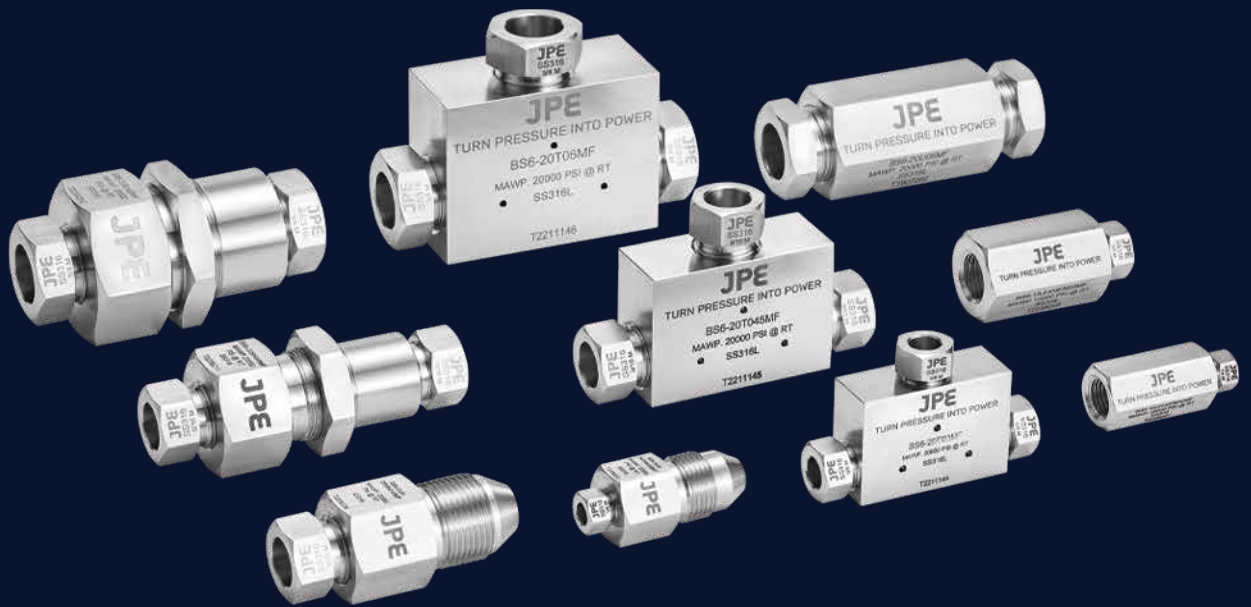


JPE



**MEDIUM-PRESSURE CONE
AND THREAD / PIPE THREAD FITTINGS**

MEDIUM-PRESSURE CONE AND THREAD FITTINGS

JPE specializes in the production of valves and fittings. Our medium-pressure series products are manufactured according to industry standards. Superior materials, excellent precision processing technology, and perfect quality control capabilities produce high-quality and reliable products. In addition, we focus more on customers' needs, and provide the best solutions at once, thus adding value with our products and services. JPE medium-pressure series products are proud to have become one of the leading brands in the international market.

The medium-pressure series products are designed to meet the demanding needs of high-pressure applications across industries such as oil and gas, process control, instrumentation, chemical sampling, waterjet cutting, etc.

The Medium Pressure (MP) series are rated to 20,000 psi

The product ratings of this catalog is calculated based on the principles of two ASME standards

- ASME B31.3, Process Piping (Based Code)
- ASME B31.3, Process Piping, Chapter IX High Pressure Piping (Chapter IX)

For this reason, some products reference two pressure ratings. It is recommended for system designers and users to understand the standards and apply the correct one when selecting products to ensure safety.



COMPATIBILITY OF CONE AND THREAD FITTINGS

JPE medium-pressure cone and thread fittings may be assembled with cone and thread fittings from other manufacturers who follow the dimensions referenced in chart 2 on Page 7

FEATURES

- Cone and thread connection provides dependable medium-pressure performance.
- Standard weep holes enable users to verify proper connection
- Glands and collars are supplied with medium-pressure fittings. Collars with left-hand threads prevent accidental disassembly

PRESSURE RATINGS

Pressure ratings are based on the end connections or other system components with the lowest pressure rating. Working pressures are calculated according to ASME B31.3, Process Piping, Chapter IX High Pressure Piping (Chapter IX)

MATERIALS OF CONSTRUCTION

- Strain-hardened 316L stainless steel
- Other materials available on request, please contact JPE sales representative

Components	Material/ASTM Standard
<i>Body</i>	316L Stainless Steel/A276
Gland	316L Stainless Steel/A276
Collar	316L Stainless Steel/A276

• Wetted parts listed in *italics*

ELEVATED TEMPERATURE FACTORS

Temperature		Elevated Temperature Factor
°C	°F	SS316L Strain-hardened SS316L B31.3 Chapter 9
-51 to 38	-60 to 100	1.0
93	200	0.98
149	300	0.93
204	400	0.88
260	500	0.85
316	600	0.84
371	700	0.82

① Elevated temperature factor = recommended allowable working pressure at elevated temperature / recommended allowable working pressure at room temperature

CLEANING AND PACKAGING

All Medium-Pressure Cone and Thread Fittings are cleaned and packaged per JPE standard CP-23

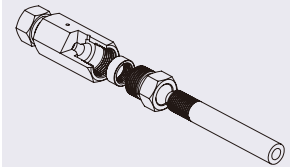
INSTALLATION INSTRUCTIONS

C&T MEDIUM PRESSURE INSTALLATION INSTRUCTIONS

- Medium Pressure Size: 1/4"-1 1/2"

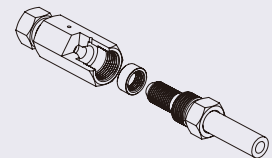
1

Lubricate all male threads with an anti-seize lubricant. Use lubricants that are compatible with the system on the cone end of the tubing.



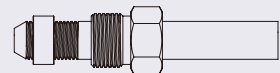
2

Slide the C&T tubing into the gland.



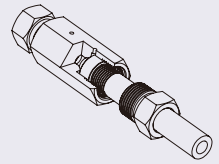
3

Thread the collar counterclockwise (with left-hand thread) onto the C&T tubing. Continue threading until 1 to 2 full threads are revealed at the cone end of the tubing.



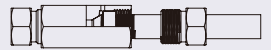
4

Put the C&T tubing with the collar into the fitting body .



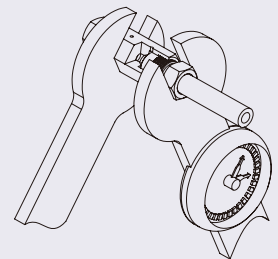
5

Make sure the cone end of the tubing rests firmly against the angled sealing surface of the fitting body .



6

Thread the gland into the fitting body until finger-tight. Secure the fitting body and tighten the gland to the required torque.



