

UHP Fittings (Clean Fittings)

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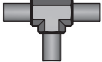
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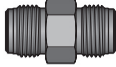
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Technical Data

Pressure Ratings

- Pressure ratings are based on allowable stress value of 20,000psi as specified in ASME B31.3 for 316 stainless steel.
- Pressure ratings of Metal Face Seal Fittings determined at room temperature with gasket materials shown.
- For pressure ratings of ASME B31.1, multiply working pressure by 0.94.
- Allowable working pressure at temperatures greater than 100°F (37°C) may be determined by multiple factors in the table below.

Material	SS316	SS316L
Temperature, °F (°C)	Factor	
-20 (28) to 100 (37)	1.00	1.00
200 (93)	1.00	0.83
400 (204)	0.96	0.77
600 (315)	0.85	0.67
800 (426)	0.79	0.62
1000 (537)	0.76	0.56

Cleaning and Packaging

- Passivation in a nitric environment
- Ultra-sonic cleaning with minimum 18M of D.I water after passivation.
- All fittings are double packaged in the clean room.
- Sealing parts are protected with a plastic cap.

Temperature Ratings

Components	Material	Temperature °F (°C)
Fittings	316 Stainless Steel & 316L Stainless Steel	1000 (537)
	316L Stainless Steel Single Melt	
	316L Stainless Steel Double Melt	
Gaskets	316L Stainless Steel	1000 (537)
	Nickel	600 (315)

Materials

Material	Designator	Specifications
316 Stainless Steel	S6	Bar Stock : ASTM A479 ASTM A276
316L Stainless Steel	S6L	Forging : ASTM A182
316L Stainless Steel Single Melt (VOD)	S6LS	Bar Stock : ASTM A479 ASTM A276
316L Stainless Steel Double Melt (VAR)	S6LV	Forging : ASTM A182 SEMI SPEC. F20-0706E
316L Stainless Steel Double Melt (VIM/VAR)	S6LVV	JIS SPEC. Chemical Composition

Product Grade

Level	Inner Surface Roughness	
	Ra	Ry
EP	≤ 5 μ inch	≤ 0.7 μm
BA	≤ 10 μ inch	≤ 3.0 μm
AP	≤ 100 μ inch	≤ 25 μm

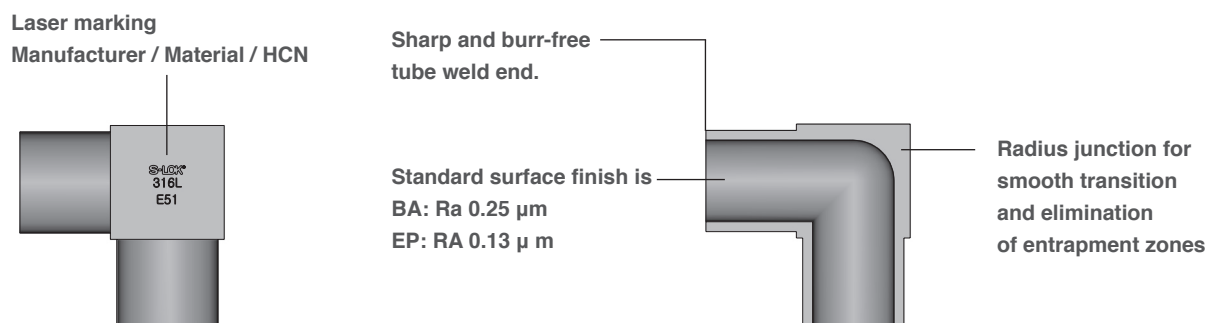
Chemical Composition

Element	Composition, Wt%									
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	Al
SS316L Singe Melt	≤ 0.03	≤ 1.0	≤ 0.8	≤ 0.045	≤ 0.005	12.0~15.0	16.0~18.0	2.0~3.0	≤ 0.3	-
SS316L Double Melt	≤ 0.025	≤ 0.3	≤ 0.4	≤ 0.045	≤ 0.005	14.5~15.0	16.0~17.0	2.2~2.5	≤ 0.03	≤ 0.01
SS316L VIM/VAR	≤ 0.01	≤ 0.2	≤ 0.05	≤ 0.02	≤ 0.003	14.5~15.0	16.5~17.0	2.2~2.5	≤ 0.2	≤ 0.01

Micro Weld Fittings

Features

- Compact design for mainly gas line
- Suitable for miniature tubing system
- Allows close component spacing
- Provides flow capacity equal to larger weld fittings

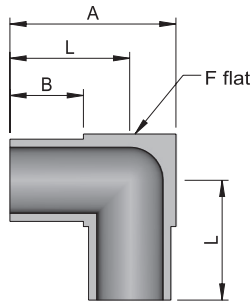


Ordering Information



Clean Fitting	Product Type	Connection Size	Product Grade	Body Material
- C : S-LOK UHP Product	Refer to the basic ordering number in the dimension table.	- 4 : 1/4" - 6 : 3/8" - 8 : 1/2" - 12 : 3/4" - 6M : 6mm - 8M : 8mm - 10M : 10mm - 12M : 12mm	- BA : BA - EP : EP	- S6LS : SS316L Single Melt - S6LV : SS316L Double Melt - S4 : SS304

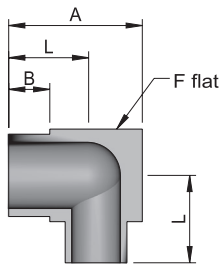
Micro Elbow



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-ML-4	1/4"	1mm	14.29 (0.56)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-ML-6	3/8"	1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-ML-8	1/2"	0.049"	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-ML-12	3/4"	0.065"	27.00 (1.06)	6.35 (0.25)	16.68 (0.66)	20.64 (13/16)	165 (2400)
C-ML-6M	6mm	1mm	14.29 (0.56)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	420 (6095)
C-ML-8M	8mm	1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-ML-10M	10mm	1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	240 (3483)
C-ML-12M	12mm	1mm	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-ML-4T35	1/4"	0.035"	14.29 (0.56)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-ML-6T35	3/8"	0.035"	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-ML-12T49	3/4"	0.049"	27.00 (1.06)	6.35 (0.25)	16.68 (0.66)	20.64 (13/16)	165 (2400)

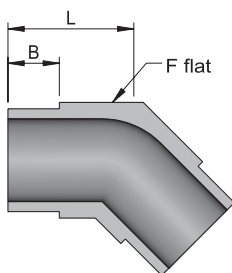
Micro Reducing Elbow



Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MRL-6-4	3/8" x 1mm	1/4" x 1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MRL-8-4	1/2" x 0.049"	1/4" x 1mm	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MRL-8-6	1/2" x 0.049"	3/8" x 1mm	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	227 (3300)
C-MRL-8M-6M	8mm x 1mm	6mm x 1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-MRL-12M-6M	12mm x 1mm	6mm x 1mm	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)
C-MRL-12M-8M	12mm x 1mm	8mm x 1mm	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MRL-6-4-035	3/8" x 0.035"	1/4" x 0.035"	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MRL-8-4T35	1/2" x 0.049"	1/4" x 0.035"	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MRL-8-6T35	1/2" x 0.049"	3/8" x 0.035"	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	227 (3300)

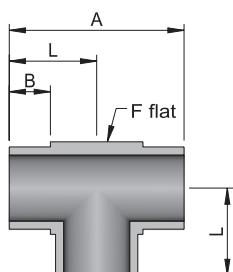
Micro 45° Elbow



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)
			B	L	F	
C-MLB-4	1/4"	1mm	6.35 (0.25)	10.10 (0.40)	7.94 (5/16)	351 (5100)
C-MLB-6	3/8"	1mm	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MLB-8	1/2"	0.049"	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MLB-6M	6mm	1mm	6.35 (0.25)	10.10 (0.40)	7.94 (5/16)	420 (6095)
C-MLB-8M	8mm	1mm	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-MLB-10M	10mm	1mm	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	240 (3483)
C-MLB-12M	12mm	1mm	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)
			B	L	F	
C-MLB-4T35	1/4"	0.035"	6.35 (0.25)	10.10 (0.40)	7.94 (5/16)	351 (5100)
C-MLB-6T35	3/8"	0.035"	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)

