

CLEAN FITTINGS

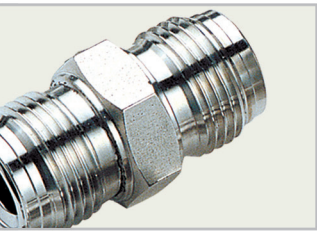
- Weld Fittings / Metal Fittings



 **SUPERLOK[®]**

 **BMT Co., Ltd.**
www.superlok.com

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Contents



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WELD FITTINGS

- Micro Weld Fittings
- Forged Weld Fittings

Features

- 316L E-F + RH + VAR(Double Melt) Material.
- Permanently Heat code marked : traceable to original mill certificate of test.
- Electropolished components permanently marked with designator on cube(P or PX).
- Critical surfaces are 100% visually inspected using magnification and lighting.

Materials

- 316L E-F + RH + VAR(Double Melt) Material complies with ASTM A276 and ASME SA479.
- Recommended tubing specifications include ASME SA213, ASTM A249, ASTM A269, MIL T8506 and JIS G4303.

Specifications

- Pressure Ratings will be governed by the tubing selected for a particular application.

Working Pressure are calculated below for tubing using maximum allowable stress levels in accordance with ASME/ANSI B31.3, at ambient temperature.

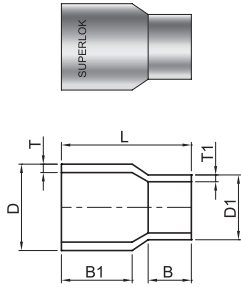
Tube O.D.	pressure Ratings		Normal Wall Thickness
1/4in	psig	kgf/cm	
3/8in	5100	358	1mm
1/2in	3300	232	1mm
1/2in	3500	246	1.24mm

- Dimensions are for reference only and are subject to change.
- Internal Surface Finishes : Standard finish Micro Fittings have an internal Surface Roughness of 3.0 Ry
Electropolished Micro Fittings have an internal Surface Roughness of 0.7 Ry.

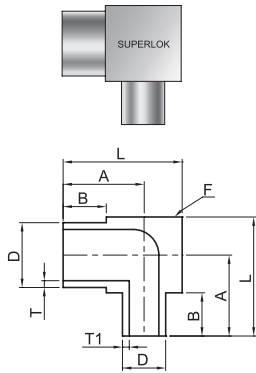
Designator	Surface Finish(Ry)
	Maximum
EP	0.7
BA	3.0

Micro Weld Fittings

Micro Reducer

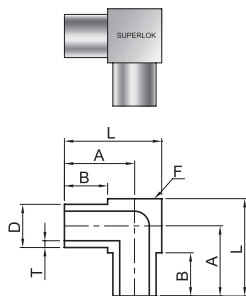


Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	B	B1	L
C4-2R6	1/4"	1/8"	6.35	3.18	1.00	0.70	6.35	10.40	19.1
C6-4R6	3/8"	1/4"	9.53	6.35	1.00	1.00	6.35	10.40	19.1
C8-4R6	1/2"	1/4"	12.70	6.35	1.24	1.00	6.35	10.40	19.1
C8-6R6	1/2"	3/8"	12.70	9.53	1.24	1.00	6.35	10.40	19.1
C12-4R6	3/4"	1/4"	19.05	6.35	1.65	1.00	6.35	10.40	19.1
C12-6R6	3/4"	3/8"	19.05	9.53	1.65	1.00	6.35	10.40	19.1
C12-8R6	3/4"	1/2"	19.05	12.70	1.65	1.24	6.35	10.40	19.1



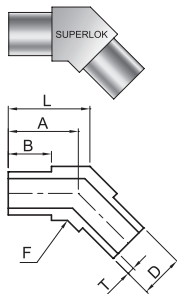
Micro Reducing 90° Elbow

Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	A	B	F Body Cube	L
C4-2RE6	1/4"	1/8"	6.35	3.18	1.00	0.70	10.32	6.35	7.94	14.29
C6-4RE6	3/8"	1/4"	9.53	6.35	1.00	1.00	11.91	6.35	11.11	17.46
C8-4RE6	1/2"	1/4"	12.70	6.35	1.24	1.00	13.50	6.35	14.29	20.64
C8-6RE6	1/2"	3/8"	12.70	9.53	1.24	1.00	13.50	6.35	14.29	20.64
C12-4RE6	3/4"	1/4"	19.05	6.35	1.65	1.00	16.68	6.35	20.65	27.00
C12-6RE6	3/4"	3/8"	19.05	9.53	1.65	1.00	16.68	6.35	20.65	27.00
C12-8RE6	3/4"	1/2"	19.05	12.70	1.65	1.24	16.68	6.35	20.65	27.00



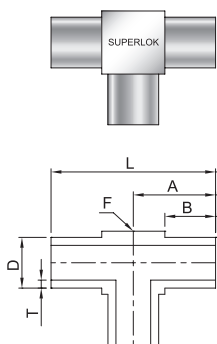
Micro 90° Elbow

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C2E6	1/8"	3.18	0.70	10.32	6.35	7.94	14.29
C4E6	1/4"	6.35	1.00	11.91	6.35	7.94	14.29
C6E6	3/8"	9.53	1.00	13.50	6.35	11.11	17.46
C8E6	1/2"	12.70	1.24	13.50	6.35	14.29	20.64
C12E6	3/4"	19.05	1.65	16.68	6.35	20.65	27.00



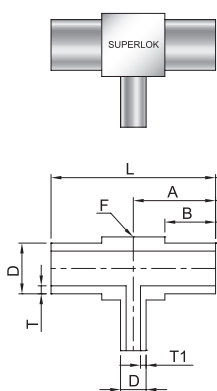
Micro 45° Elbow

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C2HE6	1/8"	3.18	0.70	10.32	6.35	7.94	11.96
C4HE6	1/4"	6.35	1.00	11.91	6.35	7.94	11.96
C6HE6	3/8"	9.53	1.00	13.50	6.35	11.11	14.21
C8HE6	1/2"	12.70	1.24	13.50	6.35	14.29	16.46
C12HE6	3/4"	19.05	1.65	16.68	6.35	20.65	20.95



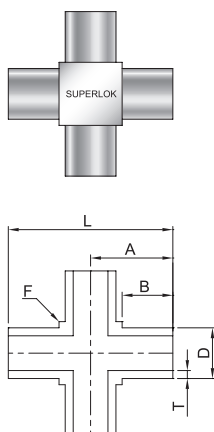
Micro Tee

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C2T6	1/8"	3.18	0.70	10.32	6.35	7.94	20.64
C4T6	1/4"	6.35	1.00	11.91	6.35	7.94	20.64
C6T6	3/8"	9.53	1.00	13.50	6.35	11.11	23.81
C8T6	1/2"	12.70	1.24	13.50	6.35	14.29	26.99
C12T6	3/4"	19.05	1.65	16.68	6.35	20.65	33.35



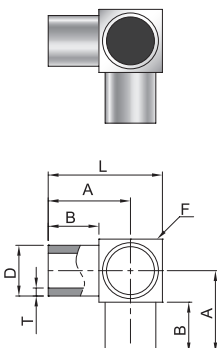
Micro Reducing Tee

Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	A	B	F Body Cube	L
C4-2RT6	1/4"	1/8"	6.35	3.18	1.00	0.70	10.32	6.35	7.94	20.64
C6-4RT6	3/8"	1/4"	9.53	6.35	1.00	1.00	11.91	6.35	11.11	23.81
C8-4RT6	1/2"	1/4"	12.70	6.35	1.24	1.00	13.50	6.35	14.29	26.99
C8-6RT6	1/2"	3/8"	12.70	9.53	1.24	1.00	13.50	6.35	14.29	26.99
C12-4RT6	3/4"	1/4"	19.05	6.35	1.65	1.00	16.68	6.35	20.65	27.00
12-6RT6	3/4"	3/8"	19.05	9.53	1.65	1.00	16.68	6.35	20.65	27.00
C12-8RT6	3/4"	1/2"	19.05	12.70	1.65	1.24	16.68	6.35	20.65	27.00



