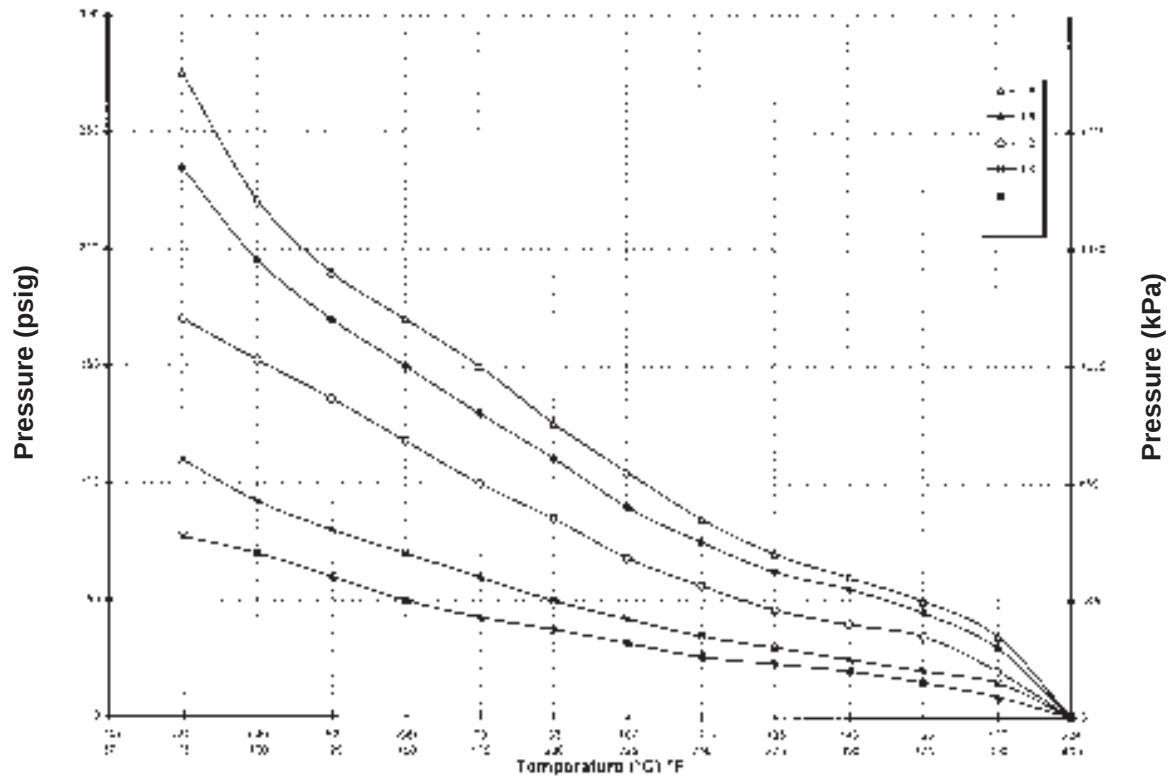
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FMF 4 8 UAM N-1

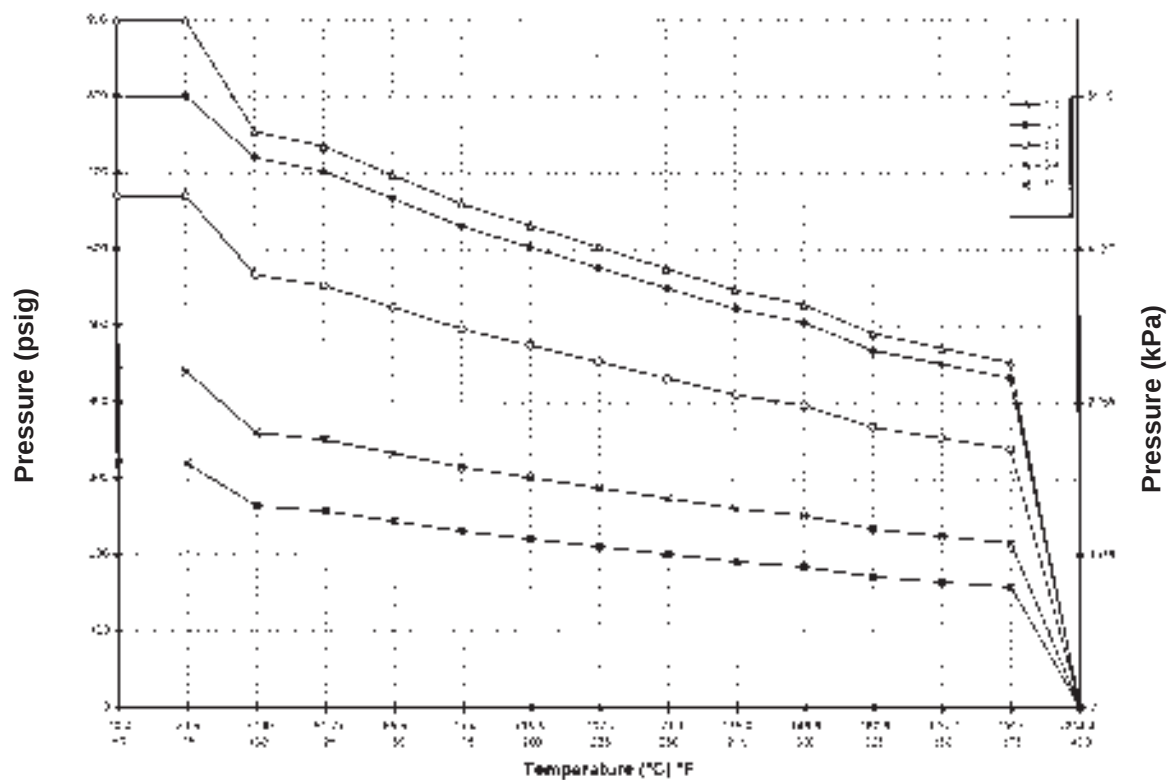


PERFORMANCE CHARTS

FINE THREAD FLARE MAX OPERATING PRESSURE



FINE THREAD FLARE BURST PRESSURE



MAXIMUM OPERATING PRESSURE VS. TEMPERATURE

PFA TUBING

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	275 (1896)	235 (1620)	170 (1172)	110 (758)	77 (531)
200	(93)	130 (896)	115 (793)	85 (586)	55 (379)	40 (276)
250	(121)	85 (586)	75 (517)	55 (379)	35 (241)	25 (172)
300	(149)	60 (414)	55 (379)	40 (276)	25 (172)	20 (138)
350	(177)	35 (241)	30 (207)	20 (138)	15 (103)	9 (62)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

PVDF NUT

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	275 (1896)	235 (1620)	170 (1172)	110 (758)	77 (531)
200	(93)	130 (896)	115 (793)	85 (586)	55 (379)	40 (276)
250	(121)	85 (586)	75 (517)	55 (379)	35 (241)	25 (172)
300	(149)	60 (414)	55 (379)	40 (276)	25 (172)	20 (138)
350	(177)	35 (241)	30 (207)	20 (138)	15 (103)	9 (62)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

PFA NUT

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	275 (1896)	235 (1620)	170 (1172)	110 (758)	77 (531)
200	(93)	130 (896)	115 (793)	85 (586)	55 (379)	40 (276)
250	(121)	85 (586)	75 (517)	55 (379)	35 (241)	25 (172)
300	(149)	60 (414)	55 (379)	40 (276)	25 (172)	20 (138)
350	(177)	35 (241)	30 (207)	20 (138)	15 (103)	9 (62)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

ETFE NUT

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	277 (1910)	237 (1634)	173 (1193)	112 (772)	77 (531)
200	(93)	132 (910)	117 (807)	87 (600)	57 (393)	40 (276)
250	(121)	88 (607)	77 (531)	58 (400)	35 (241)	25 (172)
300	(149)	63 (434)	58 (400)	42 (290)	25 (172)	21 (145)
350	(177)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

N/R: Not Recommended

BURST PRESSURE VS. TEMPERATURE

PFA TUBING

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	900 (6206)	800 (5516)	670 (4620)	440 (3034)	320 (2206)
200	(93)	631 (4353)	603 (4159)	474 (3270)	302 (2082)	221 (1527)
250	(121)	575 (3963)	549 (3787)	432 (2977)	275 (1895)	202 (1390)
300	(149)	528 (3638)	504 (3477)	396 (2733)	252 (1740)	185 (1276)
350	(177)	471 (3248)	450 (3104)	354 (2440)	225 (1553)	165 (1139)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

PVDF NUT

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	900 (6206)	800 (5516)	670 (4620)	440 (3034)	320 (2206)
200	(93)	631 (4353)	603 (4159)	474 (3270)	302 (2082)	221 (1527)
250	(121)	575 (3963)	549 (3787)	432 (2977)	275 (1895)	202 (1390)
300	(149)	528 (3638)	504 (3477)	396 (2733)	252 (1740)	185 (1276)
350	(177)	471 (3248)	450 (3104)	354 (2440)	225 (1553)	165 (1139)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

PFA NUT

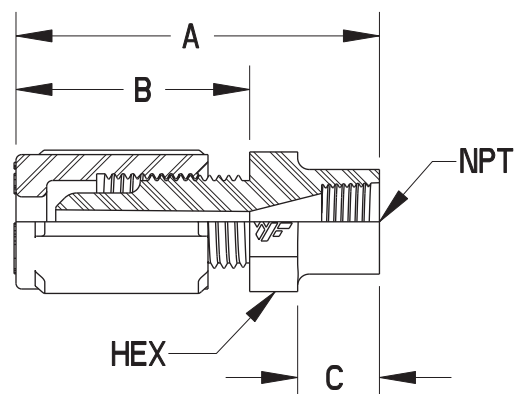
Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	900 (6206)	800 (5516)	670 (4620)	440 (3034)	320 (2206)
200	(93)	631 (4353)	603 (4159)	474 (3270)	302 (2082)	221 (1527)
250	(121)	575 (3963)	549 (3787)	432 (2977)	275 (1895)	202 (1390)
300	(149)	528 (3638)	504 (3477)	396 (2733)	252 (1740)	185 (1276)
350	(177)	471 (3248)	450 (3104)	354 (2440)	225 (1553)	165 (1139)
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

ETFE NUT

Temp°F	Temp°C	1/4" psi (kPa)	3/8" psi (kPa)	1/2" psi (kPa)	3/4" psi (kPa)	1" psi (kPa)
75	(24)	908 (6261)	805 (5550)	674 (4647)	444 (3061)	324 (2234)
200	(93)	620 (4275)	525 (3620)	465 (3206)	300 (2069)	220 (1517)
250	(121)	570 (3930)	477 (3289)	427 (2944)	273 (1882)	200 (1379)
300	(149)	530 (3654)	447 (3082)	397 (2737)	250 (1724)	190 (1310)
350	(177)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R
400	(204)	N/R N/R	N/R N/R	N/R N/R	N/R N/R	N/R N/R