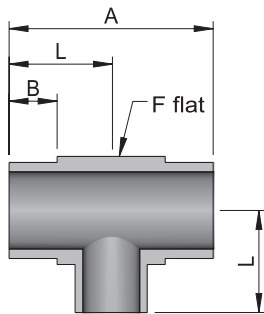
Micro Tee



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MT-4	1/4"	1mm	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MT-6	3/8"	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MT-8	1/2"	0.049"	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MT-12	3/4"	0.065"	33.35 (1.31)	6.35 (0.25)	16.68 (0.66)	20.64 (13/16)	165 (2400)
C-MT-6M	6mm	1mm	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	420 (6095)
C-MT-8M	8mm	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-MT-10M	10mm	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	240 (3483)
C-MT-12M	12mm	1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MT-4T35	1/4"	0.035"	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MT-6T35	3/8"	0.035"	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MT-12T49	3/4"	0.049"	33.35 (1.31)	6.35 (0.25)	16.68 (0.66)	20.64 (13/16)	165 (2400)

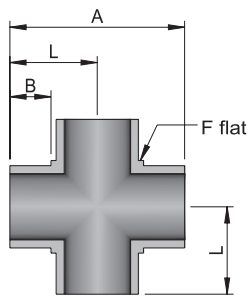
Micro Reducing Tee



Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MRT-6-4	3/8" x 1mm	1/4" x 1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MRT-8-4	1/2" x 0.049"	1/4" x 1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MRT-8-6	1/2" x 0.049"	3/8" x 1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	227 (3300)
C-MRT-8M-6M	8mm x 1mm	6mm x 1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-MRT-12M-6M	12mm x 1mm	6mm x 1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)
C-MRT-12M-8M	12mm x 1mm	8mm x 1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MRT-6-4-035	3/8" x 0.035"	1/4" x 0.035"	23.81 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MRT-8-4T35	1/2" x 0.049"	1/4" x 0.035"	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MRT-8-6T35	1/2" x 0.049"	3/8" x 0.035"	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	227 (3300)

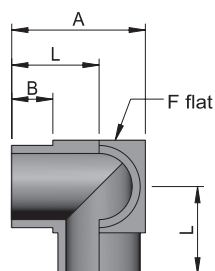
Micro Cross



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MX-4	1/4"	1mm	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MX-6	3/8"	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MX-8	1/2"	0.049"	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)
C-MX-6M	6mm	1mm	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	420 (6095)
C-MX-8M	8mm	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	310 (4499)
C-MX-10M	10mm	1mm	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	240 (3483)
C-MX-12M	12mm	1mm	26.99 (1.06)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	200 (2902)

Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MX-4T35	1/4"	0.035"	20.64 (0.81)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MX-6T35	3/8"	0.035"	23.81 (0.94)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)

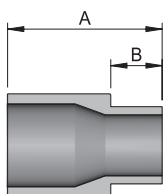
Micro Tribow



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MTB-4	1/4"	1mm	14.29 (0.56)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MTB-6	3/8"	1mm	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)
C-MTB-8	1/2"	0.049"	20.64 (0.81)	6.35 (0.25)	13.50 (0.53)	14.29 (9/16)	254 (3700)

Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-MTB-4T35	1/4"	0.035"	14.29 (0.56)	6.35 (0.25)	10.32 (0.41)	7.94 (5/16)	351 (5100)
C-MTB-6T35	3/8"	0.035"	17.46 (0.69)	6.35 (0.25)	11.91 (0.47)	11.11 (7/16)	227 (3300)

Micro Reducing Union



Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)		Pressure Rating bar (psig)
			A	B	
C-MRU-6-4	3/8" x 1mm	1/4" x 1mm	19.05 (0.75)	6.35 (0.25)	227 (3300)
C-MRU-8-4	1/2" x 0.049"	1/4" x 1mm	19.05 (0.75)	6.35 (0.25)	254 (3700)
C-MRU-8-6	1/2" x 0.049"	3/8" x 1mm	19.05 (0.75)	6.35 (0.25)	227 (3300)
C-MRU-8M-6M	8mm x 1mm	6mm x 1mm	19.05 (0.75)	6.35 (0.25)	310 (4499)
C-MRU-10M-6M	10mm x 1mm	6mm x 1mm	19.05 (0.75)	6.35 (0.25)	240 (3483)
C-MRU-10-8M	10mm x 1mm	8mm x 1mm	19.05 (0.75)	6.35 (0.25)	240 (3483)
C-MRL-12M-6M	12mm x 1mm	6mm x 1mm	19.05 (0.75)	6.35 (0.25)	200 (2902)
C-MRL-12M-8M	12mm x 1mm	8mm x 1mm	19.05 (0.75)	6.35 (0.25)	200 (2902)
C-MRU-12M-10M	12mm x 1mm	10mm x 1mm	19.05 (0.75)	6.35 (0.25)	200 (2902)

Basic Ordering Number	Tube O.D1 x Wall THK.	Tube O.D1 x Wall THK.	Dimensions, mm (inch)		Pressure Rating bar (psig)
			A	L	
C-MRU-6-4-035	3/8" x 0.035"	1/4" x 0.035"	19.05 (0.75)	6.35 (0.25)	227 (3300)
C-MRU-8-4T35	1/2" x 0.049"	1/4" x 0.035"	19.05 (0.75)	6.35 (0.25)	254 (3700)
C-MRU-8-6T35	1/2" x 0.049"	3/8" x 0.035"	19.05 (0.75)	6.35 (0.25)	227 (3300)
C-MRU-8M-6M	8mm x 1mm	6mm x 1mm	19.05 (0.75)	6.35 (0.25)	310 (4499)

Tube Butt Weld Fittings

Features

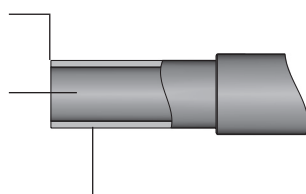
- Square, sharp, burr-free tube weld ends
- Laser marking – Manufacturer, Material, HCN
- Machined for optimal tube butt welding suitable automatic TIG welder.

Tube Butt Weld Fitting

Sharp and burr-free tube weld end.

Standard surface finish is
BA: Ra 0.25 μm
EP: RA 0.13 μm

Precisely finished diameter matches tube diameter.

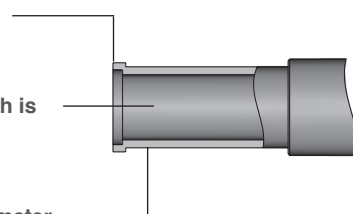


Automatic Tube Butt Weld Fitting

Sharp and burr-free tube weld end.

Standard surface finish is
BA: Ra 0.25 μm
EP: RA 0.13 μm

Precisely finished diameter matches tube diameter.

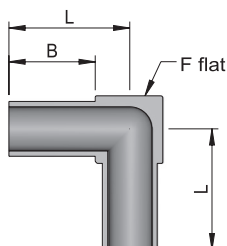


Ordering Information



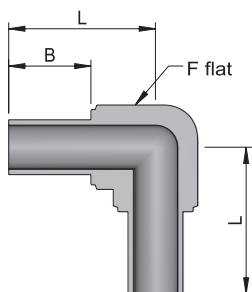
Clean Fitting	Product Type	Connection Size	Product Grade	Body Material
- C : S-LOK UHP Product	Refer to the basic ordering number in the dimension table.	- 4 : 1/4" - 6 : 3/8" - 8 : 1/2" - 12 : 3/4" - 16 : 1" - 6M : 6mm - 8M : 8mm - 10M : 10mm - 12M : 12mm - 18M : 18mm	- BA : BA - EP : EP	- S6LS : SS316L Single Melt - S6LV : SS316L Double Melt - S4 : SS304

Long Elbow



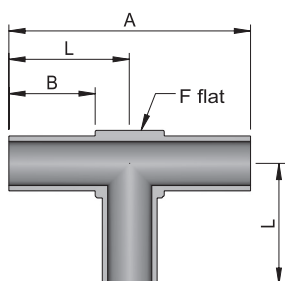
Basic Ordering Number	Tube O.D.	Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)
			B	L	F	
C-LL-4	1/4"	1mm	20.00 (0.79)	25.00 (0.98)	10.00 (0.39)	351 (5100)
C-LL-6	3/8"	1mm	20.00 (0.79)	26.00 (1.02)	12.50 (0.49)	227 (3300)
C-LL-8	1/2"	0.049"	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	254 (3700)
C-LL-12	3/4"	0.065"	23.00 (0.91)	34.00 (1.34)	22.00 (0.87)	165 (2400)
C-LL-16	1"	0.065"	23.50 (0.93)	37.50 (1.48)	28.50 (1.12)	165 (2400)
C-LL-6M	6mm	1mm	20.00 (0.79)	25.00 (0.98)	10.00 (0.39)	420 (6095)
C-LL-8M	8mm	1mm	20.00 (0.79)	26.00 (1.02)	12.50 (0.49)	310 (4499)
C-LL-10M	10mm	1mm	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	240 (3483)
C-LL-12M	12mm	1mm	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	200 (2902)
C-LL-18M	18mm	1.5mm	23.00 (0.91)	34.00 (1.34)	22.00 (0.87)	200 (2902)