TORQUE VALUE

Fittings Size in	Required Torque ft·lb(N·m)	
	ft·lb(N·m)	ft·lb(N·m)
	Medium Pressure C&T Fitting	
1/4	20(27.2)	
3/8	30(40.7)	
9/16	55(74.6)	
3/4	90(123)	
1	150(204)	
1 1/2	200(271)	

ORDERING INFORMATION

CLASSIFICATION & MATERIAL	WORKING PRESSURE	PRODUCT NAME	THREAD SIZE	MP C&T TUBE SIZE
BS6: SS316L FITTING	10 : 10000 psi	JH : ADAPTER	01 : 1/8"	02 : 1/4"
	15 : 15000 psi	BH : BULKHEAD UNION	02 : 1/4"	03 : 3/8"
	20 : 20000 psi	P : PIPE PLUG	03 : 3/8"	045 : 9/16"
		T : TEE	04 : 1/2"	06 : 3/4"
		E : ELBOW	06 : 3/4"	08 : 1"
		U : COUPLING	08 : 1"	014 : 1 1/2"
		X : CROSS		
		C : CAP		
		ST : STREET TEE		
		BT : BRANCH TEE		

DIMENSION-CONE AND THREAD END CONNECTION

Dimensions are for reference only and subject to change

Fitting Size	Size, mm (in.)				
	A	B	C	D	E
Medium Pressure: 20 000 psig(1378 bar)					
1/4	9.9 (0.39)	7/16-20	7.1 (0.28)	12.7 (0.50)	2.8 (0.11)
3/8	13.2 (0.52)	9/16-18	9.7 (0.38)	16.0 (0.63)	5.1 (0.20)
9/16	19.0 (0.75)	13/16-16	11.2 (0.44)	19.0 (0.75)	7.9 (0.31)
3/4	24.1 (0.95)	3/4-14 NPSM	17.8 (0.70)	23.9 (0.94)	11.2 (0.44)
1	33.0 (1.30)	1 3/8-12	20.6 (0.81)	33.3 (1.31)	14.2 (0.56)
Medium Pressure: 15 000 psig(1034 bar)					
1 1/2	45.8 (1.80)	1 7/8-12	25.4 (1.00)	40.6 (1.60)	23.8 (0.94)

MM

02

MM

CONNECTION TYPE

DIMENSION

THREAD SIZE

MP C&T
TUBE SIZE

CONNECTION TYPE

FN : FEMALE NPT

01 : 1/8"

02 : 1/4"

FN : FEMALE NPT

FR : FEMALE PT

02 : 1/4"

03 : 3/8"

FR : FEMALE PT

MN : MALE NPT

03 : 3/8"

045 : 9/16"

MN : MALE NPT

MR : MALE PT

04 : 1/2"

06 : 3/4"

MR : MALE PT

MM : MALE MP C&T

06 : 3/4"

08 : 1"

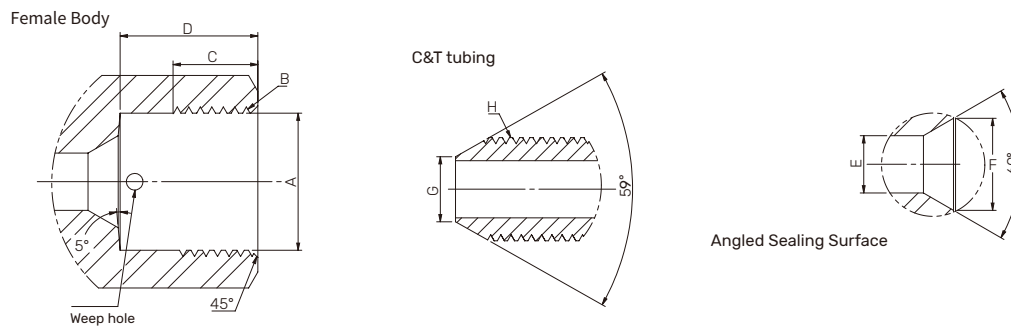
MM : MALE MP C&T

MF : FEMALE MP C&T

08 : 1"

014 : 1 1/2"

MF : FEMALE MP C&T



Fitting Size	Size, mm (in.)			
	F	G	H	Tube Engagement Length
Medium Pressure: 20 000 psig(1378 bar)				
1/4	4.6 (0.19)	3.6 (0.14)	1/4-28	14.2 (0.56)
3/8	9.1 (0.36)	6.4 (0.25)	3/8-24	17.5 (0.69)
9/16	12.7 (0.50)	10.4 (0.41)	9/16-18	21.3 (0.84)
3/4	16.0 (0.63)	14.2 (0.56)	3/4-16	25.4 (1.00)
1	22.4 (0.88)	18.3 (0.72)	1-14	37.3 (1.47)
1 1/2	34.3 (1.35)	28.6 (1.13)	1 1/2-12	46.0 (1.81)

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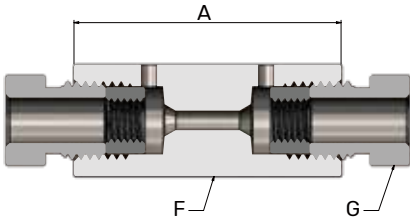
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COUPLINGS

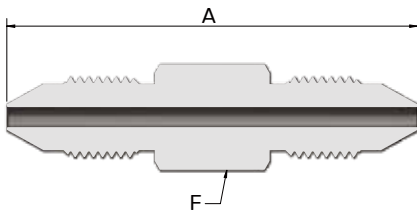
Female C&T



Tubing OD in.	PART NO.	A mm (in.)	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20U02MF	38.1 (1.50)	5/8	1/2	20000(1378)
3/8	20U03MF	44.5 (1.75)	3/4	5/8	
9/16	20U045MF	53.8 (2.12)	1	7/8	
3/4	20U06MF	63.5 (2.50)	1 3/8	1 3/16	15000(1034)
1	20U08MF	88.9 (3.50)	1 3/4	1 3/8	
1 1/2	15U014MF	111.2 (4.38)	2 1/4	1 7/8	

COUPLINGS

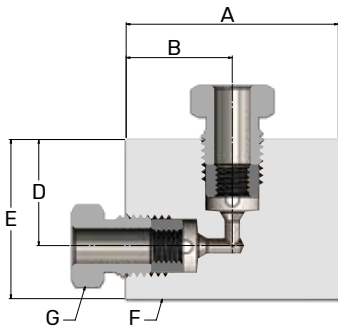
Male C&T



MALE NPT SIZE in.	PART NO.	A mm (in.)	F in.	Pressure Rating 316 SS psig (bar)
1/4	20U02MM	57.2 (2.25)	1/2	20000(1378)
3/8	20U03MM	69.6 (2.74)	5/8	
9/16	20U045MM	76.5 (3.01)	7/8	
3/4	20U06MM	90.2 (3.55)	1 3/16	15000(1034)
1	20U08MM	104.1 (4.10)	1 3/8	
1 1/2	15U014MM	138.2 (5.44)	1 7/8	