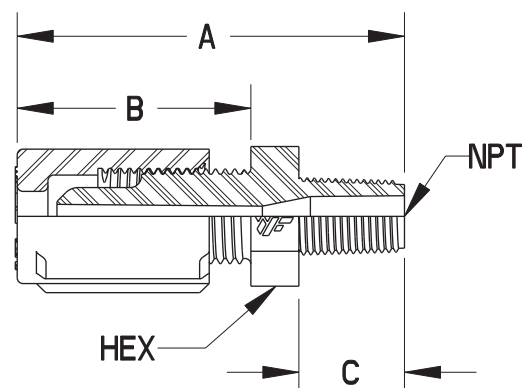
N/R: Not Recommended

UAF UNION ADAPTER FEMALE



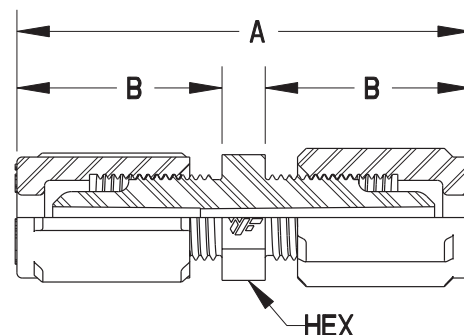
Ordering No.	Tube (mm) Size	Female NPT	Orifice (mm)	A (mm)	B (mm)	C (mm)	HEX (mm)
FMF42UAFN - 1	1/4" (6.4)	1/8"	0.125 (3.18)	1.89 (48.1)	1.22 (30.9)	0.43 (10.8)	0.63 (16.0)
FMF44UAFN - 1	1/4" (6.4)	1/4"	0.125 (3.18)	2.05 (52.0)	1.22 (30.9)	0.58 (14.8)	0.94 (23.9)
FMF46UAFN - 1	1/4" (6.4)	3/8"	0.125 (3.18)	2.06 (52.2)	1.22 (30.9)	0.59 (14.9)	0.94 (23.9)
FMF48UAFN - 1	1/4" (6.4)	1/2"	0.125 (3.18)	2.20 (55.8)	1.22 (30.9)	0.73 (18.5)	1.19 (30.2)
FMF62UAFN - 1	3/8" (9.5)	1/8"	0.250 (6.35)	1.99 (50.5)	1.31 (33.4)	0.43 (10.8)	0.63 (16.0)
FMF64UAFN - 1	3/8" (9.5)	1/4"	0.250 (6.35)	2.13 (54.1)	1.30 (32.9)	0.58 (14.8)	0.94 (23.9)
FMF66UAFN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	2.14 (54.2)	1.30 (32.9)	0.59 (14.9)	0.94 (23.9)
FMF68UAFN - 1	3/8" (9.5)	1/2"	0.250 (6.35)	2.28 (57.8)	1.30 (32.9)	0.73 (18.5)	1.25 (31.8)
FMF84UAFN - 1	1/2" (12.7)	1/4"	0.375 (9.53)	2.24 (56.9)	1.41 (35.7)	0.58 (14.8)	0.94 (23.9)
FMF86UAFN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	2.25 (57.0)	1.41 (35.7)	0.59 (14.9)	0.94 (23.9)
FMF88UAFN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	2.43 (61.6)	1.45 (36.8)	0.73 (18.5)	1.13 (28.7)
FMF812UAFN - 1	1/2" (12.7)	3/4"	0.375 (9.53)	2.44 (62.0)	1.45 (36.8)	0.74 (18.8)	1.38 (35.1)
FMF816UAFN - 1	1/2" (12.7)	1"	0.375 (9.53)	2.59 (65.8)	1.45 (36.8)	0.59 (14.9)	1.19 (30.2)
FMF128UAFN - 1	3/4" (19.1)	1/2"	0.625 (15.88)	2.50 (63.6)	1.52 (38.7)	0.73 (18.5)	1.19 (30.2)
FMF1212UAFN - 1	3/4" (19.1)	3/4"	0.625 (15.88)	2.53 (64.2)	1.54 (39.0)	0.74 (18.8)	1.38 (35.1)
FMF1216UAFN - 1	3/4" (19.1)	1"	0.375 (9.53)	2.68 (68.1)	1.54 (39.0)	0.59 (14.9)	1.63 (41.4)
FMF168UAFN - 1	1" (25.4)	1/2"	0.632 (16.05)	2.75 (69.9)	1.77 (45.0)	0.73 (18.5)	1.44 (36.6)
FMF1612UAFN - 1	1" (25.4)	3/4"	0.875 (22.23)	2.75 (69.9)	1.77 (45.0)	0.74 (18.8)	1.44 (36.6)
FMF1616UAFN - 1	1" (25.4)	1"	0.875 (22.23)	2.75 (69.8)	1.76 (44.6)	0.90 (22.7)	1.63 (41.4)

UAM UNION ADAPTER MALE



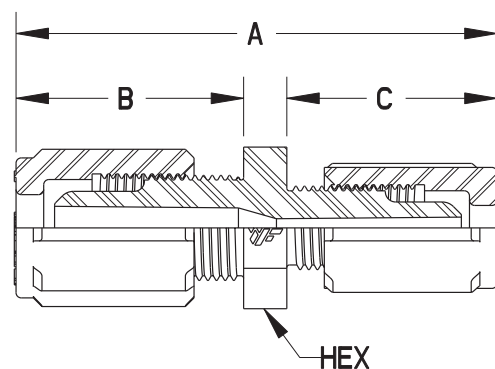
Ordering No.	Tube (mm) Size	Male NPT	Orifice (mm)	A (mm)	B (mm)	C (mm)	HEX (mm)
FMF42UAMN - 1	1/4" (6.4)	1/8"	0.125 (3.18)	2.02 (51.2)	1.22 (30.9)	0.55 (14.0)	0.63 (16.0)
FMF44UAMN - 1	1/4" (6.4)	1/4"	0.125 (3.18)	2.02 (51.2)	1.22 (30.9)	0.55 (14.0)	0.63 (16.0)
FMF46UAMN - 1	1/4" (6.4)	3/8"	0.125 (3.18)	2.02 (51.2)	1.22 (30.9)	0.55 (14.0)	0.81 (20.6)
FMF48UAMN - 1	1/4" (6.4)	1/2"	0.125 (3.18)	2.14 (54.3)	1.22 (30.9)	0.67 (17.0)	0.94 (23.9)
FMF412UAMN - 1	1/4" (6.4)	3/4"	0.125 (3.18)	2.14 (54.3)	1.22 (30.9)	0.67 (17.0)	1.19 (30.2)
FMF62UAMN - 1	3/8" (9.5)	1/8"	0.215 (5.46)	2.11 (53.7)	1.31 (33.4)	0.55 (14.0)	0.81 (20.6)
FMF64UAMN - 1	3/8" (9.5)	1/4"	0.250 (6.35)	2.11 (53.7)	1.31 (33.4)	0.55 (14.0)	0.81 (20.6)
FMF66UAMN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	2.11 (53.7)	1.31 (33.4)	0.55 (14.0)	0.81 (20.6)
FMF68UAMN - 1	3/8" (9.5)	1/2"	0.250 (6.35)	2.23 (56.7)	1.31 (33.4)	0.67 (17.0)	0.94 (23.9)
FMF612UAMN - 1	3/8" (9.5)	3/4"	0.250 (6.35)	2.23 (56.7)	1.31 (33.4)	0.67 (17.0)	1.19 (30.2)
FMF616UAMN - 1	3/8" (9.5)	1"	0.250 (6.35)	2.41 (61.3)	1.31 (33.4)	0.85 (21.6)	1.44 (36.6)
FMF82UAMN - 1	1/2" (12.7)	1/8"	0.215 (5.46)	2.22 (56.5)	1.42 (36.1)	0.55 (14.0)	0.94 (23.9)
FMF84UAMN - 1	1/2" (12.7)	1/4"	0.302 (7.67)	2.22 (56.5)	1.42 (36.1)	0.55 (14.0)	0.94 (23.9)
FMF86UAMN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	2.22 (56.5)	1.42 (36.1)	0.55 (14.0)	0.94 (23.9)
FMF88UAMN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	2.34 (59.5)	1.42 (36.1)	0.67 (17.0)	0.94 (23.9)
FMF812UAMN - 1	1/2" (12.7)	3/4"	0.375 (9.53)	2.34 (59.5)	1.42 (36.1)	0.67 (17.0)	1.19 (30.2)
FMF816UAMN - 1	1/2" (12.7)	1"	0.375 (9.53)	2.52 (64.1)	1.42 (36.1)	0.85 (21.6)	1.44 (36.6)
FMF128UAMN - 1	3/4" (12.7)	1/2"	0.546 (13.87)	2.44 (62.1)	1.52 (38.7)	0.67 (17.0)	1.19 (30.2)
FMF1212UAMN - 1	3/4" (12.7)	3/4"	0.625 (15.88)	2.44 (62.1)	1.52 (38.7)	0.67 (17.0)	1.19 (30.2)
FMF1216UAMN - 1	3/4" (12.7)	1"	0.625 (15.88)	2.62 (66.6)	1.52 (38.7)	0.85 (21.6)	1.44 (36.6)
FMF168UAMN - 1	1" (25.4)	1/2"	0.546 (13.87)	2.69 (68.4)	1.77 (45.0)	0.67 (17.0)	1.44 (36.6)
FMF1612UAMN - 1	1" (25.4)	3/4"	0.742 (18.85)	2.69 (68.4)	1.77 (45.0)	0.67 (17.0)	1.44 (36.6)
FMF1616UAMN - 1	1" (25.4)	1"	0.875 (22.23)	2.87 (73.0)	1.77 (45.0)	0.85 (21.6)	1.44 (36.6)

SU STRAIGHT UNION



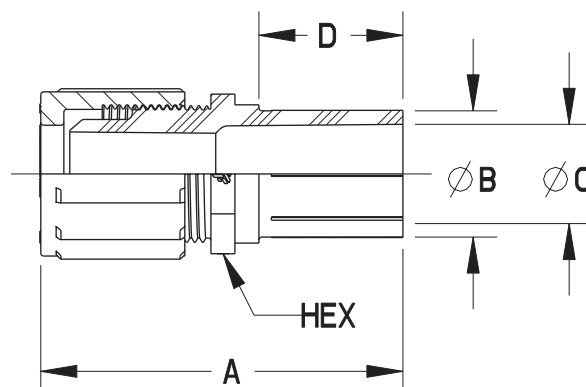
Ordering No.	Tube (mm) Size	Orifice (mm)	A (mm)	B (mm)	HEX (mm)
FMF4SUN-1	1/4" (6.4)	0.125 (3.18)	2.68 (68.2)	1.22 (30.9)	0.63 (16.0)
FMF6SUN-1	3/8" (9.5)	0.250 (6.35)	2.88 (73.1)	1.31 (33.4)	0.81 (20.6)
FMF8SUN-1	1/2" (12.7)	0.375 (9.53)	3.10 (78.6)	1.42 (36.1)	0.94 (23.9)
FMF12SUN-1	3/4" (19.1)	0.625 (15.88)	3.30 (83.7)	1.52 (38.7)	1.19 (30.2)
FMF16SUN-1	1" (25.4)	0.875 (22.23)	2.78 (70.7)	1.27 (32.2)	1.44 (36.6)

