

Fittings

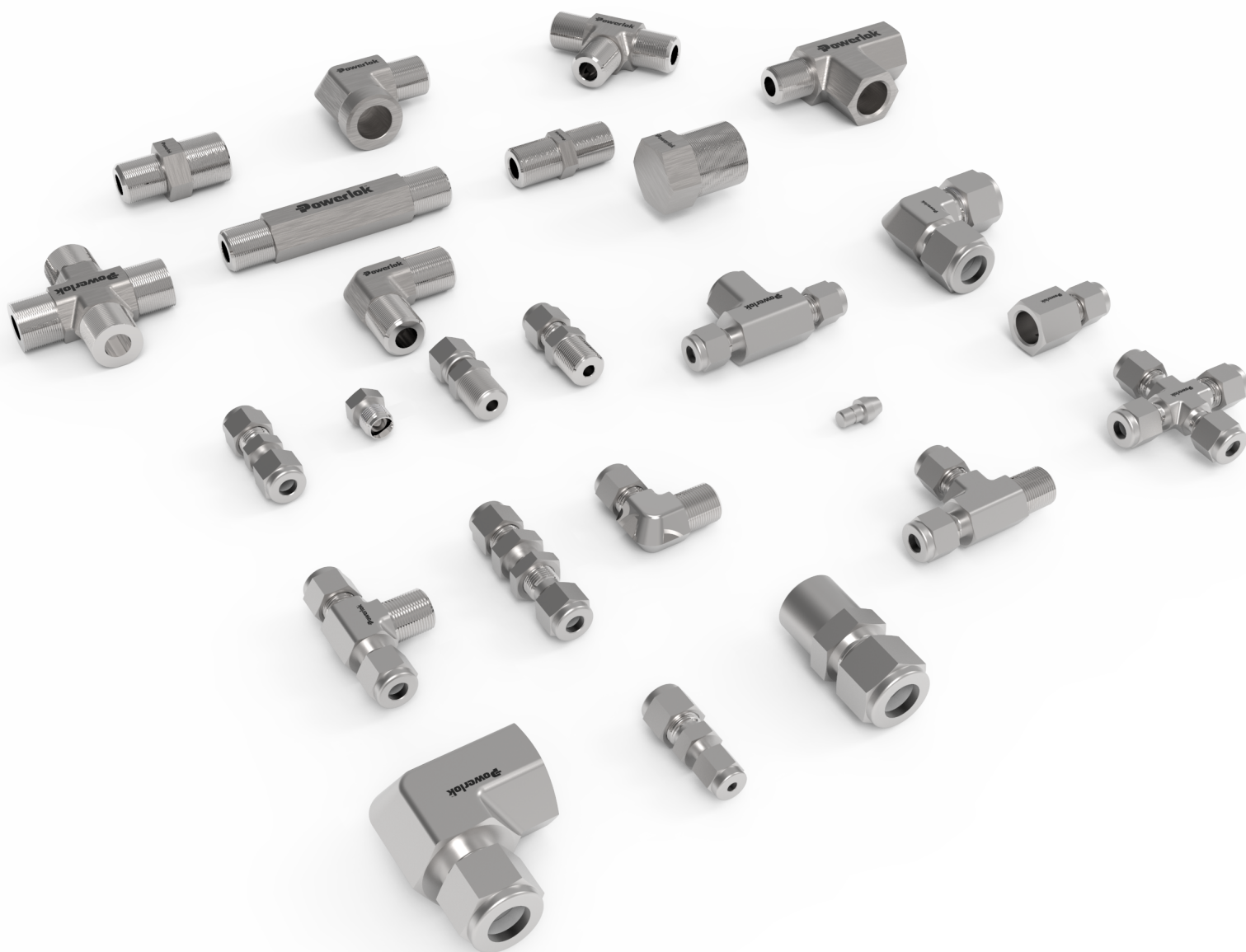


Table Of Content

05 Tube Fittings

35 Pipe Fittings

44 Flange Fittings

Material Ordering Information

Add a material designator to the basic ordering number.

Designator	Materials
S6	SS316L
SH	SS316 (Minimum 2.5 % Molybdenum)
SA	6MO
N1	INCONEL 625
N2	INCONEL 825
SB	DUPLEX
SD	SUPER DUPLEX
N4	MONEL
N6	HASTELLOY
T1	TITANIUM

Minimum order quantities may apply to certain materials and configurations.

Contact your authorized Powerlok™ sales and service representative for information about additional sizes and special alloys.

Plating and Coating

To resist corrosion, all steel fittings are treated with an electrodeposited zinc plating.

Cleaning

Components are cleaned to remove oil, grease, and loose particles.

Material Standards

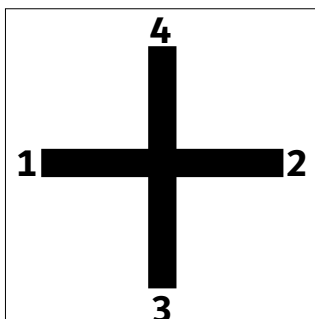
Sr. no.	Materials	Bar Stock	Forgings
1	SS316L	ASTM A276/ASTM A479, ASME SA479, EN 1.4401	ASTM A182, ASME SA182, EN 1.4401
2	SS316 (Minimum 2.5 % Molybdenum)	ASTM A276/ASTM A479, ASME SA479, EN 1.4401	ASTM A182
3	6MO	ASTM A479	ASTM A182 GRADE F44
4	INCONEL 625	ASTM B446	ASTM B564, ASME SB564
5	INCONEL 825	ASTM B425	ASTM B564, ASME SB564
6	DUPLEX	ASTM A479	ASTM A182
7	SUPER DUPLEX	ASTM A479	ASTM A182
8	MONEL	ASTM B164	ASTM B 564
9	HASTELLOY	ASTM B574	ASTM B564
10	TITANIUM	ASTM B 348	ASTM B 381

*Other Material Grades available based on End User & Project Specifications.

Tee's & Crosses Sizing

Tees are described by first sizing the run (1 to 2) and then the branch (3).

Crosses are described by first sizing the run (1 to 2) and then the branch (3 to 4).



Thread Specifications

Thread Type	Specification
NPT	ASME B1.20.1, SAE AS71051
ISO/BSP (parallel) (based on DIN 3852)	ISO 228, JIS B0202
ISO/BSP (tapered) (based on DIN 3852)	ISO 7/1, BS EN 10226-1, JIS B0203
ISO/BSP (gauge) (based on EN 837-1 and 837-3)	ISO 228, JIS B0202
Unified (SAE)	ASME B1.1

Features

- All fittings have a high-quality appearance.
- Every fitting is marked with manufacturer's name for easy source tracing.
- Male threads are capped for protection.

Temperature Ratings

- System temperatures may be limited by the thread sealant or, when applicable.

Dimensions

- Dimensions are for reference only and are subject to change.
- E dimensions refer to the minimum opening.

Thread Sealants

- Always use a thread sealant when assembling tapered threads.
- Contact your Contact your authorized Powerlok™ sales and service representative for more information.

Pressure Ratings

NPT/ISO Pipe Pressure Ratings

Ratings are based on ASME Code for Pressure Piping B31.3, Process Piping, at ambient temperature.

Size	316 SS	
	Male	Female
	Psig	Psig
1/8	10000	6500
1/4	8000	6600
3/8	7800	5300
1/2	7700	4900
3/4	7300	4600
1	5300	4400

Male AN Fittings Pressure Ratings

Pressure ratings are at ambient temperature and apply to slide-on and crimped-on swivel nuts with a female gland.

Size	316 SS	
	Straight	Shape
	Psig	Psig
7/16-20	10000	10000
9/16-18	8200	7600
3/4-16	8200	7600
1 1/16-12	7000	6300
1 5/16-12	5000	4100
1 5/8-12	2000	2000

Pressure Ratings

BSP Parallel Thread Pressure Ratings

Hydraulic pressure ratings are based on ISO 1179 at ambient temperature.

- RS and RP male connectors were tested with RP female connectors.
- RS end connections were tested with bonded RS gaskets.
- RP connections were tested without a gasket.
- Gasket selection is the responsibility of the system designer and user and may affect product performance.

BSP Parallel Thread RS Pressure Ratings

Size	316 SS
	Psig
1/8, 1/4, 3/8	5800
1/2	4700
3/4	3620
1	3620

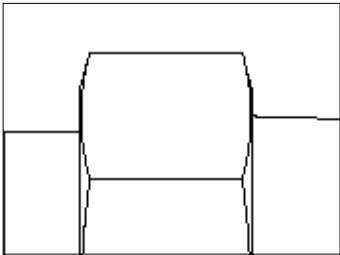
BSP Parallel Thread RP Pressure Ratings

Size	316 SS
	Psig
1/8, 1/4, 3/8	5800
1/2	4700
3/4	2320
1	1450

BSP Parallel Thread RG & RJ Pressure Ratings

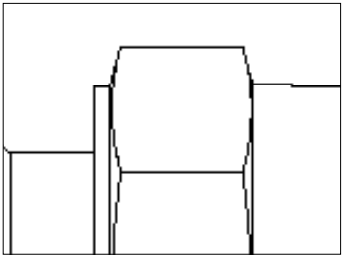
Size	316 SS
	Psig
1/8	5700
1/4	5700
3/8	5700
1/2	3900

Identification For Imperial & Metric Fittings



Imperial Fittings

imperial fittings of the powerlok doesn't comes with identification shoulder to provide customer with easy identification



Metric Fittings

metric fittings of the powerlok comes with identification shoulder to provide customer with easy Identification

Tube Fittings



Ordering Information

XXXX(Process Connection)

Size			Type
02- 1/8"	A2- 2 MM	B6-16 MM	O1- ODT
04- 1/4"	A4- 4 MM	B8-18 MM	O2-TUBE END
06- 3/8"	A6- 6 MM	C0-20 MM	
08- 1/2"	A8- 8 MM	C5-25 MM	
12- 3/4"	B0- 10 MM		
16- 1"	B2-12 MM		

(Additional ranges available upon request)

XXXX(Instrument Connection)

Size	Type
02- 1/8"	N1- NPT Male
04- 1/4"	N2- NPT Female
06- 3/8"	R1- BSPT Male
08- 1/2"	R2- BSPT Female
12- 3/4"	G5- BSPP Male
16- 1"	GA- BSPP Female

(Additional ranges available upon request)

XX (MOC of fittings)

S6- SS316L	SD- Super Duplex
SH- SS316(Minimum 2.5 %Molybdenum)	N4- MONEL
SA- 6MO	N6-HASTELLOY
N1- Inconel 625	T1- TITANIUM(GRADE 4)
N2- Inconel 825	
SB- Duplex	

(Additional ranges available upon request)

E- Fittings

E

1

D0

S6

MCON

04O1

04N1

:

04N1

:

04N1

1- Tube Fittings

XX (Pressure Rating)

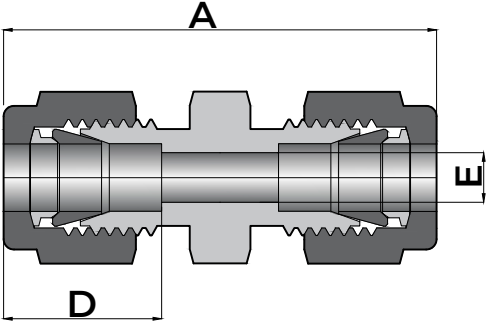
B0 - 3,000 PSI
D0 - 6,000 PSI

XXXX (Type of Tube Fitting)

UION-UNION	UNTE-UNION TEE
RDUN-REDUCING UNION	RBUT-REDUCING BRANCH UNION TEE
BHUN-BULK HEAD UNION	RRUT-REDUCING RUN UNION TEE
BHRU-BULK HEAD REDUCING UNION	MBRT-MALE BRANCH TEE
RDUC-REDUCER	PMBT-POSITIONAL MALE BRANCH TEE
MCON-MALE CONNECTOR	MRTE-MALE RUN TEE
BHMC-BULK HEAD MALE CONNECTOR	PMRT-POSITIONAL MALE RUN TEE
FCON-FEMALE CONNECTOR	FBRT-FEMALE BRANCH TEE
BHFC-BULK HEAD FEMALE CONNECTOR	FRTE-FEMALE RUN TEE
TSWC-TUBE SOCKET WELD CONNECTOR	UNCR-UNION CROSS
TBWC-TUBE BUTT WELD CONNECTOR	MTAD-MALE TUBE ADAPTOR
UNEL-UNION ELBOW	FTAD-FEMALE TUBE ADAPTOR
RUEL-REDUCING UNION ELBOW	SWTA-SOCKET WELD TUBE ADAPTOR
RDEL-REDUCING ELBOW	BWTA-BUTT WELD TUBE ADAPTOR
MELB-MALE ELBOW	TBPL-TUBE PLUG
FELB-FEMALE ELBOW	TUCP-TUBE CAP
TSWE-TUBE SOCKET WELD ELBOW	PRCN-PORT CONNECTOR
TBWE-TUBE BUTT WELD ELBOW	RPCN-REDUCING PORT CONNECTOR

(Additional ranges available upon request)

Union



A-D dimension is typical finger-tight.

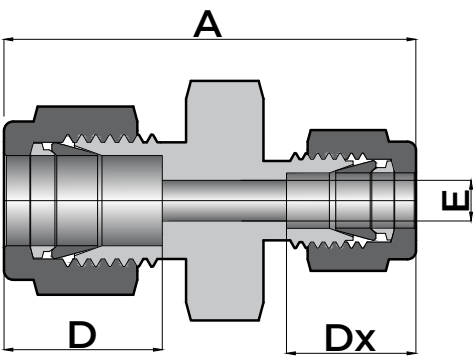
FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.		
		A	D	E
1/8	-UION-0201-0201	1.40	0.50	0.09
1/4	-UION-0401-0401	1.61	0.60	0.19
3/8	-UION-0601-0601	1.77	0.66	0.28
1/2	-UION-0801-0801	2.02	0.90	0.41
3/4	-UION-1201-1201	2.11	0.96	0.62
1	-UION-1601-1601	2.55	1.23	0.88

METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm		
		A	D	E
2	-UION-A201-A201	35.6	12.9	1.7
4	-UION-A401-A401	37.3	13.7	2.4
6	-UION-A601-A601	41.0	15.3	4.8
8	-UION-A801-A801	43.2	16.2	6.4
10	-UION-B001-B001	46.2	17.2	7.9
12	-UION-B201-B201	51.2	22.8	9.5
14	-UION-B401-B401	52.0	24.4	11.1
16	-UION-B601-B601	52.0	24.4	12.7
18	-UION-B801-B801	53.5	24.4	15.1
20	-UION-C001-C001	55.0	26.0	15.9
25	-UION-C501-C501	65.0	31.3	21.8

Reducing Union



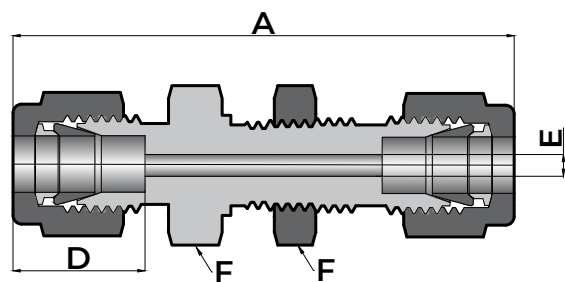
FRACTIONAL TO FRACTIONAL

Size		Basic ordering Information	Dimensions, in.			
			A	D	Dx	E
1/4	1/8	-RDUN-0401-0201	1.52	0.60	0.50	0.09
3/8	1/8	-RDUN-0601-0201	1.70	0.66	0.50	0.09
3/8	1/4	-RDUN-0601-0401	1.70	0.66	0.60	0.19
1/2	1/8	-RDUN-0801-0201	1.78	0.90	0.50	0.09
1/2	1/4	-RDUN-0801-0401	1.85	0.90	0.60	0.19
1/2	3/8	-RDUN-0801-0601	1.91	0.90	0.66	0.28
3/4	1/4	-RDUN-1201-0401	1.94	0.96	0.60	0.19
3/4	3/8	-RDUN-1201-0601	2.00	0.96	0.66	0.28
3/4	1/2	-RDUN-1201-0801	2.11	0.96	0.90	0.41
1	1/2	-RDUN-1601-0801	2.38	1.23	0.90	0.41
1	3/4	-RDUN-1601-1201	2.38	1.23	0.96	0.62

METRIC TO METRIC

Size		Basic ordering Information	Dimensions, mm			
			A	D	Dx	E
6	2	-RDUN-A601-A201	38.6	15.3	12.9	1.7
6	4	-RDUN-A601-A401	39.4	15.3	13.7	2.4
8	6	-RDUN-A801-A601	42.3	16.2	15.3	4.8
10	6	-RDUN-B001-A601	44.5	17.2	15.3	4.8
10	8	-RDUN-B001-A801	44.1	17.2	16.2	6.4
12	6	-RDUN-B201-A601	47.0	22.8	15.3	4.8
12	8	-RDUN-B201-A801	47.8	22.8	16.2	6.4
12	10	-RDUN-B201-B001	48.7	22.8	17.2	7.9
14	12	-RDUN-B401-B201	48.8	24.4	22.8	6.4
16	10	-RDUN-B601-B001	49.5	24.4	17.2	7.9
16	12	-RDUN-B601-B201	52.0	24.4	22.8	9.5
18	12	-RDUN-B801-B201	53.5	24.4	22.8	9.5
25	18	-RDUN-C501-B801	61.0	31.3	24.4	15.1
25	20	-RDUN-C501-C001	62.3	31.3	26.0	15.9

Bulkhead Union



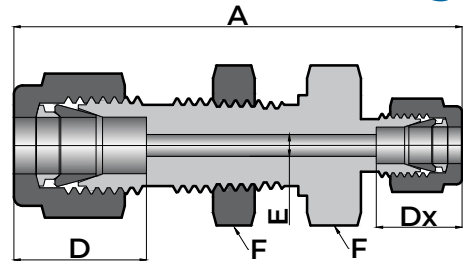
FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.					
		A	D	E	F	Panel Hole Size	Max. Panel Thickness
1/8	-BHUN-0201-0201	2.02	0.50	0.09	1/2	21/64	0.50
1/4	-BHUN-0401-0401	2.27	0.60	0.19	5/8	29/64	0.40
3/8	-BHUN-0601-0601	2.45	0.66	0.28	3/4	37/64	0.44
1/2	-BHUN-0801-0801	2.80	0.90	0.41	1 5/16	49/64	0.50
3/4	-BHUN-1201-1201	3.11	0.96	0.62	1 3/16	1 1/64	0.66
1	-BHUN-1601-1601	3.77	1.23	0.88	1 5/8	1 21/64	0.75

METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm					
		A	D	E	F	Panel Hole Size	Max. Panel Thickness
4	-BHUN-A401-A401	53.6	13.7	2.4	14	9.9	12.7
6	-BHUN-A601-A601	57.7	15.3	4.8	16	11.5	10.2
8	-BHUN-A801-A801	61.0	16.2	6.4	18	13.1	11.2
10	-BHUN-B001-B001	63.7	17.2	7.9	22	16.3	11.2
12	-BHUN-B201-B201	71.0	22.8	9.5	24	19.5	12.7
14	-BHUN-B401-B401	72.5	24.4	11.1	27	22.5	12.7
16	-BHUN-B601-B601	72.5	24.4	12.7	27	22.8	12.7
18	-BHUN-B801-B801	78.9	24.4	15.1	30	26.0	16.8
20	-BHUN-C001-C001	84.5	26.0	15.9	35	29.0	19.0
25	-BHUN-C501-C501	96.0	31.3	21.8	41	34.0	19.0