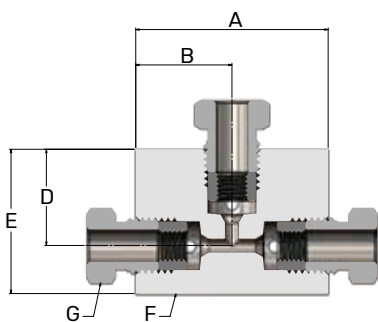
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

ELBOWS
Female C&T



Tubing OD in.	PART NO.	A mm (in.)	B mm (in.)	D mm (in.)	E in.	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20E02MF	38.1 (1.50)	19.1 (0.75)	19.1 (0.75)	1 1/8	5/8	1/2	
3/8	20E03MF	50.8 (2.00)	25.4 (1.00)	25.4 (1.00)	1 3/8	3/4	5/8	
9/16	20E045MF	63.5 (2.50)	31.8 (1.25)	31.8 (1.25)	1 3/4	1	7/8	20000(1378)
3/4	20E06MF	76.2 (3.00)	38.1 (1.50)	38.1 (1.50)	2 1/4	1 3/8	1 3/16	
1	20E08MF	105 (4.13)	52.3 (2.06)	52.3 (2.06)	3	1 3/4	1 3/8	
1 1/2	15E014MF	146 (5.75)	73.2 (2.88)	73.2 (2.88)	4	2 1/4	1 7/8	15000(1034)

TEES
Female C&T

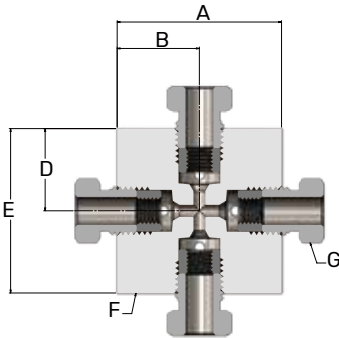


Tubing OD in.	PART NO.	A mm (in.)	B mm (in.)	D mm (in.)	E in.	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20T02MF	38.1 (1.50)	19.1 (0.75)	19.1 (0.75)	1 1/8	5/8	1/2	
3/8	20T03MF	50.8 (2.00)	25.4 (1.00)	25.4 (1.00)	1 3/8	3/4	5/8	
9/16	20T045MF	63.5 (2.50)	31.8 (1.25)	31.8 (1.25)	1 3/4	1	7/8	20000(1378)
3/4	20T06MF	76.2 (3.00)	38.1 (1.50)	38.1 (1.50)	2 1/4	1 3/8	1 3/16	
1	20T08MF	105 (4.13)	52.3 (2.06)	52.3 (2.06)	3	1 3/4	1 3/8	
1 1/2	15T014MF	146 (5.75)	73.2 (2.88)	73.2 (2.88)	4	2 1/4	1 7/8	15000(1034)

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CROSSES

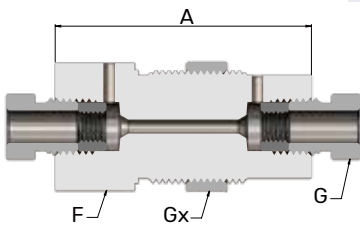
Female C&T



Tubing OD in.	PART NO.	A mm (in.)	B mm (in.)	D mm (in.)	E in.	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20X02MF	38.1 (1.50)	19.1 (0.75)	19.1 (0.75)	38.1 (1.50)	5/8	1/2	20000(1378)
3/8	20X03MF	50.8 (2.00)	25.4 (1.00)	25.4 (1.00)	50.8 (2.00)	3/4	5/8	
9/16	20X045MF	63.5 (2.50)	31.8 (1.25)	31.8 (1.25)	63.5 (2.50)	1	7/8	
3/4	20X06MF	76.2 (3.00)	38.1 (1.50)	38.1 (1.50)	76.2 (3.00)	1 3/8	1 3/16	
1	20X08MF	105 (4.13)	52.3 (2.06)	52.3 (2.06)	105 (4.13)	1 3/4	1 3/8	

BULKHEADS

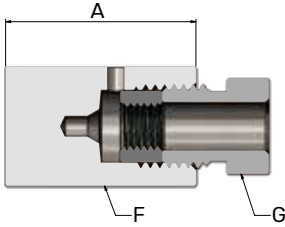
Female C&T



Tubing OD in.	PART NO.	A mm (in.)	F in.	G in.	Gx in.	PANEL ORIFICE mm (in.)	MAX PANEL THICKNESS mm (in.)	Pressure Rating 316 SS psig (bar)
1/4	20BH02MF	50.8 (2.00)	1	1/2	1	23.9 (0.94)	9.7 (0.38)	20000(1378)
3/8	20BH03MF	50.8 (2.00)	1	5/8	1	23.9 (0.94)	9.7 (0.38)	
9/16	20BH045MF	66.5 (2.62)	1 3/8	7/8	1 3/8	31.8 (1.25)	12.7 (0.50)	
3/4	20BH06MF	66.5 (2.62)	1 7/8	1 3/16	1 7/8	42.9 (1.69)	9.7 (0.38)	
1	20BH08MF	88.9 (3.50)	2 1/8	1 3/8	2 1/8	50.8 (2.00)	12.7 (0.50)	

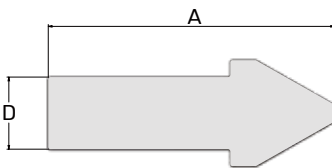
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CAPS



Tubing OD in.	PART NO.	A mm (in.)	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20C02MF	25.4 (1.00)	5/8	1/2	20000(1378)
3/8	20C03MF	31.8 (1.25)	3/4	5/8	
9/16	20C045MF	38.1 (1.50)	1	7/8	
3/4	20C06MF	44.5 (1.75)	1 3/8	1 3/16	
1	20C08MF	57.2 (2.25)	1 3/4	1 3/8	

PLUGS



Tubing OD in.	PART NO.	A mm (in.)	D in.	Pressure Rating 316 SS psig (bar)
1/4	20P02	25.4 (1.00)	1/4	20000(1378)
3/8	20P03	31.8 (1.25)	3/8	
9/16	20P045	39.6 (1.56)	9/16	
3/4	20P06	41.2 (1.62)	3/4	
1	20P08	55.6 (2.19)	1	15000(1034)
1 1/2	20P014	76.5 (3.01)	1 1/2	

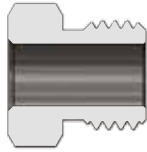
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COLLARS & GLANDS

COLLARS



GLANDS

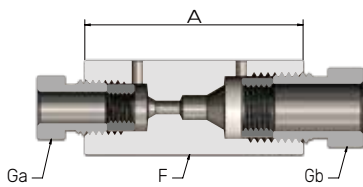


Tubing OD in.	PART NO. COLLARS	PART NO. GLANDS	Pressure Rating 316 SS psig (bar)
1/4	CL02M	GL02M	
3/8	CL03M	GL03M	
9/16	CL045M	GL045M	20000(1378)
3/4	CL06M	GL06M	
1	CL08M	GL08M	
1 1/2	CL014M	GL014M	15000(1034)