SUR STRAIGHT UNION REDUCER



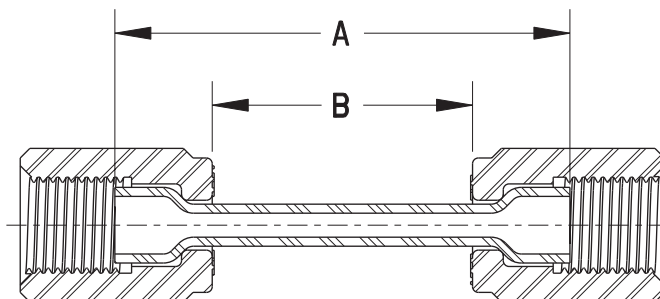
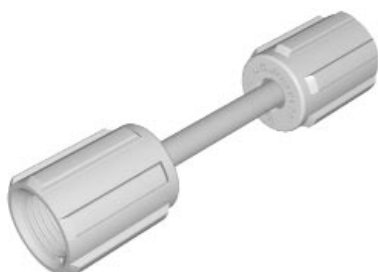
Ordering No.	Tube (mm) Size	Tube (mm) Size	Orifice (mm)	A (mm)	B (mm)	C (mm)	HEX (mm)
FMF64SURN-1	3/8" (9.5)	1/4" (6.4)	0.125 (3.18)	2.78 (70.6)	1.31 (33.4)	1.22 (30.9)	0.81 (20.6)
FMF84SURN-1	1/2" (12.7)	1/4" (6.4)	0.125 (3.18)	2.89 (73.4)	1.42 (36.1)	1.22 (30.9)	0.94 (23.9)
FMF86SURN-1	1/2" (12.7)	3/8" (9.5)	0.250 (3.18)	2.99 (75.8)	1.42 (36.1)	1.31 (33.4)	0.94 (23.9)
FMF124SURN-1	3/4" (19.1)	1/4" (6.4)	0.125 (3.18)	2.99 (75.9)	1.52 (38.7)	1.22 (30.9)	1.19 (30.2)
FMF126SURN-1	3/4" (19.1)	3/8" (9.5)	0.250 (3.18)	3.09 (78.4)	1.52 (38.7)	1.31 (33.4)	1.19 (30.2)
FMF128SURN-1	3/4" (19.1)	1/2" (12.7)	0.375 (3.18)	3.20 (81.2)	1.52 (38.7)	1.42 (36.1)	1.19 (30.2)
FMF168SURN-1	1" (25.4)	1/2" (12.7)	0.375 (3.18)	3.45 (87.5)	1.77 (45.0)	1.42 (36.1)	1.44 (36.6)
FMF1612SURN-1	1" (25.4)	3/4" (19.1)	0.625 (3.18)	3.55 (90.1)	1.77 (45.0)	1.52 (38.7)	1.44 (36.6)

UA UNION ADAPTER



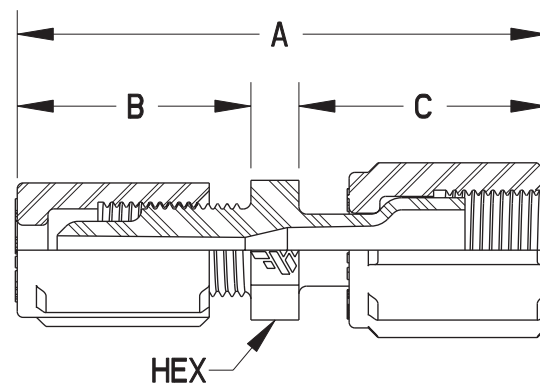
Ordering No.	Tube (mm) Size	Pipe Size	Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)	HEX (mm)
FBUA - 4F4N-1	1/4" (6.4)	1/4"	0.125 (3.18)	2.22 (56.3)	0.540 (13.72)	0.354 (8.99)	0.50 (12.7)	0.68 (17.3)
FBUA - 4F8N-1	1/4" (6.4)	1/2"	0.125 (3.18)	3.22 (81.7)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	0.94 (23.9)
FBUA - 4F12N-1	1/4" (6.4)	3/4"	0.125 (3.18)	3.22 (81.7)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	1.18 (30.0)
FBUA - 6F4N-1	3/8" (9.5)	1/4"	0.250 (6.35)	2.31 (58.7)	0.540 (13.72)	0.354 (8.99)	0.50 (12.7)	0.81 (20.6)
FBUA - 6F8N-1	3/8" (9.5)	1/2"	0.250 (6.35)	3.31 (84.1)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	0.94 (23.9)
FBUA - 6F12N-1	3/8" (9.5)	3/4"	0.250 (6.35)	3.31 (84.1)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	1.18 (30.0)
FBUA - 8F8N-1	1/2" (12.7)	1/2"	0.375 (9.53)	3.42 (86.9)	0.840 (21.34)	0.607 (15.42)	1.53 (38.9)	0.94 (23.9)
FBUA - 8F12N-1	1/2" (12.7)	3/4"	0.375 (9.53)	3.42 (86.9)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	1.18 (30.0)
FBUA - 8F16N-1	1/2" (12.7)	1"	0.375 (9.53)	3.42 (86.9)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)	1.44 (36.6)
FBUA - 12F8N-1	3/4" (19.1)	1/2"	0.625 (15.88)	3.52 (89.5)	0.840 (21.34)	0.607 (15.42)	1.53 (38.9)	1.18 (30.0)
FBUA - 12F12N-1	3/4" (19.1)	3/4"	0.625 (15.88)	3.52 (89.5)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	1.18 (30.0)
FBUA - 12F16N-1	3/4" (19.1)	1"	0.625 (15.88)	3.52 (89.5)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)	1.44 (36.6)
FBUA - 16F8N-1	1" (25.4)	1/2"	0.875 (22.23)	3.77 (95.8)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	1.44 (36.6)
FBUA - 16F12N-1	1" (25.4)	3/4"	0.875 (22.23)	3.77 (95.8)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	1.44 (36.6)
FBUA - 16F16N-1	1" (25.4)	1"	0.875 (22.23)	3.77 (95.8)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)	1.44 (36.6)
FBUA - 16F24N-1	1" (25.4)	1-1/2"	0.875 (22.23)	3.77 (95.8)	1.900 (48.26)	1.610 (40.89)	1.50 (38.1)	2.03 (51.6)
FBUA - 16F32N-1	1" (25.4)	2"	0.875 (22.23)	3.77 (95.8)	2.375 (60.33)	2.052 (52.12)	1.50 (38.1)	2.50 (63.5)

STU TUBE UNION



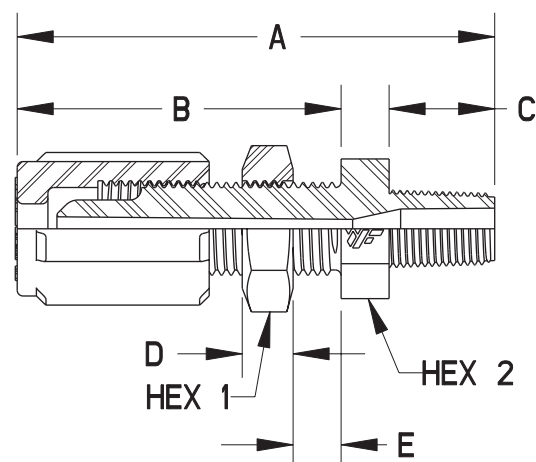
Ordering No.	Tube (mm) Size	Orifice (mm) Size	A (mm)	B (mm)
FMF4STUN-1	1/4" (6.4)	0.125 (3.18)	3.47 (88.1)	2.46 (62.4)
FMF6STUN-1	3/8" (9.5)	0.250 (6.35)	3.61 (91.7)	2.30 (58.4)
FMF8STUN-1	1/2" (12.7)	0.375 (9.53)	3.98 (101.1)	2.56 (65.0)
FMF12STUN-1	3/4" (22.2)	0.625 (15.88)	4.48 (113.8)	3.04 (77.2)
FMF16STUN-1	1" (25.4)	0.875 (22.23)	3.86 (98.0)	2.24 (56.9)

UAFF UNION ADAPTER FEMALE FLARE



Ordering No.	Tube (mm) Size	Tube (mm) Size (FF)	Orifice (mm)	A (mm)	B (mm)	C (mm)	HEX (mm)
FMF46UAFFN - 1	1/4" (6.4)	3/8" (9.5)	0.150 (3.81)	2.76 (70.1)	1.22 (30.9)	1.29 (32.8)	0.63 (16.0)
FMF48UAFFN - 1	1/4" (6.4)	1/2" (12.7)	0.150 (3.81)	2.83 (71.8)	1.22 (30.9)	1.36 (34.5)	0.63 (16.0)
FMF68UAFFN - 1	3/8" (9.5)	1/2" (12.7)	0.250 (6.35)	2.92 (74.2)	1.31 (33.4)	1.36 (34.5)	0.63 (16.0)
FMF612UAFFN - 1	3/8" (9.5)	3/4" (19.1)	0.250 (6.35)	3.10 (78.7)	1.31 (33.4)	1.53 (39.0)	0.94 (23.9)
FMF88UAFFN - 1	1/2" (12.7)	1/2" (12.7)	0.375 (9.53)	3.03 (77.0)	1.42 (36.1)	1.36 (34.5)	0.81 (20.6)
FMF812UAFFN - 1	1/2" (12.7)	3/4" (19.1)	0.375 (9.53)	3.21 (81.5)	1.42 (36.1)	1.53 (39.0)	0.81 (20.6)
FMF1212UAFFN - 1	3/4" (19.1)	3/4" (19.1)	0.625 (15.88)	3.31 (84.0)	1.52 (38.7)	1.53 (39.0)	0.94 (23.9)
FMF1216UAFFN - 1	3/4" (19.1)	1" (25.4)	0.625 (15.88)	3.58 (90.9)	1.52 (38.7)	1.80 (45.8)	1.19 (30.2)
FMF1612UAFFN - 1	1" (25.4)	3/4" (19.1)	0.625 (15.88)	3.56 (90.4)	1.77 (45.0)	1.53 (39.0)	1.44 (36.6)
FMF1616UAFFN - 1	1" (25.4)	1" (25.4)	0.875 (22.23)	3.83 (97.2)	1.77 (45.0)	1.80 (45.8)	1.44 (36.6)

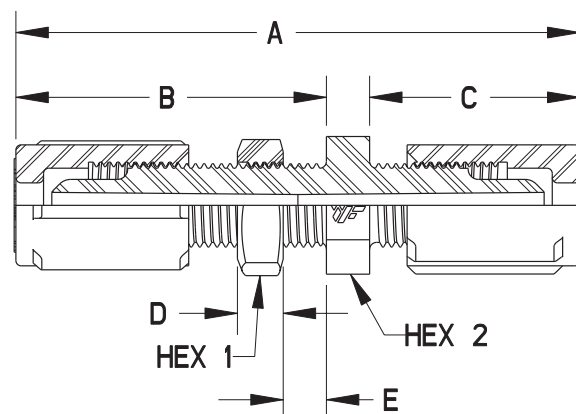
UAMP UNION ADAPTER MALE PANEL



Ordering No.	Tube (mm) Size	Male NTP	Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
FMF42UAMPN - 1	1/4" (6.4)	1/8"	0.150 (3.81)	2.60 (66.0)	1.80 (45.6)	0.55 (14.0)	0.27 (6.7)
FMF44UAMPN - 1	1/4" (6.4)	1/4"	0.150 (3.81)	2.60 (66.0)	1.80 (45.6)	0.55 (14.0)	0.27 (6.7)
FMF66UAMPN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	2.73 (69.4)	1.93 (49.1)	0.55 (14.0)	0.27 (6.7)
FMF84UAMPN - 1	1/2" (12.7)	1/4"	0.302 (7.67)	2.87 (73.0)	2.07 (52.7)	0.55 (14.0)	0.27 (6.7)
FMF86UAMPN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	2.87 (73.0)	2.07 (52.7)	0.55 (14.0)	0.27 (6.7)
FMF88UAMPN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	2.99 (76.0)	2.07 (52.7)	0.67 (17.0)	0.27 (6.7)
FMF128UAMPN - 1	3/4" (19.1)	1/2"	0.546 (13.87)	3.30 (83.9)	2.38 (60.5)	0.67 (17.0)	0.27 (6.7)
FMF1212UAMPN - 1	3/4" (19.1)	3/4"	0.625 (15.88)	3.30 (83.9)	2.38 (60.5)	0.67 (17.0)	0.27 (6.7)
FMF1612UAMPN - 1	1" (25.4)	3/4"	0.742 (18.85)	3.40 (86.4)	2.48 (63.1)	0.67 (17.0)	0.27 (6.7)
FMF1616UAMPN - 1	1" (25.4)	1"	0.875 (22.23)	3.40 (86.4)	2.48 (63.1)	0.67 (17.0)	0.27 (6.7)