Long Elbow - Type S



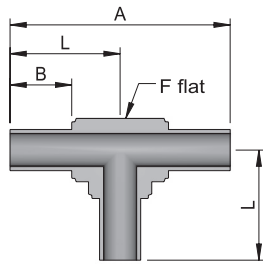
Basic Ordering Number	Tube O.D.	Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)
			B	L	F	
C-LLS-4	1/4"	0.035"	19.05 (0.75)	31.2 (1.23)	11.11 (7/16)	351 (5100)
C-LLS-6	3/8"	0.035"	19.05 (0.75)	30.5 (1.20)	11.11 (7/16)	227 (3300)
C-LLS-8	1/2"	0.049"	19.05 (0.75)	34.0 (1.34)	17.46 (11/16)	254 (3700)
C-LLS-12	3/4"	0.049"	19.05 (0.75)	37.1 (1.46)	23.81 (15/16)	165 (2400)
C-LLS-6M	6mm	1mm	19.05 (0.75)	31.2 (1.23)	11.11 (7/16)	420 (6095)
C-LLS-8M	8mm	1mm	19.05 (0.75)	31.2 (1.23)	11.11 (7/16)	310 (4499)
C-LLS-10M	10mm	1mm	19.05 (0.75)	34.0 (1.34)	17.46 (11/16)	240 (3483)
C-LLS-12M	12mm	1mm	19.05 (0.75)	34.0 (1.34)	17.46 (11/16)	200 (2902)
C-LLS-18M	18mm	1.5mm	19.05 (0.75)	37.6 (1.48)	23.81 (15/16)	200 (2902)

Long Tee



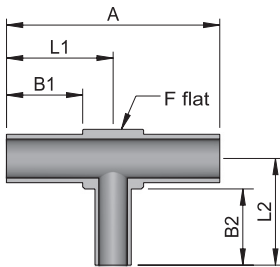
Basic Ordering Number	Tube O.D.	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-LT-4	1/4"	1mm	50.00 (1.97)	20.00 (0.79)	25.00 (0.98)	10.00 (0.39)	351 (5100)
C-LT-6	3/8"	1mm	52.00 (2.05)	20.00 (0.79)	26.00 (1.02)	12.50 (0.49)	227 (3300)
C-LT-8	1/2"	0.049"	56.00 (2.20)	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	254 (3700)
C-LT-12	3/4"	0.065"	68.00 (2.68)	23.00 (0.91)	34.00 (1.34)	22.00 (0.87)	165 (2400)
C-LT-16	1"	0.065"	75.00 (2.95)	23.50 (0.93)	37.50 (1.48)	28.50 (1.12)	165 (2400)
C-LT-6M	6mm	1mm	50.00 (1.97)	20.00 (0.79)	25.00 (0.98)	10.00 (0.39)	420 (6095)
C-LT-8M	8mm	1mm	52.00 (2.05)	20.00 (0.79)	26.00 (1.02)	12.50 (0.49)	310 (4499)
C-LT-10M	10mm	1mm	56.00 (2.20)	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	240 (3483)
C-LT-12M	12mm	1mm	56.00 (2.20)	20.00 (0.79)	28.00 (1.10)	16.00 (0.63)	200 (2902)
C-LT-18M	18mm	1.5mm	68.00 (2.68)	23.00 (0.91)	34.00 (1.34)	22.00 (0.87)	200 (2902)

Long Tee - Type S



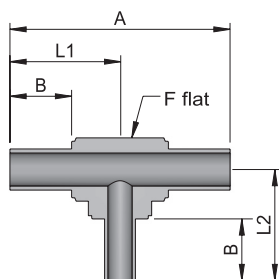
Basic Ordering Number	Tube O.D.	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-LTS-4	1/4"	0.035"	62.5 (2.46)	19.05 (0.75)	31.25 (1.23)	11.11 (7/16)	351 (5100)
C-LTS-6	3/8"	0.035"	61.00 (2.40)	19.05 (0.75)	30.5 (1.20)	11.11 (7/16)	227 (3300)
C-LTS-8	1/2"	0.049"	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	254 (3700)
C-LTS-12	3/4"	0.049"	74.20 (2.92)	19.05 (0.75)	37.10 (1.46)	23.81 (15/16)	165 (2400)
C-LTS-6M	6mm	1mm	62.50 (2.46)	19.05 (0.75)	31.25 (1.23)	11.11 (7/16)	420 (6095)
C-LTS-8M	8mm	1mm	62.50 (2.46)	19.05 (0.75)	31.25 (1.23)	11.11 (7/16)	310 (4499)
C-LTS-10M	10mm	1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	240 (3483)
C-LTS-12M	12mm	1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	200 (2902)
C-LTS-18M	18mm	1.5mm	75.20 (2.96)	19.05 (0.75)	37.60 (1.48)	23.81 (15/16)	200 (2902)

Long Reducing Tee



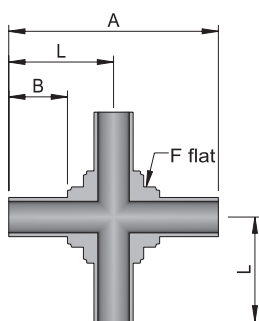
Basic Ordering Number	Tube O.D 1 x Wall THK.	Tube O.D 2 x Wall THK.	Dimensions, mm (inch)						Pressure Rating bar (psig)
			A	B1	B2	L1	L2	F	
C-LRT-6-4	3/8" x 1mm	1/4" x 1mm	52.00 (2.05)	20.00 (0.79)	20.00 (0.79)	26.00 (1.02)	26.00 (1.02)	12.50 (0.49)	227 (3300)
C-LRT-8-4	1/2" x 0.049"	1/4" x 1mm	56.00 (2.20)	20.00 (0.79)	20.00 (0.79)	28.00 (1.10)	28.00 (1.10)	16.00 (0.63)	254 (3700)
C-LRT-8-6	1/2" x 0.049"	3/8" x 1mm	56.00 (2.20)	20.00 (0.79)	20.00 (0.79)	28.00 (1.10)	28.00 (1.10)	16.00 (0.63)	227 (3300)
C-LRT-12-4	3/4" x 0.065"	1/4" x 1mm	68.00 (2.68)	23.00 (0.91)	20.00 (0.79)	34.00 (1.34)	31.00 (1.22)	22.00 (0.87)	165 (2400)
C-LRT-12-6	3/4" x 0.065"	3/8" x 1mm	68.00 (2.68)	23.00 (0.91)	20.00 (0.79)	34.00 (1.34)	31.00 (1.22)	22.00 (0.87)	165 (2400)
C-LRT-12-8	3/4" x 0.065"	1/2" x 0.049"	68.00 (2.68)	23.00 (0.91)	20.00 (0.79)	34.00 (1.34)	31.00 (1.22)	22.00 (0.87)	165 (2400)
C-LRT-16-4	1" x 0.065"	1/4" x 1mm	75.00 (2.95)	23.50 (0.93)	20.00 (0.79)	37.50 (1.48)	34.00 (1.34)	28.50 (1.12)	165 (2400)
C-LRT-16-6	1" x 0.065"	3/8" x 1mm	75.00 (2.95)	23.50 (0.93)	20.00 (0.79)	37.50 (1.48)	34.00 (1.34)	28.50 (1.12)	165 (2400)
C-LRT-16-8	1" x 0.065"	1/2" x 0.049"	75.00 (2.95)	23.50 (0.93)	20.00 (0.79)	37.50 (1.48)	34.00 (1.34)	28.50 (1.12)	165 (2400)
C-LRT-16-12	1" x 0.065"	3/4" x 0.06"	75.00 (2.95)	23.50 (0.93)	23.00 (0.91)	37.50 (1.48)	37.00 (1.46)	28.50 (1.12)	165 (2400)