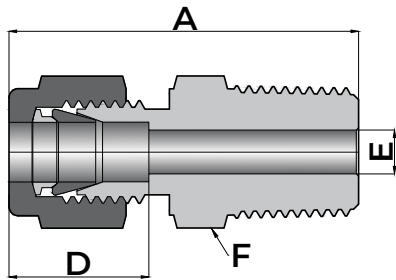
Bulkhead Reducing Union



FRACTIONAL TO FRACTIONAL

Size		Basic ordering Information	Dimensions, in.						
			A	D	Dx	E	F	Panel Hole Size	Max Panel Thickness
1/4	1/8	-BHRU-0401-0201	1.52	0.60	0.50	0.09	5/8	29/64	0.40
3/8	1/4	-BHRU-0601-0401	1.70	0.66	0.50	0.09	3/4	37/64	0.44
1/2	1/4	-BHRU-0801-0401	1.70	0.66	0.60	0.19	15/16	49/64	0.50

Male Connector



FRACTIONAL TO FRACTIONAL

NPT

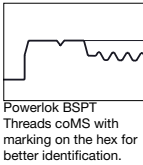
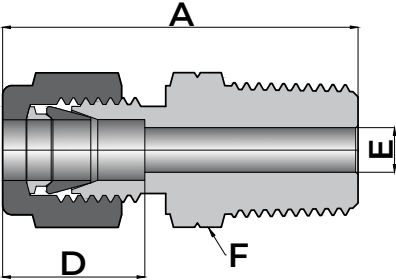
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MCON-02O1-02N1	1.40	0.50	0.09	7/16
	1/4	-MCON-02O1-04N1	1.40			9/16
	3/8	-MCON-02O1-06N1	1.40			1 1/16
	1/2	-MCON-02O1-02N1	1.40			7/8
1/4	1/8	-MCON-04O1-02N1	1.29	0.60	0.19	1/2
	1/4	-MCON-04O1-04N1	1.49			9/16
	3/8	-MCON-04O1-06N1	1.51			1 1/16
	1/2	-MCON-04O1-08N1	1.76			7/8
	3/4	-MCON-04O1-12N1	1.82			1 1/16
3/8	1/8	-MCON-06O1-02N1	1.39	0.66	0.28	5/8
	1/4	-MCON-06O1-04N1	1.57			5/8
	3/8	-MCON-06O1-06N1	1.57			1 1/16
	1/2	-MCON-06O1-08N1	1.82			7/8
	3/4	-MCON-06O1-12N1	1.88			1 1/16
	1	-MCON-06O1-16N1	2.14			1 3/8
1/2	1/8	-MCON-08O1-02N1	1.53	0.90	0.19	13/16
	1/4	-MCON-08O1-04N1	1.71		0.28	13/16
	3/8	-MCON-08O1-06N1	1.71		0.38	13/16
	1/2	-MCON-08O1-08N1	1.93		0.41	7/8
	3/4	-MCON-08O1-12N1	1.99		0.41	1 1/16
	1	-MCON-08O1-16N1	2.25		0.41	1 3/8
3/4	3/8	-MCON-12O1-06N1	1.80	0.96	0.62	1 1/16
	1/2	-MCON-12O1-08N1	1.99		0.62	1 1/16
	3/4	-MCON-12O1-12N1	1.99		0.62	1 1/16
	1	-MCON-12O1-16N1	2.55		0.62	1 3/8
1	1/2	-MCON-16O1-08N1	2.26	1.23	0.47	1 3/8
	3/4	-MCON-16O1-12N1	2.26		0.62	
	1	-MCON-16O1-16N1	2.45		0.88	

METRIC TO METRIC

NPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-MCON-A2O1-02N1	30.5	12.9	1.7	12
4	1/8	-MCON-A4O1-02N1	31.2	13.7	2.4	12
	1/4	-MCON-A4O1-04N1	36.3			14
6	1/8	-MCON-A6O1-02N1	32.8	15.3	4.8	14
	1/4	-MCON-A6O1-04N1	37.9			14
	3/8	-MCON-A6O1-06N1	38.4			18
	1/2	-MCON-A6O1-08N1	44.7			22
8	1/8	-MCON-A8O1-02N1	34.2	16.2	4.8	15
	1/4	-MCON-A8O1-04N1	38.7		6.4	15
	3/8	-MCON-A8O1-06N1	39.3		6.4	18
	1/2	-MCON-A8O1-08N1	45.6		6.4	22
10	1/8	-MCON-B0O1-02N1	36.3	17.2	4.8	18
	1/4	-MCON-B0O1-04N1	40.9		7.1	18
	3/8	-MCON-B0O1-06N1	40.9		7.9	18
	1/2	-MCON-B0O1-08N1	46.5		7.9	22
	3/4	-MCON-B0O1-12N1	48.0		7.9	27
12	1/8	-MCON-B2O1-02N1	38.8	22.8	4.8	22
	1/4	-MCON-B2O1-04N1	43.4		7.1	22
	3/8	-MCON-B2O1-06N1	43.4		9.5	22
	1/2	-MCON-B2O1-08N1	49.0		9.5	22
	3/4	-MCON-B2O1-12N1	50.5		9.5	27
	1	-MCON-B2O1-16N1	50.5		9.5	27
14	1/4	-MCON-B4O1-04N1	44.1	24.4	7.1	24
	3/8	-MCON-B4O1-06N1	44.1		9.5	
	1/2	-MCON-B4O1-08N1	49.0		11.1	
16	3/8	-MCON-B6O1-06N1	44.1	24.4	9.5	24
	1/2	-MCON-B6O1-08N1	49.0		11.9	24
	3/4	-MCON-B6O1-12N1	50.5		12.7	27
18	1/2	-MCON-B8O1-08N1	50.5	24.4	11.9	27
	3/4	-MCON-B8O1-12N1			15.1	
20	1/2	-MCON-C0O1-08N1	52.3	26.0	11.9	30
	3/4	-MCON-C0O1-12N1	57.1		15.9	
25	1/2	-MCON-C5O1-08N1	57.5	31.3	11.9	35
	3/4	-MCON-C5O1-12N1	57.5		15.9	
	1	-MCON-C5O1-16N1	62.3		21.8	

Male Connector



FRACTIONAL TO FRACTIONAL

BSPT

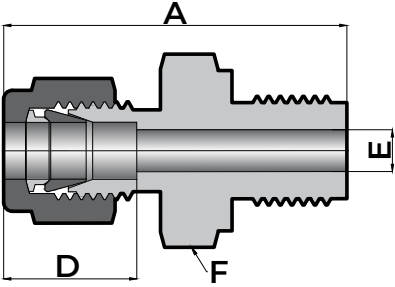
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MCON-02O1-02R1	1.40	0.50	0.09	7/16
	1/4	-MCON-02O1-04R1	1.40			9/16
	3/8	-MCON-02O1-06R1	1.40			11/16
	1/2	-MCON-02O1-08R1	1.40			7/8
1/4	1/8	-MCON-04O1-02R1	1.29	0.60	0.19	1/2
	1/4	-MCON-04O1-04R1	1.49			9/16
	3/8	-MCON-04O1-06R1	1.51			11/16
	1/2	-MCON-04O1-08R1	1.76			7/8
	3/4	-MCON-04O1-12R1	1.82			1 1/16
3/8	1/8	-MCON-06O1-02R1	1.39	0.66	0.28	5/8
	1/4	-MCON-06O1-04R1	1.57			5/8
	3/8	-MCON-06O1-06R1	1.57			1 1/16
	1/2	-MCON-06O1-08R1	1.82			7/8
	3/4	-MCON-06O1-12R1	1.88			1 1/16
	1	-MCON-06O1-16R1	2.14			1 3/8
1/2	1/8	-MCON-08O1-02R1	1.53	0.90	0.19	13/16
	1/4	-MCON-08O1-04R1	1.71		0.28	13/16
	3/8	-MCON-08O1-06R1	1.71		0.38	13/16
	1/2	-MCON-08O1-08R1	1.93		0.41	7/8
	3/4	-MCON-08O1-12R1	1.99		0.41	1 1/16
	1	-MCON-08O1-16R1	2.25		0.41	1 3/8
3/4	3/8	-MCON-12O1-06R1	1.80	0.96	0.62	1 1/16
	1/2	-MCON-12O1-08R1	1.99		0.62	1 1/16
	3/4	-MCON-12O1-12R1	1.99		0.62	1 1/16
	1	-MCON-12O1-16R1	2.55		0.62	1 3/8
1	1/2	-MCON-16O1-08R1	2.26	1.23	0.47	1 3/8
	3/4	-MCON-16O1-12R1	2.26		0.62	
	1	-MCON-16O1-16R1	2.45		0.88	

METRIC TO METRIC

BSPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-MCON-A2O1-02R1	30.5	12.9	1.7	12
4	1/8	-MCON-A4O1-02R1	31.2	13.7	2.4	12
	1/4	-MCON-A4O1-04R1	36.3			14
6	1/8	-MCON-A6O1-02R1	32.8	15.3	4.8	14
	1/4	-MCON-A6O1-04R1	37.9			14
	3/8	-MCON-A6O1-06R1	38.4			18
	1/2	-MCON-A6O1-08R1	44.7			22
8	1/8	-MCON-A8O1-02R1	34.2	16.2	4.8	15
	1/4	-MCON-A8O1-04R1	38.7		6.4	15
	3/8	-MCON-A8O1-06R1	39.3		6.4	18
	1/2	-MCON-A8O1-08R1	45.6		6.4	22
10	1/8	-MCON-B0O1-02R1	36.3	17.2	4.8	18
	1/4	-MCON-B0O1-04R1	40.9		7.1	18
	3/8	-MCON-B0O1-06R1	40.9		7.9	18
	1/2	-MCON-B0O1-08R1	46.5		7.9	22
	3/4	-MCON-B0O1-12R1	48.0		7.9	27
	1	-MCON-B0O1-16R1	50.8		7.9	30
12	1/8	-MCON-B2O1-02R1	38.8	22.8	4.8	22
	1/4	-MCON-B2O1-04R1	43.4		7.1	22
	3/8	-MCON-B2O1-06R1	43.4		9.5	22
	1/2	-MCON-B2O1-08R1	49.0		9.5	22
	3/4	-MCON-B2O1-12R1	50.5		9.5	27
14	1/4	-MCON-B4O1-04R1	44.1	24.4	7.1	24
	3/8	-MCON-B4O1-06R1	44.1		9.5	
	1/2	-MCON-B4O1-08R1	49.0		11.1	
16	3/8	-MCON-B6O1-06R1	44.1	24.4	9.5	24
	1/2	-MCON-B6O1-08R1	49.0		11.9	24
	3/4	-MCON-B6O1-12R1	50.5		12.7	27
18	1/2	-MCON-B8O1-08R1	50.5	24.4	11.9	27
	3/4	-MCON-B8O1-12R1			15.1	
20	1/2	-MCON-C0O1-08R1	52.3	26.0	11.9	30
	3/4	-MCON-C0O1-12R1	57.1		15.9	
25	1/2	-MCON-C5O1-08R1	57.5	31.3	11.9	35
	3/4	-MCON-C5O1-12R1	57.5		15.9	
	1	-MCON-C5O1-16R1	62.3		21.8	

Male Connector



FRACTIONAL TO FRACTIONAL

BSP Parallel Threads(RG)

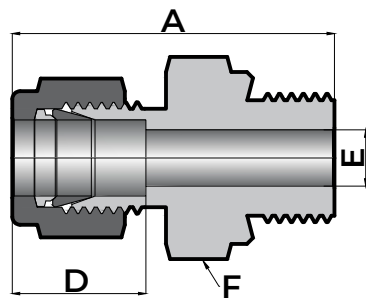
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MCON-0201-02G5	1.31	0.50	0.09	9/16
	1/4	-MCON-0201-04G5	1.50			3/4
	3/8	-MCON-0201-06G5	1.53			7/8
1/4	1/8	-MCON-0401-02G5	1.40	0.60	0.16	9/16
	1/4	-MCON-0401-04G5	1.59			3/4
	3/8	-MCON-0401-06G5	1.62		0.19	7/8
	1/2	-MCON-0401-08G5	1.70			1 1/16
3/8	1/8	-MCON-0601-02G5	1.49	0.66	0.16	5/8
	1/4	-MCON-0601-04G5	1.65			3/4
	3/8	-MCON-0601-06G5	1.68		0.28	7/8
	1/2	-MCON-0601-08G5	1.76			1 1/16
1/2	1/4	-MCON-0801-04G5	1.76	0.90	0.23	13/16
	3/8	-MCON-0801-06G5	1.79			7/8
	1/2	-MCON-0801-08G5	1.87		0.41	1 1/16
3/4	1/2	-MCON-1201-08G5	1.92	0.96	0.47	1 1/16
	3/4	-MCON-1201-12G5	2.05			1 5/16
1	1/2	-MCON-1601-08G5	2.19	1.23	0.47	1 3/8
	3/4	-MCON-1601-12G5	2.27			
	1	-MCON-1601-16G5	2.35		0.78	1 5/8

METRIC TO METRIC

BSP Parallel Threads(RG)

Size		Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-MCON-A201-02G5	33.3	12.9	1.7	14
4	1/8	-MCON-A401-02G5	34.0	13.7	2.4	14
6	1/8	-MCON-A601-02G5	35.6	15.3	4.0	14
	1/4	-MCON-A601-04G5	40.4		4.8	19
	3/8	-MCON-A601-06G5	41.1		4.8	22
	1/2	-MCON-A601-08G5	43.2		4.8	27
8	1/8	-MCON-A801-02G5	36.6	16.2	4.0	15
	1/4	-MCON-A801-04G5	41.4		5.9	19
	3/8	-MCON-A801-06G5	42.2		6.4	22
	1/2	-MCON-A801-08G5	44.2		6.4	27
10	1/4	-MCON-B001-04G5	42.2	17.2	5.9	19
	3/8	-MCON-B001-06G5	42.9		7.9	22
	1/2	-MCON-B001-08G5	45.0		7.9	27
12	1/4	-MCON-B201-04G5	44.5	22.8	5.9	22
	3/8	-MCON-B201-06G5	45.5		7.9	22
	1/2	-MCON-B201-08G5	47.5		9.5	27
	3/4	-MCON-B201-12G5	52.1		9.5	35
14	3/8	-MCON-B401-06G5	43.9	24.4	7.9	24
	1/2	-MCON-B401-08G5	47.5		11.1	27
16	3/8	-MCON-B601-06G5	45.5	24.4	7.9	24
	1/2	-MCON-B601-08G5	47.5		11.9	27
	3/4	-MCON-B601-12G5	52.8		12.7	35
18	1/2	-MCON-B801-08G5	48.8	24.4	11.9	27
	3/4	-MCON-B801-12G5	52.1		15.1	35
20	1/2	-MCON-C001-08G5	50.5	26.0	11.9	30
	3/4	-MCON-C001-12G5	52.6		15.1	35
25	3/4	-MCON-C501-12G5	57.7	31.3	15.9	35
	1	-MCON-C501-16G5	59.7		19.8	41

Male Connector



FRACTIONAL TO FRACTIONAL

BSP Parallel Threads(RS)

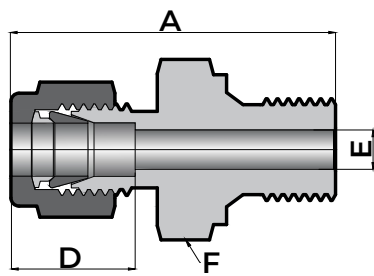
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MCON-02O1-02G1	1.31	0.50	0.09	9/16
	1/4	-MCON-02O1-04G1	1.50			3/4
	3/8	-MCON-02O1-06G1	1.53			7/8
1/4	1/8	-MCON-04O1-02G1	1.40	0.60	0.16	9/16
	1/4	-MCON-04O1-04G1	1.59			3/4
	3/8	-MCON-04O1-06G1	1.62		0.19	7/8
	1/2	-MCON-04O1-08G1	1.70			1 1/16
3/8	1/8	-MCON-06O1-02G1	1.49	0.66	0.16	5/8
	1/4	-MCON-06O1-04G1	1.65			3/4
	3/8	-MCON-06O1-06G1	1.68		0.28	7/8
	1/2	-MCON-06O1-08G1	1.76			1 1/16
1/2	1/4	-MCON-08O1-04G1	1.76	0.90	0.23	13/16
	3/8	-MCON-08O1-06G1	1.79			7/8
	1/2	-MCON-08O1-08G1	1.87		0.41	1 1/16
3/4	1/2	-MCON-12O1-08G1	1.92	0.96	0.47	1 1/16
	3/4	-MCON-12O1-12G1	2.05			1 5/16
1	1/2	-MCON-16O1-08G1	2.19	1.23	0.47	1 3/8
	3/4	-MCON-16O1-12G1	2.27			
	1	-MCON-16O1-16G1	2.35		0.78	1 5/8

METRIC TO METRIC

BSP Parallel Threads(RS)

Size		Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-MCON-A2O1-02G1	33.3	12.9	1.7	14
4	1/8	-MCON-A4O1-02G1	34.0	13.7	2.4	14
6	1/8	-MCON-A6O1-02G1	35.6	15.3	4.0	14
	1/4	-MCON-A6O1-04G1	40.4		4.8	19
	3/8	-MCON-A6O1-06G1	41.1		4.8	22
	1/2	-MCON-A6O1-08G1	43.2		4.8	27
8	1/8	-MCON-A8O1-02G1	36.6	16.2	4.0	15
	1/4	-MCON-A8O1-04G1	41.4		5.9	19
	3/8	-MCON-A8O1-06G1	42.2		6.4	22
	1/2	-MCON-A8O1-08G1	44.2		6.4	27
10	1/4	-MCON-B0O1-04G1	42.2	17.2	5.9	19
	3/8	-MCON-B0O1-06G1	42.9		7.9	22
	1/2	-MCON-B0O1-08G1	45.0		7.9	27
12	1/4	-MCON-B2O1-04G1	44.5	22.8	5.9	22
	3/8	-MCON-B2O1-06G1	45.5		7.9	22
	1/2	-MCON-B2O1-08G1	47.5		9.5	27
	3/4	-MCON-B2O1-12G1	52.1		9.5	35
14	3/8	-MCON-B4O1-06G1	43.9	24.4	7.9	24
	1/2	-MCON-B4O1-08G1	47.5		11.1	27
16	3/8	-MCON-B6O1-06G1	45.5	24.4	7.9	24
	1/2	-MCON-B6O1-08G1	47.5		11.9	27
	3/4	-MCON-B6O1-12G1	52.8		12.7	35
18	1/2	-MCON-B8O1-08G1	48.8	24.4	11.9	27
	3/4	-MCON-B8O1-12G1	52.1		15.1	35
20	1/2	-MCON-C0O1-08G1	50.5	26.0	11.9	30
	3/4	-MCON-C0O1-12G1	52.6		15.1	35
25	3/4	-MCON-C5O1-12G1	57.7	31.3	15.9	35
	1	-MCON-C5O1-16G1	59.7		19.8	41

Male Connector



FRACTIONAL TO FRACTIONAL

BSP Parallel Threads(RP)

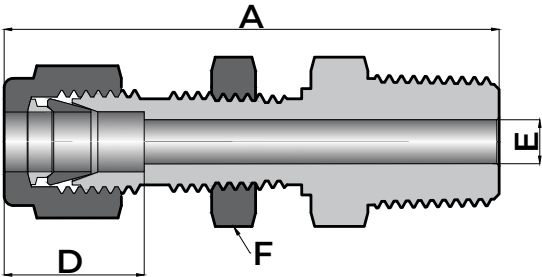
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MCON-02O1-02G2	1.31	0.50	0.09	9/16
	1/4	-MCON-02O1-04G2	1.50			3/4
	3/8	-MCON-02O1-06G2	1.53			7/8
1/4	1/8	-MCON-04O1-02G2	1.40	0.60	0.16	9/16
	1/4	-MCON-04O1-04G2	1.59			3/4
	3/8	-MCON-04O1-06G2	1.62		0.19	7/8
	1/2	-MCON-04O1-08G2	1.70			1 1/16
3/8	1/8	-MCON-06O1-02G2	1.49	0.66	0.16	5/8
	1/4	-MCON-06O1-04G2	1.65			3/4
	3/8	-MCON-06O1-06G2	1.68		0.28	7/8
	1/2	-MCON-06O1-08G2	1.76			1 1/16
1/2	1/4	-MCON-08O1-04G2	1.76	0.90	0.23	13/16
	3/8	-MCON-08O1-06G2	1.79			7/8
	1/2	-MCON-08O1-08G2	1.87		0.41	1 1/16
3/4	1/2	-MCON-12O1-08G2	1.92	0.96	0.47	1 1/16
	3/4	-MCON-12O1-12G2	2.05			1 5/16
1	1/2	-MCON-16O1-08G2	2.19	1.23	0.47	1 3/8
	3/4	-MCON-16O1-12G2	2.27			
	1	-MCON-16O1-16G2	2.35		0.78	1 5/8