Ordering No.	Tube (mm) Size	Male NTP	Orifice (mm)	E (mm) Max	HEX 1 (mm)	HEX 2 (mm)
FMF42UAMPN - 1	1/4" (6.4)	1/8"	0.150 (3.81)	0.25 (6.4)	0.75 (19.1)	0.63 (16.0)
FMF44UAMPN - 1	1/4" (6.4)	1/4"	0.150 (3.81)	0.25 (6.4)	0.75 (19.1)	0.69 (17.5)
FMF66UAMPN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	0.25 (6.4)	0.94 (23.9)	0.81 (20.6)
FMF84UAMPN - 1	1/2" (12.7)	1/4"	0.302 (7.67)	0.25 (6.4)	1.06 (26.9)	0.94 (23.9)
FMF86UAMPN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	0.25 (6.4)	1.06 (26.9)	0.94 (23.9)
FMF88UAMPN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	0.25 (6.4)	1.06 (26.9)	0.94 (23.9)
FMF128UAMPN - 1	3/4" (19.1)	1/2"	0.546 (13.87)	0.25 (6.4)	1.31 (33.3)	1.19 (30.2)
FMF1212UAMPN - 1	3/4" (19.1)	3/4"	0.625 (15.88)	0.25 (6.4)	1.31 (33.3)	1.19 (30.2)
FMF1612UAMPN - 1	1" (25.4)	3/4"	0.742 (18.85)	0.25 (6.4)	1.75 (44.5)	1.44 (36.6)
FMF1616UAMPN - 1	1" (25.4)	1"	0.875 (22.23)	0.25 (6.4)	1.75 (44.5)	1.44 (36.6)

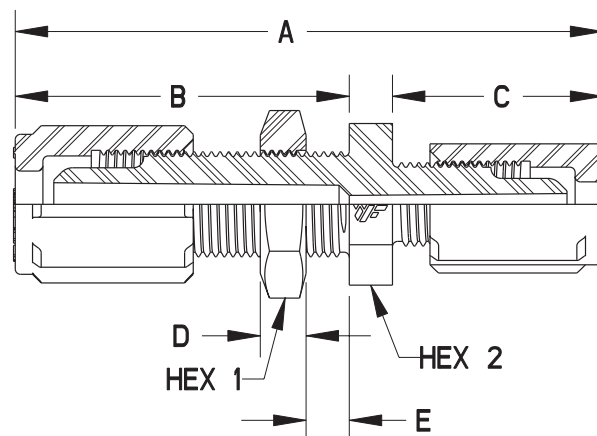
SUP STRAIGHT UNION PANEL



Ordering No.	Tube (mm) Size	Orifice (mm) Size	A (mm)	B (mm)	C (mm)	D (mm)
FMF4SUPN-1	1/4" (6.4)	0.150 (3.81)	3.26 (82.9)	1.80 (45.6)	1.22 (30.9)	0.27 (6.7)
FMF6SUPN-1	1/2" (9.5)	0.250 (6.35)	3.50 (88.8)	1.93 (49.1)	1.31 (33.4)	0.27 (6.7)
FMF8SUPN-1	1/2" (12.7)	0.375 (9.53)	3.68 (93.4)	2.07 (52.7)	1.35 (34.4)	0.27 (6.7)
FMF12SUPN-1	3/4" (19.1)	0.625 (15.88)	4.16 (105.6)	2.38 (60.5)	1.52 (38.7)	0.27 (6.7)
FMF16SUPN-1	1" (25.4)	0.875 (22.23)	4.51 (114.5)	2.48 (63.1)	1.77 (45.0)	0.27 (6.7)

Ordering No.	Tube (mm) Size	Orifice (mm) Size	E (mm) Max	HEX 1 (mm)	HEX 2 (mm)
FMF4SUPN-1	1/4" (6.4)	0.150 (3.81)	0.25 (6.4)	0.75 (19.1)	0.69 (17.5)
FMF6SUPN-1	3/8" (9.5)	0.250 (6.35)	0.25 (6.4)	0.75 (19.1)	0.81 (20.6)
FMF8SUPN-1	1/2" (12.7)	0.375 (9.53)	0.25 (6.4)	0.75 (19.1)	0.94 (23.9)
FMF12SUPN-1	3/4" (19.1)	0.625 (15.88)	0.25 (6.4)	0.75 (19.1)	1.19 (30.2)
FMF16SUPN-1	1" (25.4)	0.875 (22.23)	0.25 (6.4)	0.75 (19.1)	1.75 (44.5)

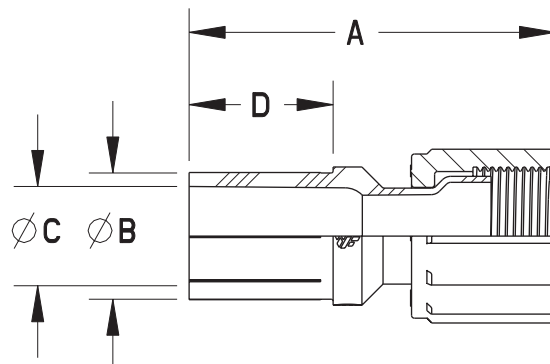
SUPR STRAIGHT UNION PANEL REDUCER



Ordering No.	Tube (mm) Size	Tube (mm) Size	Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
FMF64SUPRN-1	3/8" (9.5)	1/4" (6.4)	0.125 (25.53)	3.40 (86.4)	1.93 (49.1)	1.22 (30.9)	0.27 (6.7)
FMF84SUPRN-1	1/2" (12.7)	1/4" (6.4)	0.125 (25.53)	3.54 (89.9)	2.07 (52.7)	1.22 (30.9)	0.27 (6.7)
FMF86SUPRN-1	1/2" (12.7)	3/8" (9.5)	0.250 (25.65)	3.64 (92.4)	2.07 (52.7)	1.31 (33.4)	0.27 (6.7)
FMF128SUPRN-1	3/4" (19.1)	1/2" (12.7)	0.375 (25.78)	3.99 (101.2)	2.38 (60.5)	1.35 (34.4)	0.27 (6.7)
FMF1612SUPRN-1	1" (25.4)	3/4" (19.1)	0.625 (26.03)	4.24 (107.7)	2.48 (63.1)	1.51 (38.3)	0.27 (6.7)

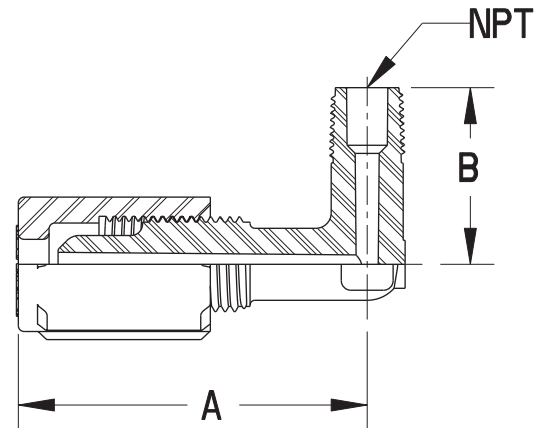
Ordering No.	Tube (mm) Size	Tube (mm) Size	Orifice (mm)	E (mm) Max	HEX 1 (mm)	HEX2 (mm)
FMF64SUPRN-1	3/8" (9.5)	1/4" (6.4)	0.125 (25.53)	0.25 (6.4)	0.94 (23.9)	0.81 (20.6)
FMF84SUPRN-1	1/2" (12.7)	1/4" (6.4)	0.125 (25.53)	0.25 (6.4)	1.06 (26.9)	0.94 (23.9)
FMF86SUPRN-1	1/2" (12.7)	3/8" (9.5)	0.250 (25.65)	0.25 (6.4)	1.06 (26.9)	0.94 (23.9)
FMF128SUPRN-1	3/4" (19.1)	1/2" (12.7)	0.375 (25.78)	0.25 (6.4)	1.31 (33.3)	1.19 (30.2)
FMF1612SUPRN-1	1" (25.4)	3/4" (19.1)	0.625 (26.03)	0.25 (6.4)	1.75 (44.5)	1.75 (44.5)

UAFF UNION ADAPTER FEMALE FLARE



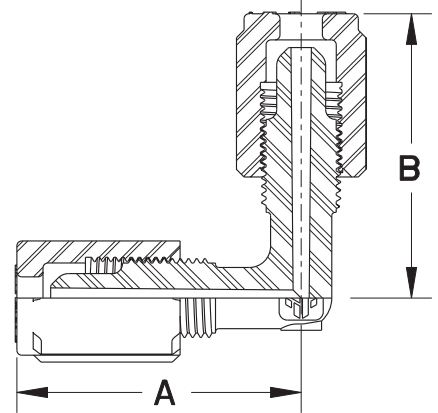
Ordering No.	Pipe Size	Tube (mm) Size (FF)	Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)
FBUA - 4FF4N-1	1/4"	1/4" (6.4)	0.125 (3.18)	2.34 (59.5)	0.540 (13.72)	0.354 (8.99)	0.50 (12.7)
FBUA - 8FF8N-1	1/2"	1/2" (12.7)	0.375 (9.53)	3.39 (86.2)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)
FBUA - 8FF8/CN-1	1/2"	1/2" (12.7)	0.375 (9.53)	2.39 (60.8)	0.840 (21.34)	0.607 (15.42)	0.50 (12.7)
FBUA - 8FF12N-1	3/4"	1/2" (12.7)	0.375 (9.53)	3.50 (88.8)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)
FBUA - 8FF12/CN-1	3/4"	1/2" (12.7)	0.375 (9.53)	2.50 (63.4)	1.050 (26.67)	0.809 (20.55)	0.50 (12.7)
FBUA - 12FF8N-1	1/2"	3/4" (19.1)	0.625 (15.88)	3.44 (87.4)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)
FBUA - 12FF8/CN-1	1/2"	3/4" (19.1)	0.625 (15.88)	2.44 (62.0)	0.840 (21.34)	0.607 (15.42)	0.50 (12.7)
FBUA - 12FF12N-1	3/4"	3/4" (19.1)	0.625 (15.88)	3.55 (90.1)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)
FBUA - 12FF12/CN-1	3/4"	3/4" (19.1)	0.625 (15.88)	2.55 (64.7)	1.050 (26.67)	0.809 (20.55)	0.50 (12.7)
FBUA - 12FF16N-1	1"	3/4" (19.1)	0.625 (15.88)	3.68 (93.4)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)
FBUA - 12FF16/CN-1	1"	3/4" (19.1)	0.625 (15.88)	2.68 (68.0)	1.315 (33.40)	1.034 (26.26)	0.50 (12.7)
FBUA - 16FF12N-1	3/4"	1" (25.4)	0.875 (22.23)	3.69 (93.6)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)
FBUA - 16FF12/CN-1	3/4"	1" (25.4)	0.875 (22.23)	2.69 (68.2)	1.050 (26.67)	0.809 (20.55)	0.50 (12.7)
FBUA - 16FF16N-1	1"	1" (25.4)	0.875 (22.23)	3.82 (97.0)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)
FBUA - 16FF16/CN-1	1"	1" (25.4)	0.875 (22.23)	2.82 (71.6)	1.315 (33.40)	1.034 (26.26)	0.50 (12.7)
FBUA - 16FF24N-1	1-1/2"	1" (25.4)	0.875 (22.23)	4.11 (104.4)	1.900 (48.26)	1.610 (40.89)	1.50 (38.1)
FBUA - 16FF24/CN-1	1-1/2"	1" (25.4)	0.875 (22.23)	3.11 (79.0)	1.900 (48.26)	1.610 (40.89)	0.50 (12.7)
FBUA - 16FF32N-1	2"	1" (25.4)	0.875 (22.23)	4.35 (110.4)	2.375 (60.33)	2.052 (52.12)	1.50 (38.1)
FBUA - 16FF32/CN-1	2"	1" (25.4)	0.875 (22.23)	3.35 (85.0)	2.375 (60.33)	2.052 (52.12)	0.50 (12.7)