Long Reducing Tee - Type S



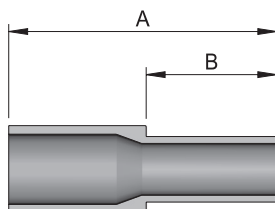
Basic Ordering Number	Tube O.D 1 x Wall THK.	Tube O.D 2 x Wall THK.	Dimensions, mm (inch)					Pressure Rating bar (psig)
			A	B	L1	L2	F	
C-LRTS-6-4	3/8" x 0.035"	1/4" x 0.035"	61.00 (2.40)	19.05 (0.75)	30.50 (1.20)	31.20 (1.23)	11.11 (7/16)	227 (3300)
C-LRTS-8-4	1/2" x 0.049"	1/4" x 0.035"	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.00 (1.34)	17.46 (11/16)	254 (3700)
C-LRTS-8-6	1/2" x 0.049"	3/8" x 0.035"	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.30 (1.35)	17.46 (11/16)	227 (3300)
C-LRTS-12-4	3/4" x 0.049"	1/4" x 0.035"	74.20 (2.92)	19.05 (0.75)	37.10 (1.46)	34.30 (1.35)	23.81 (15/16)	165 (2400)
C-LRTS-12-6	3/4" x 0.049"	1/4" x 0.035"	74.20 (2.92)	19.05 (0.75)	37.10 (1.46)	37.60 (1.48)	23.81 (15/16)	165 (2400)
C-LRTS-8M-6M	8mm x 1mm	6mm x 1mm	62.50 (2.46)	19.05 (0.75)	31.25 (1.23)	31.30 (1.23)	11.11 (7/16)	310 (4499)
C-LRTS-10M-6M	10mm x 1mm	6mm x 1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.00 (1.34)	17.46 (11/16)	240 (3483)
C-LRTS-10M-8M	10mm x 1mm	8mm x 1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.00 (1.34)	17.46 (11/16)	200 (2902)
C-LRTS-12M-6M	12mm x 1mm	6mm x 1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.00 (1.34)	17.46 (11/16)	200 (2902)
C-LRTS-12M-8M	12mm x 1mm	8mm x 1mm	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	34.00 (1.34)	17.46 (11/16)	200 (2902)

Long Cross - Type S



Basic Ordering Number	Tube O.D	Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)
			A	B	L	F	
C-LXS-4	1/4"	0.035"	62.5 (2.46)	19.05 (0.75)	31.25 (1.23)	11.11 (7/16)	351 (5100)
C-LXS-6	3/8"	0.035"	61.00 (2.40)	19.05 (0.75)	30.5 (1.20)	11.11 (7/16)	227 (3300)
C-LXS-8	1/2"	0.049"	68.00 (2.68)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	254 (3700)
C-LXS-6M	6mm	1mm	62.20 (2.45)	19.05 (0.75)	31.10 (1.22)	11.11 (7/16)	420 (6095)
C-LXS-8M	8mm	1mm	62.20 (2.45)	19.05 (0.75)	31.10 (1.22)	11.11 (7/16)	310 (4499)
C-LXS-10M	10mm	1mm	64.80 (2.55)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	240 (3483)
C-LXS-12M	12mm	1mm	64.80 (2.55)	19.05 (0.75)	34.00 (1.34)	17.46 (11/16)	200 (2902)

Long Reducing Union



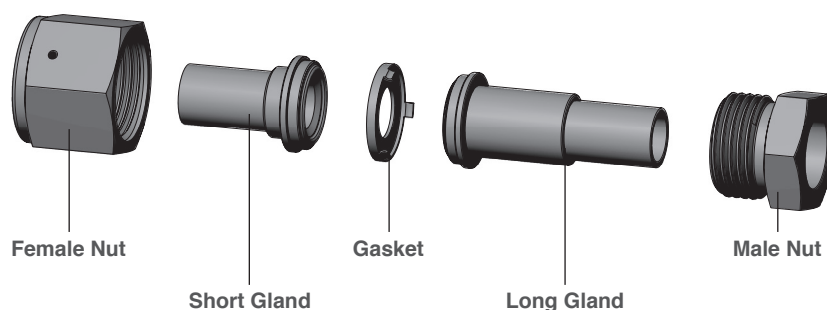
Basic Ordering Number	Tube O.D 1 x Wall THK.	Tube O.D 2 x Wall THK.	Dimensions, mm (inch)		Pressure Rating bar (psig)
			A	B	
C-LRU-6-4	3/8" x 1mm	1/4" x 1mm	39.00 (1.54)	19.00 (0.75)	227 (3300)
C-LRU-8-4	1/2" x 0.049"	1/4" x 1mm	39.00 (1.54)	19.00 (0.75)	254 (3700)
C-LRU-8-6	1/2" x 0.049"	3/8" x 1mm	39.00 (1.54)	19.00 (0.75)	227 (3300)
C-LRU-12-4	3/4" x 0.065"	1/4" x 1mm	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-12-6	3/4" x 0.065"	3/8" x 1mm	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-12-8	3/4" x 0.065"	1/2" x 0.049"	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-16-4	1" x 0.065"	1/4" x 1mm	44.50 (1.75)	19.00 (0.75)	165 (2400)
C-LRU-16-6	1" x 0.065"	3/8" x 1mm	44.50 (1.75)	19.00 (0.75)	165 (2400)
C-LRU-16-8	1" x 0.065"	1/2" x 0.049"	44.50 (1.75)	19.00 (0.75)	165 (2400)
C-LRU-16-12	1" x 0.065"	3/4" x 0.065"	48.50 (1.91)	19.00 (0.75)	165 (2400)
C-LRU-8M-6M	8mm x 1mm	6mm x 1mm	39.00 (1.54)	19.00 (0.75)	310 (4499)
C-LRU-10M-6M	10mm x 1mm	6mm x 1mm	39.00 (1.54)	19.00 (0.75)	240 (3483)
C-LRU-10M-8M	10mm x 1mm	8mm x 1mm	39.00 (1.54)	19.00 (0.75)	240 (3483)
C-LRU-12M-6M	12mm x 1mm	6mm x 1mm	39.00 (1.54)	19.00 (0.75)	200 (2902)
C-LRU-12M-8M	12mm x 1mm	8mm x 1mm	39.00 (1.54)	19.00 (0.75)	200 (2902)
C-LRU-12M-10M	12mm x 1mm	10mm x 1mm	39.00 (1.54)	19.00 (0.75)	200 (2902)
C-LRU-18M-6M	18mm x 1.5mm	6mm x 1mm	42.90 (1.69)	19.00 (0.75)	200 (2902)
C-LRU-18M-8M	18mm x 1.5mm	8mm x 1mm	42.90 (1.69)	19.00 (0.75)	200 (2902)
C-LRU-18M-10M	18mm x 1.5mm	10mm x 1mm	42.90 (1.69)	19.00 (0.75)	200 (2902)
C-LRU-18M-12M	18mm x 1.5mm	12mm x 1mm	42.90 (1.69)	19.00 (0.75)	200 (2902)

Basic Ordering Number	Tube O.D 1 x Wall THK.	Tube O.D 2 x Wall THK.	Dimensions, mm (inch)		Pressure Rating bar (psig)
			A	B	
C-LRU-6-4-035	3/8" x 0.035"	1/4" x 0.035"	39.00 (1.54)	19.00 (0.75)	227 (3300)
C-LRU-8-4T35	1/2" x 0.049"	1/4" x 0.035"	39.00 (1.54)	19.00 (0.75)	254 (3700)
C-LRU-8-6T35	1/2" x 0.049"	3/8" x 0.035"	39.00 (1.54)	19.00 (0.75)	227 (3300)
C-LRU-12T49-4T35	3/4" x 0.049"	1/4" x 0.035"	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-12T49-6T35	3/4" x 0.049"	3/8" x 0.035"	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-12T49-8T	3/4" x 0.049"	1/2" x 0.049"	42.90 (1.69)	19.00 (0.75)	165 (2400)
C-LRU-16-4T35	1" x 0.065"	1/4" x 0.035"	44.50 (1.75)	19.00 (0.75)	165 (2400)
C-LRU-16-6T35	1" x 0.065"	3/8" x 0.035"	44.50 (1.75)	19.00 (0.75)	165 (2400)
C-LRU-16-12T49	1" x 0.065"	3/4" x 0.049"	48.50 (1.91)	19.00 (0.75)	165 (2400)

Metal Face Seal Fittings

Features

- High purity metal-to-metal seal
- Leak-tight from vacuum to positive pressure
- Minimization of clearance needed for removal and installation
- Two test ports are provided for easy leak test



Testing

- Products are rated to a helium leak rate of 1×10^{-9} atm cc/sec.
- Tested in accordance with SEMI F1-96.