METRIC TO METRIC

BSP Parallel Threads(RP)

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-MCON-A2O1-02G2	33.3	12.9	1.7	14
4	1/8	-MCON-A4O1-02G2	34.0	13.7	2.4	14
6	1/8	-MCON-A6O1-02G2	35.6	15.3	4.0	14
	1/4	-MCON-A6O1-04G2	40.4		4.8	19
	3/8	-MCON-A6O1-06G2	41.1		4.8	22
	1/2	-MCON-A6O1-08G2	43.2		4.8	27
8	1/8	-MCON-A8O1-02G2	36.6	16.2	4.0	15
	1/4	-MCON-A8O1-04G2	41.4		5.9	19
	3/8	-MCON-A8O1-06G2	42.2		6.4	22
	1/2	-MCON-A8O1-08G2	44.2		6.4	27
10	1/4	-MCON-B0O1-04G2	42.2	17.2	5.9	19
	3/8	-MCON-B0O1-06G2	42.9		7.9	22
	1/2	-MCON-B0O1-08G2	45.0		7.9	27
12	1/4	-MCON-B2O1-04G2	44.5	22.8	5.9	22
	3/8	-MCON-B2O1-06G2	45.5		7.9	22
	1/2	-MCON-B2O1-08G2	47.5		9.5	27
	3/4	-MCON-B2O1-12G2	52.1		9.5	35
14	3/8	-MCON-B4O1-06G2	43.9	24.4	7.9	24
	1/2	-MCON-B4O1-08G2	47.5		11.1	27
16	3/8	-MCON-B6O1-06G2	45.5	24.4	7.9	24
	1/2	-MCON-B6O1-08G2	47.5		11.9	27
	3/4	-MCON-B6O1-12G2	52.8		12.7	35
18	1/2	-MCON-B8O1-08G2	48.8	24.4	11.9	27
	3/4	-MCON-B8O1-12G2	52.1		15.1	35
20	1/2	-MCON-C0O1-08G2	50.5	26.0	11.9	30
	3/4	-MCON-C0O1-G2	52.6		15.1	35
25	3/4	-MCON-02O1-02G2	57.7	31.3	15.9	35
	1	-MCON-02O1-02G2	59.7		19.8	41

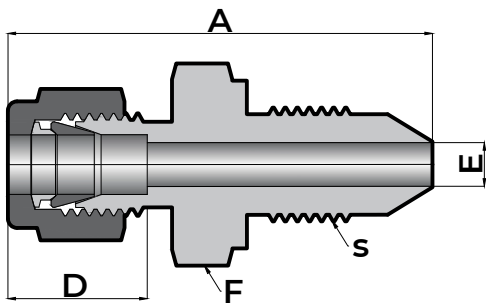
Male Connector



NPT Male

Size	Size	Basic ordering Information	Dimensions, in.					
			A	D	E	F	Panel Hole Size	Max Panel Thickness
1/8	1/8	-BHMC-02O1-02N1	1.83	0.50	0.09	1/2	21/64	0.50
1/4	1/8	-BHMC-04O1-02N1	1.95	0.60	0.19	5/8	29/64	0.40
	1/4	-BHMC-04O1-04N1	2.13					
3/8	1/4	-BHMC-06O1-04N1	2.26	0.66	0.28	3/4	37/64	0.44
	3/8	-BHMC-06O1-06N1	2.26					
	1/2	-BHMC-06O1-08N1	2.51					
1/2	3/8	-BHMC-08O1-06N1	2.49	0.90	0.38	15/16	49/64	0.50
	1/2	-BHMC-08O1-08N1	2.71		0.41			
3/4	3/4	-BHMC-12O1-12N1	3.00	0.96	0.62	1 3/16	1 1/64	0.66
1	1	-BHMC-16O1-16N1	3.67	1.23	0.88	1 5/8	1 21/64	0.75

Male Connector

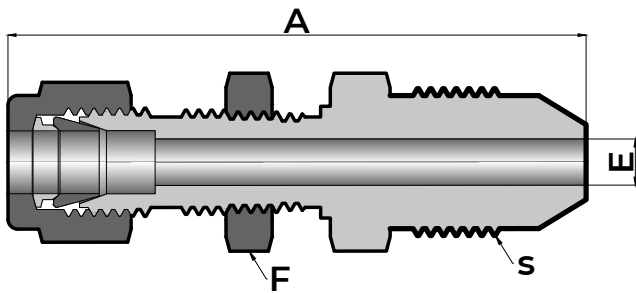


FRACTIONAL TO FRACTIONAL

AN Fitting

Size	Size	Basic ordering Information	Dimensions, in.				
			A	D	E	F	S
1/8	1/8	-MCON-02O1-02G7	1.27	0.50	0.06	7/16	5/16-24UNJF-3
	1/4	-MCON-02O1-02G7	1.38		0.09	1/2	7/16-20UNJF-3
1/4	1/4	-MCON-04O1-04G7	1.48	0.60	0.17	1/2	7/16-20UNJF-3
3/8	1/4	-MCON-06O1-04G7	1.56	0.66	0.17	5/8	7/16-20UNJF-3
	3/8	-MCON-06O1-06G7			0.28		9/16-18UNJF-3
1/2	1/2	-MCON-08O1-08G7	1.81	0.90	0.39	13/16	3/4-16UNJF-3
3/4	3/4	-MCON-12O1-12G7	2.10	0.96	0.61	1 1/8	1 1/16-12UNJ-3
1	1	-MCON-16O1-16G7	2.42	1.23	0.84	1 3/8	1 5/16-12UNJ-3

Bulk Head Male Connector

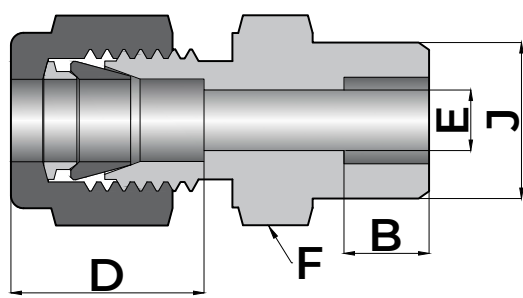


FRACTIONAL TO FRACTIONAL

AN Fitting

Size	Size	Basic ordering Information	Dimensions, in.						
			A	D	E	F	S	Panel Hole Size	Max Panel Thickness
1/4	1/4	-BHMC-04O1-04G7	2.12	0.60	0.17	5/8	7/16-20UNJF-3	29/64	0.40
3/8	3/8	-BHMC-06O1-06G7	2.25	0.66	0.28	3/4	9/16-18UNJF-3	37/64	0.44
1/2	1/2	-BHMC-08O1-08G7	2.59	0.90	0.39	15/16	3/4-16UNJF-3	49/64	0.50
3/4	3/4	-BHMC-12O1-12G7	3.11	0.96	0.61	1 3/16	1 1/16-12UNJ-3	1 1/64	0.66
1	1	-BHMC-16O1-16G7	3.64	1.23	0.84	1 5/8	1 5/16-12UNJ-3	1 21/64	0.75

Weld Connector

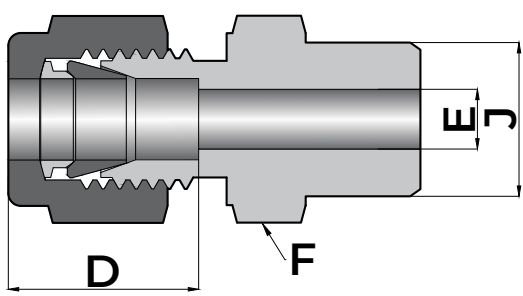


FRACTIONAL TO FRACTIONAL

Tube Socket Weld

Size	Size	Basic ordering Information	Dimensions, in.				
			A	B	D	E	J
1/8	1/8	-MCON-02O1-02W2	1.14	0.10	0.50	0.09	0.29
1/4	1/4	-MCON-04O1-04W2	1.32	0.28	0.60	0.19	0.48
3/8	3/8	-MCON-06O1-06W2	1.48	0.31	0.66	0.28	0.60
1/2	1/2	-MCON-08O1-08W2	1.62	0.38	0.90	0.41	0.73
3/4	3/4	-MCON-12O1-12W2	1.71	0.44	0.96	0.62	1.04
1	1	-MCON-16O1-16W2	2.07	0.62	1.23	0.88	1.36

Weld Connector



FRACTIONAL TO FRACTIONAL

Tube Butt Weld

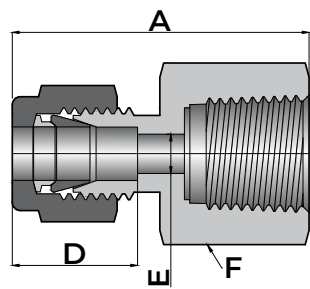
Size	Size	Basic ordering Information	Dimensions, in.				
			A	D	E	F	J
1/8	1/8	-MCON-02O1-02W1	1.20	0.50	0.09	7/16	0.405
1/4	1/8	-MCON-04O1-02W1	1.29	0.60	0.19	1/2	0.405
	1/4	-MCON-04O1-04W1	1.49	0.60		9/16	0.540
3/8	1/4	-MCON-06O1-04W1	1.57	0.66	0.28	5/8	0.540
	3/8	-MCON-06O1-06W1	1.57			11/16	0.675
	1/2	-MCON-06O1-08W1	1.82			7/8	0.840
	3/4	-MCON-06O1-12W1	1.88			1 1/16	1.050
1/2	3/8	-MCON-08O1-06W1	1.71	0.90	0.41	13/16	0.675
	1/2	-MCON-08O1-08W1	1.93			7/8	0.840
	3/4	-MCON-08O1-12W1	1.99			1 1/16	1.050
	1	-MCON-08O1-16W1	2.25			1 3/8	1.315
3/4	1/2	-MCON-12O1-08W1	1.99	0.96	0.55	1 1/16	0.840
	3/4	-MCON-12O1-12W1			0.62		1.050
1	1	-MCON-16O1-16W1	2.45	1.23	0.88	1 3/8	1.315

METRIC TO FRACTIONAL

SAE/MS Straight Thread

Size	Size	Basic ordering Information	Dimensions, mm				
			A	D	E	F	J
4	1/8	-MCON-A4O1-02W1	31.2	13.7	2.4	12	10.3
6	1/8	-MCON-A6O1-02W1	32.8	15.3	4.8	14	10.3
	1/4	-MCON-A6O1-04W1	37.9				13.7
8	1/8	-MCON-A8O1-02W1	34.2	16.2	5.4	15	10.3
	1/4	-MCON-A8O1-04W1	38.7			15	13.7
	1/2	-MCON-A8O1-08W1	45.6			22	21.3
10	1/4	-MCON-B0O1-02W1	40.9	17.2	7.5	18	13.7
	3/8	-MCON-B0O1-06W1	40.9		7.9	18	17.1
	1/2	-MCON-B0O1-08W1	46.5		7.9	22	21.3
12	1/4	-MCON-B2O1-04W1	43.4	22.8	7.5	22	13.7
	3/8	-MCON-B2O1-06W1	43.4			22	17.1
	1/2	-MCON-B2O1-08W1	49.0		9.5	22	21.3
	3/4	-MCON-B2O1-12W1	50.5			27	26.7
14	3/8	-MCON-B4O1-06W1	44.1	24.4	10.7	24	17.1
16	1/2	-MCON-B6O1-08W1	49.0	24.4	11.9	24	21.3
18	1/2	-MCON-B8O1-08W1	50.5	24.4	12.7	27	21.3

Female Connector



FRACTIONAL TO FRACTIONAL

NPT

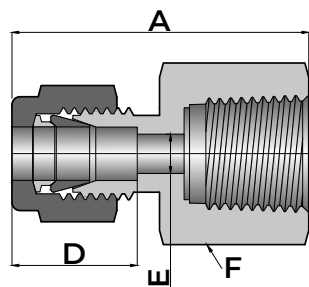
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-FCON-02O1-02N2	1.13	0.50	0.09	7/16
	1/4	-FCON-02O1-04N2	1.32			9/16
1/4	1/8	-FCON-04O1-02N2	1.23	0.60	0.19	9/16
	1/4	-FCON-04O1-04N2	1.41			3/4
	3/8	-FCON-04O1-06N2	1.48			7/8
	1/2	-FCON-04O1-08N2	1.67			1 1/16
3/8	1/8	-FCON-06O1-02N2	1.29	0.66	0.28	5/8
	1/4	-FCON-06O1-04N2	1.48			3/4
	3/8	-FCON-06O1-06N2	1.54			7/8
	1/2	-FCON-06O1-08N2	1.73			1 1/16
	3/4	-FCON-06O1-12N2	1.88			1 5/16
1/2	1/4	-FCON-08O1-04N2	1.59	0.90	0.41	13/16
	3/8	-FCON-08O1-06N2	1.65			7/8
	1/2	-FCON-08O1-08N2	1.84			1 1/16
	3/4	-FCON-08O1-12N2	1.90			1 5/16
3/4	1/2	-FCON-12O1-08N2	1.84	0.96	0.62	1 1/16
	3/4	-FCON-12O1-12N2	1.90			1 5/16
1	3/4	-FCON-16O1-12N2	2.10	1.23	0.88	1 3/8
	1	-FCON-16O1-16N2	2.45			1 5/8

METRIC TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
4	1/8	-FCON-A4O1-02N2	29.7	13.7	2.4	14
6	1/8	-FCON-A6O1-02N2	31.3	15.3	4.8	14
	1/4	-FCON-A6O1-04N2	35.8			19
	3/8	-FCON-A6O1-06N2	37.6			22
	1/2	-FCON-A6O1-08N2	42.5			27
8	1/8	-FCON-A8O1-02N2	32.1	16.2	6.4	15
	1/4	-FCON-A8O1-04N2	37.0			19
	3/8	-FCON-A8O1-06N2	38.5			22
	1/2	-FCON-A8O1-08N2	43.3			27
10	1/4	-FCON-B0O1-04N2	37.8	17.2	7.9	19
	3/8	-FCON-B0O1-06N2	39.4			22
	1/2	-FCON-B0O1-08N2	44.2			27
12	1/4	-FCON-B2O1-04N2	40.3	22.8	9.5	22
	3/8	-FCON-B2O1-06N2	41.9			22
	1/2	-FCON-B2O1-08N2	46.7			27
16	1/2	-FCON-B6O1-08N2	46.9	24.4	12.7	27
20	1/2	-FCON-C0O1-08N2	47.9	26.0	15.9	30
	3/4	-FCON-C0O1-12N2	49.7			35
25	3/4	-FCON-C5O1-12N2	53.4	31.3	21.8	35
	1	-FCON-C5O1-16N2	62.3			41

Female Connector



FRACTIONAL TO FRACTIONAL

BSPT

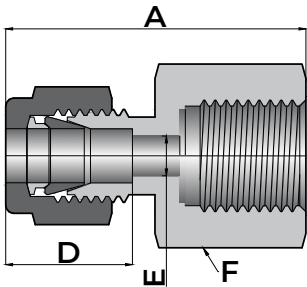
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-FCON-02O1-02R2	1.13	0.50	0.09	7/16
	1/4	-FCON-02O1-04R2	1.32			9/16
1/4	1/8	-FCON-04O1-02R2	1.23	0.60	0.19	9/16
	1/4	-FCON-04O1-04R2	1.41			3/4
	3/8	-FCON-04O1-06R2	1.48			7/8
	1/2	-FCON-04O1-08R2	1.67			1 1/16
3/8	1/8	-FCON-06O1-02R2	1.29	0.66	0.28	5/8
	1/4	-FCON-06O1-04R2	1.48			3/4
	3/8	-FCON-06O1-06R2	1.54			7/8
	1/2	-FCON-06O1-08R2	1.73			1 1/16
	3/4	-FCON-06O1-12R2	1.88			1 5/16
1/2	1/4	-FCON-08O1-04R2	1.59	0.90	0.41	13/16
	3/8	-FCON-08O1-06R2	1.65			7/8
	1/2	-FCON-08O1-08R2	1.84			1 1/16
	3/4	-FCON-08O1-12R2	1.90			1 5/16
3/4	1/2	-FCON-12O1-08R2	1.84	0.96	0.62	1 1/16
	3/4	-FCON-12O1-12R2	1.90			1 5/16
1	3/4	-FCON-16O1-12R2	2.10	1.23	0.88	1 3/8
	1	-FCON-16O1-16R2	2.45			1 5/8

METRIC TO FRACTIONAL

BSPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
4	1/8	-FCON-A4O1-02R2	29.7	13.7	2.4	14
6	1/8	-FCON-A6O1-02R2	31.3	15.3	4.8	14
	1/4	-FCON-A6O1-04R2	35.8			19
	3/8	-FCON-A6O1-06R2	37.6			22
	1/2	-FCON-A6O1-08R2	42.5			27
8	1/8	-FCON-A8O1-02R2	32.1	16.2	6.4	15
	1/4	-FCON-A8O1-04R2	37.0			19
	3/8	-FCON-A8O1-06R2	38.5			22
	1/2	-FCON-A8O1-08R2	43.3			27
10	1/4	-FCON-B0O1-04R2	37.8	17.2	7.9	19
	3/8	-FCON-B0O1-06R2	39.4			22
	1/2	-FCON-B0O1-08R2	44.2			27
12	1/4	-FCON-B2O1-04R2	40.3	22.8	9.5	22
	3/8	-FCON-B2O1-06R2	41.9			22
	1/2	-FCON-B2O1-08R2	46.7			27
16	1/2	-FCON-B6O1-08R2	46.9	24.4	12.7	27
20	1/2	-FCON-C0O1-08R2	47.9	26.0	15.9	30
	3/4	-FCON-C0O1-12R2	49.7			35
25	3/4	-FCON-C5O1-12R2	53.4	31.3	21.8	35
	1	-FCON-C5O1-16R2	62.3			41

Female Connector



FRACTIONAL TO FRACTIONAL

BSPP(RG)

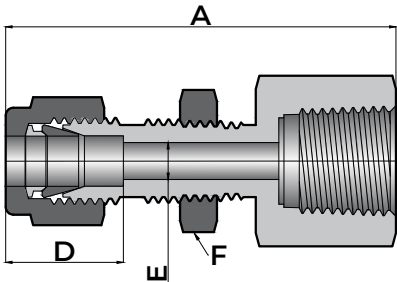
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-FCON-02O1-02GA	1.13	0.50	0.09	9/16
1/4	1/4	-FCON-04O1-02GA	1.48	0.60	0.18	3/4
	3/8	-FCON-04O1-06GA	1.48		0.19	15/16
	1/2	-FCON-04O1-08GA	1.71		0.19	1 1/16
3/8	1/4	-FCON-06O1-04GA	1.54	0.66	0.22	3/4
	3/8	-FCON-06O1-06GA	1.52		0.26	15/16
	1/2	-FCON-06O1-08GA	1.65		0.28	1 1/16
1/2	1/4	-FCON-08O1-04GA	1.65	0.90	0.22	13/16
	3/8	-FCON-08O1-06GA	1.75		0.26	15/16
	1/2	-FCON-08O1-08GA	1.90		0.28	1 1/16