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ADAPTER

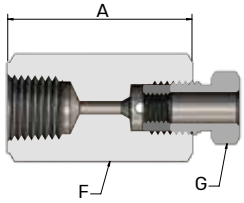
Medium-Pressure C&T to Medium-Pressure C&T



MP C&T SIZE in.	MP C&T SIZE in.	PART NO.	A mm (in.)	F in.	Ga in.	Gb in.	Pressure Rating 316 SS psig (bar)
	3/8	20JH02MF03MF	44.5 (1.75)	3/4		5/8	
1/4	9/16	20JH02MF045MF	50.8 (2.00)	1	1/2	7/8	
	3/4	20JH02MF06MF	50.8 (2.00)	1 3/8		1 3/16	
	1	20JH02MF08MF	76.2 (3.00)	1 3/4		1 3/8	
3/8	9/16	20JH03MF045MF	50.8 (2.00)	1		7/8	20000 (1378)
	3/4	20JH03MF06MF	63.5 (2.50)	1 3/8	5/8	1 3/16	
	1	20JH03MF08MF	73.2 (2.88)	1 3/4		1 3/8	
9/16	3/4	20JH045MF06MF	63.5 (2.50)	1 3/8		1 3/16	
	1	20JH045MF08MF	76.2 (3.00)	1 3/4	7/8	1 3/8	
3/4	1	20JH06MF08MF	76.2 (3.00)	1 3/4	1 3/16	1 3/8	

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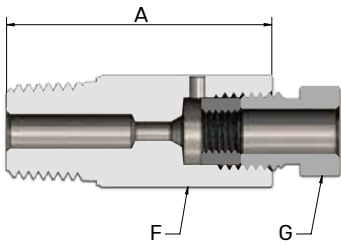
Female NPT to
Medium-Pressure C&T



FEMALE NPT SIZE in.	MP C&T SIZE in.	PART NO.	A mm (in.)	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	1/4	15JH02FN02MF	38.1 (1.50)	3/4	1/2	15000 (1034)
	3/8	15JH02FN03MF	44.5 (1.75)	3/4	5/8	
	9/16	15JH02FN045MF	44.5 (1.75)	1	7/8	
	3/4	15JH02FN06MF	44.5 (1.75)	1 3/8	1 3/16	
	1	15JH02FN08MF	60.5 (2.38)	1 3/4	1 3/8	
3/8	1/4	15JH03FN02MF	41.1 (1.62)	1	1/2	15000 (1034)
	3/8	15JH03FN03MF	42.7 (1.68)	1	5/8	
	9/16	15JH03FN045MF	50.8 (2.00)	1	7/8	
	3/4	15JH03FN06MF	60.5 (2.38)	1 3/8	1 3/16	
	1	15JH03FN08MF	62.0 (2.44)	1 3/4	1 3/8	
1/2	1/4	15JH04FN02MF	53.8 (2.12)	1 3/16	1/2	15000 (1034)
	3/8	15JH04FN03MF	53.8 (2.12)	1 3/16	5/8	
	9/16	15JH04FN045MF	57.2 (2.25)	1 3/16	7/8	
	3/4	15JH04FN06MF	63.5 (2.50)	1 3/8	1 3/16	
	1	15JH04FN08MF	76.2 (3.00)	1 3/4	1 3/8	
3/4	1/4	10JH06FN02MF	42.2 (1.66)	1 3/8	1/2	10000 (689)
	3/8	10JH06FN03MF	45.2 (1.78)	1 3/8	5/8	
	9/16	10JH06FN045MF	63.5 (2.50)	1 3/8	7/8	
	3/4	10JH06FN06MF	63.5 (2.50)	1 3/4	1 3/16	
	1	10JH06FN08MF	76.2 (3.00)	1 3/4	1 3/8	
1	1/4	10JH08FN02MF	46.7 (1.84)	1 3/4	1/2	10000 (689)
	3/8	10JH08FN03MF	50.0 (1.97)	1 3/4	5/8	
	9/16	10JH08FN045MF	62.0 (2.44)	1 3/4	7/8	
	3/4	10JH08FN06MF	62.0 (2.44)	1 3/4	1 3/16	
	1	10JH08FN08MF	88.9 (3.50)	1 3/4	1 3/8	

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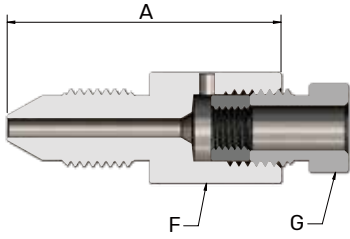
Male NPT to Medium-Pressure C&T



MALE NPT SIZE in.	Female MP C&T Size in.	PART NO.	A mm (in.)	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	1/4	15JH02MN02MF	38.1 (1.50)	5/8	1/2	15000 (1034)
	3/8	15JH02MN03MF	44.5 (1.75)	3/4	5/8	
	9/16	15JH02MN045MF	50.8 (2.00)	1	7/8	
	3/4	15JH02MN06MF	50.8 (2.00)	1 3/8	1 3/16	
	1	15JH02MN08MF	65.8 (2.59)	1 3/4	1 3/8	
3/8	1/4	15JH03MN02MF	38.1 (1.50)	3/4	1/2	15000 (1034)
	3/8	15JH03MN03MF	44.5 (1.75)	3/4	5/8	
	9/16	15JH03MN045MF	50.8 (2.00)	1	7/8	
	3/4	15JH03MN06MF	50.8 (2.00)	1 3/8	1 3/16	
	1	15JH03MN08MF	73.2 (2.88)	1 3/4	1 3/8	
1/2	1/4	15JH04MN02MF	38.1 (1.50)	1	1/2	15000 (1034)
	3/8	15JH04MN03MF	44.5 (1.75)	1	5/8	
	9/16	15JH04MN045MF	50.8 (2.00)	1	7/8	
	3/4	15JH04MN06MF	63.5 (2.50)	1 3/8	1 3/16	
	1	15JH04MN08MF	76.2 (3.00)	1 3/4	1 3/8	
3/4	1/4	10JH06MN02MF	47.8 (1.88)	1 3/8	1/2	10000 (689)
	3/8	10JH06MN03MF	47.8 (1.88)	1 3/8	5/8	
	9/16	10JH06MN045MF	57.2 (2.25)	1 3/8	7/8	
	3/4	10JH06MN06MF	63.5 (2.50)	1 3/8	1 3/16	
	1	10JH06MN08MF	76.2 (3.00)	1 3/4	1 3/8	
1	1/4	10JH08MN02MF	47.8 (1.88)	1 3/8	1/2	10000 (689)
	3/8	10JH08MN03MF	47.8 (1.88)	1 3/8	5/8	
	9/16	10JH08MN045MF	57.2 (2.25)	1 3/8	7/8	
	3/4	10JH08MN06MF	63.5 (2.50)	1 3/8	1 3/16	
	1	10JH08MN08MF	76.2 (3.00)	1 3/4	1 3/8	