Micro Cross

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C2CR6	1/8"	3.18	0.70	10.32	6.35	7.94	20.64
C4CR6	1/4"	6.35	1.00	11.91	6.35	7.94	20.64
C6CR6	3/8"	9.53	1.00	13.50	6.35	11.11	23.81
C8CR6	1/2"	12.70	1.24	13.50	6.35	14.29	26.99
C12CR6	3/4"	19.05	1.65	16.68	6.35	20.65	33.35

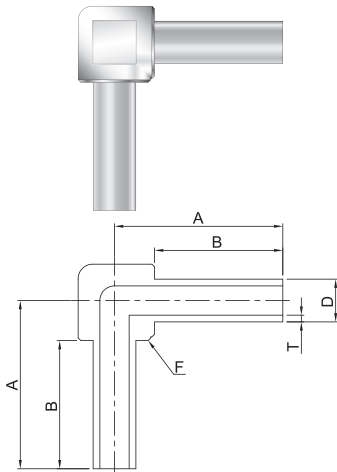


Micro Tribow

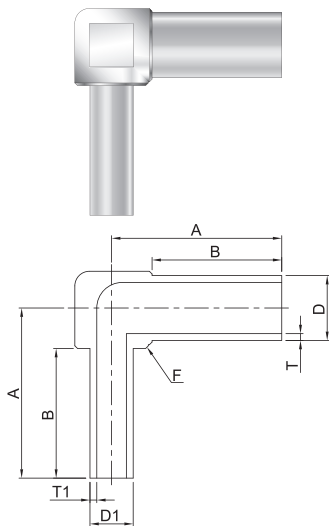
Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C2TW6	1/8"	3.18	0.70	10.32	6.35	7.94	14.29
C4TW6	1/4"	6.35	1.00	11.91	6.35	7.94	14.29
C6TW6	3/8"	9.53	1.00	13.50	6.35	11.11	17.46
C8TW6	1/2"	12.70	1.24	13.50	6.35	14.29	20.64
C12TW6	3/4"	19.05	1.65	16.68	6.35	20.65	27.00

Forged Weld Fittings

90° Elbow

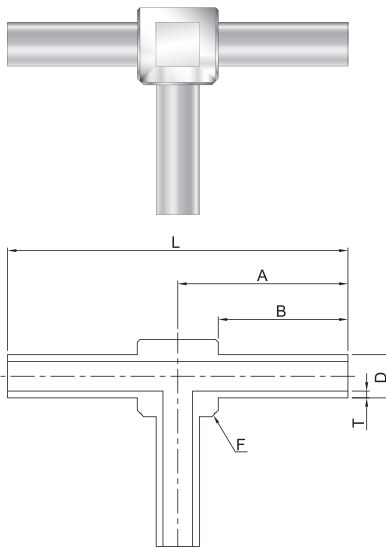


Part No.	Size (OD)	D	T	A	B	F Body Cube
C4E19	1/4"	6.35	1.00	25.00	19.05	11.2
C6E19	3/8"	9.53	1.00	25.00	19.05	11.2
C8E19	3/2"	12.70	1.24	29.00	19.05	17.5
C12E19	3/4"	19.05	1.65	31.50	19.05	25.0
C12E22	3/4"	19.05	1.65	33.50	22.50	25.0
C16E19	1"	25.40	1.65	34.00	19.05	29.9
C16E24	1"	25.40	1.65	39.00	24.50	29.9
C4E10	1/4"	6.35	1.00	15.90	10.00	11.2
C6E10	3/8"	9.53	1.00	15.90	10.00	11.2
C8E10	1/2"	12.70	1.24	19.90	10.00	17.5
C12E10	3/4"	19.05	1.65	22.40	10.00	25.0
C16E10	1"	25.40	1.65	24.95	10.00	29.9



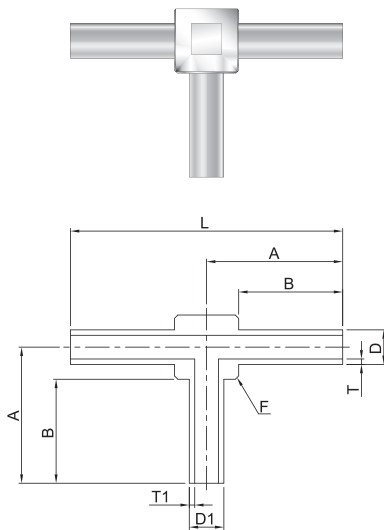
Reducing 90° Elbow

Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	A	B	F Body Cube
C6-4RE19	1/4"	1/1"	9.53	6.35	1.00	1.00	25.00	19.05	11.2
C6-4RE19	3/8"	1/4"	12.70	6.35	1.24	1.00	29.00	19.05	17.5
C8-6RE19	1/2"	3/8"	12.70	9.53	1.24	1.00	29.00	19.05	17.5
C12-4RE19	3/4"	1/4"	19.05	6.35	1.65	1.00	31.50	19.05	25.0
C12-6RE19	3/4"	3/8"	19.05	9.53	1.65	1.00	31.50	19.05	25.0
C12-8RE19	3/4"	1/2"	19.05	12.70	1.65	1.24	31.50	19.05	25.0
C16-4RE19	1"	1/4"	25.40	6.35	1.65	1.00	34.00	19.05	29.9
C16-8RE19	1"	1/2"	25.40	12.70	1.65	1.24	34.00	19.05	29.9
C16-2RE19	1"	3/4"	25.40	19.05	1.65	1.65	34.00	19.05	29.9



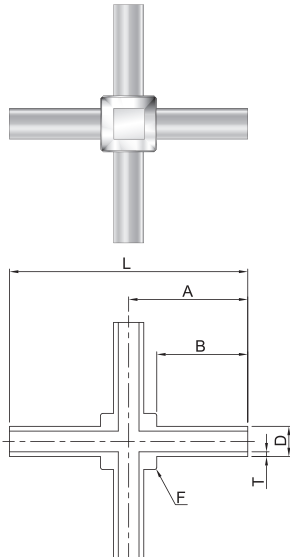
Tee

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C4T19	1/4"	6.35	1.00	25.00	19.05	11.2	50.00
C6T19	3/8"	9.53	1.00	25.00	19.05	11.2	50.00
C8T19	1/2"	12.70	1.24	29.00	19.05	17.5	58.00
C12T19	3/4"	19.05	1.65	31.50	19.05	25.0	63.00
C12T22	3/4"	19.05	1.65	33.50	22.50	25.0	67.00
C16T19	1"	25.40	1.65	34.00	19.05	29.9	68.00
C16T24	1"	25.40	1.65	39.00	24.50	29.0	78.00
C4T10	1/4"	6.35	1.00	15.90	10.00	11.2	31.80
C6T10	3/8"	9.53	1.00	15.90	10.00	11.2	31.80
C8T10	1/2"	12.70	1.24	19.90	10.00	17.5	39.80
C12T10	3/4"	19.05	1.65	22.40	10.00	25.0	44.80
C16T10	1"	25.40	1.65	24.95	10.00	29.9	49.90