METRIC TO FRACTIONAL

BSPP(RG)

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
6	1/4	-FCON-A6O1-04GA	37.6	15.3	4.8	19
	3/8	-FCON-A6O1-06GA	37.6			24
	1/2	-FCON-A6O1-08GA	43.5			27
8	1/4	-FCON-A8O1-04GA	38.5	16.2	5.5	19
	3/8	-FCON-A8O1-06GA	36.2		6.5	24
	1/2	-FCON-A8O1-08GA	41.0		7.0	27
10	1/4	-FCON-B0O1-04GA	39.4	17.2	5.5	19
	3/8	-FCON-B0O1-06GA	38.8		6.5	24
	1/2	-FCON-B0O1-08GA	42.1		7.0	27
12	1/4	-FCON-B2O1-04GA	41.9	22.8	5.5	22
	3/8	-FCON-B2O1-06GA	44.4		6.5	24
	1/2	-FCON-B2O1-08GA	48.2		7.0	27

Bulkhead Female Connector



METRIC TO FRACTIONAL

NPT

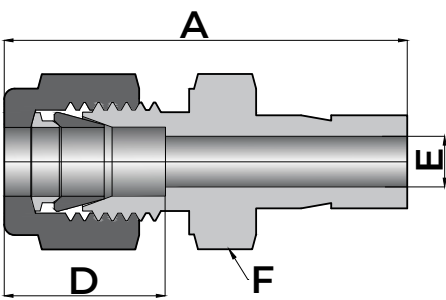
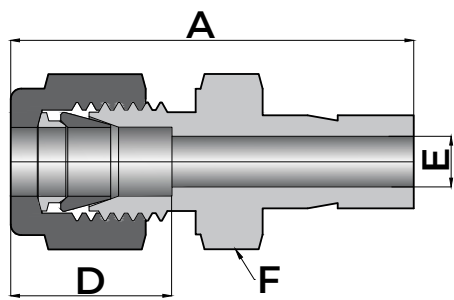
Size	Size	Basic ordering Information	Dimensions, mm					
			A	D	E	F	Panel Hole Size	Max Panel Thickness
6	1/4	-BHFC-A6O1-04N2	51.8	15.3	4.8	19	11.5	10.2
12	1/2	-BHFC-B2O1-08N2	66.5	22.8	9.5	27	19.5	12.7

FRACTIONAL TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, in.					
			A	D	E	F	Panel Hole Size	Max Panel Thickness
1/8	1/8	-BHFC-02O1-02N2	1.76	0.50	0.09	9/16	21/64	0.50
1/4	1/8	-BHFC-04O1-02N2	1.85	0.60	0.19	5/8	29/64	0.40
	1/4	-BHFC-04O1-04N2	2.04			3/4	37/64	
3/8	1/4	-BHFC-06O1-04N2	2.17	0.66	0.28	3/4	37/64	0.44
1/2	3/8	-BHFC-08O1-06N2	2.43	0.90	0.41	15/16	49/64	0.50
	1/2	-BHFC-08O1-08N2	2.62			1 1/16		

Reducers



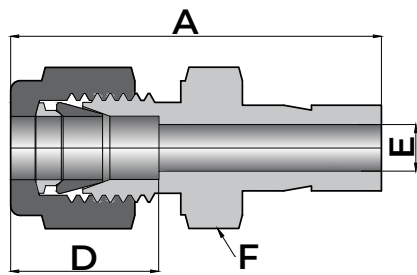
FRACTIONAL TO FRACTIONAL

Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-RDUC-0201-0202	1.13	0.50	0.09	7/16
	1/4	-RDUC-0201-0402	1.32			
	3/8	-RDUC-0201-0602	1.48			
	1/2	-RDUC-0201-0802	1.74			
1/4	1/8	-RDUC-0401-0202	1.45	0.60	0.19	1/2
	1/4	-RDUC-0401-0402	1.54			
	3/8	-RDUC-0401-0602	1.60			
	1/2	-RDUC-0401-0802	1.82			9/16
	3/4	-RDUC-0401-1202	1.88			13/16
3/8	1/4	-RDUC-0601-0402	1.63	0.66	0.17	5/8
	3/8	-RDUC-0601-0602	1.70		0.28	
	1/2	-RDUC-0601-0802	1.91			
	3/4	-RDUC-0601-1202	1.98			13/16
1/2	1/4	-RDUC-0801-0402	1.77	0.90	0.17	13/16
	3/8	-RDUC-0801-0602	1.84		0.27	
	1/2	-RDUC-0801-0802	2.06		0.37	
	3/4	-RDUC-0801-1202	2.12		0.41	
	1	-RDUC-0801-1602	2.37		0.41	1 1/16
3/4	1/2	-RDUC-1201-0802	2.15	0.96	0.37	1 1/16
	1	-RDUC-1201-1602	2.46		0.62	1 5/16

METRIC TO METRIC

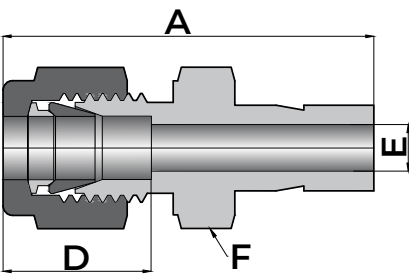
Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
6	8	-RDUC-A601-A802	39.9	15.3	4.8	14
	10	-RDUC-A601-B002	40.7			
	12	-RDUC-A601-B202	46.3			
	18	-RDUC-A601-B802	49.6			22
8	6	-RDUC-A801-A602	40.3	16.2	4.1	15
	10	-RDUC-A801-B002	42.0		6.4	
	12	-RDUC-A801-B202	47.6			
10	6	-RDUC-B001-A602	42.4	17.2	4.1	18
	8	-RDUC-B001-A802	43.4		5.6	
	12	-RDUC-B001-B202	49.8		7.9	
	18	-RDUC-B001-B802	51.3			22
12	6	-RDUC-B201-A602	44.9	22.8	4.1	22
	8	-RDUC-B201-A802	45.9		5.6	
	10	-RDUC-B201-B002	46.7		7.1	
	16	-RDUC-B201-B602	53.8		9.5	
	18	-RDUC-B201-B802	53.8			
	20	-RDUC-B201-C002	56.1			
	25	-RDUC-B201-C502	62.4			27
14	12	-RDUC-B401-B202	53.0	24.4	12.7	24
16	12	-RDUC-B601-B202	53.0	24.4	12.7	24
18	12	-RDUC-B801-B202	54.6	24.4	8.8	27
	16	-RDUC-B801-B602	56.1		12.0	
	20	-RDUC-B801-C002	57.6		15.9	
	25	-RDUC-B801-C502	62.4			
20	16	-RDUC-C001-B602	57.9	26.0	12.0	30
	18	-RDUC-C001-B802	57.9		13.9	
	25	-RDUC-C001-C502	64.2		15.9	
25	18	-RDUC-C501-B802	63.1	31.3	13.9	35
	20	-RDUC-C501-C002	64.6		15.5	

Reducers



FRACTIONAL TO METRIC

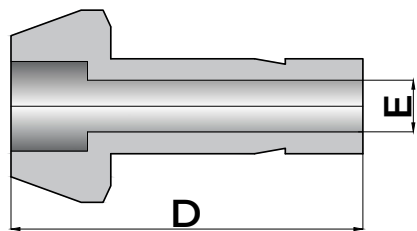
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	6	-RDUC-0201-A6O2	1.42	0.50	0.09	7/16



METRIC TO FRACTIONAL

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
2	1/8	-RDUC-A2O1-02O2	33.5	12.9	1.7	12
6	1/8	-RDUC-A6O1-02O2	36.9	15.3	2.0	14
	1/4	-RDUC-A6O1-04O2	39.2		4.4	
	3/8	-RDUC-A6O1-06O2	40.7		4.8	
	1/2	-RDUC-A6O1-08O2	46.3			
8	1/4	-RDUC-A8O1-04O2	40.3	16.2	4.4	15
	3/8	-RDUC-A8O1-06O2	42.0		6.4	
	1/2	-RDUC-A8O1-08O2	47.6			
10	3/8	-RDUC-B0O1-06O2	44.2	17.2	6.8	18
	1/2	-RDUC-B0O1-08O2	49.8		7.9	
12	1/2	-RDUC-B2O1-08O2	52.3	22.8	9.3	22
	3/4	-RDUC-B2O1-12O2	53.8		9.5	
18	3/4	-RDUC-B8O1-12O2	56.1	24.4	14.7	27
	1	-RDUC-B8O1-16O2	62.4		15.1	
25	1	-RDUC-C5O1-16O2	69.5	31.3	20.2	35

Port Connector



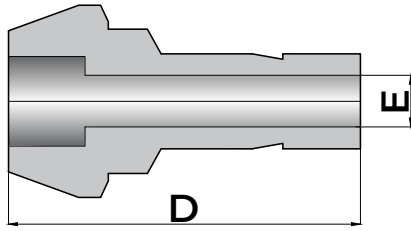
FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.	
		E	H
1/8	-PRCN-02O2	0.08	0.88
1/4	-PRCN-04O2	0.17	0.98
3/8	-PRCN-06O2	0.27	1.05
1/2	-PRCN-08O2	0.37	1.43
3/4	-PRCN-12O2	0.58	1.49
1	-PRCN-16O2	0.80	1.94

METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm	
		E	H
8	-PRCN-A8O2	5.6	26.0
10	-PRCN-B0O2	7.1	27.1
12	-PRCN-B2O2	8.8	36.2
16	-PRCN-B6O2	12.0	37.8
18	-PRCN-B8O2	3.9	37.8
20	-PRCN-C0O2	15.5	39.4
25	-PRCN-C5O2	19.9	49.3

Reducing Port Connector



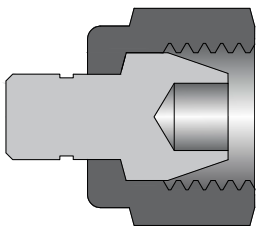
METRIC TO METRIC

Size	Size	Basic ordering Information	Dimensions, mm	
			E	H
8	6	-RPCN-A8-A6O2	4.1	25.4
10	6	-RPCN-B0-A6O2	4.1	25.8
	8	-RPCN-B0-A8O2	5.6	26.3
12	6	-RPCN-B2-A6O2	4.1	29.6
	8	-RPCN-B2-A8O2	5.6	30.1
	10	-RPCN-B2-B0O2	7.1	30.6
16	12	-RPCN-B6-B2O2	8.8	37.5

FRACTIONAL TO FRACTIONAL

Size	Size	Basic ordering Information	Dimensions, in.	
			E	H
1/4	1/8	-RPCN-04-02O2	0.08	0.90
3/8	1/8	-RPCN-06-02O2	0.08	0.92
	1/4	-RPCN-06-04O2	0.17	1.00
1/2	1/4	-RPCN-08-04O2	0.17	1.17
	3/8	-RPCN-08-06O2	0.27	1.21
3/4	1/2	-RPCN-12-08O2	0.37	1.49
1	1/2	-RPCN-16-08O2	0.37	1.69
	3/4	-RPCN-16-12O2	0.58	1.72

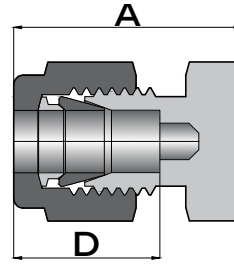
Plugs



FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information
1/8	-PRCN-02
1/4	-PRCN-04
3/8	-PRCN-06
1/2	-PRCN-08
3/4	-PRCN-12
1	-PRCN-16

Caps



FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.	
		A	D
1/8	-TUCP-02	0.79	0.50
1/4	-TUCP-04	0.92	0.60
3/8	-TUCP-06	1.01	0.66
1/2	-TUCP-08	1.21	0.90
3/4	-TUCP-12	1.27	0.96
1	-TUCP-16	1.61	1.23

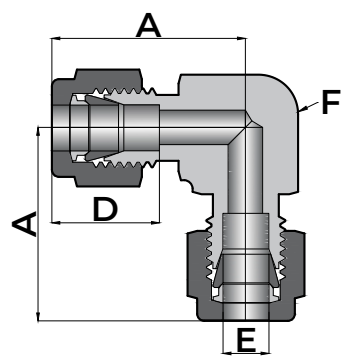
METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm	
		A	D
2	-TUCP-A2	20.1	12.9
4	-TUCP-A4	21.3	13.7
6	-TUCP-A6	23.1	15.3
8	-TUCP-A8	24.5	16.2
10	-TUCP-B0	26.6	17.2
12	-TUCP-B2	30.6	22.8
14	-TUCP-B4	31.4	24.4
16	-TUCP-B6	31.4	24.4
18	-TUCP-B8	32.2	24.4
20	-TUCP-C0	34.8	26.0
25	-TUCP-C5	41.0	31.3

METRIC TO METRIC

Size	Basic ordering Information	Size	Basic ordering Information
2	-PRCN-A2	12	-PRCN-B2
4	-PRCN-A4	14	-PRCN-B4
6	-PRCN-A6	16	-PRCN-B6
8	-PRCN-A8	18	-PRCN-B8
10	-PRCN-B0	20	-PRCN-C0
		25	-PRCN-C5

Union Elbow



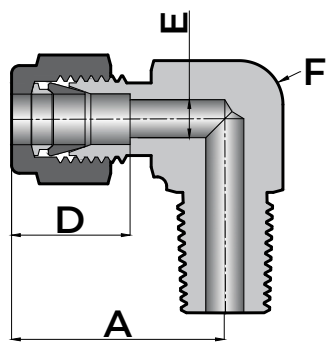
FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.			F(mm.)
		A	D	E	
1/8	-UNEL-02O1-02O1	0.88	0.50	0.09	12
1/4	-UNEL-04O1-04O1	1.06	0.60	0.19	16
3/8	-UNEL-06O1-06O1	1.20	0.66	0.28	16
1/2	-UNEL-08O1-08O1	1.42	0.90	0.41	20
3/4	-UNEL-12O1-12O1	1.57	0.96	0.62	28
1	-UNEL-16O1-16O1	1.93	1.23	0.88	36

METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm			
		A	D	E	F
4	-UNEL-A4O1-A4O1	25.4	13.7	2.4	12
6	-UNEL-A6O1-A6O1	27.0	15.3	4.8	16
8	-UNEL-A8O1-A8O1	28.8	16.2	6.4	16
10	-UNEL-B0O1-B0O1	31.5	17.2	7.9	19
12	-UNEL-B2O1-B2O1	36.0	22.8	9.5	22
14	-UNEL-B4O1-B4O1	38.0	24.4	11.1	24
16	-UNEL-B6O1-B6O1	38.0	24.4	12.7	24
18	-UNEL-B8O1-B8O1	39.8	24.4	15.1	28
20	-UNEL-C0O1-C0O1	44.6	26.0	15.9	30
25	-UNEL-C5O1-C5O1	49.1	31.3	21.8	36

Male Elbow



FRACTIONAL TO FRACTIONAL

NPT

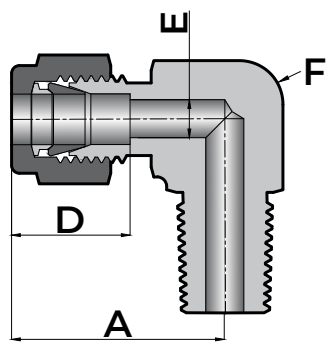
Size	Size	Basic ordering Information	Dimensions, in.			F (mm.)
			A	D	E	
1/8	1/8	-MELB-02O1-02O1	1.40	0.50	0.09	12
	1/4	-MELB-02O1-04O1	1.40			
1/4	1/8	-MELB-04O1-02O1	1.29	0.60	0.19	16
	1/4	-MELB-04O1-04O1	1.49			
	3/8	-MELB-04O1-06O1	1.51			
	1/2	-MELB-04O1-08O1	1.76			22
3/8	1/8	-MELB-06O1-02O1	1.39	0.66	0.28	16
	1/4	-MELB-06O1-04O1	1.57			
	3/8	-MELB-06O1-06O1	1.57			19
	1/2	-MELB-08O1-08O1	1.82			22
	3/4	-MELB-12O1-12O1	1.88			28
1/2	1/4	-MELB-08O1-04O1	1.71	0.66	0.28	19
	3/8	-MELB-08O1-06O1	1.71		0.38	19
	1/2	-MELB-08O1-08O1	1.93		0.41	22
	3/4	-MELB-12O1-12O1	1.99		0.41	28
3/4	1/2	-MELB-12O1-08O1	1.99	0.96	0.62	28
	3/4	-MELB-12O1-12O1	1.99		0.62	28
1	3/4	-MELB-16O1-12O1	2.26	1.23	0.62	36
	1	-MELB-16O1-16O1	2.45		0.88	36

METRIC TO METRIC

NPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
4	1/8	-MELB-A4O1-02O1	25.4	13.7	2.4	12
	1/4	-MELB-A4O1-04O1				16
6	1/8	-MELB-A6O1-02O1	27.0	15.3	4.8	12
	1/4	-MELB-A6O1-04O1	27.0			16
	3/8	-MELB-A6O1-06O1	29.8			17
	1/2	-MELB-A6O1-08O1	31.8			22
8	1/8	-MELB-A8O1-02O1	28.8	16.2	4.8	16
	1/4	-MELB-A8O1-04O1	28.8			16
	3/8	-MELB-A8O1-06O1	30.6		6.4	17
	1/2	-MELB-A8O1-08O1	32.6			22
10	1/8	-MELB-B0O1-02O1	31.5	17.2	4.8	16
	1/4	-MELB-B0O1-04O1			7.1	19
	3/8	-MELB-B0O1-06O1			7.9	19
	1/2	-MELB-B0O1-08O1				22
12	1/4	-MELB-B2O1-04O1	36.0	22.8	7.1	24
	3/8	-MELB-B2O1-06O1			9.5	24
	1/2	-MELB-B2O1-08O1				24
	3/4	-MELB-B2O1-12O1				28
16	3/8	-MELB-B6O1-06O1	38.0	24.4	9.5	28
	1/2	-MELB-B6O1-08O1			11.9	28
	3/4	-MELB-B6O1-12O1			12.7	30
18	1/2	-MELB-B8O1-08O1	39.8	24.4	11.9	30
	3/4	-MELB-B8O1-12O1			15.1	30
20	1/2	-MELB-C0O1-08O1	44.6	26.0	11.9	30
	3/4	-MELB-C0O1-12O1			15.9	30
25	3/4	-MELB-C5O1-12O1	49.1	31.3	15.9	36
	1	-MELB-C5O1-16O1			21.8	36

Male Elbow



FRACTIONAL TO FRACTIONAL

BSPT

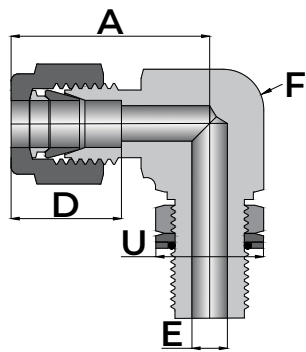
Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-MELB-02O1-02R1	1.40	0.50	0.09	12
	1/4	-MELB-02O1-04R1	1.40			
1/4	1/8	-MELB-04O1-02R1	1.29	0.60	0.19	16
	1/4	-MELB-04O1-04R1	1.49			
	3/8	-MELB-04O1-06R1	1.51			
	1/2	-MELB-04O1-08R1	1.76			22
3/8	1/8	-MELB-06O1-02R1	1.39	0.66	0.28	16
	1/4	-MELB-06O1-04R1	1.57			
	3/8	-MELB-06O1-06R1	1.57			19
	1/2	-MELB-06O1-08R1	1.82			22
	3/4	-MELB-06O1-12R1	1.88			28
1/2	1/4	-MELB-08O1-04R1	1.71	0.66	0.28	19
	3/8	-MELB-08O1-06R1	1.71		0.38	19
	1/2	-MELB-08O1-08R1	1.93		0.41	22
	3/4	-MELB-08O1-12R1	1.99		0.41	28
3/4	1/2	-MELB-12O1-08R1	1.99	0.96	0.62	28
	3/4	-MELB-12O1-12R1	1.99		0.62	28
1	3/4	-MELB-16O1-12R1	2.26	1.23	0.62	36
	1	-MELB-16O1-16R1	2.45		0.88	36