Plating

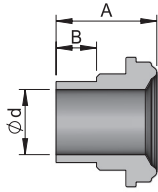
- Female nut threads are silver plated to prevent galling, ensure convenient assembly and consistent make-up.
- Chemical processes for cleaning, electro-polishing and passivation may remove plating.
- Damaged or removed plating may cause thread galling, damage of fitting components and preventing a proper seal.

Ordering Information

C	-	LGF	-	8	-	EP	-	S6LS
Clean Fitting		Product Type		Connection Size		Product Grade		Material

Clean Fitting	Product Type	Connection Size	Product Grade	Body Material
- C : S-LOK UHP Product	Refer to the basic ordering number in the dimension table.	- 4 : 1/4" - 6 : 3/8" - 8 : 1/2" - 12 : 3/4" - 16 : 1" - 6M : 6mm - 8M : 8mm - 10M : 10mm - 12M : 12mm - 18M : 18mm	- BA : BA - EP : EP	- S6LS : SS316L Single Melt - S6LV : SS316L Double Melt - S4 : SS304

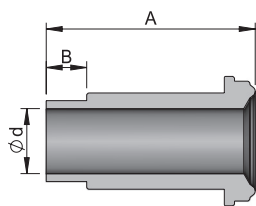
Micro Gland for Female Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-MGF-4	1/4"	1/4" x 1mm	4.35 (0.17)	15.30 (0.60)	6.35 (0.25)	351 (5100)	351 (5100)
C-MGF-6	1/2"	3/8" x 1mm	7.53 (0.30)	15.80 (0.62)	6.35 (0.25)	227 (3300)	227 (3300)
C-MGF-8-4	1/2"	1/4" x 1mm	4.35 (0.17)	15.80 (0.62)	6.35 (0.25)	241 (3500)	296 (4300)
C-MGF-8	1/2"	1/2" x 0.049"	10.22 (0.40)	15.80 (0.62)	6.35 (0.25)	241 (3500)	241 (3500)
C-MGF-4-6M	1/4"	6mm x 1mm	4.00 (0.16)	15.30 (0.60)	6.35 (0.25)	468 (6800)	468 (6800)
C-MGF-4-8M	1/4"	8mm x 1mm	6.00 (0.24)	15.30 (0.60)	6.35 (0.25)	337 (4900)	337 (4900)
C-MGF-8-10M	1/2"	10mm x 1mm	8.00 (0.31)	15.80 (0.62)	6.35 (0.25)	241 (3500)	241 (3500)
C-MGF-8-12M	1/2"	12mm x 1mm	10.00 (0.39)	15.80 (0.62)	6.35 (0.25)	213 (3100)	213 (3100)

Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-MGF-4T35	1/4"	1/4" x 0.035"	4.57 (0.18)	15.30 (0.60)	6.35 (0.25)	351 (5100)	351 (5100)
C-MGF-6T35	1/2"	3/8" x 0.035"	7.75 (0.31)	15.80 (0.62)	6.35 (0.25)	227 (3300)	227 (3300)
C-MGF-8-4T35	1/2"	1/4" x 0.035"	4.57 (0.18)	15.80 (0.62)	6.35 (0.25)	241 (3500)	296 (4300)

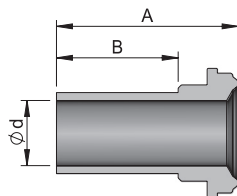
Micro Gland for Male Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-MGM-4	1/4"	1/4" x 1mm	4.35 (0.17)	30.50 (1.20)	6.35 (0.25)	351 (5100)	351 (5100)
C-MGM-6	1/2"	3/8" x 1mm	7.53 (0.30)	32.80 (1.29)	6.35 (0.25)	227 (3300)	227 (3300)
C-MGM-8-4	1/2"	1/4" x 1mm	4.35 (0.17)	32.80 (1.29)	6.35 (0.25)	241 (3500)	296 (4300)
C-MGM-8	1/2"	1/2" x 0.049"	10.22 (0.40)	32.80 (1.29)	6.35 (0.25)	241 (3500)	241 (3500)
C-MGM-4-6M	1/4"	6mm x 1mm	4.00 (0.16)	30.50 (1.20)	6.35 (0.25)	468 (6800)	468 (6800)
C-MGM-4-8M	1/4"	8mm x 1mm	6.00 (0.24)	30.50 (1.20)	6.35 (0.25)	337 (4900)	337 (4900)
C-MGM-8-10M	1/2"	10mm x 1mm	8.00 (0.31)	32.80 (1.29)	6.35 (0.25)	241 (3500)	241 (3500)
C-MGM-8-12M	1/2"	12mm x 1mm	10.00 (0.39)	32.80 (1.29)	6.35 (0.25)	213 (3100)	213 (3100)

Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-MGM-4T35	1/4"	1/4" x 0.035"	4.57 (0.18)	30.50 (1.20)	6.35 (0.25)	351 (5100)	351 (5100)
C-MGM-6T35	1/2"	3/8" x 0.035"	7.75 (0.31)	32.80 (1.29)	6.35 (0.25)	227 (3300)	227 (3300)
C-MGM-8-4T35	1/2"	1/4" x 0.035"	4.57 (0.18)	32.80 (1.29)	6.35 (0.25)	241 (3500)	296 (4300)

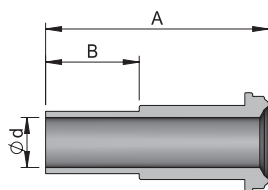
Long Gland for Female Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-LGF-4	1/4"	1/4" x 1mm	4.35 (0.17)	28.00 (1.10)	19.05 (0.75)	351 (5100)	351 (5100)
C-LGF-6	1/2"	3/8" x 1mm	7.53 (0.30)	28.50 (1.12)	19.05 (0.75)	227 (3300)	227 (3300)
C-LGF-8-4	1/2"	1/4" x 1mm	4.35 (0.17)	28.50 (1.12)	19.05 (0.75)	241 (3500)	296 (4300)
C-LGF-8	1/2"	1/2" x 0.049"	10.22 (0.40)	28.50 (1.12)	19.05 (0.75)	241 (3500)	241 (3500)
C-LGF-12-4	3/4"	1/4" x 1mm	4.35 (0.17)	30.55 (1.20)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGF-12-6	3/4"	3/8" x 1mm	7.53 (0.30)	30.55 (1.20)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGF-12-8	3/4"	1/2" x 0.049"	10.22 (0.40)	30.55 (1.20)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGF-12	3/4"	3/4" x 0.065"	15.75 (0.62)	34.50 (1.36)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGF-16-4	1"	1/4" x 1mm	4.35 (0.17)	34.15 (1.34)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16-6	1"	3/8" x 1mm	7.53 (0.30)	34.15 (1.34)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16-8	1"	1/2" x 0.049"	10.22 (0.40)	34.15 (1.34)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16-12	1"	3/4" x 0.065"	15.75 (0.62)	38.10 (1.50)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16	1"	1" x 0.065"	22.10 (0.87)	38.60 (1.52)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-4-6M	1/4"	6mm x 1mm	4.00 (0.16)	28.00 (1.10)	19.05 (0.75)	468 (6800)	468 (6800)
C-LGF-4-8M	1/4"	8mm x 1mm	6.00 (0.24)	28.00 (1.10)	19.05 (0.75)	337 (4900)	337 (4900)
C-LGF-8-10M	1/2"	10mm x 1mm	8.00 (0.31)	28.50 (1.12)	19.05 (0.75)	241 (3500)	241 (3500)
C-LGF-8-12M	1/2"	12mm x 1mm	10.00 (0.39)	28.50 (1.12)	19.05 (0.75)	213 (3100)	213 (3100)
C-LGF-12-18M	3/4"	18mm x 1.5mm	15.00 (0.59)	34.50 (1.36)	19.05 (0.75)	206 (3000)	206 (3000)

Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-LGF-4T35	1/4"	1/4" x 0.035"	4.57 (0.18)	28.00 (1.10)	19.05 (0.75)	351 (5100)	351 (5100)
C-LGF-6T35	1/2"	3/8" x 0.035"	7.75 (0.31)	28.50 (1.12)	19.05 (0.75)	227 (3300)	227 (3300)
C-LGF-8-4T35	1/2"	1/4" x 0.035"	4.57 (0.18)	28.50 (1.12)	19.05 (0.75)	241 (3500)	296 (4300)
C-LGF-12T49	3/4"	3/4" x 0.049"	16.56 (0.65)	34.50 (1.36)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGF-16-4T35	1"	1/4" x 0.035"	4.57 (0.18)	34.15 (1.34)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16-6T35	1"	3/8" x 0.035"	7.75 (0.31)	34.15 (1.34)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGF-16-12T49	1"	3/4" x 0.049"	16.56 (0.65)	38.60 (1.52)	20.00 (0.79)	165 (2400)	165 (2400)

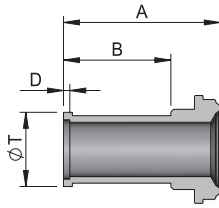
Long Gland for Male Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-LGM-4	1/4"	1/4" x 1mm	4.35 (0.17)	43.20 (1.70)	19.05 (0.75)	351 (5100)	351 (5100)
C-LGM-6	1/2"	3/8" x 1mm	7.53 (0.30)	45.50 (1.79)	19.05 (0.75)	227 (3300)	227 (3300)
C-LGM-8-4	1/2"	1/4" x 1mm	4.35 (0.17)	45.50 (1.79)	19.05 (0.75)	241 (3500)	296 (4300)
C-LGM-8	1/2"	1/2" x 0.049"	10.22 (0.40)	45.50 (1.79)	19.05 (0.75)	241 (3500)	241 (3500)
C-LGM-12-4	3/4"	1/4" x 1mm	4.35 (0.17)	47.65 (1.88)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGM-12-6	3/4"	3/8" x 1mm	7.53 (0.30)	47.65 (1.88)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGM-12-8	3/4"	1/2" x 0.049"	10.22 (0.40)	47.65 (1.88)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGM-12	3/4"	3/4" x 0.065"	15.75 (0.62)	51.60 (2.03)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGM-16-4	1"	1/4" x 1mm	4.35 (0.17)	54.45 (2.14)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16-6	1"	3/8" x 1mm	7.53 (0.30)	54.45 (2.14)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16-8	1"	1/2" x 0.049"	10.22 (0.40)	54.45 (2.14)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16-12	1"	3/4" x 0.065"	15.75 (0.62)	58.40 (2.30)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16	1"	1" x 0.065"	22.10 (0.87)	58.90 (2.32)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-4-6M	1/4"	6mm x 1mm	4.00 (0.16)	43.20 (1.70)	19.05 (0.75)	468 (6800)	468 (6800)
C-LGM-4-8M	1/4"	8mm x 1mm	6.00 (0.24)	43.20 (1.70)	19.05 (0.75)	337 (4900)	337 (4900)
C-LGM-8-10M	1/2"	10mm x 1mm	8.00 (0.31)	45.50 (1.79)	19.05 (0.75)	241 (3500)	241 (3500)
C-LGM-8-12M	1/2"	12mm x 1mm	10.00 (0.39)	45.50 (1.79)	19.05 (0.75)	213 (3100)	213 (3100)
C-LGM-12-18M	3/4"	18mm x 1.5mm	15.00 (0.59)	51.60 (2.03)	19.05 (0.75)	206 (3000)	206 (3000)

Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	B	NI	SS316L
C-LGM-4T35	1/4"	1/4" x 0.035"	4.57 (0.18)	43.20 (1.70)	19.05 (0.75)	351 (5100)	351 (5100)
C-LGM-6T35	1/2"	3/8" x 0.035"	7.75 (0.31)	45.50 (1.79)	19.05 (0.75)	227 (3300)	227 (3300)
C-LGM-8-4T35	1/2"	1/4" x 0.035"	4.57 (0.18)	45.50 (1.79)	19.05 (0.75)	241 (3500)	296 (4300)
C-LGM-12T49	3/4"	3/4" x 0.049"	16.56 (0.65)	51.60 (2.03)	19.05 (0.75)	165 (2400)	165 (2400)
C-LGM-16-4T35	1"	1/4" x 0.035"	4.57 (0.18)	54.45 (2.14)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16-6T35	1"	3/8" x 0.035"	7.75 (0.31)	54.45 (2.14)	20.00 (0.79)	165 (2400)	165 (2400)
C-LGM-16-12T49	1"	3/4" x 0.049"	16.56 (0.65)	58.40 (2.30)	20.00 (0.79)	165 (2400)	165 (2400)

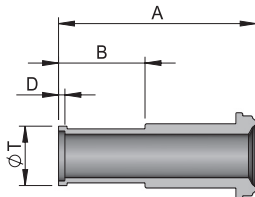
ATW Long Gland for Female Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			T	A	B	D	NI	SS316L
C-ALGF-4	1/4"	1/4" x 1mm	7.37 (0.29)	28.50 (1.12)	19.05 (0.75)	0.50 (0.02)	351 (5100)	351 (5100)
C-ALGF-6	1/2"	3/8" x 1mm	10.41 (0.41)	29.26 (1.15)	19.05 (0.75)	0.75 (0.03)	227 (3300)	227 (3300)
C-ALGF-8-4	1/2"	1/4" x 1mm	7.37 (0.29)	29.00 (1.14)	19.05 (0.75)	0.50 (0.02)	241 (3500)	241 (3500)
C-ALGF-8	1/2"	1/2" x 0.049"	13.97 (0.55)	29.52 (1.16)	19.05 (0.75)	1.02 (0.04)	241 (3500)	241 (3500)

Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			T	A	B	D	NI	SS316L
C-ALGF-4T35	1/4"	1/4" x 0.035"	7.37 (0.29)	28.50 (1.12)	19.05 (0.75)	0.50 (0.02)	351 (5100)	351 (5100)
C-ALGF-6T35	1/2"	3/8" x 0.035"	10.41 (0.41)	29.26 (1.15)	19.05 (0.75)	0.75 (0.03)	227 (3300)	227 (3300)
C-ALGF-8-4T35	1/2"	1/4" x 0.035"	7.37 (0.29)	29.00 (1.14)	19.05 (0.75)	0.50 (0.02)	241 (3500)	241 (3500)

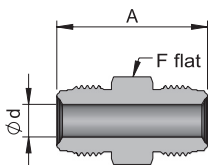
ATW Long Gland for Male Nut



Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			T	A	B	D	NI	SS316L
C-ALGM-4	1/4"	1/4" x 1mm	7.37 (0.29)	43.70 (1.72)	19.05 (0.75)	0.50 (0.02)	351 (5100)	351 (5100)
C-ALGM-6	1/2"	3/8" x 1mm	10.41 (0.41)	46.26 (1.82)	19.05 (0.75)	0.75 (0.03)	227 (3300)	227 (3300)
C-ALGM-8-4	1/2"	1/4" x 1mm	7.37 (0.29)	46.00 (1.81)	19.05 (0.75)	0.50 (0.02)	241 (3500)	241 (3500)
C-ALGM-8	1/2"	1/2" x 0.049"	13.97 (0.55)	46.52 (1.83)	19.05 (0.75)	1.02 (0.04)	241 (3500)	241 (3500)
C-ALGM-12	3/4"	3/4" x 0.065"	20.32 (0.80)	52.62 (2.07)	19.05 (0.75)	1.02 (0.04)	165 (2400)	165 (2400)
C-ALGM-16	1"	1" x 0.065"	26.92 (1.06)	59.92 (2.36)	20.00 (0.79)	1.02 (0.04)	165 (2400)	165 (2400)

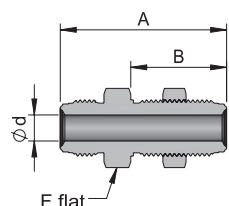
Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			T	A	B	D	NI	SS316L
C-ALGM-4T35	1/4"	1/4" x 0.035"	7.37 (0.29)	43.70 (1.72)	19.05 (0.75)	0.50 (0.02)	351 (5100)	351 (5100)
C-ALGM-6T35	1/2"	3/8" x 0.035"	10.41 (0.41)	46.26 (1.82)	19.05 (0.75)	0.75 (0.03)	227 (3300)	227 (3300)
C-ALGM-8-4T35	1/2"	1/4" x 0.035"	7.37 (0.29)	46.00 (1.81)	19.05 (0.75)	0.50 (0.02)	241 (3500)	241 (3500)
C-ALGM-12T49	3/4"	3/4" x 0.049"	20.32 (0.80)	52.62 (2.07)	19.05 (0.75)	1.02 (0.04)	165 (2400)	165 (2400)