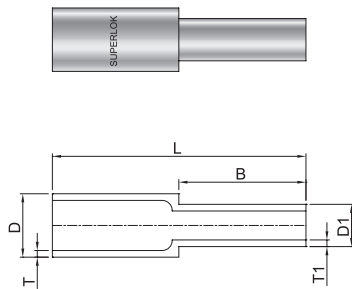
Reducing Tee

Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	A	B	F Body Cube	L
C6-4RT19	3/8"	1/4"	9.53	6.35	1.00	1.00	25.00	19.05	11.2	50.00
C8-4RT19	1/2"	1/4"	12.70	6.35	1.24	1.00	29.00	19.05	17.5	58.00
C8-6RT19	1/2"	3/8"	12.70	9.53	1.24	1.00	29.00	19.05	17.5	58.00
C12-4RT19	3/4"	1/4"	19.05	6.35	1.65	1.00	31.50	19.05	25.0	63.00
C12-6RT19	3/4"	3/8"	19.05	9.53	1.65	1.00	31.50	19.05	25.0	63.00
C12-8RT19	3/4"	1/2"	19.05	12.70	1.65	1.24	31.50	19.05	25.0	63.00
C16-4RT19	1"	1/4"	25.40	6.35	1.65	1.00	34.00	19.05	29.9	68.00
C16-8RT19	1"	1/2"	25.40	12.70	1.65	1.24	34.00	19.05	29.9	68.00
C16-12RT19	1"	3/4"	25.40	19.05	1.65	1.65	34.00	19.05	29.9	68.00
C6-4RT10	3/8"	1/4"	9.53	6.35	1.00	1.00	15.90	19.05	11.2	31.80
C8-4RT10	1/2"	1/4"	12.70	6.35	1.24	1.00	19.90	19.05	17.5	39.80
C8-6RT10	1/2"	3/8"	12.70	9.53	1.24	1.00	19.90	19.05	17.5	39.80
C12-4RT10	3/4"	1/4"	19.05	6.35	1.65	1.00	22.40	19.05	25.0	44.80
C12-6RT10	3/4"	3/8"	19.05	9.53	1.65	1.00	22.40	19.05	25.0	44.80



Cross

Part No.	Size (OD)	D	T	A	B	F Body Cube	L
C4CR19	1/4"	6.35	1.00	25.00	19.05	11.2	50.00
C6CR19	3/8"	9.53	1.00	25.00	19.05	11.2	50.00
C8CR19	1/2"	12.70	1.24	29.00	19.05	17.5	58.00
C12CR19	3/4"	19.05	1.65	31.50	19.05	25.0	63.00
C16CR19	1"	25.40	1.65	34.00	19.05	29.9	68.00
C4CR10	1/4"	6.35	1.00	15.90	10.00	11.2	31.80
C6CR10	3/8"	9.53	1.00	15.90	10.00	11.2	31.80
C8CR10	1/2"	12.70	1.24	19.90	10.00	17.5	39.80
C12CR10	3/4"	19.05	1.65	22.40	10.00	25.0	44.80
C16CR10	1"	25.40	1.65	24.95	10.00	29.9	49.90



Reducer

Part No.	Size (OD)	Size (OD1)	D	D1	T	T1	B	L
C6-4R19	3/8"	1/4"	9.53	6.35	1.00	1.00	19.05	38.1
C8-4R19	1/2"	1/4"	12.70	6.35	1.24	1.00	19.05	38.1
C8-6R19	1/2"	3/8"	12.70	9.53	1.24	1.00	19.05	38.1
C12-4R19	3/4"	1/4"	19.05	6.35	1.65	1.00	19.05	42.9
C12-6R19	3/4"	3/8"	19.05	9.53	1.65	1.00	19.05	42.9
C12-8R19	3/4"	1/2"	19.05	12.70	1.65	1.24	19.05	42.9
C16-4R19	1"	1/4"	25.40	6.35	1.65	1.00	19.05	42.9
C16-6R19	1"	3/8"	25.40	9.53	1.65	1.00	19.05	42.9
C16-8R19	1"	1/2"	25.40	12.70	1.65	1.24	19.05	42.9
C16-12R19	1"	3/4"	25.40	19.05	1.65	1.65	19.05	42.9
C6-4R10	3/8"	1/4"	9.53	6.35	1.00	1.00	10.00	20.0
C8-4R10	1/2"	1/4"	12.70	6.35	1.24	1.00	10.00	20.0
C8-6R10	1/2"	3/8"	12.70	9.53	1.24	1.00	10.00	20.0
C16-8R10	3/4"	1/4"	19.05	6.35	1.65	1.00	10.00	20.0
C16-6R10	3/4"	3/8"	19.05	9.53	1.65	1.00	10.00	20.0
C16-4R10	3/4"	1/2"	19.05	12.70	1.65	1.24	10.00	20.0

FACE SEAL FITTINGS

- Glands - Welded Assemblies - Gaskets
- Nuts, Caps and Plugs - High- Flow Connections - “H” Type

- High-purity Nickel and Hastelloy C-22 glands for extremely corrosive applications.
- Non-Rotational Female Nut to prevent transmission of torque during make-up and therefore minimize twist of component which causes stress concentration.

Materials

-Glands, Bodies

Material	Ordering Number Designator	Applicable Specification
316 stainless steel Single Melt	S	bar stock : ASME SA479, ASTM A276 forgings : ASTM A182
316L VAR(Vacuum Arc Remelting) stainless steel Double Melt	D	bar stock : ASME SA479, ASTM A276 forgings : ASTM A182

Specifications

- Pressure Ratings are based upon tests conducted using MFS assemblies. All ratings comply with calculations per ANSI Code for Pressure Piping B31.3.
- Working Pressure are rated at ambient temperature and are based on a 4 to 1 design factor. To determine pressure ratings in accordance with ANSI B31. 1 multiply Working Pressure by 0.94.
- Temperature Ratings
Fittings : Stainless Steel 316, 316L 1000°F(537°C)
Gaskets : High-Purity Nickel 600°F(315°C)
Stainless Steel 1000°F(537°C)
- Dimensions are for reference only and are subject to change.
- Plating Female nuts are silver plated. Avoid chemical processes used for cleaning, electropolishing, and passivation that will remove plating. If the plating is damaged or removed, thread galling may occur, damaging fitting components and preventing a proper seal.

Some Configuration

-Gaskets

Material	Ordering Number Designator	Applicable Specification
Nickel	UN	ASTM B162
Silver plated nickel	SN	ASTM B162
316L stainless steel	US	ASTM A167
Silver plated 316L stainless steel	SS	ASTM A167

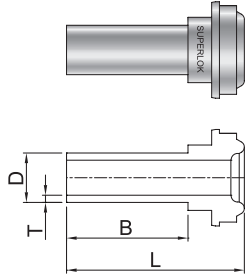
Typical Face Seal Fittings

- Testing products are rated to a Helium leak rate of 1×10^{-9} atm cc/sec.
- Internal Surface Finishes : components are available with controlled surface finishes and electropolished internal surfaces.
- Cleaning and Packaging : Ultra-High Purity cleaning and packing in a Class100 Clean Room environment validated per Federal Standard 209E, is standard for all electropolished components.

Designator	Surface Finish(Ry)
	Maximum
EP	0.7
BA	3.0

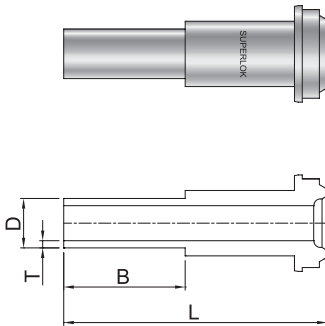
Glands

Female Gland



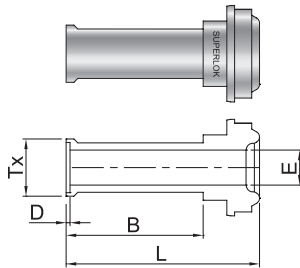
Part No.	Tube Size	Head Size	D	T	B	L	ANS
C2-2FG19	1/8"	1/8"	3.18	0.70	19.05	27.40	1/8"
C4-4FG6	1/4"	1/4"	6.35	1.00	6.35	15.24	1/4"
C4-4FG19	1/4"	1/4"	6.35	1.00	10.00	18.89	1/4"
C4-4FG19	1/4"	1/4"	6.35	1.00	19.05	27.94	1/4"
C6-4FG16	3/8"	1/2"	9.53	1.00	6.35	15.75	1/2"
C6-8FG10	3/8"	1/2"	9.53	1.00	10.00	19.40	1/2"
C6-8FG19	3/8"	1/2"	9.53	1.24	19.05	28.45	1/2"
C8-8FG6	1/2"	1/2"	12.70	1.24	6.35	15.75	1/2"
C8-8FG10	1/2"	1/2"	12.70	1.24	10.00	19.40	1/2"
C8-8FG19	1/2"	1/2"	12.70	1.65	19.05	28.45	1/2"
C12-12FG19	3/4"	3/4"	19.05	1.65	19.05	34.50	3/4"
C16-16FG19	1"	1"	25.40	1.65	19.05	38.60	1"
C4-8FG6	1/4"	1/2"	6.35	1.00	6.35	15.75	1/2"
C4-8FG10	1/4"	1/2"	6.35	1.00	10.00	19.40	1/2"
C4-8FG19	1/4"	1/2"	6.35	1.00	19.05	28.45	1/2"