METRIC TO METRIC

BSPT

Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
4	1/8	-MELB-A4O1-02R1	25.4	13.7	2.4	12
	1/4	-MELB-A4O1-04R1				16
6	1/8	-MELB-A6O1-02R1	27.0	15.3	4.8	12
	1/4	-MELB-A6O1-04R1	27.0			16
	3/8	-MELB-A6O1-06R1	29.8			17
	1/2	-MELB-A6O1-08R1	31.8			22
8	1/8	-MELB-A8O1-02R1	28.8	16.2	4.8	16
	1/4	-MELB-A8O1-04R1	28.8		6.4	16
	3/8	-MELB-A8O1-06R1	30.6			17
	1/2	-MELB-A8O1-08R1	32.6			22
10	1/8	-MELB-B0O1-02R1	31.5	17.2	4.8	16
	1/4	-MELB-B0O1-04R1			7.1	19
	3/8	-MELB-B0O1-06R1			7.9	19
	1/2	-MELB-B0O1-08R1				22
12	1/4	-MELB-B2O1-04R1	36.0	22.8	7.1	24
	3/8	-MELB-B2O1-06R1			9.5	24
	1/2	-MELB-B2O1-08R1				24
	3/4	-MELB-B2O1-12R1				28
16	3/8	-MELB-B6O1-06O1	38.0	24.4	9.5	28
	1/2	-MELB-B6O1-08O1			11.9	28
	3/4	-MELB-B6O1-12O1			12.7	30
18	1/2	-MELB-B8O1-08O1	39.8	24.4	11.9	30
	3/4	-MELB-B8O1-12O1			15.1	30
20	1/2	-MELB-C0O1-08O1	44.6	26.0	11.9	30
	3/4	-MELB-C0O1-12O1			15.9	30
25	3/4	-MELB-C5O1-12O1	49.1	31.3	15.9	36
	1	-MELB-C5O1-16O1			21.8	36

Positonal Male Elbow



FRACTIONAL TO FRACTIONAL

BSPP

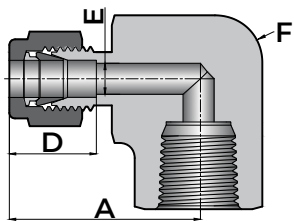
Size	Size	Basic ordering Information	Dimensions, in.					
			A	D	E	F	Fx	U
1/4	1/8	-PMEL-04O1-02G5	1.06	0.60	0.16	12	9/16	0.60
	1/4	-PMEL-04O1-04G5	1.14		0.19	16	3/4	0.80
3/8	1/4	-PMEL-06O1-04G5	1.20	0.66	0.23	16	3/4	0.80
	3/8	-PMEL-06O1-06G5	1.31		0.28	19	7/8	0.96
1/2	1/4	-PMEL-08O1-04G5	1.42	0.90	0.23	20	3/4	0.80
	3/8	-PMEL-06O1-06G5	1.42		0.31	20	7/8	0.96
	1/2	-PMEL-08O1-08G5	1.50		0.41	22	1 1/16	1.16
3/4	1/2	-PMEL-08O1-08G5	1.57	0.96	0.47	28	1 1/16	1.16
	3/4	-PMEL-12O1-12G5			0.62	28	1 3/8	1.43
1	3/4	-PMEL-16O1-12G5	1.93	1.23	0.62	36	1 3/8	1.43
	1	-PMEL-16O1-16G5			0.78	36	1 5/8	1.82

METRIC TO METRIC

BSPP

Size	Size	Basic ordering Information	Dimensions, mm					
			A	D	E	F	Fx	U
6	1/8	-PMEL-A6O1-02G5	27.0	15.3	4.0	12	9/16	15.2
	1/4	-PMEL-A6O1-04G5	29.0		4.8	16	3/4	20.3
8	1/8	-PMEL-A8O1-02G5	28.8	16.2	4.0	16	9/16	15.2
	1/4	-PMEL-A8O1-04G5	29.9		5.9	19	3/4	20.3
10	1/4	-PMEL-B0O1-04G5	33.5	17.2	5.9	20	3/4	20.3
	3/8	-PMEL-B0O1-06G5			7.9	20	7/8	24.4
12	1/4	-PMEL-B2O1-04G5	36.0	22.8	5.9	20	3/4	20.3
	3/8	-PMEL-B2O1-06G5			7.9	20	7/8	24.4
	1/2	-PMEL-B2O1-08G5	38.0		9.5	20	1 1/16	29.5
	3/4	-PMEL-B2O1-12G5	39.8		9.5	28	1 3/8	36.3

Female Elbow



METRIC TO METRIC

NPT

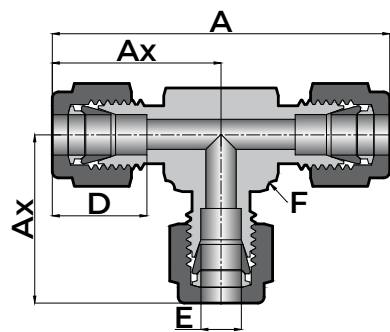
Size	Size	Basic ordering Information	Dimensions, mm			
			A	D	E	F
6	1/8	-FELB-A6O1-02N2	27.0	15.3	4.8	12
	1/4	-FELB-A6O1-04N2	29.0			19
	1/2	-FELB-A6O1-08N2	34.6			28
8	1/4	-FELB-08O1-04N2	30.6	16.2	4.0	19
10	1/4	-FELB-08O1-04N2	31.5	17.2	7.9	19
	3/8	-FELB-08O1-06N2	33.5			19
12	1/4	-FELB-08O1-04N2	36.0	22.8	9.5	22
	1/2	-FELB-08O1-08N2	38.8			28
16	1/2	-FELB-08O1-18N2	39.5	24.4	12.7	28

FRACTIONAL TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, in.			
			A	D	E	F
1/8	1/8	-FELB-08O1-02N2	0.97	0.50	0.09	12
	1/4	-FELB-08O1-04N2	1.08			16
1/4	1/8	-FELB-04O1-02N2	1.06	0.60	0.19	12
	1/4	-FELB-04O1-02N2	1.17			19
	3/8	-FELB-04O1-02N2	1.25			22
	1/2	-FELB-04O1-02N2	1.36			28
3/8	1/8	-FELB-06O1-02N2	1.20	0.66	0.28	16
	1/4	-FELB-06O1-02N2	1.23			19
	3/8	-FELB-06O1-02N2	1.31			22
	1/2	-FELB-06O1-02N2	1.42			28
1/2	1/4	-FELB-08O1-02N2	1.17	0.90	0.41	22
	3/8	-FELB-08O1-02N2	1.25			22
3/4	1/2	-FELB-08O1-02N2	1.36	0.96	0.62	28
	3/4	-FELB-12O1-02N2	1.76			36
1	3/4	-FELB-16O1-02N2	1.93	1.23	0.88	36
	1	-FELB-16O1-02N2	2.11			46

Union Tee



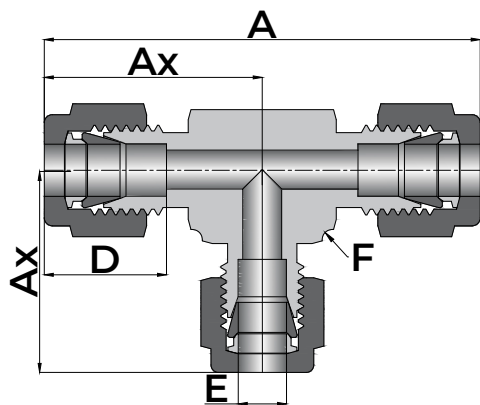
FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.				
		A	Ax	D	E	F
1/8	-UNTE-02O1 -02O1 -02O1	1.76	0.88	0.50	0.09	12
1/4	-UNTE-04O1 -04O1 -04O1	2.12	1.06	0.60	0.19	12
3/8	-UNTE-06O1 -06O1 -06O1	2.40	1.20	0.66	0.28	16
1/2	-UNTE-08O1 -08O1 -08O1	2.84	0.90	0.90	0.41	20
3/4	-UNTE-12O1 -12O1 -12O1	3.14	1.57	0.96	0.62	28
1	-UNTE-16O1 -16O1 -16O1	3.86	1.93	1.23	0.88	42

METRIC TO METRIC

Size	Basic ordering Information	Dimensions, mm				
		A	Ax	D	E	F
2	-UNTE-A2O1 -A2O1 -A2O1	44.7	22.3	12.9	1.7	12
4	-UNTE-A4O1 -A4O1 -A4O1	50.8	25.4	13.7	2.4	12
6	-UNTE-A6O1 -A6O1 -A6O1	53.9	27.0	15.3	4.8	16
8	-UNTE-A8O1 -A8O1 -A8O1	59.7	29.9	16.2	6.4	16
10	-UNTE-B0O1 -B0O1 -B0O1	63.0	31.5	17.2	7.9	19
12	-UNTE-B2O1 -B2O1 -B2O1	72.0	36.0	22.8	9.5	22
14	-UNTE-B4O1 -B4O1 -B4O1	77.6	38.8	24.4	11.1	24
16	-UNTE-B6O1 -B6O1 -B6O1	77.6	38.8	24.4	12.7	24
18	-UNTE-B8O1 -B8O1 -B8O1	79.6	39.8	24.4	15.1	28
20	-UNTE-C0O1 -C0O1 -C0O1	89.3	44.6	26.0	15.9	30
25	-UNTE-C5O1 -C5O1 -C5O1	98.3	49.1	31.3	21.8	30

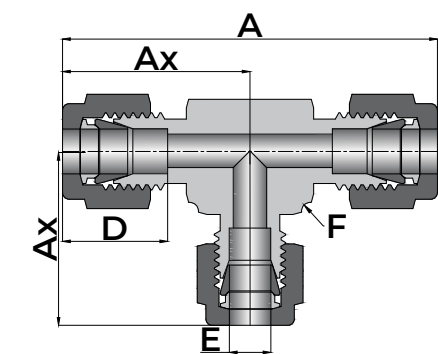
Reducing Union Tee



FRACTIONAL TO FRACTIONAL

Size	Size	Basic ordering Information	Dimensions, in.					
			A	Ax	D	Dx	E	F
3/8	1/4	-RBUT-06O1-04O1	2.40	1.14	0.66	0.60	0.19	16
1/2	1/4	-RBUT-08O1-04O1	2.84	1.25	0.90	0.60	0.19	20
	3/8	-RBUT-08O1-06O1		1.31		0.66	0.28	
3/4	3/8	-RBUT-12O1-06O1	3.14	1.46	0.96	0.66	0.28	28
	1/2	-RBUT-12O1-08O1		1.57		0.90	0.41	28
1	3/8	-RBUT-16O1-06O1	3.86	1.65	1.23	0.66	0.28	36
	1/2	-RBUT-16O1-08O1		1.76		0.90	0.41	36
	3/4	-RBUT-16O1-06O1		1.76		0.96	0.62	36

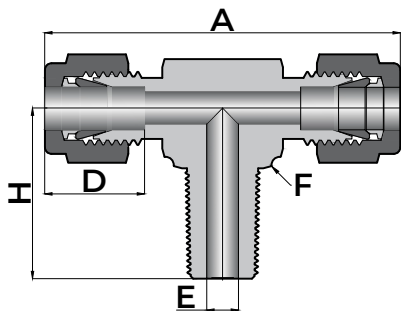
Reducing Union Tee



METRIC TO METRIC

Size		Basic ordering Information	Dimensions, mm					
			A	Ax	D	Dx	E	F
8	6	-RBUT-A8O1-A6O1	49.3	29.0	16.2	15.3	4.8	16
10		-RBUT-B0O1-A6O1	59.9	29.7	17.2	15.3		19
12		-RBUT-B2O1-A6O1	63.0	31.8	22.8	15.3		22
16	12	-RBUT-B6O1-B2O1	77.6	38.9	24.4	22.8	9.5	24
18		-RBUT-B8O1-B2O1	79.8	39.9	24.4	22.8		28
25		-RBUT-C5O1-B2O1	98.0	44.7	31.3	22.8		30

Branch Male Tee



FRACTIONAL TO FRACTIONAL

NPT

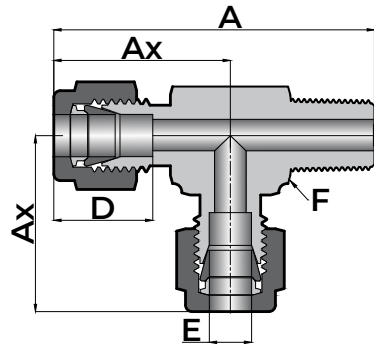
Size	Size	Basic ordering Information	Dimensions, in.				
			A	D	E	F	H
1/8	1/8	-MBRT-02O1-02O1-02N1	1.86	0.50	0.09	12	0.70
	1/4	-MBRT-02O1-02O1-04N1	1.94			16	0.92
1/4	1/8	-MBRT-04O1-04O1-02N1	2.12	0.60	0.19	12	0.74
	1/4	-MBRT-04O1-04O1-04N1				16	0.92
3/8	1/4	-MBRT-06O1-06O1-04N1	2.40	0.66	0.28	16	1.00
	3/8	-MBRT-06O1-06O1-06N1	2.62			17	1.11
1/2	3/8	-MBRT-08O1-08O1-06N1	2.82	0.90	0.38	20	1.11
	1/2	-MBRT-08O1-08O1-08N1			0.41	22	1.30
3/4	3/4	-MBRT-12O1-12O1-12N1	3.14	0.96	0.62	40	1.45

METRIC TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, mm				
			A	D	E	F	H
6	1/8	-MBRT-A6O1-A6O1-02N1	53.9	15.3	4.8	12	18.8
	1/4	-MBRT-A6O1-A6O1-04N1				12	23.4
8	1/8	-MBRT-A8O1-A8O1-02N1	59.7	16.2	4.8	16	20.8
	1/4	-MBRT-A8O1-A8O1-04N1			6.4	16	25.4
10	1/4	-MBRT-B0O1-B0O1-04N1	67.0	17.2	7.1	19	26.2
12	1/4	-MBRT-B2O1-B2O1-04N1	72.0	22.8	7.1	22	28.2
	3/8	-MBRT-B2O1-B2O1-06N1			9.5	22	
	1/2	-MBRT-B2O1-B2O1-08N1				22	33.0
16	1/2	-MBRT-B6O1-B6O1-08N1	77.6	24.4	11.9	24	35.8

Male Run Tee



FRACTIONAL TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, in.				
			A	Ax	D	E	F
1/8	1/8	-MRTE-02O1-02N1-02O1	1.63	0.93	0.50	0.09	12
	1/4	-MRTE-02O1-04N1-02O1	1.89	0.97			16
1/4	1/8	-MRTE-04O1-02N1-04O1	1.80	1.06	0.60	0.19	12
	1/4	-MRTE-04O1-04N1-04O1	1.98				16
3/8	1/4	-MRTE-06O1-04N1-06O1	2.20	1.20	0.66	0.28	16
	3/8	-MRTE-06O1-06N1-06O1	2.42	1.31			17
1/2	3/8	-MRTE-08O1-06N1-08O1	2.53	1.42	0.90	0.38	20
	1/2	-MRTE-08O1-08N1-08O1	2.72			0.41	22
3/4	3/4	-MRTE-12O1-12N1-12O1	3.02	1.57	0.96	0.62	28

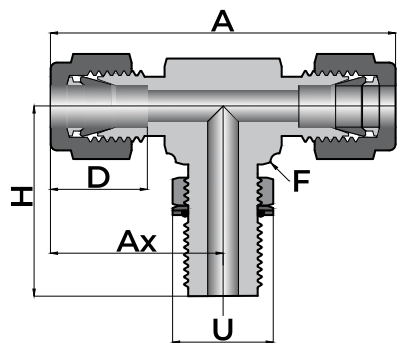
METRIC TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, mm				
			A	Ax	D	E	F
6	1/8	-MRTE-A6O1-02N1-A6O1	45.8	27.0	15.3	4.8	12
	1/4	-MRTE-A6O1-04N1-A6O1	50.3				16
8	1/8	-MRTE-A8O1-02N1-A8O1	55.3	29.9	16.2	6.4	16
12	1/4	-MRTE-B2O1-04N1-B2O1	64.2	36.0	22.8	7.1	12
	1/2	-MRTE-B2O1-08N1-B2O1	69.0			9.5	12
16	1/2	-MRTE-B6O1-08N1-B6O1	73.1	38.0	24.4	11.9	16

Positional Branch Tee

FRACTIONAL TO FRACTIONAL BSPP(RG)



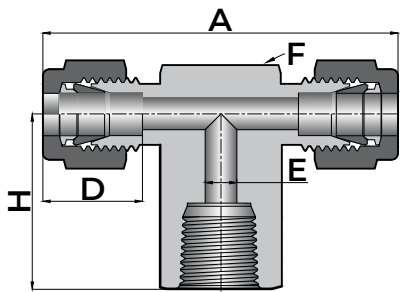
METRIC TO FRACTIONAL BSPP(RG)

Size	Size	Basic ordering Information	Dimensions, mm							
			A	Ax	D	E	F	Fx	H	U
1/4	1/8	-PMBT-04O1-04O1-02N1	2.12	1.06	0.60	0.16	12	9/16	1.04	0.60
	1/4	-PMBT-04O1-04O1-04N1	2.28	1.14		0.19	12	3/4	1.27	0.80
3/8	1/4	-PMBT-06O1-06O1-04N1	2.40	1.20	0.66	0.23	16	3/4	1.27	0.80
1/2	3/8	-PMBT-08O1-08O1-06N1	2.84	1.42	0.90	0.31	20	7/8	1.46	0.96
	1/2	-PMBT-08O1-08O1-08N1	3.00	1.50		0.41	22	1 1/16	1.71	1.16
3/4	3/8	-PMBT-12O1-12O1-12N1	3.14	1.57	0.96	0.62	24	1 1/16	1.92	1.43
	1/2	-PMBT-12O1-12O1-08N1	3.14			0.47	26		1.78	1.16
1	1	-PMBT-16O1-16O1-16N1	3.86	1.93	1.23	0.78	28	1 5/8	2.11	1.92

Branch Female Tee

FRACTIONAL TO FRACTIONAL

NPT



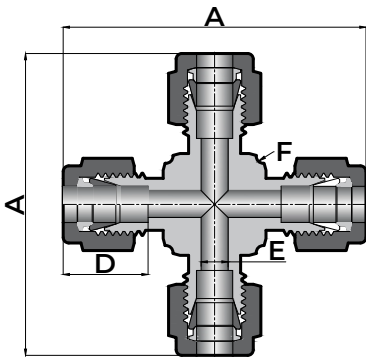
Size	Size	Basic ordering Information	Dimensions, in.				
			A	D	E	F	H
1/8	1/8	-FBRT-02O1-02O1-02N1	1.94	0.50	0.09	9/16	0.75
1/4	1/8	-FBRT-04O1-04O1-02N1	2.12	0.60	0.19	9/16	0.75
	1/4	-FBRT-04O1-04O1-04N1	2.34			9/16	0.88
3/8	1/4	-FBRT-06O1-06O1-04N1	2.46	0.66	0.28	3/4	0.88
	3/8	-FBRT-06O1-06O1-06N1	2.62			3/4	0.88
	1/2	-FBRT-06O1-06O1-08N1	2.84			3/4	1.12
1/2	1/4	-FBRT-08O1-08O1-04N1	2.84	0.90	0.41	7/8	0.88
	3/8	-FBRT-08O1-08O1-06N1	2.84			1 1/16	0.88
	1/2	-FBRT-08O1-08O1-08N1	3.06			1 1/16	1.12
3/4	3/4	-FBRT-12O1-12O1-12N1	3.52	0.96	0.62	1 1/16	1.25
1	3/4	-FBRT-16O1-16O1-12N1	3.86	1.23	0.88	1 5/8	1.25
	1	-FBRT-16O1-16O1-16N1	4.22			1 5/8	1.50