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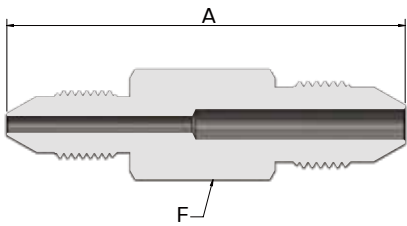
Male Medium-Pressure C&T
to Medium-Pressure C&T



MALE MP C&T SIZE in.	FEMALE MP C&T SIZE in.	PART NO.	A mm (in.)	F in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	1/4	20JH02MM02MF	39.6 (1.56)	5/8	1/2	20000 (1378)
	3/8	20JH02MM03MF	44.5 (1.75)	3/4	5/8	
	9/16	20JH02MM045MF	50.8 (2.00)	1	7/8	
	3/4	20JH02MM06MF	59.4 (2.34)	1 3/8	1 3/16	
	1	20JH02MM08MF	72.9 (2.87)	1 3/4	1 3/8	
3/8	1/4	20JH03MM02MF	47.5 (1.87)	5/8	1/2	20000 (1378)
	3/8	20JH03MM03MF	47.5 (1.87)	3/4	5/8	
	9/16	20JH03MM045MF	52.8 (2.08)	1	7/8	
	3/4	20JH03MM06MF	72.9 (2.87)	1 3/8	1 3/16	
	1	20JH03MM08MF	78.0 (3.07)	1 3/4	1 3/8	
9/16	1/4	20JH045MM02MF	47.8 (1.88)	7/8	1/2	20000 (1378)
	3/8	20JH045MM03MF	47.8 (1.88)	7/8	5/8	
	9/16	20JH045MM045MF	52.8 (2.08)	1	7/8	
	3/4	20JH045MM06MF	64.3 (2.53)	1 3/8	1 3/16	
	1	20JH045MM08MF	85.9 (3.38)	1 3/4	1 3/8	
3/4	1/4	20JH06MM02MF	52.3 (2.06)	1 3/16	1/2	20000 (1378)
	3/8	20JH06MM03MF	52.3 (2.06)	1 3/16	5/8	
	9/16	20JH06MM045MF	61.0 (2.40)	1 3/16	7/8	
	3/4	20JH06MM06MF	64.3 (2.53)	1 3/8	1 3/16	
	1	20JH06MM08MF	86.4 (3.40)	1 3/4	1 3/8	
1	1/4	20JH08MM02MF	58.4 (2.30)	1 3/8	1/2	20000 (1378)
	3/8	20JH08MM03MF	58.4 (2.30)	1 3/8	5/8	
	9/16	20JH08MM045MF	69.6 (2.74)	1 3/8	7/8	
	3/4	20JH08MM06MF	77.5 (3.05)	1 3/8	1 3/16	
	1	20JH08MM08MF	90.2 (3.55)	1 3/4	1 3/8	
1 1/2	1/4	15JH014MM02MF	81.0 (3.19)	1 7/8	1/2	15000 (1034)
	9/16	15JH014MM045MF	81.0 (3.19)	1 7/8	7/8	
	1	15JH014MM08MF	100.1 (3.94)	1 7/8	1 3/8	

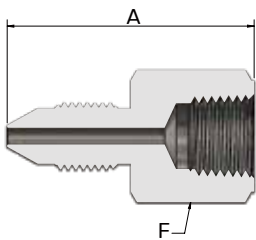
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Male Medium-Pressure C&T to Male Medium-Pressure C&T



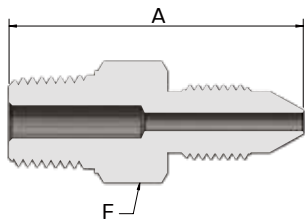
MALE MP C&T SIZE in.	MALE MP C&T SIZE in.	PART NO.	A mm (in.)	F in.	316 SS psig(bar)
1/4	3/8	20JH02MM03MM	66.5 (2.62)	5/8	20000(1378)
	9/16	20JH02MM045MM	66.8 (2.63)	7/8	
	3/4	20JH02MM06MM	68.3 (2.69)	1 3/16	
	1	20JH02MM08MM	73.9 (2.91)	1 3/8	
3/8	9/16	20JH03MM045MM	63.5 (2.50)	7/8	20000(1378)
	3/4	20JH03MM06MM	71.6 (2.82)	1 3/16	
9/16	1	20JH03MM08MM	74.2 (2.92)	1 3/8	20000(1378)
	3/4	20JH045MM06MM	72.4 (2.85)	1 3/16	
	1	20JH045MM08MM	84.1 (3.31)	1 3/8	
	3/4	20JH06MM08MM	88.6 (3.49)	1 3/8	

Female NPT to Male Medium-Pressure C&T



MALE MP C&T SIZE in.	FEMALE NPT SIZE in.	PART NO.	A mm (in.)	F in.	316 SS psig(bar)
1/4	1/4	15JH02FN02MM	41.4 (1.63)	3/4	15000 (1034)
	3/8	15JH03FN02MM	47.5 (1.87)	1	
	1/2	15JH04FN02MM	53.8 (2.12)	1 3/16	
	3/4	10JH06FN02MM	55.6 (2.19)	1 3/8	
3/8	1	10JH08FN02MM	48.3 (1.90)	1 3/4	10000 (689)
	1/4	15JH02FN03MM	47.5 (1.87)	3/4	15000 (1034)
	3/8	15JH03FN03MM	47.5 (1.87)	1	
	1/2	15JH04FN03MM	53.8 (2.12)	1 3/16	
3/4	10JH06FN03MM	60.2 (2.37)	1 3/8		
9/16	1	10JH08FN03MM	49.8 (1.96)	1 3/4	10000 (689)
	1/4	15JH02FN045MM	47.8 (1.88)	7/8	15000 (1034)
	3/8	15JH03FN045MM	60.5 (2.38)	1	
	1/2	15JH04FN045MM	60.5 (2.38)	1 3/16	
3/4	10JH06FN045MM	66.8 (2.63)	1 3/8		
3/4	1	10JH08FN045MM	66.8 (2.63)	1 3/4	10000 (689)
	1/4	15JH02FN06MM	61.0 (2.40)	1 3/16	15000 (1034)
	3/8	15JH03FN06MM	61.0 (2.40)	1 3/16	
	1/2	15JH04FN06MM	61.0 (2.40)	1 3/16	
3/4	10JH06FN06MM	73.7 (2.90)	1 3/8		
1	1	10JH08FN06MM	76.7 (3.02)	1 3/4	10000 (689)
	1/4	15JH02FN08MM	66.5 (2.62)	1 3/8	15000 (1034)
	3/8	15JH03FN08MM	71.1 (2.80)	1 3/8	
	1/2	15JH04FN08MM	71.1 (2.80)	1 3/8	
3/4	10JH06FN08MM	94.7 (3.73)	1 3/8		
	1	10JH08FN08MM	83.8 (3.30)	1 3/4	10000 (689)