Union



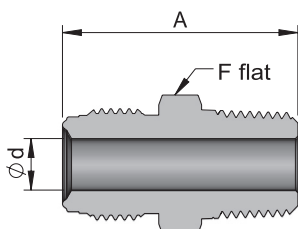
Basic Ordering Number	Head Size	Dimensions, mm (inch)			Pressure Rating bar (psig)	
		d	A	F	NI	SS316L
C-U-4	1/4"	4.57 (0.18)	39.40 (1.55)	15.88 (5/8)	551 (8000)	689 (1000)
C-U-8	1/2"	10.22 (0.40)	47.30 (1.86)	23.81 (15/16)	241 (3500)	296 (4300)
C-U-12	3/4"	15.75 (0.62)	62.00 (2.44)	33.33 (1-5/16)	206 (3000)	254 (3700)
C-U-16	1"	22.10 (0.87)	65.80 (2.59)	41.28 (1-5/8)	165 (2400)	206 (3000)

Bulkhead Union



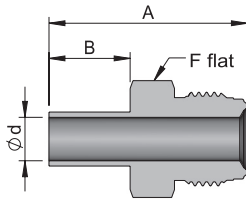
Basic Ordering Number	Head Size	Dimensions, mm (inch)				Pressure Rating bar (psig)	
		d	A	B	F	NI	SS316L
C-BU-4	1/4"	4.57 (0.18)	56.60 (2.23)	33.40 (1.31)	19.05 (3/4)	551 (8000)	689 (1000)
C-BU-8	1/2"	10.22 (0.40)	65.30 (2.57)	37.60 (1.48)	26.98 (1-1/16)	241 (3500)	296 (4300)
C-BU-12	3/4"	15.75 (0.62)	79.00 (3.11)	43.00 (1.69)	38.10 (1-1/2)	206 (3000)	254 (3700)
C-BU-16	1"	22.10 (0.87)	86.00 (3.39)	47.00 (1.85)	44.45 (1-3/4)	165 (2400)	206 (3000)

Male Connector



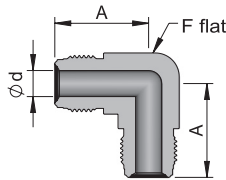
Basic Ordering Number	Head Size	NPT Size	Dimensions, mm (inch)			Pressure Rating bar (psig)	
			d	A	F	NI	SS316L
C-MC-4-4N	1/4"	1/4"	4.57 (0.18)	37.84 (1.49)	15.88 (5/8)	551 (8000)	689 (10000)
C-MC-8-4N	1/2"	1/4"	7.11 (0.28)	41.90 (1.65)	23.81 (15/16)	241 (3500)	296 (4300)
C-MC-8-6N	1/2"	3/8"	9.65 (0.38)	41.90 (1.65)	23.81 (15/16)	241 (3500)	296 (4300)
C-MC-8-8N	1/2"	1/2"	10.22 (0.40)	46.74 (1.84)	23.81 (15/16)	241 (3500)	296 (4300)
C-MC-12-4N	3/4"	1/4"	7.11 (0.28)	50.80 (2.00)	33.33 (1-5/16)	206 (3000)	254 (3700)
C-MC-12-6N	3/4"	3/8"	9.65 (0.38)	50.80 (2.00)	33.33 (1-5/16)	206 (3000)	254 (3700)
C-MC-12-8N	3/4"	1/2"	10.22 (0.40)	55.63 (2.19)	33.33 (1-5/16)	206 (3000)	254 (3700)
C-MC-12-12N	3/4"	3/4"	15.75 (0.62)	55.63 (2.19)	33.33 (1-5/16)	206 (3000)	254 (3700)
C-MC-16-4N	1"	1/4"	7.11 (0.28)	53.08 (2.09)	41.28 (1-5/8)	165 (2400)	206 (3000)
C-MC-16-6N	1"	3/8"	9.65 (0.38)	53.08 (2.09)	41.28 (1-5/8)	165 (2400)	206 (3000)
C-MC-16-8N	1"	1/2"	10.22 (0.40)	57.90 (2.28)	41.28 (1-5/8)	165 (2400)	206 (3000)
C-MC-16-12N	1"	3/4"	15.75 (0.62)	57.90 (2.28)	41.28 (1-5/8)	165 (2400)	206 (3000)
C-MC-16-16N	1"	1"	22.10 (0.87)	62.74 (2.47)	41.28 (1-5/8)	165 (2400)	206 (3000)

Tube Butt Weld Connector



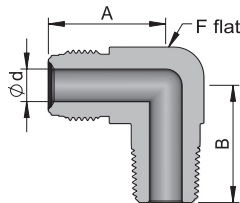
Basic Ordering Number	Head Size	Tube O.D.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			d	A	B	F	NI	SS316L
C-TC-4-4	1/4"	1/4"	4.35 (0.17)	42.67 (1.68)	19.05 (0.75)	15.88 (5/8)	351 (5100)	351 (5100)
C-TC-8-4	1/2"	1/4"	4.35 (0.17)	46.72 (1.84)	19.05 (0.75)	23.81 (15/16)	254 (3700)	254 (3700)
C-TC-8-6	1/2"	3/8"	7.53 (0.30)	46.72 (1.84)	19.05 (0.75)	23.81 (15/16)	254 (3700)	254 (3700)
C-TC-8-8	1/2"	1/2"	10.22 (0.40)	46.72 (1.84)	19.05 (0.75)	23.81 (15/16)	227 (3300)	227 (3300)

Union Elbow



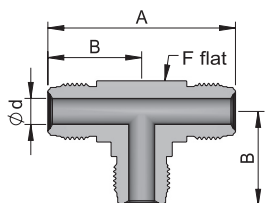
Basic Ordering Number	Head Size	Dimensions, mm (inch)			Pressure Rating bar (psig)	
		d	A	F	NI	SS316L
C-L-4	1/4"	4.57 (0.18)	27.00 (1.06)	16.00 (0.63)	551 (8000)	689 (1000)
C-L-8	1/2"	10.22 (0.40)	36.80 (1.45)	24.00 (0.94)	241 (3500)	296 (4300)
C-L-12	3/4"	15.75 (0.62)	48.77 (1.92)	33.30 (1.31)	206 (3000)	254 (3700)
C-L-16	1"	22.10 (0.87)	50.80 (2.00)	42.80 (1.69)	165 (2400)	206 (3000)

Male Elbow



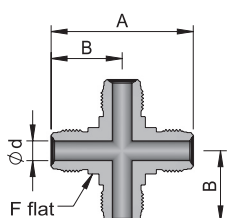
Basic Ordering Number	Head Size	NPT Size	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			d	A	B	F	NI	SS316L
C-MLC-4-4N	1/4"	1/4"	4.57 (0.18)	27.00 (1.06)	26.67 (1.05)	16.00 (0.63)	551 (8000)	551 (8000)
C-MLC-8-4N	1/2"	1/4"	4.57 (0.18)	36.80 (1.45)	26.22 (1.03)	24.00 (0.94)	241 (3500)	296 (4300)
C-MLC-8-6N	1/2"	3/8"	10.22 (0.40)	36.80 (1.45)	26.22 (1.03)	24.00 (0.94)	241 (3500)	296 (4300)
C-MLC-8-8N	1/2"	1/2"	10.22 (0.40)	36.80 (1.45)	36.83 (1.45)	24.00 (0.94)	241 (3500)	296 (4300)
C-MLC-12-4N	3/4"	1/4"	4.57 (0.18)	48.77 (1.92)	30.87 (1.22)	33.30 (1.31)	206 (3000)	254 (3700)
C-MLC-12-6N	3/4"	3/8"	10.22 (0.40)	48.77 (1.92)	30.87 (1.22)	33.30 (1.31)	206 (3000)	254 (3700)
C-MLC-12-8N	3/4"	1/2"	10.22 (0.40)	48.77 (1.92)	35.70 (1.41)	33.30 (1.31)	206 (3000)	254 (3700)
C-MLC-12-12N	3/4"	3/4"	15.75 (0.62)	48.77 (1.92)	43.50 (1.71)	33.30 (1.31)	206 (3000)	254 (3700)
C-MLC-16-4N	1"	1/4"	4.57 (0.18)	50.80 (2.00)	35.62 (1.40)	42.80 (1.69)	165 (2400)	206 (3000)
C-MLC-16-6N	1"	3/8"	10.22 (0.40)	50.80 (2.00)	35.62 (1.40)	42.80 (1.69)	165 (2400)	206 (3000)
C-MLC-16-8N	1"	1/2"	10.22 (0.40)	50.80 (2.00)	40.90 (1.61)	42.80 (1.69)	165 (2400)	206 (3000)
C-MLC-16-12N	1"	3/4"	15.75 (0.62)	50.80 (2.00)	40.90 (1.61)	42.80 (1.69)	165 (2400)	206 (3000)
C-MLC-16-16N	1"	1"	22.10 (0.87)	50.80 (2.00)	45.28 (1.78)	42.80 (1.69)	165 (2400)	206 (3000)