METRIC TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, mm				
			A	D	E	F	H
6	1/8	-FBRT-A6O1-A6O1-02N1	53.9	15.3	4.8	12	19.0
	1/4	-FBRT-A6O1-A6O1-02N1	59.5			12	22.4
8	1/8	-FBRT-A8O1-A8O1-02N1	59.7	16.2	6.4	12	19.0
	1/4	-FBRT-A8O1-A8O1-02N1	61.2			12	22.4
10	1/4	-FBRT-B0O1-B0O1-02N1	67.0	17.2	7.9	12	22.4
12	1/4	-FBRT-B2O1-B2O1-02N1	72.0	22.8	9.5	16	22.4
	3/8	-FBRT-B2O1-B2O1-02N1	72.0			16	22.4
	1/2	-FBRT-B2O1-B2O1-02N1	77.7			20	28.4
16	1/2	-FBRT-02O1-02O1-02N1	77.6	24.4	12.7	22	28.4

Union Cross

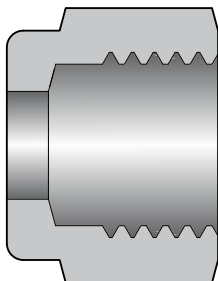


FRACTIONAL TO FRACTIONAL

Size	Basic ordering Information	Dimensions, in.			
		A	D	E	F
1/8	-UNCR--04O1 --04O1 --04O1 --04O1	1.40	0.50	0.09	12
1/4	-UNCR--04O1 --04O1 --04O1 --04O1	1.61	0.60	0.19	16
3/8	-UNCR--04O1 --04O1 --04O1 --04O1	1.77	0.66	0.28	16
1/2	-UNCR--04O1 --04O1 --04O1 --04O1	2.02	0.90	0.41	20
3/4	-UNCR--04O1 --04O1 --04O1 --04O1	2.11	0.96	0.62	28
1	-UNCR--04O1 --04O1 --04O1 --04O1	2.55	1.23	0.88	36

Replacement Parts

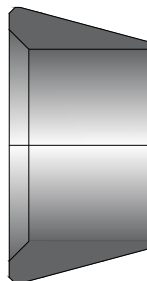
Nuts



Size	Basic ordering Information
1/8	-FN-02O1
1/4	-FN-04O1
3/8	-FN-06O1
1/2	-FN-08O1
3/4	-FN-12O1
1	-FN-16O1

Size	Basic ordering Information
2	-FN-A2O1
4	-FN-A4O1
6	-FN-A6O1
8	-FN-A8O1
10	-FN-B0O1
12	-FN-B2O1
14	-FN-B4O1
16	-FN-B6O1
18	-FN-B8O1
20	-FN-C0O1
25	-FN-C5O1

Front Ferrule



Size	Basic ordering Information
1/8	-FF-02O1
1/4	-FF-04O1
3/8	-FF-06O1
1/2	-FF-08O1
3/4	-FF-12O1
1	-FF-16O1

Size	Basic ordering Information
2	-FN-A2O1
4	-FN-A4O1
6	-FN-A6O1
8	-FN-A8O1
10	-FN-B0O1
12	-FN-B2O1
14	-FN-B4O1
16	-FN-B6O1
18	-FN-B8O1
20	-FN-C0O1
25	-FN-C5O1

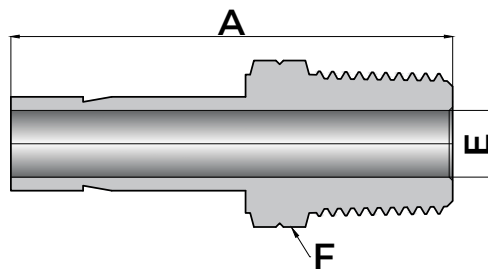
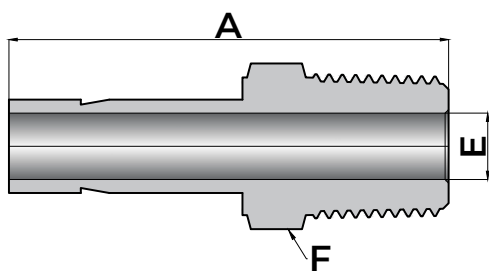
Back Ferrule



Size	Basic ordering Information
1/8	-BF-02O1
1/4	-BF-04O1
3/8	-BF-06O1
1/2	-BF-08O1
3/4	-BF-12O1
1	-BF-16O1

Size	Basic ordering Information
2	-FN-A2O1
4	-FN-A4O1
6	-FN-A6O1
8	-FN-A8O1
10	-FN-B0O1
12	-FN-B2O1
14	-FN-B4O1
16	-FN-B6O1
18	-FN-B8O1
20	-FN-C0O1
25	-FN-C5O1

Tube Adaptor



FRACTIONAL TO FRACTIONAL **NPT**

Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/8	1/8	-MTAD-02O2-02N1	1.16	0.08	9/16
	1/4	-MTAD-02O2-04N1	1.37		3/4
1/4	1/8	-MTAD-04O2-02N1	1.25	0.17	9/16
	1/4	-MTAD-04O2-04N1	1.46		3/4
	3/8	-MTAD-04O2-06N1	1.49		7/8
	1/2	-MTAD-04O2-08N1	1.71		1 1/16
3/8	1/8	-MTAD-06O2-02N1	1.32	0.19	5/8
	1/4	-MTAD-06O2-04N1	1.53		3/4
	3/8	-MTAD-06O2-06N1	1.56		7/8
	1/2	-MTAD-06O2-08N1	1.78		1 1/16
1/2	1/4	-MTAD-08O2-04N1	1.75	0.28	13/16
	3/8	-MTAD-08O2-06N1	1.78		7/8
	1/2	-MTAD-08O2-08N1	2.00		1 1/16
3/4	1/2	-MTAD-12O2-08N1	2.06	0.47	1 1/16
	3/4	-MTAD-12O2-12N1		0.58	1 5/16
1	3/4	-MTAD-16O2-12N1	2.31	0.62	1 3/8
	1	-MTAD-16O2-16N1	2.60	0.80	1 5/8

METRIC TO FRACTIONAL **NPT**

Size	Size	Basic ordering Information	Dimensions, mm		
			A	E	F
6	1/8	-MTAD-A6O1-02R1	32.8	4.1	14
	1/4	-MTAD-A6O1-04R1	38.1		14
8	1/4	-MTAD-A8O1-04R1	39.1	5.6	15
	3/8	-MTAD-A8O1-06R1	39.9		18
10	1/4	-MTAD-B0O1-04R1	39.9	7.1	18
	3/8	-MTAD-B0O1-06R1	40.6		18
	1/2	-MTAD-B0O1-08R1	46.2		22
12	1/4	-MTAD-B2O1-04R1	46.5	7.1	22
	1/2	-MTAD-B2O1-08R1	52.1	8.8	22

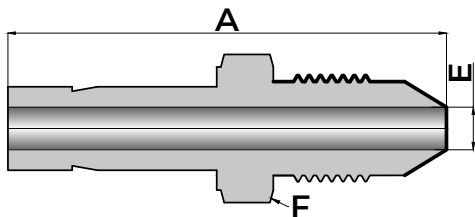
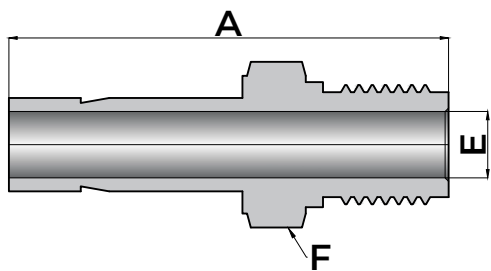
FRACTIONAL TO FRACTIONAL **BSPT**

Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/8	1/8	-MTAD-02O2-02N1	1.16	0.08	9/16
	1/4	-MTAD-02O2-04N1	1.37		3/4
1/4	1/8	-MTAD-04O2-02N1	1.25	0.17	9/16
	1/4	-MTAD-04O2-04N1	1.46		3/4
3/8	1/4	-MTAD-06O2-04N1	1.32	0.19	3/4
	3/8	-MTAD-06O2-06N1	1.53		7/8
	1/2	-MTAD-06O2-08N1	1.56		1 1/16
1/2	1/4	-MTAD-08O2-04N1	1.75	0.28	13/16
	3/8	-MTAD-08O2-06N1	1.78		7/8
	1/2	-MTAD-08O2-08N1	2.00		1 1/16
3/4	3/4	-MTAD-12O2-12N1	2.06	0.47	1 5/16
1	1	-MTAD-16O2-16N1	2.31	0.62	1 5/8

METRIC TO FRACTIONAL **BSPT**

Size	Size	Basic ordering Information	Dimensions, mm		
			A	E	F
6	1/8	-MTAD-A6O1-02R1	32.8	4.1	14
	1/4	-MTAD-A6O1-04R1	38.1		14
8	1/4	-MTAD-A8O1-04R1	39.1	5.6	15
10	1/4	-MTAD-B0O1-04R1	39.9	7.1	18
	3/8	-MTAD-B0O1-06R1	40.6		18
12	1/4	-MTAD-B2O1-04R1	46.5	7.1	22
	3/8	-MTAD-B2O1-06R1	46.2	8.8	22
	1/2	-MTAD-B2O1-08R1	51.8	8.8	22

Tube Adaptor



FRACTIONAL TO FRACTIONAL

BSPP(RP)

Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/8	1/8	-MTAD-02O2-02G2	1.16	0.08	9/16
	1/4	-MTAD-02O2-04G2	1.37		3/4
1/4	1/8	-MTAD-04O2-02G2	1.25	0.17	9/16
	1/4	-MTAD-04O2-04G2	1.46		3/4
3/8	1/4	-MTAD-06O2-04G2	1.32	0.19	3/4
	3/8	-MTAD-06O2-06G2	1.53	0.27	7/8
1/2	1/4	-MTAD-08O2-04G2	1.75	0.37	13/16
	3/8	-MTAD-08O2-06G2	1.78		7/8
	1/2	-MTAD-08O2-08G2	2.00		1 1/16
3/4	3/4	-MTAD-12O2-12G2	2.06	0.47	1 5/16
1	1	-MTAD-16O2-16G2	2.31	0.62	1 5/8

FRACTIONAL TO FRACTIONAL

AN Thread

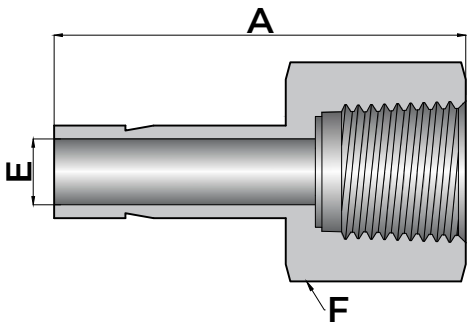
Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/4	1/4	-MTAD-04O2-04G7	1.46	0.17	9/16
3/8	1/4	-MTAD-06O2-04G7	1.53	0.17	3/4
	3/8	-MTAD-06O2-06G7	1.56	0.27	7/8
1/2	1/2	-MTAD-08O2-08G7	1.91	0.37	1 1/16
3/4	3/4	-MTAD-12O2-12G7	2.21	0.58	1 5/16
1	1	-MTAD-16O2-16G7	2.58	0.80	1 5/8

METRIC TO METRIC

BSPP(RP)

Size	Size	Basic ordering Information	Dimensions, mm		
			A	E	F
6	1/8	-MTAD-A6O2-02G2	34.3	4.0	14
	1/4	-MTAD-A6O2-04G2	38.9	4.1	14
8	1/4	-MTAD-A8O2-04G2	39.6	5.6	15
10	1/4	-MTAD-B0O2-04G2	40.4	5.9	18
	3/8	-MTAD-B0O2-06G2	41.1	7.1	18
	1/2	-MTAD-B0O2-08G2	43.2	7.1	22
12	1/4	-MTAD-B2O2-04G2	47.0	5.9	22
	3/8	-MTAD-B2O2-06G2	47.8	7.9	22
	1/2	-MTAD-B2O2-08G2	49.8	8.8	22

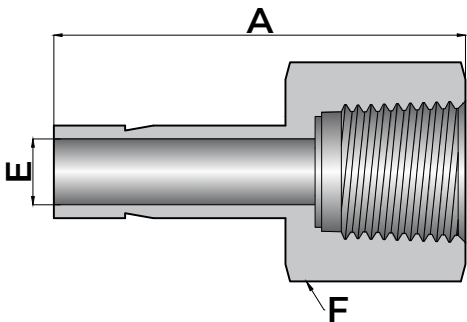
Tube Adaptor



FRACTIONAL TO FRACTIONAL

NPT

Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/8	1/8	-FTAD-02O2-02N2	1.24	0.08	7/16
	1/4	-FTAD-02O2-04N2	1.39		9/16
1/4	1/8	-FTAD-04O2-02N2	1.30	0.17	9/16
	1/4	-FTAD-04O2-04N2	1.46		3/4
	3/8	-FTAD-04O2-06N2	1.55		7/8
	1/2	-FTAD-04O2-08N2	1.79		1 1/16
3/8	1/4	-FTAD-06O2-04N2	1.35	0.27	3/4
	3/8	-FTAD-06O2-06N2	1.50		7/8
	1/2	-FTAD-06O2-08N2	1.59		1 1/16
	3/4	-FTAD-06O2-12N2	1.84		1 5/16
1/2	1/4	-FTAD-08O2-04N2	1.71	0.37	13/16
	3/8	-FTAD-08O2-06N2	1.79		7/8
	1/2	-FTAD-08O2-08N2	2.05		1 1/16
3/4	1/2	-FTAD-12O2-08N2	2.08	0.58	1 1/16
	3/4	-FTAD-12O2-12N2	2.16		1 5/16
	1	-FTAD-12O2-08N2	2.30		1 5/8
1	3/4	-FTAD-16O2-12N2	2.39	0.80	1 3/8
	1	-FTAD-16O2-16N2	2.53		1 5/8



FRACTIONAL TO FRACTIONAL

BSPT

Size	Size	Basic ordering Information	Dimensions, in.		
			A	E	F
1/4	1/8	-FTAD-04O2-02N2	1.30	0.17	9/16
	1/4	-FTAD-04O2-04N2	1.45		3/4
3/8	1/4	-FTAD-06O2-04N2	1.50	0.27	3/4
	3/8	-FTAD-06O2-06N2	1.59		7/8
1/2	1/4	-FTAD-08O2-04N2	1.71	0.37	13/16
	3/8	-FTAD-08O2-06N2	1.80		7/8
	1/2	-FTAD-08O2-08N2	2.05		1 1/16

Pipe Fittings



Ordering Information

XXXX(Process Connection)

Size	Type
02- 1/8"	N1- NPT Male
04- 1/4"	N2- NPT Female
06- 3/8"	R1- BSPT Male
08- 1/2"	R2- BSPT Female
12- 3/4"	G5- BSPP Male
16- 1"	GA- BSPP Female

(Additional ranges available upon request)

XX (MOC of fittings)

S6- SS316L	SD- Super Duplex
SH- SS316(Minimum 2.5 %Molybdenum)	N4- MONEL
SA- 6MO	N6-HASTELLOY
N1- Inconel 625	T1- TITANIUM(GRADE 4)
N2- Inconel 825	
SB- Duplex	

(Additional ranges available upon request)

E- Fittings

E

2

D0

: S6

: C

DNP

: 04N1

: 04N1

: 04N1

: 04N1

2- Pipe Fittings

XX (Pressure Rating)

D0 - 6,000 PSI

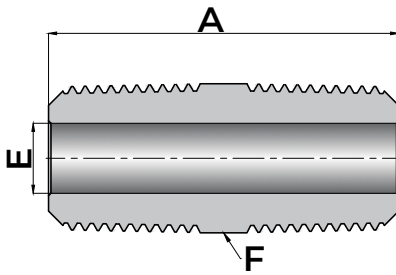
XXXX (Type of Pipe Fitting)

CDNP- Closed Nipple	SREL- Street Reducing Elbow
HXNP- Hexagonal Nipple	MPTE- Male Pipe Tee
HRNP- Hexagonal Reducing Nipple	FPTE- Female Pipe Tee
HLNP- Hexagonal Long Nipple	PFBT- Pipe Female Branch Tee
HXAD- Hexagonal Adaptor	PFRT- Pipe Female Run Tee
HRAD- Hexagonal Reducing Adaptor	PMCR- Pipe Male Cross
HXCP- Hexagonal Coupling	PFCR- Pipe Female Cross
HRCP- Hexagonal Reducing Coupling	PP- Pipe Plug
MPEL- Male Pipe Elbow	HHPG- Hollow Hexagonal Plug
FPEL- Female Pipe Elbow	PC- Pipe Cap
STEL- Street Elbow	

(Additional ranges available upon request)

Close Nipple (CDNP)

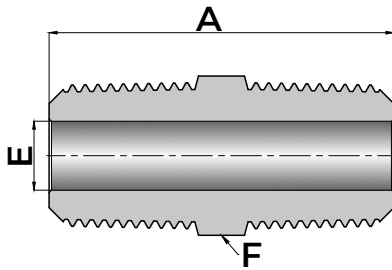
MALE NPT



Size	Basic ordering Information	Dimensions, in.(mm)		Pressure Rating, psig (bar)	
		A	E	SS 316L	Brass
1/8	-CDNP-02N1-02N1	0.75 (19.1)	0.19 (4.8)	10,000 (689)	5,000 (344)
1/4	-CDNP-04N1-04N1	1.12 (28.4)	0.28 (7.1)	8,000 (551)	4,000 (275)
3/8	-CDNP-06N1-06N1	1.12 (28.4)	0.38 (9.6)	7,800 (537)	3,900 (268)
1/2	-CDNP-08N1-08N1	1.50 (38.1)	0.47 (11.9)	7,700 (530)	3,800 (261)
3/4	-CDNP-12N1-12N1	1.50 (38.1)	0.62 (15.7)	7,300 (502)	3,600 (248)
1	-CDNP-16N1-16N1	1.88 (47.8)	0.88 (22.4)	5,300 (365)	2,600 (179)

Hex Nipples (HXNP)

MALE NPT



Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXNP-02N1-02N1	1.01 (25.6)	0.19 (4.8)	7/16	10,000 (689)	5,000 (344)
1/4	-HXNP-04N1-04N1	1.40 (35.6)	0.28 (7.1)	9/16	8,000 (551)	4,000 (275)
3/8	-HXNP-06N1-06N1	1.43 (36.3)	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	-HXNP-08N1-08N1	1.84 (46.7)	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)
3/4	-HXNP-12N1-12N1	1.84 (46.7)	0.62 (15.7)	1 1/16	7,300 (502)	3,600 (248)
1	-HXNP-16N1-16N1	2.32 (58.9)	0.88 (22.4)	1 3/8	5,300 (365)	2,600 (179)

MALE BSPT

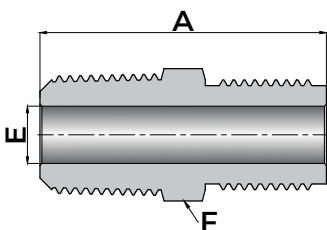
Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXNP-02R1-02R1	1.01 (25.6)	0.19 (4.8)	7/16	10,000 (689)	5,000 (344)
1/4	-HXNP-04R1-04R1	1.40 (35.6)	0.28 (7.1)	9/16	8,000 (551)	4,000 (275)
3/8	-HXNP-06R1-06R1	1.43 (36.3)	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	-HXNP-08R1-08R1	1.84 (46.7)	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)