EAM ELBOW ADAPTER MALE



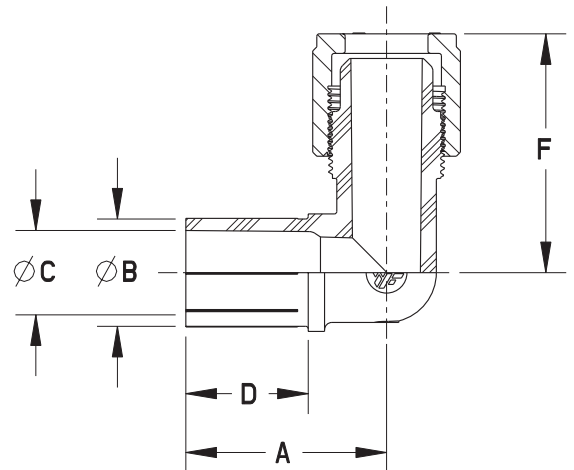
Ordering No.	Tube (mm) Size	Male NTP	Orifice (mm)	A (mm)	B (mm)
FMF42EAMN - 1	1/4" (6.4)	1/8"	0.125 (3.18)	1.82 (46.2)	0.92 (23.4)
FMF44EAMN - 1	1/4" (6.4)	1/4"	0.125 (3.18)	1.82 (46.2)	1.12 (28.4)
FMF46EAMN - 1	1/4" (6.4)	3/8"	0.125 (3.18)	1.82 (46.2)	1.12 (28.4)
FMF48EAMN - 1	1/4" (6.4)	1/2"	0.125 (3.18)	1.82 (46.2)	1.31 (33.3)
FMF62EAMN - 1	3/8" (9.5)	1/8"	0.200 (5.08)	1.95 (49.6)	0.97 (24.6)
FMF64EAMN - 1	3/8" (9.5)	1/4"	0.250 (6.35)	1.95 (49.6)	1.18 (30.0)
FMF66EAMN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	1.95 (49.6)	1.18 (30.0)
FMF68EAMN - 1	3/8" (9.5)	1/2"	0.250 (6.35)	1.96 (49.9)	1.36 (34.5)
FMF612EAMN - 1	3/8" (9.5)	3/4"	0.250 (6.35)	2.17 (55.2)	1.36 (34.5)
FMF84EAMN - 1	1/2" (12.7)	1/4"	0.290 (7.37)	2.09 (53.2)	1.24 (31.5)
FMF86EAMN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	2.09 (53.2)	1.24 (31.5)
FMF88EAMN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	2.09 (53.2)	1.42 (36.1)
FMF812EAMN - 1	1/2" (12.7)	3/4"	0.375 (9.53)	2.26 (57.5)	1.42 (36.1)
FMF128EAMN - 1	3/4" (19.1)	1/2"	0.540 (13.72)	2.44 (62.1)	1.57 (39.9)
FMF1212EAMN - 1	3/4" (19.1)	3/4"	0.625 (15.88)	2.45 (62.3)	1.57 (39.9)
FMF1216EAMN - 1	3/4" (19.1)	1"	0.625 (15.88)	2.72 (69.2)	1.78 (45.2)
FMF1612EAMN - 1	1" (25.4)	3/4"	0.660 (16.76)	2.80 (71.2)	1.82 (46.2)
FMF1616EAMN - 1	1" (25.4)	1"	0.875 (22.23)	3.00 (76.3)	2.02 (51.3)

UE UNION ELBOW



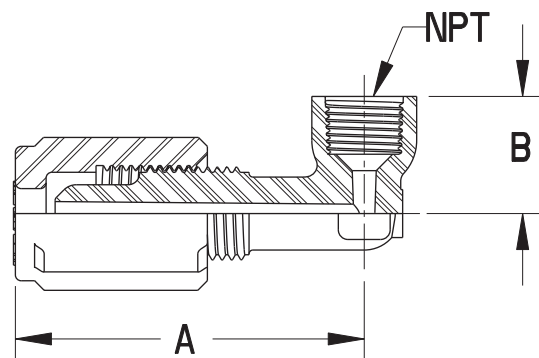
Ordering No.	Tube (mm) Size	Orifice (mm) Size	A (mm)	B (mm)
FMF4UEN-1	1/4" (6.4)	0.125 (3.18)	1.74 (44.2)	1.74 (44.2)
FMF6UEN-1	3/8" (9.5)	0.250 (6.35)	1.89 (48.1)	1.89 (48.1)
FMF8UEN-1	1/2" (12.7)	0.375 (9.53)	2.06 (52.4)	2.06 (52.4)
FMF12UEN-1	3/4" (19.1)	0.625 (15.88)	1.74 (44.2)	1.74 (44.2)
FMF16UEN-1	1" (25.4)	0.875 (22.23)	2.80 (71.2)	2.80 (71.2)

ETA ELBOW TUBE ADAPTER



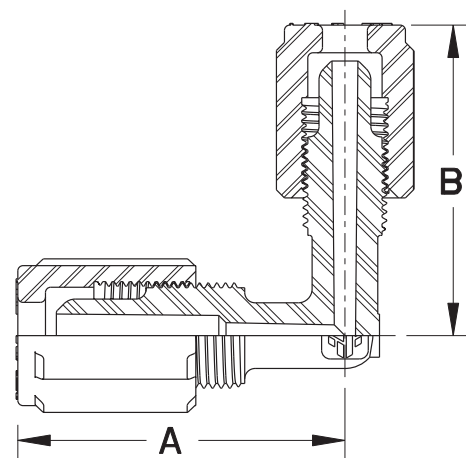
Ordering No.	Tube (mm) Size	Pipe Size	Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)	F (mm)
FBETA - 4F4N-1	1/4" (6.4)	1/4"	0.125 (3.18)	1.08 (27.4)	0.540 (13.716)	0.354 (8.99)	0.50 (12.7)	1.99 (50.6)
FBETA - 8F8N-1	1/2" (12.7)	1/2"	0.375 (9.53)	2.20 (55.9)	0.840 (21.336)	0.607 (15.42)	1.50 (38.1)	2.51 (63.8)
FBETA - 8F12N-1	1/2" (12.7)	3/4"	0.375 (9.53)	2.23 (56.6)	1.050 (26.670)	0.809 (20.55)	1.50 (38.1)	2.54 (64.6)
FBETA - 12F12N-1	3/4" (19.1)	3/4"	0.625 (15.88)	2.35 (59.7)	1.050 (26.670)	0.809 (20.55)	1.50 (38.1)	2.57 (65.2)
FBETA - 12F16N-1	1/2" (12.7)	1"	0.625 (15.88)	2.35 (59.7)	1.315 (33.401)	1.034 (26.26)	1.50 (38.1)	2.73 (69.3)
FBETA - 16F16N-1	1" (25.4)	1"	0.875 (22.23)	2.46 (62.5)	1.315 (33.401)	1.034 (26.26)	1.50 (38.1)	2.93 (74.3)
FBETA - 16F24N-1	1" (25.4)	1-1/2"	0.875 (22.23)	2.44 (61.9)	1.900 (48.260)	1.610 (40.89)	1.50 (38.1)	3.21 (81.5)
FBETA - 16F32N-1	1" (25.4)	2"	0.875 (22.23)	2.50 (63.5)	2.375 (60.325)	2.052 (52.12)	1.50 (38.1)	3.42 (86.8)
FBUA - 12F8N-1	3/4" (19.1)	1/2"	0.607 (15.42)	2.20 (55.9)	0.840 (21.336)	0.607 (15.42)	1.50 (38.1)	2.57 (65.3)
FBUA - 16F12N-1	1" (25.4)	3/4"	0.809 (20.55)	2.35 (59.7)	1.050 (26.670)	0.809 (20.55)	1.50 (38.1)	2.90 (73.7)

EAF ELBOW ADAPTER FEMALE



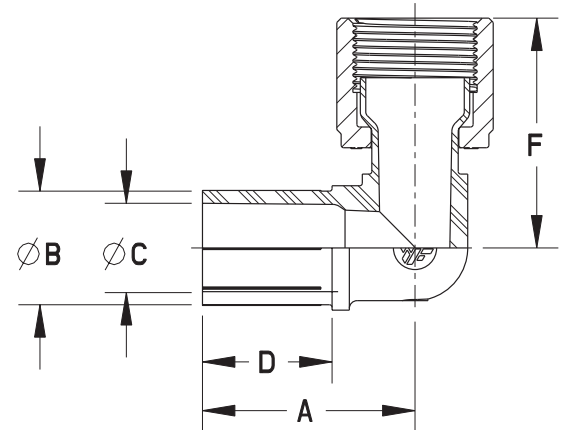
Ordering No.	Tube (mm) Size	Female NPT	Orifice (mm)	A (mm)	B (mm)
FMF42EAFN - 1	1/4" (6.4)	1/8"	0.125 (3.18)	1.82 (46.2)	0.61 (15.5)
FMF44EAFN - 1	1/4" (6.4)	1/4"	0.125 (3.18)	1.82 (46.2)	0.88 (22.4)
FMF64EAFN - 1	3/8" (9.5)	1/4"	0.250 (6.35)	1.96 (49.9)	0.85 (21.6)
FMF66EAFN - 1	3/8" (9.5)	3/8"	0.250 (6.35)	1.95 (49.6)	0.91 (23.1)
FMF68EAFN - 1	3/8" (9.5)	1/2"	0.250 (6.35)	1.96 (49.9)	1.13 (28.7)
FMF84EAFN - 1	1/2" (12.7)	1/4"	0.375 (9.53)	2.09 (53.2)	0.88 (22.4)
FMF86EAFN - 1	1/2" (12.7)	3/8"	0.375 (9.53)	2.09 (53.2)	1.00 (25.4)
FMF88EAFN - 1	1/2" (12.7)	1/2"	0.375 (9.53)	2.09 (53.2)	1.25 (31.8)
FMF1616EAFN - 1	1" (25.4)	1"	0.875 (22.23)	3.00 (76.3)	1.50 (38.1)

UER UNION ELBOW REDUCER



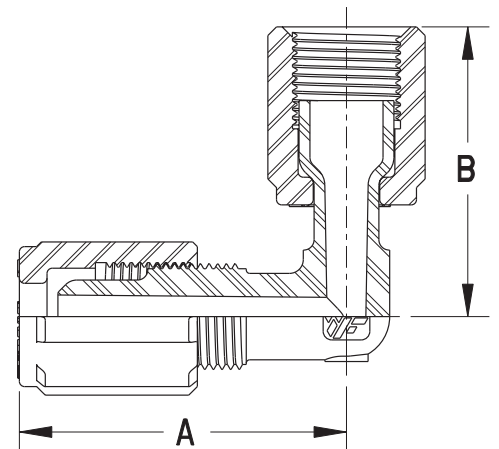
Ordering No.	Tube (mm) Size	Tube (mm) Size	Orifice (mm)	A (mm)	B (mm)
FMF64UERN-1	3/8" (9.5)	1/4" (6.4)	0.150 (3.81)	1.89 (48.1)	1.80 (45.6)
FMF84UERN-1	1/2" (12.7)	1/4" (6.4)	0.150 (3.81)	2.06 (52.4)	1.80 (45.6)
FMF86UERN-1	1/2" (12.7)	3/8" (9.5)	0.250 (6.35)	2.06 (52.4)	1.89 (48.1)
FMF124UERN-1	3/4" (19.1)	1/4" (6.4)	0.150 (3.81)	2.31 (58.8)	1.80 (45.6)
FMF126UERN-1	3/4" (19.1)	3/8" (9.5)	0.250 (6.35)	2.31 (58.8)	1.89 (48.1)
FMF128UERN-1	3/4" (19.1)	1/2" (12.7)	0.375 (9.53)	2.31 (58.8)	2.06 (52.4)
FMF1612UERN-1	1" (25.4)	3/4" (19.1)	0.625 (15.88)	2.80 (71.2)	2.31 (58.8)