Male Gland



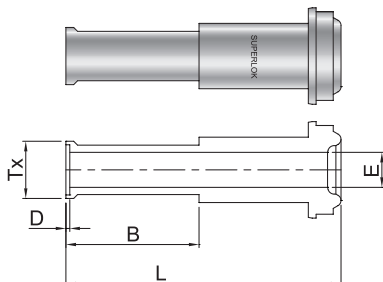
Part No.	Tube Size	Head Size	D	T	B	L	ANS
C2-2MG19	1/8"	1/8"	3.18	0.70	19.05	36.00	1/8"
C4-4MG6	1/4"	1/4"	6.35	1.00	6.35	30.48	1/4"
C4-4MG10	1/4"	1/4"	6.35	1.00	10.00	34.13	1/4"
C4-4MG19	1/4"	1/4"	6.35	1.00	19.05	43.18	1/4"
C6-8MG6	3/8"	1/2"	9.53	1.00	6.35	32.77	1/2"
C6-8MG10	3/8"	1/2"	9.53	1.00	10.00	36.42	1/2"
C6-8MG19	3/8"	1/2"	9.53	1.24	19.05	45.47	1/2"
C8-8MG16	1/2"	1/2"	12.70	1.24	6.35	32.77	1/2"
C8-8MG10	1/2"	1/2"	12.70	1.24	10.00	36.42	1/2"
C8-8MG19	1/2"	1/2"	12.70	1.65	19.05	45.47	1/2"
C12-12MG19	3/4"	3/4"	19.05	1.65	19.05	51.56	3/4"
C16-16MG19	1"	1"	25.40	1.65	19.05	58.93	1"
C4-8MG6	1/4"	1/2"	6.35	1.00	6.35	32.77	1/2"
C4-8MG10	1/4"	1/2"	6.35	1.00	10.00	36.42	1/2"
C4-8MG19	1/4"	1/2"	6.35	1.00	19.05	45.47	1/2"

ATW Female Long Gland



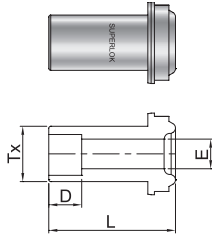
Part No.	Tube Size	Head Size	B	D	E	L	Tx
C4-4AFG19	1/4"	1/4"	19.05	0.50	4.35	28.50	7.40
C6-8AFG19	3/8"	1/2"	19.05	0.80	7.53	29.20	10.40
C8-8AFG19	1/2"	1/2"	19.05	1.00	10.22	29.50	14.00
C4-8AFG19	1/4"	1/2"	19.05	0.50	4.35	29.50	7.40

ATW Male Long Gland



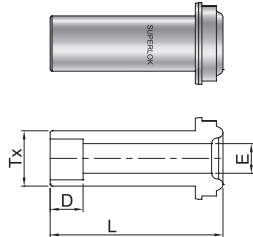
Part No.	Tube Size	Head Size	B	D	E	L	Tx
C4-4AMG19	1/4"	1/4"	19.05	0.50	4.35	43.70	7.40
C6-8AMG19	3/8"	1/2"	19.05	0.75	7.53	46.25	10.40
C8-8AMG19	1/2"	1/2"	19.05	1.00	10.22	46.50	14.00
C12-12AMG19	3/4"	3/4"	19.05	1.00	15.75	52.60	20.10
C16-16AMG24	1"	1"	24.40	1.00	22.10	63.50	26.90
C4-8AMG19	1/4"	1/2"	19.05	0.50	4.35	46.20	7.40

FACE SEAL FITTINGS



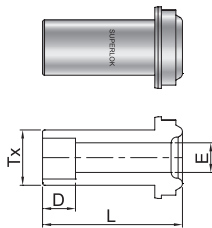
Socket Weld Short Gland

Part No.	Socket Size	Head Size	D	E	L	Tx
C4-4SSG	1/4"	1/4"	7.1	4.35	12.7	8.9



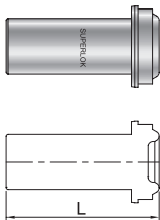
Socket Weld Short Gland

Part No.	Socket Size	Head Size	D	E	L	Tx
C2-2SLG	1/8"	1/8"	2.5	2.30	17.8	5.1
C4-4SLG	1/4"	1/4"	7.1	4.35	33.3	8.9
C6-8SLG	3/8"	1/2"	7.9	7.53	38.1	15.2
C8-8SLG	1/2"	1/2"	9.6	10.22	38.1	15.2
C12-12SLG	3/4"	3/4"	11.2	15.75	50.8	22.4
C16-16SLG	1"	1"	15.7	22.10	56.4	30.2



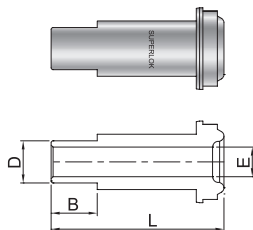
Reducing Socket Weld Long Gland

Part No.	Socket Size	Head Size	D	E	L	Tx
C2-4RSLG	1/8"	1/4"	2.5	2.30	17.8	8.9
C4-8RSLG	1/4"	1/2"	7.1	4.35	33.3	15.2



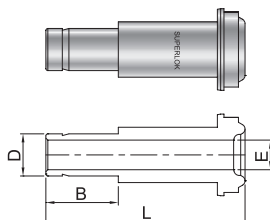
Blind Gland

Part No.	Head Size	E	Part No.	Head Size	Tx
C2BG	1/8"	17.8	C12BG	3/4"	50.8
C4BG	1/4"	33.3	C16BG	1"	56.4
C8BG	1/2"	38.1			



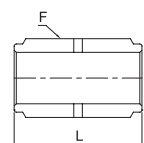
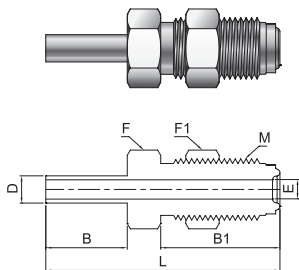
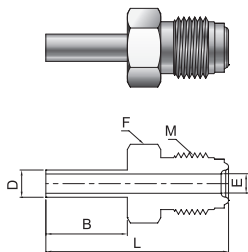
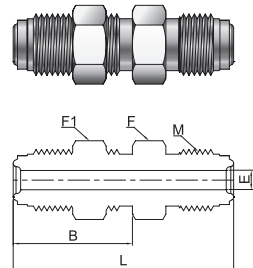
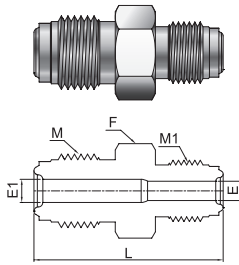
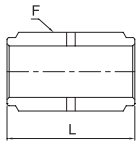
Male Weld Gland

Part No.	Tube Size	Head Size	D	E	B	L	ANS
C2-2MWG	1/8"	1/8"	3.18	1.5	7.1	17.8	1/8"
C4-4MWG	1/4"	1/4"	6.35	3.0	10.4	33.3	1/4"
C6-8MWG	3/8"	1/2"	9.53	7.1	10.4	38.1	3/8"
C8-8MWG	1/2"	1/2"	12.70	10.2	12.7	38.1	1/2"



Tube Adapter

Part No.	Tube Size	Head Size	D	E	B	L	ANS
C4-4TA	1/4"	1/4"	6.35	4.3	16.2	41.0	1/4"
C6-8TA	3/8"	1/2"	9.53	6.8	17.8	46.0	3/8"
C8-8TA	1/2"	1/2"	12.70	9.4	24.4	49.3	1/2"