MALE NPT TO MALE BSPT

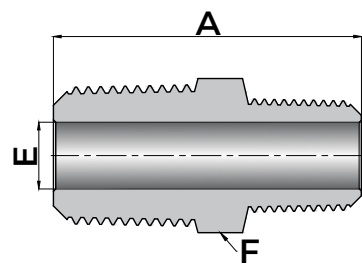
Size	Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
1/8	1/8	-HXNP-02N1-02R1	1.01 (25.6)	0.19 (4.8)	7/16	10,000 (689)	5,000 (344)
1/4	1/4	-HXNP-04N1-04R1	1.40 (35.6)	0.28 (7.1)	9/16	8,000 (551)	4,000 (275)
3/8	3/8	-HXNP-06N1-06R1	1.43 (36.3)	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	1/2	-HXNP-08N1-08R1	1.84 (46.7)	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)

MALE NPT TO MALE BSPP

Size	Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
1/8	1/8	-HXNP-02N1-02G5	1.09 (27.7)	0.28 (7.1)	9/16	11,400 (785)	5,700 (392)
1/4	1/4	-HXNP-04N1-04G5	1.45 (36.8)	0.44 (11.2)	3/4	10,300 (709)	5,100 (351)
3/8	3/8	-HXNP-06N1-06G5	1.48 (37.6)	0.44 (11.2)	7/8	10,300 (709)	5,100 (351)
1/2	1/2	-HXNP-08N1-08G5	1.75 (44.4)	0.56 (14.2)	1 1/16	7,600 (523)	3,800 (261)



Hex Reducing Nipple (HRNP)



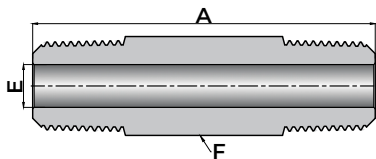
MALE NPT

Size		Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
1/4	1/8	-HRNP-04N1-02N1	1.22 (31.0)	0.19 (4.8)	9/16	11,000 (757)	5,500 (392)
3/8	1/8	-HRNP-06N1-02N1	1.25 (31.8)	0.19 (4.8)	11/16	10 000 (689)	5000 (344)
3/8	1/4	-HRNP-06N1-04N1	1.43 (36.3)	0.28 (7.1)	11/16	10 000 (689)	5000 (344)
1/2	1/8	-HRNP-08N1-02N1	1.47 (37.3)	0.19 (4.8)	7/8	8 000 (551)	4000 (275)
1/2	1/4	-HRNP-08N1-04N1	1.65 (41.9)	0.28 (7.1)	7/8	7 700 (530)	3800 (261)
1/2	3/8	-HRNP-08N1-06N1	1.65 (41.9)	0.38 (9.6)	7/8	8 000 (551)	4000 (275)
3/4	1/4	-HRNP-12N1-04N1	1.65 (41.9)	0.28 (7.1)	1 1/16	7 800 (537)	3900 (268)
3/4	1/2	-HRNP-12N1-08N1	1.84 (46.7)	0.47 (11.9)	1 1/16	8 000 (551)	4000 (275)

Male BSPT

Size		Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
3/8	1/4	-HRNP-06N1-04R1	1.43 (36.3)	0.28 (7.1)	11/16	7800 (537)	3900 (268)
1/2	1/8	-HRNP-08N1-02R1	1.47 (37.3)	0.19 (4.8)	7/8	7700 (530)	3800 (261)
1/2	3/8	-HRNP-08N1-06R1	1.65 (41.9)	0.28 (7.1)	7/8	7800 (537)	3900 (268)

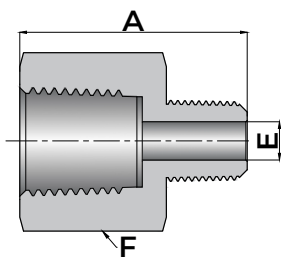
Hex Long Nipple (HLNP)



MALE NPT

Size	Basic ordering Information	A(Available Length) in.					Dimensions, in.(mm)		Pressure Rating, psig (bar)	
		1.5	2.0	2.5	3.0	4.0	E	F	SS 316L	Brass
1/8	-HLNP-02N1-02N1	◆	◆	◆	◆	-	0.28 (7.1)	7/16	10,000 (689)	5,000 (344)
1/4	-HLNP-04N1-04N1	◆	◆	◆	◆	-	0.28 (7.1)	9/16	8,000 (551)	4,000 (275)
3/8	-HLNP-06N1-06N1	◆	◆	◆	◆	-	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	-HLNP-08N1-08N1	-	◆	-	-	◆	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)

Adapter (HXAD)



Female to Male (NPT)

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXAD-02N2-02N1	1.10 (27.9)	0.28 (7.1)	7/16	6,500 (447)	3,200 (220)
1/4	-HXAD-04N2-04N1	1.40 (35.6)	0.28 (7.1)	9/16	6,600 (454)	3,300 (227)
3/8	-HXAD-06N2-06N1	1.51 (38.4)	0.38 (9.6)	11/16	5,300 (365)	2,600 (179)
1/2	-HXAD-08N2-08N1	1.94 (49.3)	0.47 (11.9)	7/8	4,900 (337)	2,400 (165)

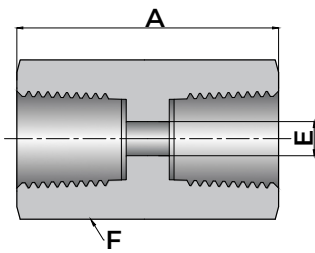
Female to Male (BSPT)

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXAD-02R2-02R1	1.10 (27.9)	0.28 (7.1)	7/16	6,500 (447)	3,200 (220)
1/4	-HXAD-04R2-04R1	1.40 (35.6)	0.28 (7.1)	9/16	6,600 (454)	3,300 (227)
3/8	-HXAD-06R2-06R1	1.51 (38.4)	0.38 (9.6)	11/16	5,300 (365)	2,600 (179)
1/2	-HXAD-08R2-08R1	1.94 (49.3)	0.47 (11.9)	7/8	4,900 (337)	2,400 (165)

Female to Male (BSPP)

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXAD-02G2-02G1	1.10 (27.9)	0.28 (7.1)	7/16	6,500 (447)	3,200 (220)
1/4	-HXAD-04G2-04G1	1.40 (35.6)	0.28 (7.1)	9/16	6,600 (454)	3,300 (227)
3/8	-HXAD-06G2-06G1	1.51 (38.4)	0.38 (9.6)	11/16	5,300 (365)	2,600 (179)
1/2	-HXAD-08G2-08G1	1.94 (49.3)	0.47 (11.9)	7/8	4,900 (337)	2,400 (165)

Hex Coupling (HXCP)



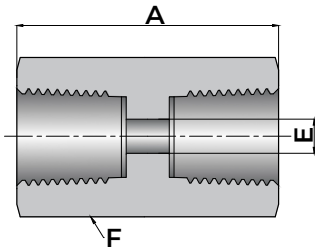
Female NPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXCP-02N2-02N2	0.81 (20.6)	0.34 (8.6)	9/16	6,500 (447)	3,200 (220)
1/4	-HXCP-04N2-04N2	1.19 (30.2)	0.45 (11.4)	3/4	6,600 (454)	3,300 (227)
3/8	-HXCP-06N2-06N2	1.31 (33.3)	0.59 (15.0)	7/8	5,300 (365)	2,600 (179)
1/2	-HXCP-08N2-08N2	1.56 (39.6)	0.73 (18.5)	1 1/16	4,900 (337)	2,400 (165)
3/4	-HXCP-12N2-12N2	1.62 (41.1)	0.94 (23.9)	1 5/16	4,600 (316)	2,300 (158)
1	-HXCP-16N2-16N2	2.00 (50.8)	1.17 (29.7)	1 5/8	4,400 (303)	2,200 (151)

Female BSPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		A	E	F	SS 316L	Brass
1/8	-HXCP-02R2-02R2	0.81 (20.6)	0.34 (8.6)	9/16	6,500 (447)	3,200 (220)
1/4	-HXCP-04R2-04R2	1.19 (30.2)	0.45 (11.4)	3/4	6,600 (454)	3,300 (227)
3/8	-HXCP-06R2-06R2	1.31 (33.3)	0.59 (15.0)	7/8	5,300 (365)	2,600 (179)
1/2	-HXCP-08R2-08R2	1.56 (39.6)	0.73 (18.5)	1 1/16	4,900 (337)	2,400 (165)

Hex Reducing Coupling (HRCP)



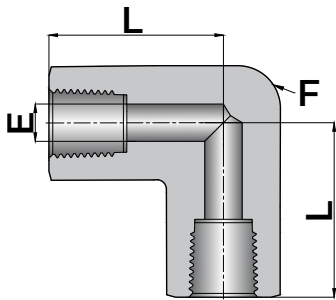
Female NPT

Size	Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
1/4	1/8	-HRCP-04N2-02N2	1.22 (31.0)	0.34 (8.6)	3/4	6,600 (454)	3,300 (227)
3/8	1/4	-HRCP-06N2-04N2	1.38 (35.1)	0.45 (11.4)	7/8	5,300 (365)	2,600 (179)
1/2	1/8	-HRCP-08N2-02N2	1.56 (39.6)	0.34 (8.6)	1 1/16	4,900 (337)	2,400 (165)
1/2	1/4	-HRCP-08N2-04N2	1.75 (44.4)	0.45 (11.4)	1 1/16	4,900 (337)	2,400 (165)
1/2	3/8	-HRCP-08N2-06N2	1.78 (45.2)	0.59 (15.0)	1 1/16	4,900 (337)	2,400 (165)
3/4	1/4	-HRCP-12N2-04N2	1.81 (46.0)	0.45 (11.4)	1 5/16	4,600 (316)	2,300 (158)
3/4	1/2	-HRCP-12N2-08N2	2.06 (52.3)	0.73 (18.5)	1 5/16	4,600 (316)	2,300 (158)
1	1/2	-HRCP-16N2-08N2	2.19 (55.6)	0.73 (18.5)	1 5/8	4,400 (303)	2,200 (151)
1	3/4	-HRCP-16N2-12N2	2.25 (57.2)	0.94 (23.9)	1 5/8	4,400 (303)	2,200 (151)

Female BSPT

Size	Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
			A	E	F	SS 316L	Brass
3/8	1/4	-HRCP-06R2-04R2	1.38 (35.1)	0.44 (11.2)	7/8	5,300 (365)	2,600 (179)
1/2	1/4	-HRCP-08R2-04R2	1.75 (44.4)	0.44 (11.2)	1 1/16	4,900 (337)	2,400 (165)
1/2	3/8	-HRCP-08R2-06R2	1.78 (45.2)	0.58 (14.7)	1 1/16	4,900 (337)	2,400 (165)

Female Elbows (FPEL)



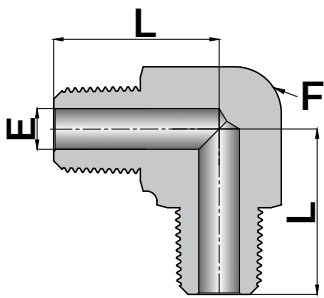
Female NPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		L	E	F	SS 316L	Brass
1/8	-FPEL-02N2-02N2	1.04 (26.4)	0.34 (8.6)	1/2	6,200 (427)	3,100 (213)
1/4	-FPEL-04N2-04N2	1.17 (29.7)	0.45 (11.4)	3/4	7,200 (496)	3,600 (248)
3/8	-FPEL-06N2-06N2	1.42 (36.1)	0.59 (15.0)	7/8	5,600 (385)	2,800 (192)
1/2	-FPEL-08N2-08N2	1.56 (39.6)	0.73 (18.5)	1 1/8	5,600 (385)	2,800 (192)
3/4	-FPEL-12N2-12N2	1.92 (48.8)	0.94 (23.9)	1 7/16	5,100 (351)	2,500 (172)
1	-FPEL-16N2-16N2	1.91 (48.5)	1.17 (29.7)	1 13/16	6,400 (440)	3,200 (220)

Female BSPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		L	E	F	SS 316L	Brass
1/4	-FPEL-04R2-04R2	1.17 (29.7)	0.44 (11.2)	3/4	7,200 (496)	3,600 (248)
3/8	-FPEL-06R2-06R2	1.42 (36.1)	0.58 (14.7)	7/8	5,600 (385)	2,800 (192)
1/2	-FPEL-08R2-08R2	1.56 (39.6)	0.72 (18.3)	1 1/8	5,600 (385)	2,800 (192)

Male Elbows(MPEL)



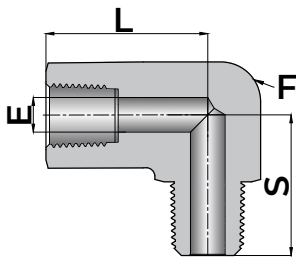
Male NPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		L	E	F	SS 316L	Brass
1/8	-MPEL-02N1-02N1	0.88 (22.4)	0.19 (4.8)	1/2	10,000 (689)	5,000 (344)
1/4	-MPEL-04N1-04N1	1.05 (26.7)	0.28 (7.1)	5/8	8,000 (551)	4,000 (275)
3/8	-MPEL-06N1-06N1	1.17 (29.7)	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	-MPEL-08N1-08N1	1.45 (36.8)	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)

Male BSPT

Size	Basic ordering Information	Dimensions, in.(mm)			Pressure Rating, psig (bar)	
		L	E	F	SS 316L	Brass
1/8	-MPEL-02R1-02R1	0.88 (22.4)	0.19 (4.8)	1/2	10,000 (689)	5,000 (344)
1/4	-MPEL-04R1-04R1	1.05 (26.7)	0.28 (7.1)	5/8	8,000 (551)	4,000 (275)
3/8	-MPEL-06R1-06R1	1.17 (29.7)	0.38 (9.6)	11/16	7,800 (537)	3,900 (268)
1/2	-MPEL-08R1-08R1	1.45 (36.8)	0.47 (11.9)	7/8	7,700 (530)	3,800 (261)

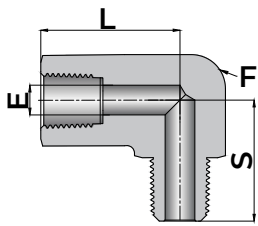
Street Elbows(STEL)



Female to Male (NPT)

Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		L	S	E	F	SS 316L	Brass
1/8	-STEL-02N2-02N1	0.88 (22.4)	0.87 (22.1)	0.19 (4.8)	1/2	6,200 (427)	3,100 (213)
1/4	-STEL-04N2-04N1	1.05 (26.7)	1.17 (29.7)	0.28 (7.1)	3/4	7,200 (496)	3,600 (248)
3/8	-STEL-06N2-06N1	1.17 (29.7)	1.26 (32.0)	0.38 (9.6)	7/8	5,600 (385)	2,800 (192)
1/2	-STEL-08N2-08N1	1.45 (36.8)	1.56 (39.6)	0.47 (11.9)	1 1/8	5,600 (385)	2,800 (192)
3/4	-STEL-12N2-12N1	1.17 (29.7)	1.67 (42.4)	0.62 (15.7)	1 7/16	5,100 (351)	2,500 (172)
1	-STEL-16N2-16N1	1.45 (36.8)	1.94 (49.3)	1.67 (42.4)	1 13/16	5,300 (365)	2,600 (179)

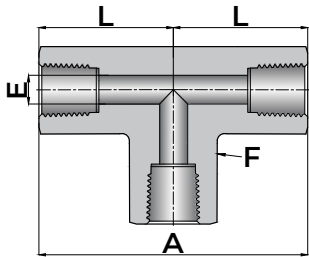
Reducing Street Elbows (SREL)



Female to Male (NPT)

Female Size	Male Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
			L	S	E	F	SS 316L	Brass
1/4	1/8	-SREL-04N2-02N1	1.17 (29.7)	1.00 (25.4)	0.19 (4.8)	3/4	7,200 (496)	3,600 (248)
3/8	1/4	-SREL-06N2-04N1	1.42 (36.1)	1.26 (32.0)	0.28 (7.1)	7/8	5,600 (385)	2,800 (192)
1/2	1/4	-SREL-08N2-04N1	1.56 (39.6)	1.38 (35.1)	0.28 (7.1)	1 1/8	5,600 (385)	2,800 (192)
1/2	3/8	-SREL-08N2-06N1	1.56 (39.6)	1.38 (35.1)	0.38 (9.6)	1 1/8	5,600 (385)	2,800 (192)

Female Tees (FPTE)



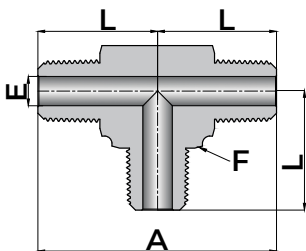
Female NPT

Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		A	L	E	F	SS 316L	Brass
1/8	-FPTE-02N2-02N2-02N2	2.08 (52.8)	1.04 (26.4)	0.34 (8.6)	1/2	6,200 (427)	3,100 (213)
1/4	-FPTE-04N2-04N2-04N2	2.34 (59.4)	1.17 (29.7)	0.45 (11.4)	3/4	7,200 (496)	3,600 (248)
3/8	-FPTE-06N2-06N2-06N2	2.84 (72.1)	1.42 (36.1)	0.59 (15.0)	7/8	5,600 (385)	2,800 (192)
1/2	-FPTE-08N2-08N2-08N2	3.12 (79.2)	1.56 (39.6)	0.73 (18.5)	1 1/8	5,600 (385)	2,800 (192)
3/4	-FPTE-12N2-12N2-12N2	3.84 (97.5)	1.92 (48.8)	0.94 (23.9)	1 7/16	5,100 (351)	2,500 (172)
1	-FPTE-16N2-16N2-16N2	3.82 (97.0)	1.91 (48.5)	1.17 (29.7)	1 13/16	6,400 (440)	3,200 (220)

Female BSPT

Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		A	L	E	F	SS 316L	Brass
1/4	-FPTE-04N2-04N2-04N2	2.34 (59.4)	1.17 (29.7)	0.45 (11.4)	3/4	6200 (427)	3100 (213)
3/8	-FPTE-06N2-06N2-06N2	2.84 (72.1)	1.42 (36.1)	0.59 (15.0)	7/8	7200 (496)	3600 (248)
1/2	-FPTE-08N2-08N2-08N2	3.12 (79.2)	1.56 (39.6)	0.73 (18.5)	1 1/8	5600 (385)	2800 (192)

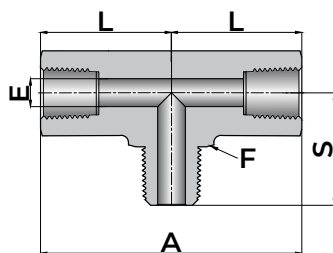
Male Tees (MPTE)



Male NPT

Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		A	L	E	F	SS 316L	Brass
1/8	-MPTE-02N2-02N2-02N2	1.76 (44.7)	0.88 (22.4)	0.19 (4.8)	1/2	10 000 (689)	5000 (344)
1/4	-MPTE-04N2-04N2-04N2	2.10 (53.3)	1.05 (26.7)	0.28 (7.1)	5/8	8 000 (551)	4000 (275)
3/8	-MPTE-06N2-06N2-06N2	2.34 (59.4)	1.17 (29.7)	0.38 (9.6)	11/16	7 800 (537)	3900 (268)
1/2	-MPTE-08N2-08N2-08N2	2.90 (73.7)	1.45 (36.8)	0.47 (11.9)	7/8	7 700 (530)	3800 (261)

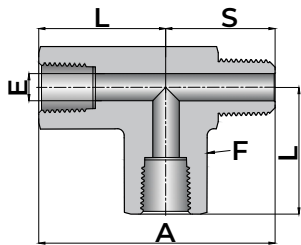
Female Branch Tees (PFBT)



Male to Female (NPT)