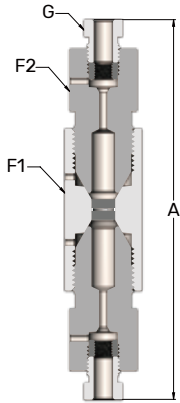
Male NPT to Male
Medium-Pressure C&T



MALE NPT SIZE in.	MALE MP C&T SIZE in.	PART NO.	A mm (in.)	F in.	Pressure Rating 316 SS psig (bar)
1/8	1/4	15JH01MN02MM	157.2 (2.25)	1/2	15000(1034)
	3/8	15JH01MN03MM	38.9 (1.53)	5/8	
	9/16	15JH01MN045MM	44.7 (1.76)	7/8	
	3/4	15JH01MN06MM	50.8 (2.00)	1 3/16	
	1	15JH01MN08MM	62.7 (2.47)	1 3/8	
1/4	1/4	15JH02MN02MM	57.2 (2.25)	5/8	15000(1034)
	3/8	15JH02MN03MM	60.2 (2.37)	5/8	
	9/16	15JH02MN045MM	66.8 (2.63)	7/8	
	3/4	15JH02MN06MM	66.8 (2.63)	1 3/16	
	1	15JH02MN08MM	67.3 (2.65)	1 3/8	
3/8	1/4	15JH03MN02MM	57.2 (2.25)	3/4	15000(1034)
	3/8	15JH03MN03MM	60.2 (2.37)	3/4	
	9/16	15JH03MN045MM	66.8 (2.63)	7/8	
	3/4	15JH03MN06MM	66.8 (2.63)	1 3/16	
	1	15JH03MN08MM	67.3 (2.65)	1 3/8	
1/2	1/4	15JH04MN02MM	57.2 (2.25)	7/8	15000(1034)
	3/8	15JH04MN03MM	60.2 (2.37)	7/8	
	9/16	15JH04MN045MM	66.8 (2.63)	7/8	
	3/4	15JH04MN06MM	80.0 (3.15)	1 3/16	
	1	15JH04MN08MM	83.8 (3.30)	1 3/8	
3/4	1/4	10JH06MN02MM	48.3 (1.90)	1 3/16	10000(689)
	3/8	10JH06MN03MM	50.0 (1.97)	1 3/16	
	9/16	10JH06MN045MM	73.2 (2.88)	1 3/16	
	3/4	10JH06MN06MM	80.0 (3.15)	1 3/16	
	1	10JH06MN08MM	85.6 (3.37)	1 3/8	
1	1/4	10JH08MN02MM	68.3 (2.69)	1 3/8	10000(689)
	3/8	10JH08MN03MM	68.3 (2.69)	1 3/8	
	9/16	10JH08MN045MM	71.6 (2.82)	1 3/8	
	3/4	10JH08MN06MM	71.6 (2.82)	1 3/8	
	1	10JH08MN08MM	93.2 (3.67)	1 3/8	

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Line Filters



Tubing OD in.	PART NO.	A mm (in.)	F1 in.	F2 in.	G in.	Pressure Rating 316 SS psig (bar)
1/4	20FT02MF-	126 (4.96)	1	7/8	1/2	20000(1378)
3/8	20FT03MF-	131 (1.15)	1	7/8	5/8	
9/16	20FT045MF-	133 (5.22)	1 3/8	1 3/8	7/8	
3/4	20FT06MF-	199 (7.84)	1 3/4	1 3/8	1 3/16	
1	20FT08MF-	232 (9.14)	1 3/4	1 3/4	1 3/8	

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CHARACTERISTICS

- Each fitting is marked to allow for easy tracking of its origin
- During packaging, threads are protected with caps
- C&T fittings can be manufactured in accordance with NACE MR0175/ISO 15156

MATERIALS OF CONSTRUCTION

- Strain-hardened SS316 as standard

Material	Standard
SS316	ASME SA479、ASTM A276

THREAD TYPE

Thread Type	Standard
NPT	ASME B1.20.1、SAE AS71051

PRESSURE RATING

- Pressure ratings based on ASME B31.3 Process Piping, Chapter IX High Pressure Piping unless otherwise stated

Material	NPT Size	Pressure Rating
SS316	1/8、1/4、3/8、1/2 in.	15000psig(1034 bar)
	3/4、1 in.	10000psig(689 bar)

TEMPERATURE RATING

- The system temperature may be restricted by the thread sealant

Material	Max working temperature°C(°F)
SS316	537(1000)

ELEVATED TEMPERATURE FACTORS

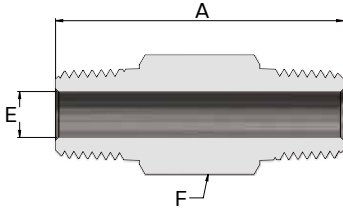
Temperature		Elevated Temperature Factor
°C	°F	Strain-hardened SS316L
		B31.3
-51 to 38	-60 to 100	1.00
93	200	0.94
149	300	0.89
204	400	0.85
260	500	0.82
316	600	0.81
371	700	0.79

① Elevated temperature factor = recommended allowable working pressure at elevated temperature / recommended allowable working pressure at room temperature

CLEANING AND PACKAGING

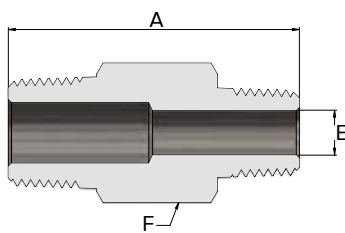
All medium pressure C&T fittings are cleaned and packaged per JPE standard CP-23

HEX NIPPLE



MALE NPT SIZE in.	PART NO.	SIZE			Pressure Rating 316 SS psig (bar)
		A mm (in.)	E mm (in.)	F in.	
1/4	15U02MN	44.5 (0.28)	7.1 (0.28)	5/8	15000(1034)
3/8	15U03MN	44.5 (0.28)	9.7 (0.38)	3/4	
1/2	15U04MN	63.5 (2.50)	11.9 (0.47)	1	
3/4	10U06MN	64.0 (2.52)	16.0 (0.63)	1 3/16	10000(689)
1	10U08MN	76.2 (3.00)	22.4 (0.88)	1 3/8	