ETAFF ELBOW TUBE ADAPTER FEMALE FLARE



Ordering No.	Tube (mm) Size (FF)	Pipe Size	Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)	F (mm)
FBETA - 4FF4N-1	1/4" (6.4)	1/4"	0.125 (3.18)	1.08 (27.4)	0.540 (13.72)	0.354 (8.99)	0.50 (12.7)	1.82 (46.1)
FBETA - 8FF8N-1	1/2" (12.7)	1/2"	0.375 (9.53)	2.20 (55.9)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	2.02 (51.3)
FBETA - 8FF12N-1	1/2" (12.7)	3/4"	0.375 (9.53)	2.23 (56.6)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	2.05 (52.1)
FBETA -12FF12N-1	3/4" (19.1)	3/4"	0.625 (15.88)	2.35 (59.7)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	2.22 (56.4)
FBETA -12FF16N-1	3/4" (19.1)	1"	0.625 (15.88)	2.35 (59.7)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)	2.39 (60.7)
FBETA -16FF16N-1	1" (25.4)	1"	0.875 (22.23)	2.46 (62.5)	1.315 (33.40)	1.034 (26.26)	1.50 (38.1)	2.66 (67.6)
FBETA -16FF24N-1	1" (25.4)	1-1/2"	0.875 (22.23)	2.44 (61.9)	1.900 (48.26)	1.610 (40.89)	1.50 (38.1)	2.94 (74.7)
FBETA -16FF32N-1	1" (25.4)	2"	0.875 (22.23)	2.50 (63.5)	2.375 (60.33)	2.052 (52.12)	1.50 (38.1)	3.15 (80.0)
FBETA -12FF8N-1	3/4" (19.1)	1/2"	0.607 (15.42)	2.20 (55.9)	0.845 (21.46)	0.607 (15.42)	1.50 (38.1)	2.21 (56.2)
FBETA -16FF12N-1	1" (25.4)	3/4"	0.809 (20.55)	2.35 (59.7)	1.055 (26.80)	0.809 (20.55)	1.50 (38.1)	2.66 (67.4)

UEFF UNION ELBOW FEMALE FLARE

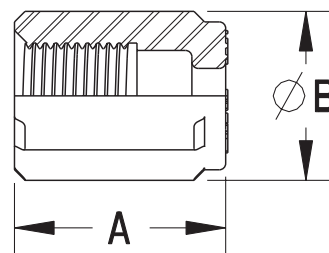


Ordering No.	Tube (mm) Size	Orifice (mm) Size	A (mm)	B (mm)
FMF6FFUEN-1	3/8" (9.5)	0.250 (6.35)	1.89 (48.1)	1.68 (42.6)
FMF8FFUEN-1	1/2" (12.7)	0.375 (9.53)	2.06 (52.4)	1.80 (45.7)
FMF12FFUEN-1	3/4" (19.1)	0.625 (15.88)	2.31 (58.8)	2.13 (54.1)
FMF16FFUEN-1	1" (25.4)	0.875 (22.23)	2.80 (71.2)	2.64 (67.1)

PVDF NUT



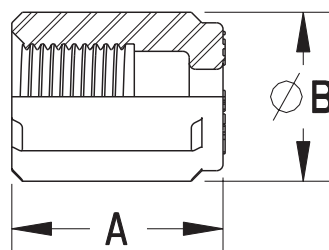
Ordering No.	Tube (mm) Size	A (mm)	ØB (mm)
FMF4N-1	1/4" (6.4)	1.00 (25.4)	0.80 (20.3)
FMF6N-1	3/8" (9.5)	1.03 (26.2)	0.91 (23.1)
FMF8N-1	1/2" (12.7)	1.08 (27.4)	1.03 (26.2)
FMF12N-1	3/4" (19.1)	1.24 (31.5)	1.33 (33.8)
FMF16N-1	1" (25.4)	1.50 (38.1)	1.81 (46.0)



ETFE NUT



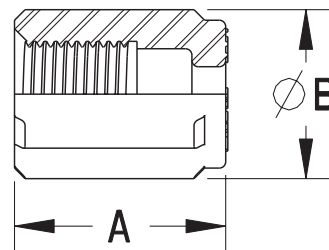
Ordering No.	Tube (mm) Size	A (mm)	ØB (mm)
FMF4N-2	1/4" (6.4)	1.00 (25.4)	0.80 (20.3)
FMF6N-2	3/8" (9.5)	1.03 (26.2)	0.91 (23.1)
FMF8N-2	1/2" (12.7)	1.08 (27.4)	1.03 (26.2)
FMF12N-2	3/4" (19.1)	1.24 (31.5)	1.33 (33.8)
FMF16N-2	1" (25.4)	1.50 (38.1)	1.81 (46.0)



PFA NUT



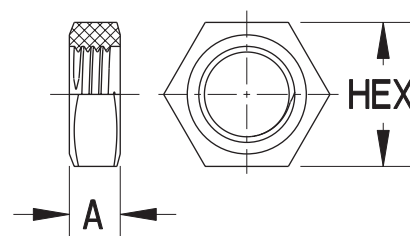
Ordering No.	Tube (mm) Size	A (mm)	ØB (mm)
FMF4N-3	1/4" (6.4)	1.00 (25.4)	0.83 (21.1)
FMF6N-3	3/8" (9.5)	1.03 (26.2)	0.94 (23.9)
FMF8N-3	1/2" (12.7)	1.08 (27.4)	1.07 (27.2)
FMF12N-3	3/4" (19.1)	1.24 (31.5)	1.41 (35.8)
FMF16N-3	1" (25.4)	1.50 (38.1)	1.89 (48.0)



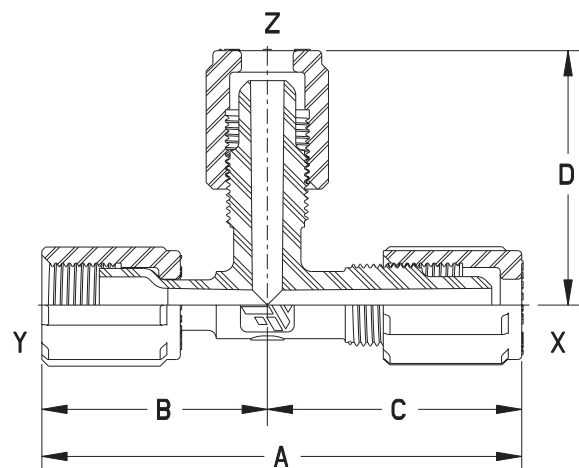
PANEL NUT PVDF



Ordering No.	Tube (mm) Size	A (mm)	HEX (mm)
FMF4PN	1/4" (6.4)	0.75 (19.1)	0.27 (6.7)
FMF6PN	3/8" (9.5)	0.94 (23.9)	0.27 (6.7)
FMF8PN	1/2" (12.7)	1.06 (26.9)	0.27 (6.7)
FMF12PN	3/4" (19.1)	1.31 (33.3)	0.27 (6.7)
FMF16PN	1" (25.4)	1.75 (44.5)	0.27 (6.7)

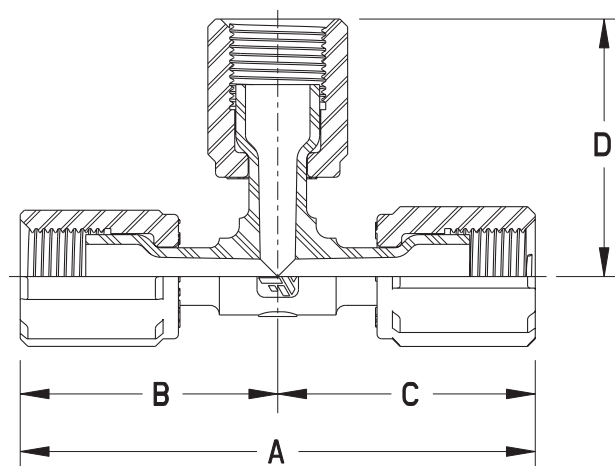


UTFF I UNION TEE FEMALE FLARE I



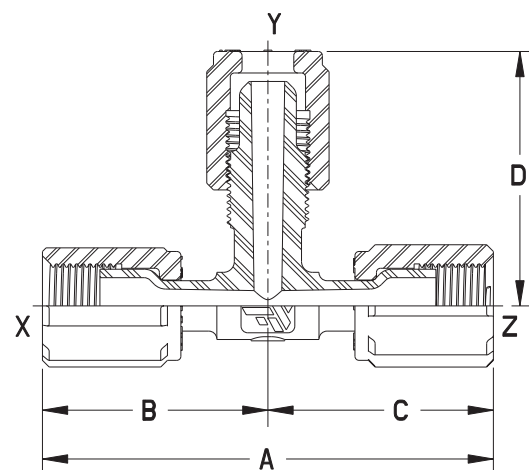
Ordering No.	Tube Size					Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y	x	Z					
FMF66FF6UTFFN-1	3/8"	3/8"	3/8"			0.250 (6.35)	3.57 (90.7)	1.68 (42.6)	1.89 (48.1)	1.89 (48.1)
FMF88FF8UTFFN-1	1/2"	1/2"	1/2"			0.375 (9.53)	3.86 (98.1)	1.80 (45.7)	2.06 (52.4)	2.06 (52.4)
FMF128FF12UTFFN-1	3/4"	1/2"	3/4"			0.375 (9.53)	4.24 (107.6)	1.92 (48.9)	2.31 (58.8)	2.31 (58.8)
FMF1212FF12UTFFN-1	3/4"	3/4"	3/4"			0.625 (15.88)	4.44 (112.8)	2.13 (54.1)	2.31 (58.8)	2.31 (58.8)
FMF1616FF16UTFFN-1	1"	1"	1"			0.875 (22.23)	5.43 (138.0)	2.63 (66.8)	2.80 (71.2)	2.80 (71.2)
FMF66FF4UTFFN-1	3/8"	3/8"	1/4"			0.150 (3.81)	3.57 (90.7)	1.68 (42.6)	1.89 (48.1)	1.80 (45.6)
FMF88FF4UTFFN-1	1/2"	1/2"	1/4"			0.150 (3.81)	3.86 (98.1)	1.80 (45.7)	2.06 (52.4)	1.87 (47.6)
FMF1212FF6UTFFN-1	3/4"	3/4"	3/8"			0.250 (6.35)	4.44 (112.8)	2.13 (54.1)	2.31 (58.8)	2.17 (55.2)

UTFF III UNION TEE FEMALE FLARE III



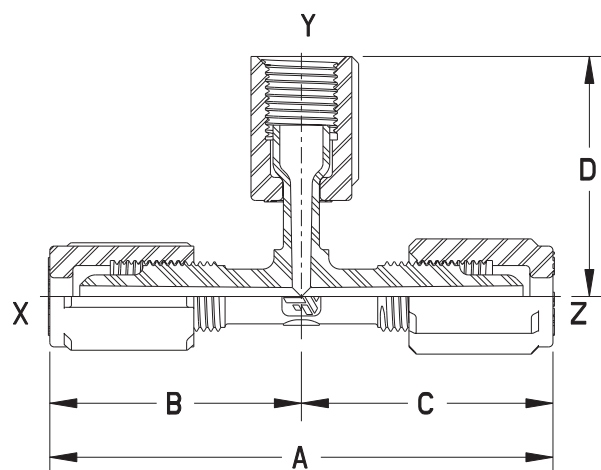
Ordering No.	Tube (mm) Size	Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
FMF6UTFFN-1	3/8" (9.5)	0.250 (6.35)	3.35 (85.2)	1.68 (42.6)	1.68 (42.6)	1.68 (42.6)
FMF8UTFFN-1	1/2" (12.7)	0.375 (9.53)	3.60 (91.4)	1.80 (45.7)	1.80 (45.7)	1.80 (45.7)
FMF12UTFF-1	3/4" (19.1)	0.625 (15.88)	4.26 (108.2)	2.13 (54.1)	2.13 (54.1)	2.13 (54.1)
FMF16UTFF-1	1" (25.4)	0.875 (22.23)	5.26 (133.6)	2.63 (66.8)	2.63 (66.8)	2.63 (66.8)