Size	Basic ordering Information	Dimensions, in.(mm)					Pressure Rating, psig (bar)	
		A	L	E	S	F	SS 316L	Brass
1/8	-PFBT-02N2-02N2-02N1	2.08 (52.8)	1.04 (26.4)	0.19 (4.8)	0.87(22.1)	1/2	6 200 (427)	3100 (213)
1/4	-PFBT-04N2-04N2-04N1	2.34 (59.4)	1.17 (29.7)	0.28 (7.1)	1.17(29.7)	3/4	7 200 (496)	3600 (248)
3/8	-PFBT-06N2-06N2-06N1	2.84 (72.1)	1.42 (36.1)	0.38 (9.6)	1.26(32.0)	7/8	5 600 (385)	2800 (192)
1/2	-PFBT-08N2-08N2-08N1	3.12 (79.2)	1.56 (39.6)	0.47 (11.9)	1.56(39.6)	1 1/8	5 600 (385)	2800 (192)

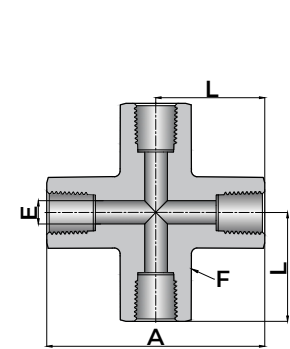
Run Tees (PFRT)



Male to Female (NPT)

Size	Basic ordering Information	Dimensions, in.(mm)					Pressure Rating, psig (bar)	
		A	L	E	S	F	SS 316L	Brass
1/8	-PFRT-02N2 -02N1-02N2	1.91 (48.5)	1.04 (26.4)	0.19 (4.8)	0.87(22.1)	1/2	6 200 (427)	3100 (213)
1/4	-PFRT-04N2 -04N1-04N2	2.34 (59.4)	1.17 (29.7)	0.28 (7.1)	1.17(29.7)	3/4	7 200 (496)	3600 (248)
3/8	-PFRT-06N2 -06N1-06N2	2.68 (68.1)	1.42 (36.1)	0.38 (9.6)	1.26(32.0)	7/8	5 600 (385)	2800 (192)
1/2	-PFRT-08N2 -08N1-08N2	3.12 (79.2)	1.56 (39.6)	0.47 (11.9)	1.56(39.6)	1 1/8	5 600 (385)	2800 (192)

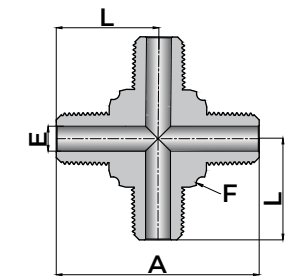
Crosses (PFCR)



Female (NPT)

Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		A	L	E	F	SS 316L	Brass
1/8	-PFCR-02N2 -02N2-02N2-02N2	2.08 (52.8)	1.04 (26.4)	0.34 (8.6)	1/2	6 200 (427)	3100 (213)
1/4	-PFCR-04N2-04N2 -04N2-04N2	2.34 (59.4)	1.17 (29.7)	0.45 (11.4)	3/4	7 200 (496)	3600 (248)
3/8	-PFCR-06N2-06N2 -06N2-06N2	2.84 (72.1)	1.42 (36.1)	0.59 (15.0)	7/8	5 600 (385)	2800 (192)
1/2	-PFCR-08N2-08N2 -08N2-08N2	3.12 (79.2)	1.56 (39.6)	0.73 (18.5)	1 1/8	5 600 (385)	2800 (192)
3/4	-PFCR-12N2-12N2 -12N2-12N2	3.84 (97.5)	1.92 (48.8)	0.94 (23.9)	1 7/16	5100 (351)	2500 (172)
1	-PFCR-16N2-16N2 -16N2-16N2	3.82 (97.0)	1.91 (48.5)	1.17 (29.7)	1 13/16	6400 (440)	3200 (220)

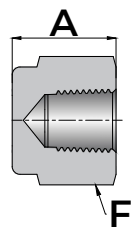
Crosses (PMCR)



Male (NPT)

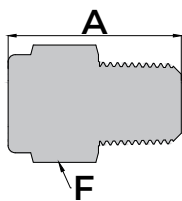
Size	Basic ordering Information	Dimensions, in.(mm)				Pressure Rating, psig (bar)	
		A	L	E	F	SS 316L	Brass
1/8	-PMCR-02N1 -02N1-02N1-02N1	2.08 (52.8)	1.04 (26.4)	0.34 (8.6)	1/2	6 200 (427)	3100 (213)
1/4	-PMCR-04N1-04N1 -04N1-04N1	2.34 (59.4)	1.17 (29.7)	0.45 (11.4)	5/8	7 200 (496)	3600 (248)
3/8	-PMCR-06N1-06N1 -06N1-06N1	2.84 (72.1)	1.42 (36.1)	0.59 (15.0)	3/4	5 600 (385)	2800 (192)
1/2	-PMCR-08N1-08N1 -08N1-08N1	3.12 (79.2)	1.56 (39.6)	0.73 (18.5)	7/8	5 600 (385)	2800 (192)
3/4	-PMCR-12N1-12N1 -12N1-12N1	3.84 (97.5)	1.92 (48.8)	0.94 (23.9)	1 7/16	5100 (351)	2500 (172)
1	-PMCR-16N2-16N2 -16N2-16N2	3.82 (97.0)	1.91 (48.5)	1.17 (29.7)	1	6400 (440)	3200 (220)

Pipe Caps (PC)



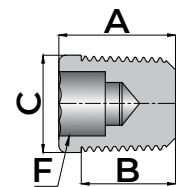
Size	Basic ordering Information	Dimensions, in.(mm)	
		A	F
1/8	-PC-02N2	0.75 (19.1)	9/16
1/4	-PC-04N2	0.91 (23.1)	3/4
3/8	-PC-06N2	1.03 (26.2)	7/8
1/2	-PC-08N2	1.34 (34.0)	1 1/16
3/4	-PC-12N2	1.44 (36.6)	1 5/16
1	-PC-16N2	1.62 (41.1)	1 5/8

Pipe Plugs (PP)



Size	Basic ordering Information	Dimensions, in.(mm)	
		A	F
1/8	-PP-02N1	0.75 (19.1)	7/16
1/4	-PP-04N1	0.75 (19.1)	9/16
3/8	-PP-06N1	0.96 (24.4)	11/16
1/2	-PP-08N1	1.21 (30.7)	7/8
3/4	-PP-12N1	1.21 (30.7)	1 1/16
1	-PP-16N1	1.50 (38.1)	1 3/8

Hollow Hex Plugs (HHPG)



Size	Basic ordering Information	Dimensions, in.(mm)			
		A	B	C	F
1/8	-HHPG-02N1	0.41 (10.4)	0.30 (7.6)	0.37 (9.4)	3/16
1/4	-HHPG-04N1	0.61 (15.5)	0.49 (12.4)	0.48 (12.1)	1/4
3/8	-HHPG-06N1	0.59 (15.0)	0.47 (11.9)	0.62 (15.7)	5/16
1/2	-HHPG-08N1	0.76 (19.3)	0.64 (16.2)	0.76 (19.3)	3/8

Flange Fittings



Features

- Flange types meet ASME, DIN, EN, and JIS standards
- Range of flange sizes and pressure classes
- Full range of sealing faces including flat face, raised face, RTJ, and tongue-and-groove
- Wrench flats for ease of tube fitting assembly
- Gaugeability on initial installation using Powerlok™ gap inspection gauges
- All fittings have a high-quality appearance.
- Every fitting is marked with manufacturer's name for easy source tracing.

End Connection

- Metric and fractional Powerlok™ tube fittings from 3 to 25 mm and 1/8 to 1 in.
- Metric and fractional Powerlok™ tube adapter fittings from 6 to 25 mm and 1/4 to 1 in.

Flange Connection

ASME B16.5

Nominal flange sizes from NPS 1/2 to 2 in.
Pressure class ratings from 150 to 2500.

DIN 2526 / DIN 2501

Nominal flange sizes from DN 15 to 50
Pressure class ratings from PN 40 to 320

EN 1092-1

Nominal flange sizes from DN 15 to 50
Pressure class ratings from PN 40 to 100

JIS B2220

Nominal flange sizes from DN 15 to 50
Pressure class ratings from 10 to 63K

Flange adapters to meet additional standards, such as API and ISO, are available upon request.

Cleaning and Packaging

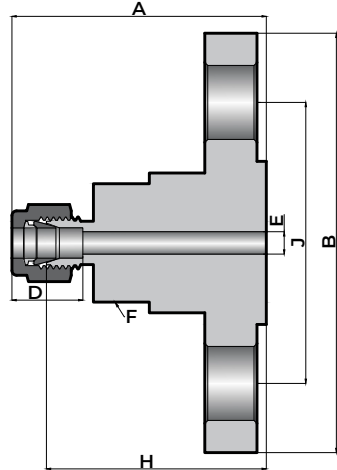
All Powerlok™ flange adapters are cleaned in accordance with Powerlok™ standard cleaning and packaging.



Ordering Information and Dimensions

Dimensions are for reference only and are subject to change.

ANSI Flanges



Size	ANSI Flange NPS	Class	Dimensions, in.						
			A	B	D	E	F	H	J
1/4	1/2	150	1.61	3.50	0.60	0.19	13/16	1.32	2.38
3/8	1/2	300	1.79	3.75	0.66	0.28	13/16	1.50	2.62
1/2	1/2	150	1.78	3.50	0.90	0.41	13/16	1.38	2.38
	1		1.90	4.25				1.50	3.12
3/4	1	150	1.98	4.25	0.96	0.62	1 1/4	1.58	3.12
1	1	150	2.38	4.25	1.23	0.88	1 3/8	1.90	3.12

Pressure-Temperature Ratings

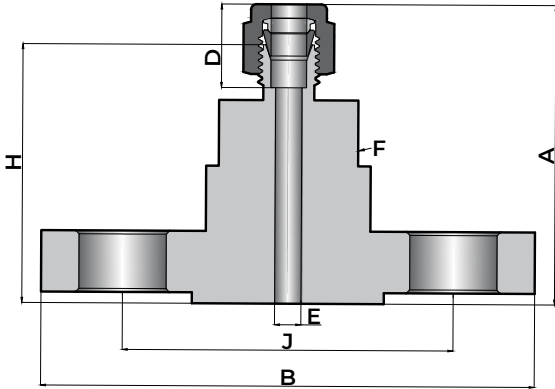
Ratings are taken from ASME B16.5-2003, Table 2-2.2 and Table F2-2.2.

Pressure ratings for fittings with a flange end connection and another end connection are determined by the connection with the lower pressure rating.

Temperature °F	ASME Class						
	150	300	400	600	900	1500	2500
-20 to 100	275	720	960	1440	2160	3600	6000
200	235	620	825	1240	1860	3095	5160
300	215	560	745	1120	1680	2795	4660
400	195	515	685	1025	1540	2570	4280
500	170	480	635	955	1435	2390	3980
600	140	450	300	900	1355	2255	3760
650	125	450	590	885	1325	2210	3680
700	110	435	580	870	1305	2170	3620
750	95	425	570	855	1280	2135	3560
800	80	420	565	845	1265	2110	3520
850	65	420	555	835	1255	2090	3480
900	50	415	555	830	1245	2075	3460
950	35	385	515	775	1160	1930	3220
1000	20	365	485	725	1090	1820	3030

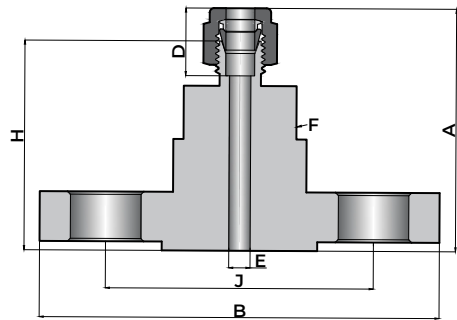
Temperature °C	ASME Class						
	150	300	400	600	900	1500	2500
-29 to 38	19.0	49.6	66.2	99.3	148.9	248.2	413.7
50	18.4	48.1	64.2	96.2	144.3	240.6	400.9
100	16.2	42.2	56.3	84.4	126.6	211.0	351.6
150	14.8	38.5	51.3	77.0	115.5	192.5	320.8
200	13.7	35.7	47.6	71.3	107.0	178.3	297.2
250	12.1	33.4	44.5	66.8	100.1	166.9	278.1
300	10.2	31.6	42.2	63.2	94.9	158.1	263.5
325	9.3	30.9	41.2	61.8	92.7	154.4	257.4
350	8.4	30.3	40.4	60.7	91.0	151.6	252.7
375	7.4	29.9	39.8	59.8	89.6	149.4	249.0
400	6.5	29.4	39.3	58.9	88.3	147.2	245.3
425	5.5	29.1	38.9	58.3	87.4	145.7	242.9
450	4.6	28.8	38.5	57.7	86.5	144.2	240.4
475	3.7	28.7	38.2	57.3	86.0	143.4	238.9
500	2.8	28.2	37.6	56.5	84.7	140.9	235.0
538	1.4	25.2	33.4	50.0	75.2	125.5	208.9

DIN Flanges, Pressure Class PN 40



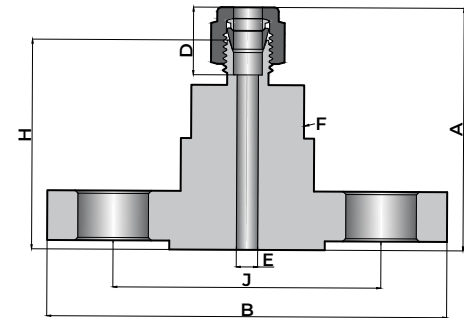
Size	Dimensions, mm						
	A	B	D	E	F	H	J
6	47.5	115	15.3	4.8	20	40.1	85.0
12	48.5	95.0	22.8	9.5	20	38.4	65.0
	50.5	115				40.4	85.0
	55.3	165				45.2	125
18	51.8	95.0	24.4	15.1	32	41.7	65.0
	53.8	115				43.7	85.0
25	64.0	115	31.3	21.8	35	43.7	85.0

EN Flanges, Pressure Class PN 40



Size	Dimensions, mm						
	A	B	D	E	F	H	J
6	47.5	115	15.2	4.8	20	40.1	85.0
12	48.5	95.0	22.8	9.5	20	38.4	65.0
	50.5	115				40.4	85.0
	55.3	165				45.2	125
18	51.8	95.0	24.4	15.1	32	41.7	65.0
	53.8	115				43.7	85.0
25	64.0	115	31.3	21.8	35	43.7	85.0

EN Flanges, Pressure Class PN 40



Size	Dimensions, in.						
	A	B	D	E	F	H	J
1/4	1.66	3.74	0.60	0.19	13/16	1.37	2.76
3/8	1.72	3.74	0.66	0.28	13/16	1.43	2.76
1/2	1.83	3.74	0.90	0.41	13/16	1.43	2.76
3/4	1.91	3.74	0.96	0.62	1 1/4	1.51	2.76
1	2.40	4.92	1.23	0.88	1 3/8	1.92	3.56

Size	Dimensions, mm						
	A	B	D	E	F	H	J
12	46.5	95.0	22.8	9.5	20	36.3	70.0
18	48.5	95.0	24.4	15.1	32	38.4	70.0
25	61.0	125	31.3	21.8	35	48.8	90.0

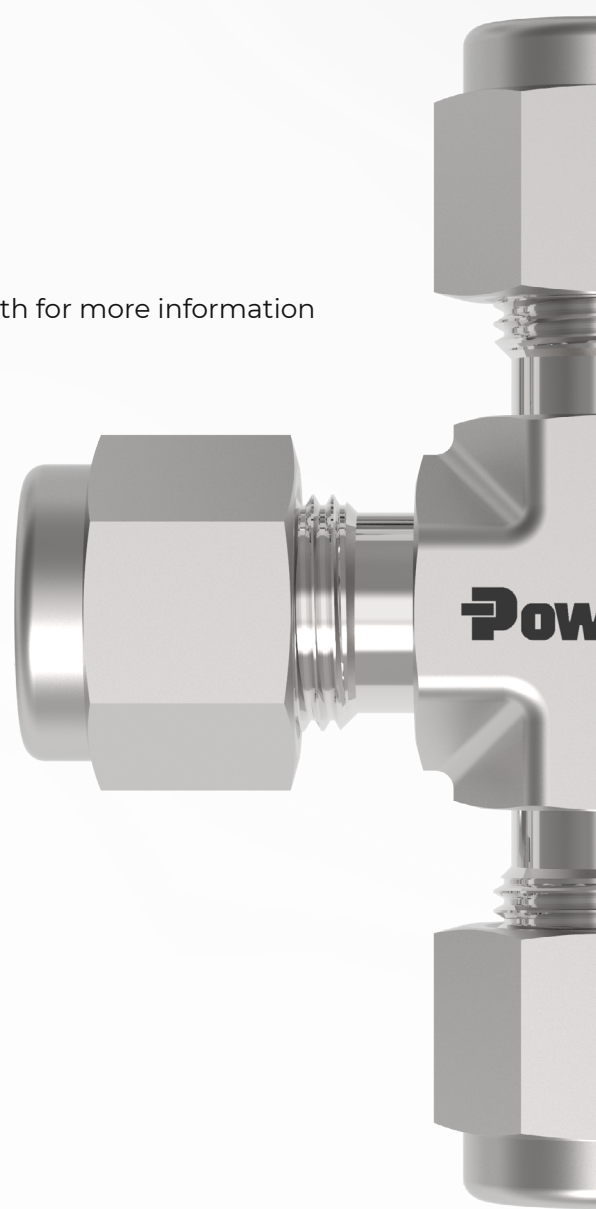
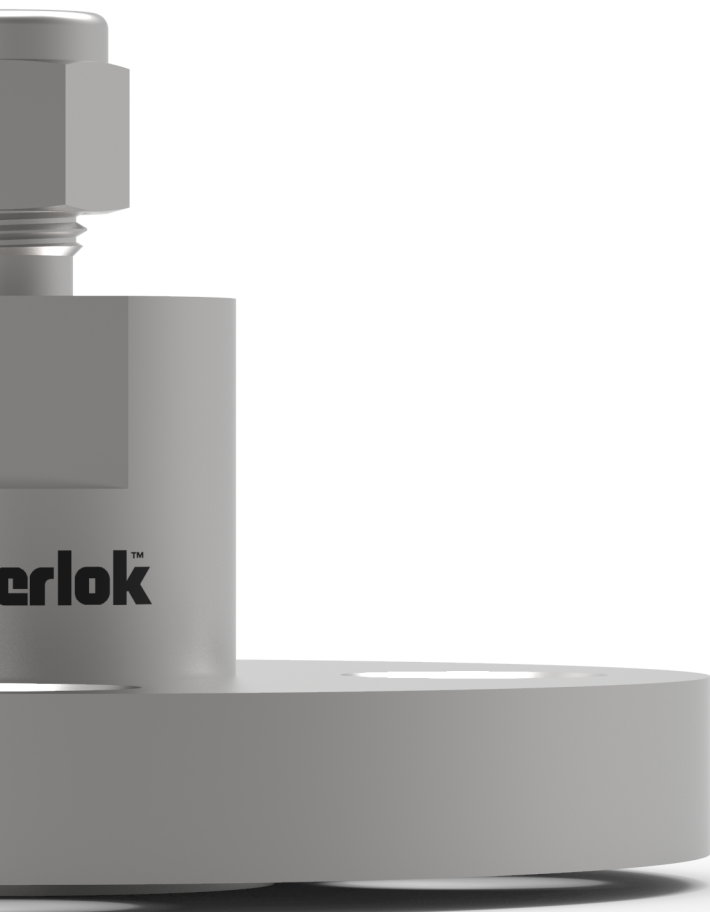
Warranty Information

Powerlok™ products are backed by The Powerlok™ Limited 18 month for more information contact your authorized Powerlok™ representative.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Powerlok™, India—a brand by Thomas & Brian®
March 2022.





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Eta Endüstri

Endüstriyel Test ve Servis Ekipmanları

ETA TURKEY ENDÜSTRİ MÜHENDİSLİK
TEST VE SERVİS HİZMETLERİ TİCARET LİMİTED ŞİRKETİ

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