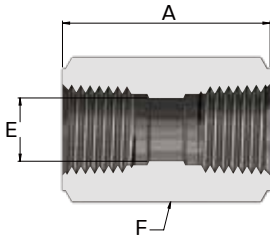
REDUCING HEX NIPPLE



NPT SIZE in.	NPT SIZE in.	PART NO.	SIZE			Pressure Rating 316 SS psig (bar)
			A mm (in.)	E mm (in.)	F in.	
1/4	3/8	15JH02MN03MN	46.0 (1.81)	7.1 (0.28)	3/4	15000(1034)
	1/2	15JH02MN04MN	53.8 (2.12)	7.1 (0.28)	1	
	3/4	10JH02MN06MN	41.9 (1.65)	7.1 (0.28)	1 3/16	10000(689)
	1	10JH02MN08MN	63.5 (2.50)	7.1 (0.28)	1 3/8	
3/8	1/2	15JH03MN04MN	53.8 (2.12)	9.7 (0.38)	1	15000(1034)
	3/4	10JH03MN06MN	57.2 (2.25)	9.7 (0.38)	1 3/16	10000(689)
	1	10JH03MN08MN	63.5 (2.50)	9.7 (0.38)	1 3/8	
1/2	3/4	10JH04MN06MN	63.5 (2.50)	11.9 (0.47)	1 3/16	10000(689)
	1	10JF04MN08MN	69.9 (2.75)	11.9 (0.47)	1 3/8	
3/4	1	10JH06MN08MN	69.9 (2.75)	16.0 (0.63)	1 3/8	10000(689)

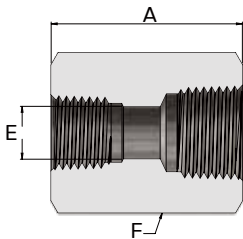
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HEX COUPLING



NPT SIZE in.	PART NO.	SIZE			Pressure Rating 316 SS psig (bar)
		A mm (in.)	E mm (in.)	F in.	
1/4	15U02FN	31.8 (1.25)	9.7 (0.38)	3/4	15000 (1034)
3/8	15U03FN	35.1 (1.38)	14.7 (0.58)	1	
1/2	15U04FN	38.1 (1.50)	17.9 (0.70)	1 3/8	
3/4	10U06FN	44.5 (1.75)	23.4 (0.92)	1 3/8	10000 (689)
1	10U08FN	55.4 (2.18)	29.4 (1.16)	1 3/4	

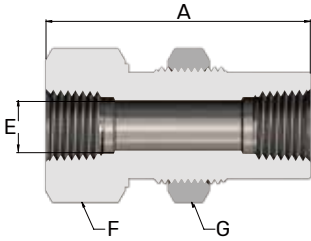
REDUCING HEX COUPLING



NPT SIZE in.	NPT SIZE in.	PART NO.	SIZE			Pressure Rating 316 SS psig (bar)
			A mm (in.)	E mm (in.)	F in.	
1/4	3/8	15JH02FN03FN	35.1 (1.38)	9.7 (0.38)	1	15000(1034)
	1/2	15JH02FN04FN	41.1 (1.62)	9.7 (0.38)	1 3/8	
	3/4	10JH02FN06FN	44.5 (1.75)	9.7 (0.38)	1 3/8	10000(689)
	1	10JH02FN08FN	41.9 (1.65)	9.7 (0.38)	1 3/4	
3/8	1/2	15JH03FN04FN	38.1 (1.50)	14.7 (0.58)	1 3/8	15000(1034)
	3/4	10JH03FN06FN	50.8 (2.00)	14.7 (0.58)	1 3/8	10000(689)
	1	10JH03FN08FN	45.2 (1.78)	14.7 (0.58)	1 3/4	
1/2	3/4	10JH04FN06FN	44.5 (1.75)	17.9 (0.70)	1 3/8	10000(689)
	1	10JF04FN08FN	55.6 (2.19)	17.9 (0.70)	1 3/4	
3/4	1	10JH06FN08FN	55.4 (2.18)	23.4 (0.92)	1 3/4	10000(689)

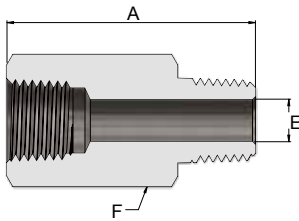
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BULKHEADS HEX COUPLING



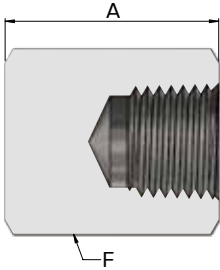
NPT SIZE in.	PART NO.	SIZE						Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	F in.	G in.	PANEL ORIFICE mm (in.)	MAX PANEL THICKNESS mm (in.)	
1/4	15BH02FN	50.8 (2.00)	9.7 (0.38)	1	1	23.9 (0.94)	9.5 (0.38)	15000 (1034)
3/8	15BH03FN	66.5 (2.62)	14.7 (0.58)	1 3/8	1 3/8	31.6 (1.25)	12.7 (0.50)	
1/2	15BH04FN	66.5 (2.62)	17.8 (0.70)	1 7/8	1 1/2	34.8 (1.37)	12.7 (0.50)	
3/4	10BH06FN	66.5 (2.62)	16.0 (0.63)	1 7/8	1 7/8	42.8 (1.69)	12.7 (0.50)	10000 (689)
1	10BH08FN	88.9 (3.50)	17.3 (0.69)	2 1/8	2 1/8	49.3 (1.94)	12.7 (0.50)	

REDUCING ADAPTER



MALE NPT SIZE in.	FEMALE NPT SIZE in.	PART NO.	SIZE			Pressure Rating 316 SS psig (bar)
			A mm (in.)	E mm (in.)	F in.	
1/4	1/4	15JH02MN02FN	41.4 (1.62)	7.1 (0.28)	3/4	15000(1034)
	3/8	15JH02MN03FN	44.5 (1.75)	7.1 (0.28)	7/8	
	1/2	15JH02MN04FN	44.5 (1.75)	7.1 (0.28)	1 3/8	
	3/4	10JH02MN06FN	45.0 (1.77)	7.1 (0.28)	1 3/8	10000(689)
	1	10JH02MN08FN	41.9 (1.65)	7.1 (0.28)	1 3/4	
3/8	1/4	15JH03MN02FN	41.1 (1.62)	9.7 (0.38)	7/8	15000(1034)
	3/8	15JH03MN03FN	46.0 (1.81)	9.7 (0.38)	1	
	1/2	15JH03MN04FN	50.8 (2.00)	9.7 (0.38)	1 3/8	
	3/4	10JH03MN06FN	50.8 (2.00)	9.7 (0.38)	1 3/8	10000(689)
	1	10JH03MN08FN	53.1 (2.09)	9.7 (0.38)	1 3/4	
1/2	1/4	15JH04MN02FN	46.0 (1.81)	9.7 (0.38)	1	15000(1034)
	3/8	15JH04MN03FN	50.8 (2.00)	11.9 (0.47)	1	
	1/2	15JH04MN04FN	57.2 (2.25)	11.9 (0.47)	1 3/8	
	3/4	10JH04MN06FN	63.5 (2.50)	11.9 (0.47)	1 3/8	10000(689)
	1	10JH04MN08FN	57.9 (2.28)	11.9 (0.47)	1 3/4	
3/4	1/4	10JH06MN02FN	38.4 (1.51)	9.7 (0.38)	1 3/16	10000(689)
	3/8	10JH06MN03FN	50.8 (2.00)	14.7 (0.58)	1 3/16	
	1/2	10JH06MN04FN	50.8 (2.00)	16.0 (0.63)	1 3/8	
	3/4	10JH06MN06FN	42.2 (1.66)	16.0 (0.63)	1 3/8	
	1	10JH06MN08FN	65.0 (2.56)	16.0 (0.63)	1 3/4	
1	1/4	10JH08MN02FN	47.8 (1.88)	9.7 (0.38)	1 3/8	10000(689)
	3/8	10JH08MN03FN	51.8 (2.04)	14.7 (0.58)	1 3/8	
	1/2	10JH08MN04FN	60.2 (2.37)	16.0 (0.63)	1 3/8	
	3/4	10JH08MN06FN	57.4 (2.26)	17.5 (0.69)	1 3/8	
	1	10JH08MN08FN	62.7 (2.47)	17.5 (0.69)	1 3/4	