Double Male Union

Part No.	Head Size	E	L	F HEX Flat	M
C2MU	1/8"	2.30	28.70	9.52	5/16-24UNF
C4MU	1/4"	4.35	39.37	15.88	9-16-18UNF
C8MU	1/2"	10.22	46.74	23.81	7/8-14UNF
C12MU	3/4"	15.75	61.98	33.34	1 1/4-18UNF
C16MU	1"	22.10	65.79	41.28	1 1/2-20UN

Double Male Reducing Union

Part No.	Head Size	Head Size	E	E1	F HEX Flat	L	M	M1
C4-2RMU	1/4"	1/8"	2.30	28.70	9.52	34.8	9/16-18UNF	5/16-24UNF
C8-4RMU	1/2"	1/4"	4.35	29.37	15.88	43.4	7/8-14UNF	9/16-18UNF

Bulkhead Union

Part No.	Head Size	E	B	L	F HEX Flat	F1 HEX Flat	M
C4BHU	1/4"	4.35	33.00	56.60	19.05	19.05	9/16-18UNF
C8BHU	1/2"	10.22	37.60	65.25	26.90	26.90	7/8-14UNF
C12BHU	3/4"	15.75	43.40	79.00	38.10	38.10	1 1/4-18UNF
C16BHU	1"	22.10	47.10	86.00	44.40	44.40	1 1/2-20UN

TBW Body

Part No.	Head Size	E	B	L	F HEX Flat	F1 HEX Flat	M
C4TWC	1/4"	4.35	33.00	56.60	19.05	19.05	9/16-18UNF
C8TWC	1/2"	10.22	37.60	65.25	26.90	26.90	7/8-14UNF
C12TWC	3/4"	15.75	43.40	79.00	38.10	38.10	1 1/4-18UNF
C16TWC	1"	22.10	47.10	86.00	44.40	44.40	1 1/2-20UN

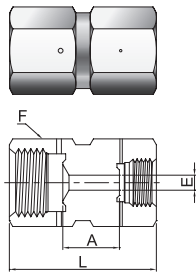
TBW Bulkhead Connector

Part No.	Head Size	D	E	B	B1	L	F HEX Flat	F1 HEX Flat	M1
C4TBHC	1/4"	6.35	4.35	19.05	33.00	59.85	19.05	19.05	9/16-18UNF
C8TBHC	1/2"	12.70	10.22	19.05	37.60	65.25	26.90	26.90	7/8-14UNF
C12TBHC	3/4"	19.05	15.75	19.05	43.25	71.30	38.10	38.10	1 1/4-18UNF

Coupling

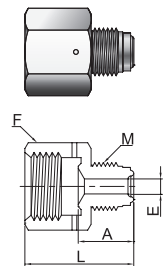
Part No.	Tube Size	F HEX Flat	L	Part No.	Tube Size	F HEX Flat	L
C2CG	1/8"	11.11	16.8	C12CG	3/4"	38.10	42.7
C4CG	1/4"	19.05	30.2	C16CG	1"	44.45	51.8
C8CG	1/2"	26.98	33.3				

FACE SEAL FITTINGS



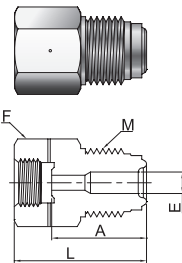
Double Female Reducing Union

Part No.	Head Size	Head Size	E	F HEX Flat	A	L
C4-2FRU	1/4"	1/8"	3.3	15.88	9.1	29.5
C8-4FRU	1/2"	1/4"	6.4	26.98	8.9	35.8



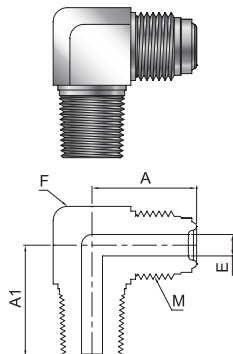
Reducing Adapter

Part No.	Head Size	Head Size	E	F HEX Flat	A	L	M
C2-4RA	1/8"	1/4"	3.3	15.88	9.1	29.5	5/16-24UNF
C4-2RA	1/4"	1/2"	6.4	26.98	8.9	35.8	9/16-18UNF



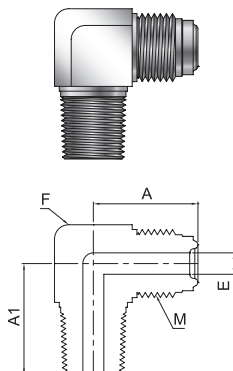
Reducing Bushing

Part No.	Head Size	Head Size	E	F HEX Flat	A	L	M
C2-4RB	1/4"	1/8"	3.3	19.05	19.3	26.9	9/16-18UNF
C4-2RB	1/2"	1/4"	6.4	23.81	23.1	35.8	7/8-14UNF



Male Elbow (NPT)

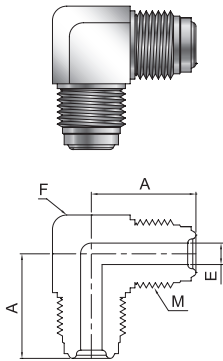
Part No.	Head Size	NPT Size	E	A	A1	F Body Cube	M
C4-4N-ME	1/4"	1/4"	4.35	27.18	27.18	15.9	9/16-18UNF
C8-6N-ME	1/2"	3/8"	10.22	36.83	32.00	23.8	7/8-14UNF
C8-8N-ME	1/2"	1/2"	10.22	36.83	36.83	23.8	7/8-14UNF
C12-12N-ME	3/4"	3/4"	15.75	48.80	43.50	33.3	1 1/4-18UNF



Male Elbow (PT)

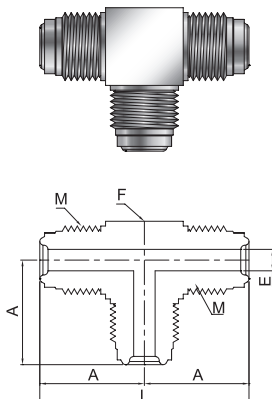
Part No.	Head Size	NPT Size	E	A	A1	F Body Cube	M
C4-4R-ME	1/4"	1/4"	4.35	27.18	27.18	15.9	9/16-18UNF
C8-6R-ME	1/2"	3/8"	10.22	36.83	32.00	23.8	7/8-14UNF
C8-8R-ME	1/2"	1/2"	10.22	36.83	36.83	23.8	7/8-14UNF
C12-12R-ME	3/4"	3/4"	15.75	48.80	43.50	33.3	1 1/4-18UNF

SUPERLOK CLEAN FITTINGS
FACE SEAL FITTINGS



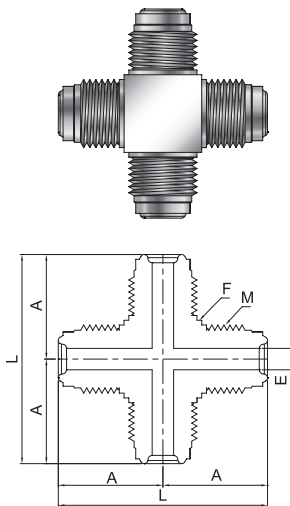
Union Elbow

Part No.	Head Size	E	A	F Body Cube	M
C4UE	1/4"	4.35	27.18	15.9	9-16-18UNF
C8UE	1/2"	10.22	36.83	23.8	7/8-14UNF
C12UE	3/4"	15.75	48.77	33.3	1 1/4-18UNEF
C16UE	1"	22.10	50.80	42.2	1 1/2-20UN



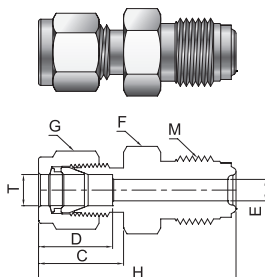
Union Tee

Part No.	Socket Size	E	A	L	L	M
C4UT	1/4"	4.35	27.18	54.36	15.9	9/16-18UNF
C8UT	1/2"	10.22	36.83	79.66	23.8	7/8-14UNF
C12UT	3/4"	15.75	48.77	97.54	33.3	1 1/4-18UNEF
C16UT	1"	22.10	50.80	101.60	42.2	1 1/2-20UN