UTRFF I UNION TEE REDUCER FEMALE FLARE I



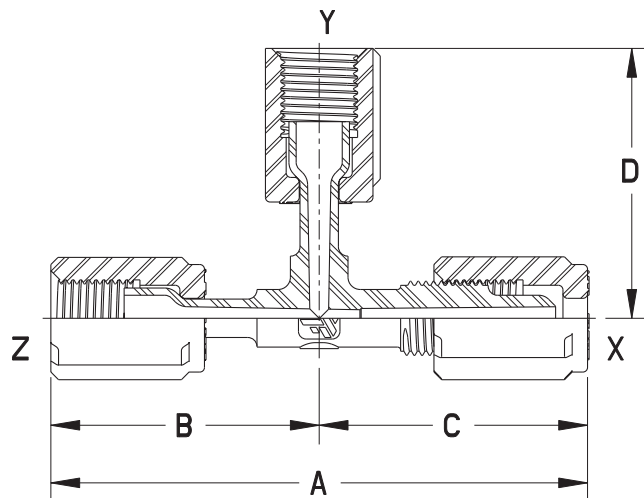
Ordering No.	Tube Size					Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y	x	Z					
FMF6FF66FFUTRFFN-1	3/8"	3/8"	3/8"	3/8"	3/8"	0.250 (6.35)	3.36 (85.2)	1.68 (42.6)	1.68 (42.6)	1.89 (48.1)
FMF8FF88FFUTRFFN-1	1/2"	1/2"	1/2"	1/2"	1/2"	0.375 (9.53)	3.60 (91.4)	1.80 (45.7)	1.80 (45.7)	2.06 (52.4)
FMF8FF128FFUTRFFN-1	1/2"	3/4"	1/2"	1/2"	1/2"	0.625 (15.88)	3.60 (91.4)	1.80 (45.7)	1.80 (45.7)	2.31 (58.8)
FMF12FF1212FFUTRFFN-1	3/4"	3/4"	3/4"	3/4"	3/4"	0.625 (15.88)	4.26 (108.2)	2.13 (54.1)	2.13 (54.1)	2.31 (58.8)

UTRFF II UNION TEE REDUCER FEMALE FLARE II



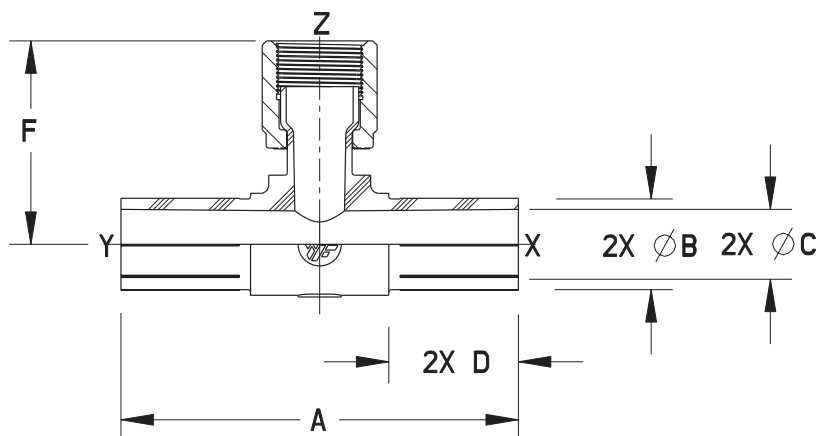
Ordering No.	Tube Size					Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y	x	Z					
FMF44FF4UTRFFN-1	1/4"	1/4"	1/4"	1/4"	1/4"	0.150 (3.81)	3.49 (88.7)	1.75 (44.4)	1.75 (44.4)	1.67 (42.3)
FMF64FF6UTRFFN-1	3/8"	1/4"	3/8"	3/8"	3/8"	0.150 (3.81)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	1.73 (43.9)
FMF88FF8UTRFFN-1	1/2"	1/2"	1/2"	1/2"	1/2"	0.375 (9.53)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.80 (45.7)
FMF124FF12UTRFFN-1	3/4"	1/4"	3/4"	3/4"	3/4"	0.150 (3.81)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	1.92 (48.7)
FMF128FF12UTRFFN-1	3/4"	1/2"	3/4"	3/4"	3/4"	0.375 (9.53)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	1.89 (48.1)
FMF1212FF12UTRFFN-1	3/4"	3/4"	3/4"	3/4"	3/4"	0.625 (15.88)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	2.13 (54.2)

UTRFF III UNION TEE REDUCER FEMALE FLARE III



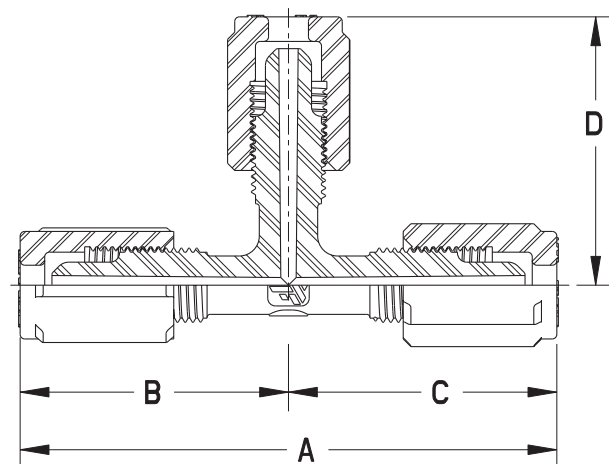
Ordering No.	Tube Size					Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y	x	Z					
FMF44FF4FFUTRFFN-1	1/4"	1/4"	1/4"			0.150 (3.81)	3.49 (88.7)	1.75 (44.4)	1.75 (44.4)	1.76 (44.6)
FMF88FF8FFUTRFFN-1	1/2"	1/2"	1/2"			0.375 (9.53)	3.86 (98.1)	1.80 (45.7)	2.06 (52.4)	1.80 (45.7)
FMF128FF12FFUTRFFN-1	3/4"	1/2"	3/4"			0.375 (9.53)	4.44 (112.7)	2.12 (54.0)	2.31 (58.8)	1.98 (50.3)
FMF812FF12FFUTRFFN-1	3/4"	3/4"	1/2"			0.625 (15.88)	4.19 (106.4)	2.12 (54.0)	2.06 (52.4)	2.12 (54.0)
FMF1212FF12FFUTRFFN-1	3/4"	3/4"	3/4"			0.625 (15.88)	4.44 (112.7)	2.12 (54.0)	2.31 (58.8)	2.12 (54.0)

BTFF BRANCH TEE FEMALE FLARE



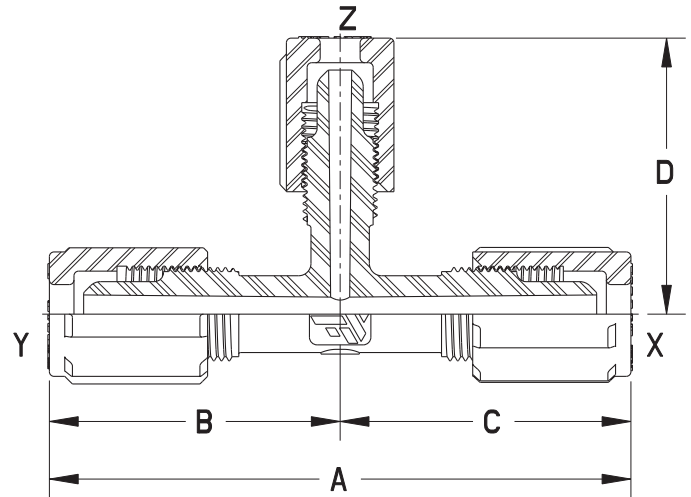
Ordering No.	Pipe x Pipe x Tube					Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)	F (mm)
	X	x	Y	x	Z						
FBBT-888FFN-1	1/2"	1/2"	1/2"			0.375 (9.53)	4.60 (116.8)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	2.16 (55.0)
FBBT-121212FFN-1	3/4"	3/4"	3/4"			0.625 (15.88)	4.60 (116.8)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	2.57 (65.3)
FBBT-121216FFN-1	3/4"	3/4"	1"			0.809 (20.55)	4.92 (125.0)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	2.76 (70.2)

UT UNION TEE



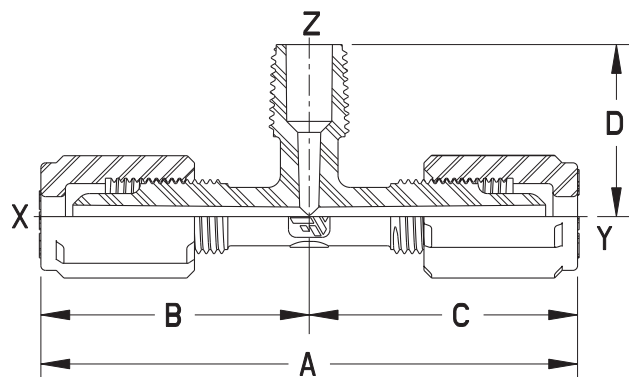
<i>Ordering No.</i>	<i>Tube (mm) Size</i>	<i>Orifice (mm)</i>	<i>A (mm)</i>	<i>B (mm)</i>	<i>C (mm)</i>	<i>D (mm)</i>
FMF4UTN-1	1/4" (6.4)	0.125 (3.18)	3.48 (88.5)	1.74 (44.2)	1.74 (44.2)	1.74 (44.2)
FMF6UTN-1	3/8" (9.5)	0.250 (6.35)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	1.89 (48.1)
FMF8UTN-1	1/2" (12.7)	0.375 (9.53)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	2.06 (52.4)
FMF12UTN-1	3/4" (19.1)	0.625 (15.88)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	2.31 (58.8)
FMF16UTN-1	1" (25.4)	0.875 (22.23)	5.61 (142.4)	2.80 (71.2)	2.80 (71.2)	2.80 (71.2)