Union Tee



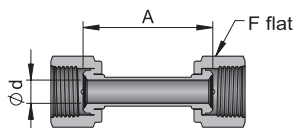
Basic Ordering Number	Head Size	Dimensions, mm (inch)				Pressure Rating bar (psig)	
		d	A	B	F	NI	SS316L
C-T-4	1/4"	4.57 (0.18)	54.00 (2.12)	27.00 (1.06)	16.00 (0.63)	551 (8000)	689 (1000)
C-T-8	1/2"	10.22 (0.40)	73.60 (2.90)	36.80 (1.45)	24.00 (0.94)	241 (3500)	296 (4300)

Union Cross



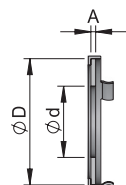
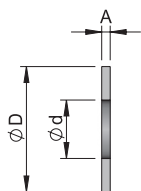
Basic Ordering Number	Head Size	Dimensions, mm (inch)				Pressure Rating bar (psig)	
		d	A	B	F	NI	SS316L
C-X-4	1/4"	4.57 (0.18)	54.00 (2.12)	27.00 (1.06)	16.00 (0.63)	551 (8000)	689 (1000)
C-X-8	1/2"	10.22 (0.40)	73.60 (2.90)	36.80 (1.45)	24.00 (0.94)	241 (3500)	296 (4300)

Close Coupling



Basic Ordering Number	Head Size	Dimensions, mm (inch)			Pressure Rating bar (psig)	
		d	A	F	NI	SS316L
C-CC-4	1/4"	4.6 (0.18)	43.4 (1.71)	19.05 (3/4)	551 (8000)	689 (1000)
C-CC-8	1/2"	10.22 (0.40)	46.7 (1.84)	26.98 (1-1/16)	241 (3500)	296 (4300)

Gasket

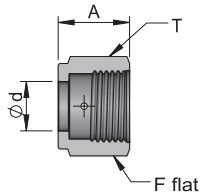


Gasket Retainer Assembly

Basic Ordering Number	Head Size	Dimensions, mm (inch)		
		D	d	A
C-GT-4	1/4"	11.84 (0.47)	5.49 (0.22)	0.75 (0.03)
C-GT-8	1/2"	19.31 (0.76)	11.70 (0.46)	0.75 (0.03)
C-GT-12	3/4"	28.00 (1.10)	16.87 (0.66)	0.75 (0.03)
C-GT-16	1"	34.12 (1.34)	22.60 (0.89)	0.75 (0.03)

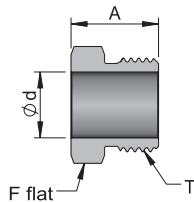
• Basic ordering number of gasket retainer assembly is "C-GTR".

I Female Nut



Basic Ordering Number	Head Size	Dimensions, mm (inch)			Thread T
		d	A	F	
C-NF-4	1/4"	9.10 (0.36)	20.75 (0.82)	19.05 (3/4)	9/16-18UNF
C-NF-8	1/2"	15.50 (0.61)	22.50 (0.89)	26.98 (1-1/16)	7/8-14UNF
C-NF-12	3/4"	22.60 (0.89)	28.50 (1.12)	38.10 (1-1/2)	1-1/4-18UNEF
C-NF-16	1"	30.50 (1.20)	34.00 (1.34)	44.45 (1-3/4)	1-1/2-20UN

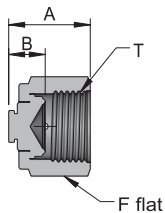
I Male Nut



Basic Ordering Number	Head Size	Dimensions, mm (inch)			Thread T
		d	A	F	
C-NM-4	1/4"	9.10 (0.36)	18.30 (0.72)	15.88 (5/8)	9/16-18UNF
C-NM-4A	1/4"	9.10 (0.36)	18.30 (0.72)	15.88 (5/8)	9/16-18UNF
C-NM-8	1/2"	15.50 (0.61)	20.00 (0.79)	23.81 (15/16)	7/8-14UNF
C-NM-12	3/4"	22.60 (0.89)	25.40 (1.00)	33.33 (1-5/16)	1-1/4-18UNEF
C-NM-16	1"	30.50 (1.20)	30.20 (1.19)	41.28 (1-5/8)	1-1/2-20UN

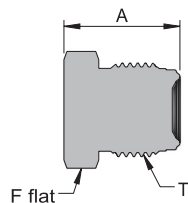
• C-NM-4A has a taper at hex end, allowing the nut to move around 90° tube bends.

I Cap



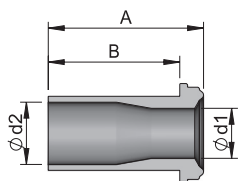
Basic Ordering Number	Head Size	Dimensions, mm (inch)			Thread T
		A	B	F	
C-CP-4	1/4"	22.90 (0.90)	11.30 (0.44)	19.05 (3/4)	9/16-18UNF
C-CP-8	1/2"	25.60 (1.01)	12.20 (0.48)	26.98 (1-1/16)	7/8-14UNF
C-CP-12	3/4"	32.80 (1.29)	13.70 (0.54)	38.10 (1-1/2)	1-1/4-18UNEF
C-CP-16	1"	39.40 (1.55)	16.00 (0.63)	44.45 (1-3/4)	1-1/2-20UN

I Plug



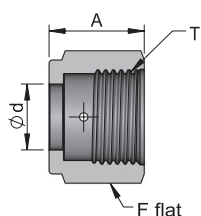
Basic Ordering Number	Head Size	Dimensions, mm (inch)		Thread T
		A	F	
C-PG-4	1/4"	23.20 (0.91)	15.88 (5/8)	9/16-18UNF
C-PG-8	1/2"	27.30 (1.07)	23.81 (15/16)	7/8-14UNF
C-PG-12	3/4"	36.30 (1.43)	33.33 (1-5/16)	1-1/4-18UNEF
C-PG-16	1"	38.60 (1.52)	41.28 (1-5/8)	1-1/2-20UN

High Flow Gland



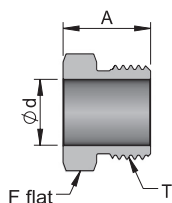
Basic Ordering Number	Head Size	Tube O.D x Wall THK.	Dimensions, mm (inch)				Pressure Rating bar (psig)	
			d1	d2	A	B	NI	SS316L
C-HG-4	1/4"	3/8" x 1mm	6.35 (0.25)	7.53 (0.30)	33.20 (1.31)	28.40 (1.12)	227 (3300)	227 (3300)
C-HG-6T35	1/2"	3/8" x 0.035"	6.35 (0.25)	7.75 (0.31)	33.20 (1.31)	28.40 (1.12)	227 (3300)	227 (3300)

High Flow Female Nut



Basic Ordering Number	Head Size	Dimensions, mm (inch)			Thread T
		d	A	F	
C-HNF-4	1/4"	9.90 (0.39)	20.75 (0.82)	19.05 (3/4)	9/16-18UNF

High Flow Male Nut



Basic Ordering Number	Head Size	Dimensions, mm (inch)			Thread T
		d	A	F	
C-HNM-4	1/4"	9.90 (0.39)	18.30 (0.72)	15.88 (5/8)	9/16-18UNF