Union Cross

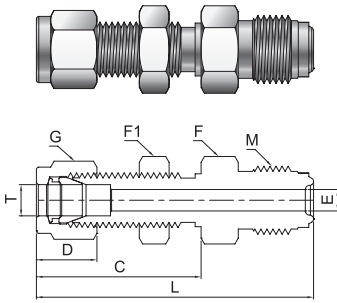
Part No.	Socket Size	E	A	L	L	M
C4CR	1/4"	4.35	27.18	54.36	15.9	9/16-18UNF
C8CR	1/2"	10.22	36.83	79.66	23.8	7/8-14UNF
C12CR	3/4"	15.75	48.77	97.54	33.3	1 1/4-18UNEF
C16CR	1"	22.10	50.80	101.60	42.2	1 1/2-20UN



Tube Fitting Connector

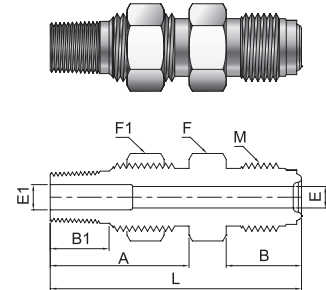
Part No.	Tube Size	Head Size	C	D	E	F HEX Flat	G HEX Flat	H	T	M
C2-4SC	1/8"	1/4"	15.20	12.70	4.35	15.90	11.11	38.9	1/8	9/16-18UNF
C4-4SC	1/4"	1/4"	17.80	15.20	4.35	15.90	14.29	41.1	1/4	9/16-18UNF
C6-8SC	3/8"	1/2"	19.30	16.80	10.22	23.81	17.46	46.7	3/8	7/8-14UNF
C8-8SC	1/2"	1/2"	21.80	22.90	10.22	23.81	22.23	49.5	1/2	7/8-14UNF

FACE SEAL FITTINGS



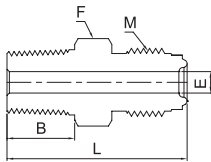
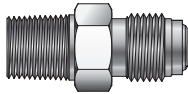
Tube Fitting Bulkhead Connector

Part No.	Tube Size	Head Size	A	D	E	F HEX Flat	F1 HEX Flat	G HEX Flat	L	T	M
C4-4 BHSC	1/4"	1/4"	33.5	15.20	4.35	15.87	15.87	14.28	57.2	1/4"	9/16-18UNF
C6-8 BHSC	3/8"	1/2"	36.8	16.80	7.53	23.81	19.05	17.46	64.5	3/8"	7/8-14UNF
C8-8 BHSC	1/2"	1/2"	41.9	22.90	10.22	23.81	23.81	22.22	69.5	1/2"	7/8-14UNF



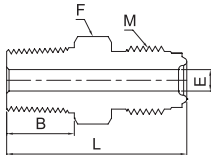
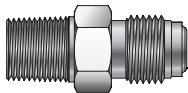
Male Bulkhead Connector (NPT)

Part No.	Head Size	NPT Size	B	B1	E	E1	F HEX Flat	F1 HEX Flat	A	L	M
C4-4N -BHMC	1/4"	1/4"	15.7	14.2	4.35	7.1	20.63	20.63	31.5	56.1	9/16-18UNF
C8-4N -BHMC	1/2"	1/4"	19.1	14.2	10.22	7.1	23.81	20.63	31.5	59.4	7/8-14UNF



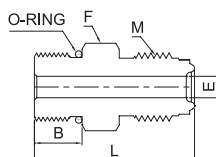
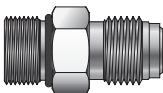
Male Connector (PT)

Part No.	Head Size	PT Size	E	B	L	F HEX Flat	M
C2-2R -MC	1/8"	1/8"	2.30	9.60	27.20	11.11	5/16-24UNF
C4-2R -MC	1/4"	1/8"	4.35	9.60	33.30	15.90	9/16-18UNF
C4-4R -MC	1/4"	1/4"	4.35	14.22	37.84	15.90	9/16-18UNF
C8-4R -MC	1/2"	1/4"	10.22	14.22	41.87	23.80	7/8-14UNF
C8-6R -MC	1/2"	3/8"	7.53	14.22	41.87	23.80	7/8-14UNF
C8-8R -MC	1/2"	1/2"	10.22	19.05	46.74	23.80	7/8-14UNF
C12-12R -MC	3/4"	3/4"	15.75	19.05	55.63	33.30	1 1/4-18UNEF
C16-16R -MC	1"	1"	22.10	23.88	62.74	42.20	1 1/2-20UN



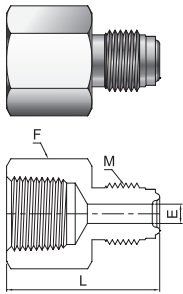
Male Connector (NPT)

Part No.	Head Size	PT Size	E	B	L	F HEX Flat	M
C2-2N -MC	1/8"	1/8"	2.30	9.60	27.20	11.11	5/16-24UNF
C4-2N -MC	1/4"	1/8"	4.35	9.60	33.30	15.90	9/16-18UNF
C4-4N -MC	1/4"	1/4"	4.35	14.22	37.84	15.90	9/16-18UNF
C8-4N -MC	1/2"	1/4"	10.22	14.22	41.87	23.80	7/8-14UNF
C8-6N -MC	1/2"	3/8"	7.53	14.22	41.87	23.80	7/8-14UNF
C8-8N -MC	1/2"	1/2"	10.22	19.05	46.74	23.80	7/8-14UNF
C12-12N -MC	3/4"	3/4"	15.75	19.05	55.63	33.30	1 1/4-18UNEF
C16-16N -MC	1"	1"	22.10	23.88	62.74	42.20	1 1/2-20UN



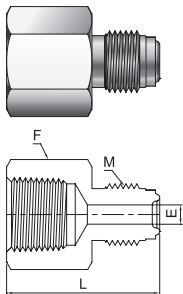
Male Connector (ST)

Part No.	Head Size	ST Size	E	B	L	F HEX Flat	M
C4-6U -MC	1/4"	9/16-18UNF	4.35	9.90	33.80	19.05	9/16-18UNF
C8-10U -MC	1/2"	7/8-14UNF	10.22	12.70	42.20	25.40	7/8-14UNF
C8-6U -MC	1/2"	9/16-18UNF	10.22	9.90	37.60	23.80	7/8-14UNF
C12-14U -MC	3/4"	1 3/16-12UNF	15.75	15.00	51.50	34.90	1 1/4-18UNEF



Female Connector (PT)

Part No.	Head Size	PT Size	E	L	F HEX Flat	M
C2-2R -FC	1/8"	1/8"	2.30	30.20	14.28	5/16-24UNF
C4-2R -FC	1/4"	1/8"	4.35	35.80	15.90	9/16-18UNF
C4-4R -FC	1/4"	1/4"	4.35	39.10	19.05	9/16-18UNF
C8-6R -FC	1/2"	3/8"	7.53	44.70	23.81	7/8-14UNF
C8-8R -FC	1/2"	1/2"	10.22	50.50	26.98	7/8-14UNF
C12-12R -FC	3/4"	3/4"	15.75	59.90	33.33	1 1/4-18UNEF
C16-16R -FC	1"	1"	22.10	63.80	41.27	1 1/2-20UN

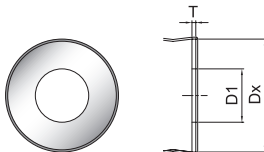


Female Connector (NPT)

Part No.	Head Size	PT Size	E	L	F HEX Flat	M
C2-2N -FC	1/8"	1/8"	2.30	30.20	14.28	5/16-24UNF
C4-2N -FC	1/4"	1/8"	4.35	35.80	15.90	9/16-18UNF
C4-4N -FC	1/4"	1/4"	4.35	39.10	19.05	9/16-18UNF
C8-6N -FC	1/2"	3/8"	7.53	44.70	23.81	7/8-14UNF
C8-8N -FC	1/2"	1/2"	10.22	50.50	26.98	7/8-14UNF
C12-12N -FC	3/4"	3/4"	15.75	59.90	33.33	1 1/4-18UNEF
C16-16N -FC	1"	1"	22.10	63.80	41.27	1 1/2-20UN