UTR UNION TEE REDUCER



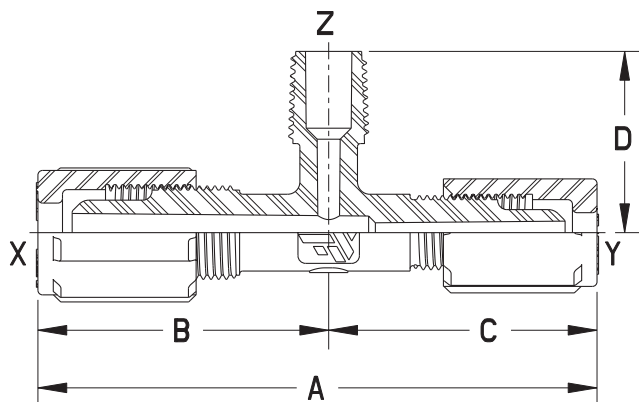
Ordering No.	Tube Size					Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y	x	Z					
FMF664UTRN-1	3/8"	3/8"	1/4"			0.150 (3.81)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	1.80 (45.6)
FMF668UTRN-1	3/8"	3/8"	1/2"			0.250 (6.35)	4.05 (102.8)	2.02 (51.4)	2.02 (51.4)	2.06 (52.4)
FMF6612UTRN-1	3/8"	3/8"	3/4"			0.250 (6.35)	4.53 (115.0)	2.26 (57.5)	2.26 (57.5)	2.31 (58.8)
FMF884UTRN-1	1/2"	1/2"	1/4"			0.150 (3.81)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.86 (47.2)
FMF886UTRN-1	1/2"	1/2"	3/8"			0.250 (6.35)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.95 (49.6)
FMF12124UTRN-1	3/4"	3/4"	1/4"			0.150 (3.81)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	2.01 (51.0)
FMF12812UTRN-1	3/4"	1/2"	3/4"			0.875 (22.23)	5.43 (138.0)	2.63 (66.8)	2.80 (71.2)	2.80 (71.2)
FMF16168UTRN-1	1"	1"	1/2"			0.375 (9.53)	5.61 (142.4)	2.80 (71.2)	2.80 (71.2)	2.45 (62.3)
FMF161612UTRN-1	1"	1"	3/4"			0.875 (22.23)	5.43 (138.0)	2.63 (66.8)	2.80 (71.2)	2.80 (71.2)
FMF646UTRN-1	3/8"	1/4"	3/8"			0.150 (3.81)	3.74 (95.0)	1.85 (46.9)	1.89 (48.1)	1.89 (48.1)
FMF848UTRN-1	1/2"	1/4"	1/2"			0.150 (3.81)	3.91 (99.3)	1.85 (46.9)	2.06 (52.4)	2.06 (52.4)
FMF12812UTRN-1	3/4"	1/2"	3/4"			0.375 (9.53)	4.52 (114.7)	2.20 (56.0)	2.31 (58.8)	2.31 (58.8)
FMF1248UTRN-1	3/4"	1/4"	1/2"			0.150 (3.81)	4.07 (103.4)	1.76 (44.6)	2.31 (58.8)	1.96 (49.9)
FMF844UTRN-1	1/2"	1/4"	1/4"			0.150 (3.81)	3.81 (96.8)	2.06 (52.4)	1.75 (44.4)	1.75 (44.4)
FMF866UTRN-1	1/2"	3/8"	3/8"			0.250 (6.35)	3.96 (100.5)	2.06 (52.4)	1.89 (48.1)	1.89 (48.1)
FMF1288UTRN-1	3/4"	1/2"	1/2"			0.375 (9.53)	4.38 (111.2)	2.31 (58.8)	2.06 (52.4)	2.06 (52.4)

MBT MALE BRANCH TEE



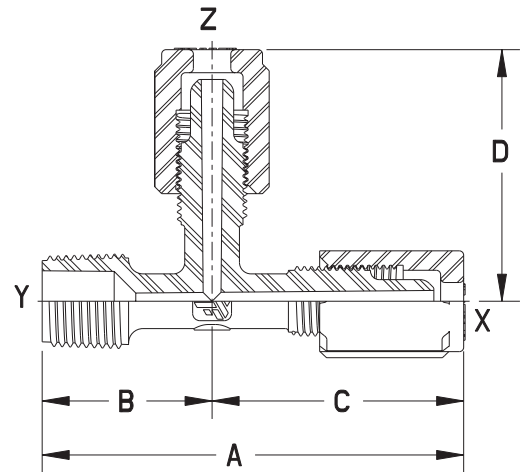
Ordering No.	Tube X	Tube x	Tube Y	Male (NPT) Z	Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
FMF442MBTN-1	1/4"	1/4"	1/8"		0.150 (3.81)	3.49 (88.7)	1.75 (44.4)	1.75 (44.4)	0.92 (23.4)
FMF444MBTN-1	1/4"	1/4"	1/4"		0.150 (3.81)	3.49 (88.7)	1.75 (44.4)	1.75 (44.4)	1.12 (28.4)
FMF662MBTN-1	3/8"	3/8"	1/8"		0.188 (4.78)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	0.97 (24.6)
FMF664MBTN-1	3/8"	3/8"	1/4"		0.225 (5.72)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	1.18 (30.0)
FMF666MBTN-1	3/8"	3/8"	3/8"		0.225 (5.72)	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	1.18 (30.0)
FMF884MBTN-1	1/2"	1/2"	1/4"		0.250 (6.35)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.24 (31.5)
FMF886MBTN-1	1/2"	1/2"	3/8"		0.350 (8.89)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.24 (31.5)
FMF888MBTN-1	1/2"	1/2"	1/2"		0.375 (9.53)	4.13 (104.8)	2.06 (52.4)	2.06 (52.4)	1.42 (36.1)
FMF12124MBTN-1	3/4"	3/4"	1/4"		0.150 (3.81)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	1.39 (35.3)
FMF12128MBTN-1	3/4"	3/4"	1/2"		0.438 (11.13)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	1.57 (39.9)
FMF121212MBTN-1	3/4"	3/4"	3/4"		0.600 (15.24)	4.63 (117.5)	2.31 (58.8)	2.31 (58.8)	1.57 (39.9)
FMF16164MBTN-1	1"	1"	1/4"		0.150 (3.81)	5.61 (142.4)	2.80 (71.2)	2.80 (71.2)	1.63 (41.4)
FMF161616MBTN-1	1"	1"	1"		0.850 (21.59)	5.61 (142.4)	2.80 (71.2)	2.80 (71.2)	2.02 (51.3)

MBTR MALE BRANCH TEE REDUCER



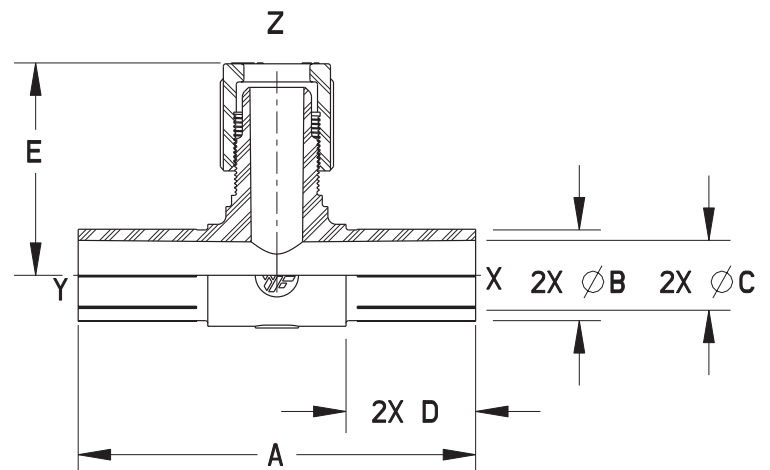
Ordering No.	Tube X	Tube x	Tube Y	Male (NPT) Z	Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
FMF644MBTRN-1	3/8"	1/4"	1/4"		0.150 (3.81)	3.64 (92.5)	1.89 (48.1)	1.75 (44.4)	1.18 (30.0)
FMF646MBTRN-1	3/8"	1/4"	3/8"		0.150 (3.81)	3.64 (92.5)	1.89 (48.1)	1.75 (44.4)	1.18 (30.0)
FMF866MBTRN-1	1/2"	3/8"	3/8"		0.250 (6.35)	3.96 (100.5)	2.06 (52.4)	1.89 (48.1)	1.18 (30.0)
FMF848MBTRN-1	1/2"	1/4"	1/2"		0.150 (3.81)	3.81 (96.8)	2.06 (52.4)	1.75 (44.4)	1.42 (36.1)
FMF868MBTRN-1	1/2"	3/8"	1/2"		0.250 (6.35)	3.96 (100.5)	2.06 (52.4)	1.89 (48.1)	1.42 (36.1)

MRT MALE RUN TEE



Ordering No.	Tube x Male (NPT) x Tube			Orifice (mm)	A (mm)	B (mm)	C (mm)	D (mm)
	X	x	Y x Z					
FMF424MRTN-1	1/4"	1/8"	1/4"	0.150 (3.81)	2.67 (67.7)	0.92 (23.4)	1.75 (44.4)	1.75 (44.4)
FMF444MRTN-1	1/4"	1/4"	1/4"	0.150 (3.81)	2.87 (72.8)	1.12 (28.4)	1.75 (44.4)	1.75 (44.4)
FMF464MRTN-1	1/4"	3/8"	1/4"	0.150 (3.81)	2.93 (74.3)	1.18 (30.0)	1.75 (44.4)	1.75 (44.4)
FMF626MRTN-1	3/8"	1/8"	3/8"	0.250 (6.35)	2.81 (71.5)	0.92 (23.4)	1.89 (48.1)	1.89 (48.1)
FMF646MRTN-1	3/8"	1/4"	3/8"	0.250 (6.35)	3.01 (76.5)	1.12 (28.4)	1.89 (48.1)	1.89 (48.1)
FMF666MRTN-1	3/8"	3/8"	3/8"	0.250 (6.35)	3.07 (78.1)	1.18 (30.0)	1.89 (48.1)	1.89 (48.1)
FMF686MRTN-1	3/8"	1/2"	3/8"	0.250 (6.35)	3.31 (84.2)	1.42 (36.1)	1.89 (48.1)	1.89 (48.1)
FMF868MRTN-1	1/2"	3/8"	1/2"	0.375 (9.53)	3.24 (82.4)	1.18 (30.0)	2.06 (52.4)	2.06 (52.4)
FMF888MRTN-1	1/2"	1/2"	1/2"	0.375 (9.53)	3.48 (88.5)	1.42 (36.1)	2.06 (52.4)	2.06 (52.4)
FMF12812MRTN-1	3/4"	1/2"	3/4"	0.625 (15.88)	3.73 (94.8)	1.42 (36.1)	2.31 (58.8)	2.31 (58.8)
FMF121212MRTN-1	3/4"	3/4"	3/4"	0.625 (15.88)	3.88 (98.6)	1.57 (39.9)	2.31 (58.8)	2.31 (58.8)

BT BRANCH TEE



Ordering No.	Pipe x Pipe x Tube			Orifice (mm)	A (mm)	ØB (mm)	ØC (mm)	D (mm)	E (mm)
	X	x	Y x Z						
FBBT-888FN-1	1/2"	1/2"	1/2"	0.375 (9.53)	4.60 (116.8)	0.840 (21.34)	0.607 (15.42)	1.50 (38.1)	2.22 (56.5)
FBBT-121212FN-1	3/4"	3/4"	3/4"	0.625 (15.88)	4.60 (116.8)	1.050 (26.67)	0.809 (20.55)	1.50 (38.1)	2.32 (59.0)

FURON® FASTFLARE™ FORMING TOOL



Furon FastFLARE forming tools are ideal for cold flaring PFA tubing. For use with Furon Flare Grip® and Flare Grip II PFA fittings.

Ordering Information

PART NO.	DESCRIPTION
1101021	1/4" (6.35mm)
1101022	3/8" (9.53mm)
1101023	1/2" (12.7mm)
1101024	3/4" (19.5mm)
1101025	1" (25.4mm)

Usage Guide

1. Install nut on tubing
2. Insert flaring tool spreader tip all the way into the end of the tube
3. Maintain insertion pressure while lightly squeezing the flaring tool to expand the spreader tip
4. Relax squeezing pressure and rotate tube slightly
5. Repeat step 2 several times, progressively increasing pressure until maximum spreading expansion is reached

Note:

1. Tubing will be pushed off the spreader tip slightly each time
2. It is critical to repeat and rotate the expanding/spreading process several times to ensure proper flaring



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USA Toll Free: (800) 833-5661

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12-month **Limited Warranty:** For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in manufacturing. This company's only obligation will be to provide replacement product for any material proven to have such a defect, or at SGPP's option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct, consequential or incidental, arising out of the use, misuse, or inability to use this product. SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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