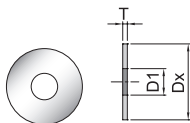
Gaskets

Gasket Retainer Assembly



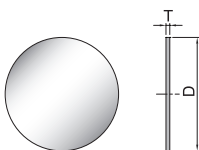
Part No.	Head Size	T	D1	Dx
C4GR	1/4"	0.80	5.60	11.85
C8GR	1/2"	0.80	11.2	19.27
C12GR	3/4"	0.80	16.7	27.90
C16GR	1"	0.80	22.6	34.20

Gasket



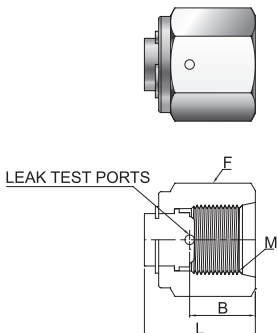
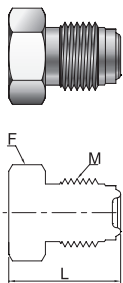
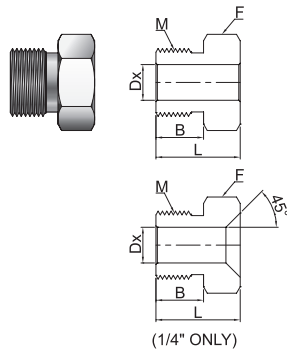
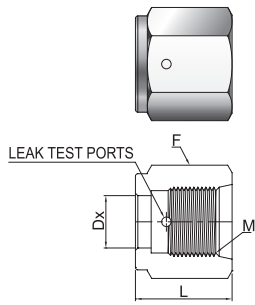
Part No.	Head Size	T	D1	Dx
C2GT	1/8"	0.80	2.30	6.60
C4GT	1/4"	0.80	5.60	12.70
C8GT	1/2"	0.80	11.20	19.80
C12GT	3/4"	0.80	16.70	29.00
C16GT	1"	0.80	22.60	35.80

Bland Gasket



Part No.	Head Size	T	D1
C4BG	1/4"	0.80	11.90
C8BG	1/2"	0.80	19.80
C12BG	3/4"	0.80	28.90
C16BG	1"	0.80	35.50

FACE SEAL FITTINGS



Nuts, Caps and Plugs

Female Nut

Part No.	Head Size	L	Dx	F Hex Flat	M
C2FN	1/8"	13.50	5.30	11.11	5/16-24UNF
C4FN	1/4"	20.50	9.10	19.05	9/16-18UNF
C8FN	1/2"	22.30	15.50	26.99	7/8-14UNF
C12FN	3/4"	28.40	22.60	38.10	1 1/4-18UNEF
C16FN	1"	34.00	30.50	44.45	1 1/2-20UN

Male Nut

Part No.	Head Size	L	B	Dx	F Hex Flat	M
C2MN	1/8"	12.70	8.20	5.30	9.52	5/16-24UNF
C4MN	1/4"	18.00	11.00	9.10	15.88	9/16-18UNF
C4MNS	1/4"	13.70	11.00	9.10	15.88	9/16-18UNF
C8MN	1/2"	20.50	12.70	15.50	23.81	7/8-14UNF
C12MN	3/4"	25.40	16.00	22.60	33.34	1 1/4-18UNEF
C16MN	1"	30.20	20.00	30.50	41.28	1 1/2-20UN

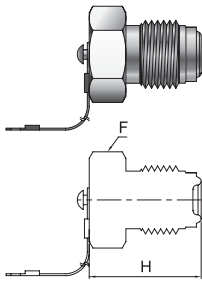
*C4MNS : Short Male Nut 1/4" Only

Plug

Part No.	Head Size	L	F Hex Flat	M
C2PG	1/8"	17.30	9.52	5/16-24UNF
C4PG	1/4"	23.37	15.88	9/16-18UNF
C8PG	1/2"	27.43	23.81	7/8-14UNF
C12PG	3/4"	36.32	33.34	1 1/4-18UNEF
C16PG	1"	38.61	41.28	1 1/2-20UN

Cap

Part No.	Head Size	L	B	F Hex Flat	M
C2CP	1/8"	16.00	7.60	11.11	5/16-24UNF
C4CP	1/4"	24.20	11.18	19.05	9/16-18UNF
C8CP	1/2"	25.50	11.43	26.99	7/8-14UNF
C12CP	3/4"	32.77	13.72	38.10	1 1/4-18UNEF
C16CP	1"	39.12	16.00	44.45	1 1/2-20UN

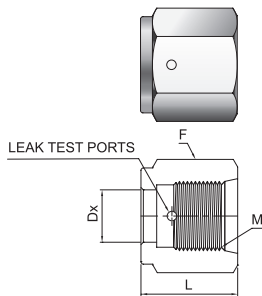


Plug (Cable Type)

Part No.	Head Size	F	H	Cable Length
C4PGC	1/4"	15.88	23.37	260
C8PGC	1/2"	23.81	27.43	260

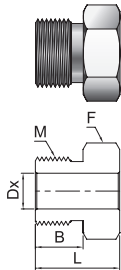
High - Flow Connection - "H" Type

HMFS Female Nut



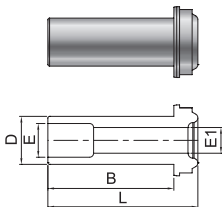
Part No.	Head Size	F	Dx	F HEX Flat	M
C4HFN	1/4"	20.57	9.90	19.05	9/16-18UNF

HMFS Male Nut



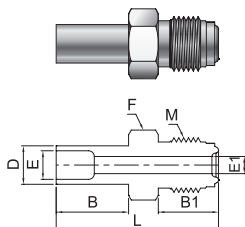
Part No.	Head Size	B	L	Dx	F HEX Flat	M
C4HMN	1/4"	11.00	20.57	9.90	15.88	9/16-18UNF

HMFS Long Gland



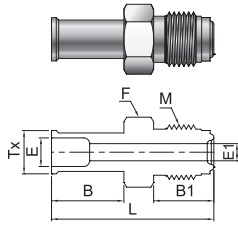
Part No.	Head Size	Tube Size	D	B	L	E	E1
C4-HLG	1/4"	3/8"	9.53	28.40	33.20	7.50	6.28

HMFS TBW Body



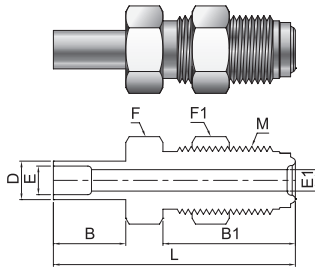
Part No.	Head Size	Tube Size	D	E	E1	B	B1	L	F HEX Flat	M
C4-6HTB	1/4"	3/8"	9.53	7.50	6.35	19.05	15.80	42.75	15.88	9/16-18UNF

FACE SEAL FITTINGS



HMFS ABW Body

Part No.	Head Size	Tube Size	B	B1	D	E	E1	L	Tx	F HEX Flat	M
C4-6HAB	1/4"	3/8"	19.05	15.80	0.80	7.90	6.35	43.35	10.40	15.88	9/16-18UNF

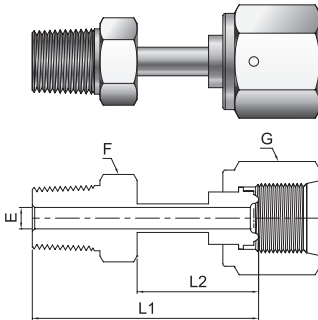


HMFS Bulkhead Connector

Part No.	Head Size	Tube Size	B	B1	D	E	E1	L	F HEX Flat	F1 HEX Flat	M
C4-6BHC	1/4"	3/8"	19.05	33.00	9.53	7.50	6.35	59.85	19.05	19.05	9/16-18UNF

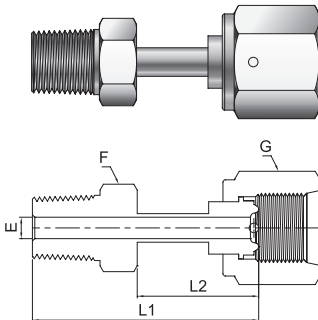
Welded Assemblies

Welded Male Connector (PT)



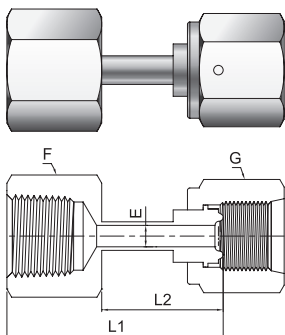
Part No.	Head Size	PT Size	E	L	L1	F HEX Flat	G HEX Flat
C4-2R-WMC	1/4"	1/8"	4.35	40.10	24.10	11.11	19.05
C4-4R-WMC	1/4"	1/4"	4.35	45.50	23.40	14.29	19.05
C8-6R-WMC	1/2"	3/8"	7.53	48.00	25.40	17.46	26.99
C8-8R-WMC	1/2"	1/2"	10.22	53.10	25.60	22.23	26.99

Welded Male Connector (NPT)



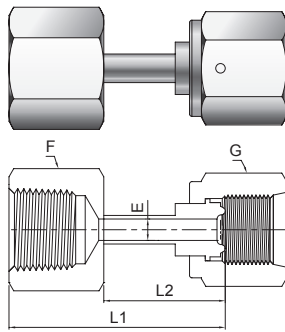
Part No.	Head Size	PT Size	E	L	L1	F HEX Flat	G HEX Flat
C4-2N-WMC	1/4"	1/8"	4.35	40.10	24.10	11.11	19.05
C4-4N -WMC	1/4"	1/4"	4.35	45.50	23.40	14.29	19.05
C8-6N -WMC	1/2"	3/8"	7.53	48.00	25.40	17.46	26.99
C8-8N -WMC	1/2"	1/2"	10.22	53.10	25.60	22.23	26.99

Welded Female Connector (PT)



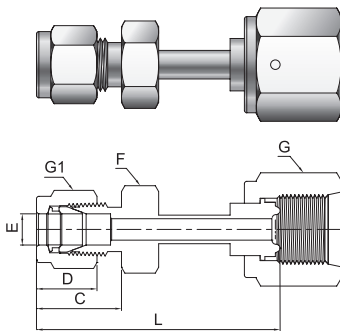
Part No.	Head Size	PT Size	E	L	L1	F HEX Flat	G HEX Flat
C4-4R -WFC	1/4"	1/4"	4.35	45.00	23.40	19.05	19.05
C8-6R -WFC	1/2"	3/8"	7.53	49.50	26.90	22.23	26.99
C8-8R -WFC	1/2"	1/2"	10.22	55.40	26.40	26.99	26.99

SUPERLOK CLEAN FITTINGS
FACE SEAL FITTINGS



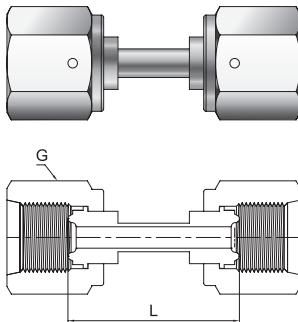
Welded Female Connector (NPT)

Part No.	Head Size	PT Size	E	L	L1	F HEX Flat	G HEX Flat
C4-4N -WFC	1/4"	1/4"	4.35	45.00	23.40	19.05	19.05
C8-6N -WFC	1/2"	3/8"	7.53	49.50	26.90	22.23	26.99
C8-8N -WFC	1/2"	1/2"	10.22	55.40	26.40	26.99	26.99



Welded Lok Connector

Part No.	Head Size	Tube Size	C	D	E	L	F HEX Flat	G HEX Flat	G1 HEX Flat
C4-4 WSC	1/4"	1/4"	17.78	15.24	4.35	49.28	12.70	19.00	17.00
C4-6 WSC	1/4"	3/8"	19.30	16.76	7.53	50.04	15.88	19.00	19.00
C8-8 WSC	1/2"	1/2"	21.84	22.86	10.22	56.64	20.64	26.00	19.00



Welded Female Union

Part No.	Head Size	L	G HEX Flat
C4WFU	1/4"	43.40	19.05
C8WFU	1/2"	46.70	26.99

ORDERING INFORMATION

Weldign and Metal Face Seal Fittings

- Ordering Information

C
Clean
Fittings**4**
Size**E**
Product**6**
Tube
Length**- P -**
Surface Lenel**S**
Material

- Size

O.D (Inch)	1/8	1/4	3/8	1/2	3/4	1
Identify	2	4	6	8	12	16

- Tube Length

Lenghy (mm)	6.35	10.00	19.05	22.50	24.50
Identify	6	10	19	22	24

- Inner Surface Level

	BA	EP
Identify	Nil	P

- Material

	316L Stainless Steel	Single Melting 316L Stainless Steel	Double Melting 316L Stainless Steel
Identify	Nil	S	D

- Product

Identify	Product	Identify	Product	Identify	Product
R	Reducer	E	Elbow	T	Tee
RE	Reducing Elbow	HE	45° Elbow	RT	Reducing Tee
CR	Cross	TW	Tribow	FG	Female Gland
MG	Male Gland	AFG	ATW Female Long Gland	AMG	ATW Male Long Gland
SSG	Socket Weld Short Gland	SLG	Socket Weld Long Gland	RSLG	Reducing Socket Weld Gland
BG	Blind Gland	MWG	Male Weld Gland	TA	Tube Adapter
MU	Double Male Union	MRU	Double Male Reducing Union	BHU	Bulkhead Union
TB	TBW Body	TBHC	TBW Bulkhead Connector	CG	Coupling
FRU	Double Female Reducing Union	RA	Reducing Adapter	RB	Reducing Bushing
ME	Male Elbow	UE	Union Elbow	UT	Union Tee
SC	Tube Fitting Connector	BHSC	Tube Fitting Bulkhead Connector	MC	Male Connector
FC	Female Connector	GR	Gasket Tetainer Assembly	GT	Gasket
BG	Blind Gasket	FN	Female Nut	MN	Male Nut
PG	Plug	CP	Cap	PGC	Plut (Cable Type)
HFN	HMFS Female Nut	HMN	HMFS Male Nut	HLG	HMFS Long Gland
HTB	HMFS TBW Body	HAB	HMFS ABW Body	BHHC	HMFS Bulkhead Connector
WMC	Welded Male Connector	WFC	Welded Female Connector	WSC	Welded Lok Connector
WFC	Welded Female Union	BHMC	Male Bulkhead Connector		

Valve Series

- Key Operation Ball Valves
- Key Operation Needle Valves
- Ball Valves
- Integral Bonnet Needle Valves
- Union Bonnet Needle Valves
- Check Valves
- High Pressure Check Valves
- High Pressure Needle Valves
- Plug Valves
- Manifold Valves
- Vacuum Clamps
- Water Regulators
- Flexible Hoses
- Double Block & Bleed Valves
- Swing-Out Ball Valves
- Toggle Valves
- Bleed & Purge Valves
- Quick Connectors
- High Pressure Ball Valves
- Hydraulic Ball Valves
- Trunnion Ball Valves
- Rising Plug Valves
- Relief Valves
- Cryogenic Needle Valves
- Cryogenic Ball Valves
- Micron in-Line Filters
- Gauge Root Valves
- Hydraulic Flange and Components

Fitting Series

Tube Fittings (Compression Type)
Instrument Thread Fittings
Forged Fittings
Bite Type Tube Fittings (DIN2353)
Bite Type Tube Fittings (JIS B2351)
37 Flared Tube Fittings (SAE J514)
O-Ring Face Seal Fittings
Hose Connectors & Push-On Hose Fittings

Electric

MCPD(Molded Case Power Distributor)

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