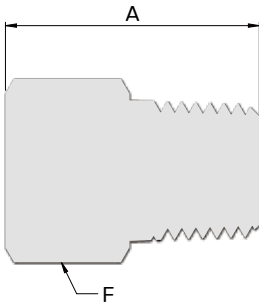
PIPE CAPS



NPT SIZE in.	PART NO.	SIZE		Pressure Rating 316 SS psig (bar)
		A mm (in.)	F in.	
1/4	15C02FN	25.4 (1.00)	3/4	15000 (1034)
3/8	15C03FN	25.4 (1.00)	1	
1/2	15C04FN	31.6 (1.25)	1 3/8	
3/4	10C06FN	38.1 (1.50)	1 3/8	10000 (689)

• Sizes up to 1" available on request

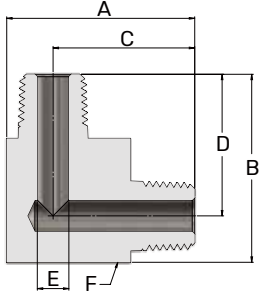
PIPE PLUGS



NPT SIZE in.	PART NO.	SIZE		Pressure Rating 316 SS psig (bar)
		A mm (in.)	F in.	
1/4	15P02MN	28.4 (1.12)	5/8	15000 (1034)
3/8	15P03MN	28.4 (1.12)	3/4	
1/2	15P04MN	38.1 (1.50)	1	
3/4	10P06MN	38.1 (1.50)	1 3/8	10000 (689)
1	10P08MN	47.8 (1.88)	1 3/8	

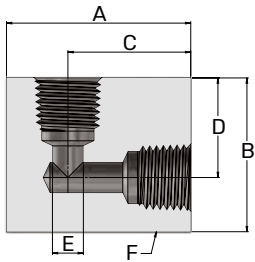
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MALE ELBOW



NPT SIZE in.	PART NO.	SIZE						Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	D mm (in.)	E mm (in.)	F in.	
1/4	15E02MN	38.1 (1.50)	38.1 (1.50)	28.7 (1.13)	28.7 (1.13)	6.4 (0.25)	3/4	15000 (1034)
3/8	15E03MN	44.5 (1.75)	44.5 (1.75)	31.6 (1.25)	31.6 (1.25)	9.7 (0.38)	1	
1/2	15E04MN	50.8 (2.00)	50.8 (2.00)	38.1 (1.50)	38.1 (1.50)	12.7 (0.50)	1 1/4	
3/4	10E06MN	66.5 (2.62)	66.5 (2.62)	44.5 (1.75)	44.5 (1.75)	16.0 (0.63)	1 1/2	10000 (689)
1	10E08MN	76.2 (3.00)	76.2 (3.00)	54.1 (2.13)	54.1 (2.13)	17.5 (0.69)	1 3/4	

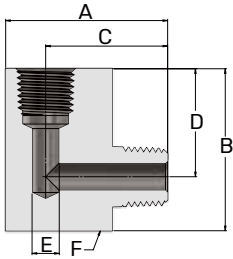
FEMALE ELBOW



NPT SIZE in.	PART NO.	SIZE						Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	D mm (in.)	E mm (in.)	F in.	
1/4	15E02FN	38.1 (1.50)	31.8 (1.25)	25.4 (1.00)	20.6 (0.81)	6.4 (0.25)	3/4	15000 (1034)
3/8	15E03FN	38.1 (1.50)	38.1 (1.50)	25.4 (1.00)	25.4 (1.00)	9.7 (0.38)	1	
1/2	15E04FN	47.8 (1.88)	47.8 (1.88)	31.6 (1.25)	31.6 (1.25)	12.7 (0.50)	1 1/4	
3/4	10E06FN	66.5 (2.62)	53.8 (2.12)	33.3 (1.31)	35.1 (1.38)	23.4 (0.92)	1 1/2	10000 (689)
1	10E08FN	76.2 (3.00)	65.0 (2.56)	42.9 (1.69)	42.9 (1.69)	17.5 (0.69)	1 3/4	

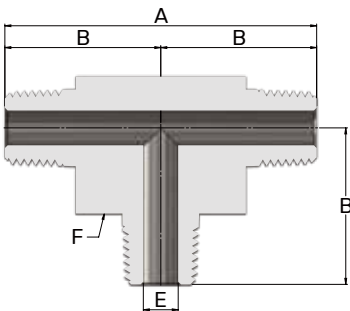
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STREET ELBOW



NPT SIZE in.	PART NO.	SIZE						Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	D mm (in.)	E mm (in.)	F in.	
1/4	15E02MN02FN	38.1 (1.50)	38.1 (1.50)	28.7 (1.13)	25.4 (1.00)	6.4 (0.25)	3/4	15000 (1034)
3/8	15E03MN03FN	38.1 (1.50)	44.5 (1.75)	31.6 (1.25)	25.4 (1.00)	9.7 (0.38)	1	
1/2	15E04MN04FN	50.8 (2.00)	57.2 (2.25)	41.4 (1.63)	31.6 (1.25)	12.7 (0.50)	1 1/4	
3/4	10E06MN06FN	66.5 (2.62)	63.5 (2.50)	44.5 (1.75)	33.3 (1.31)	16.0 (0.63)	1 1/2	10000 (689)
1	10E08MN08FN	73.2 (2.88)	76.2 (3.00)	53.8 (2.12)	42.7 (1.68)	17.5 (0.69)	1 3/4	

MALE TEE

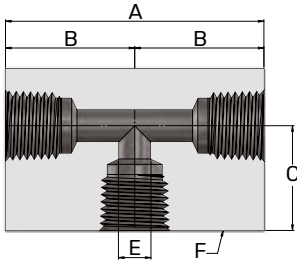


NPT SIZE in.	PART NO.	SIZE				Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	E mm (in.)	F in.	
1/4	15T02MN	57.2 (2.25)	28.7 (1.13)	6.4 (0.25)	3/4	15000 (1034)
3/8	15T03MN	63.5 (2.50)	31.8 (1.25)	9.7 (0.38)	1	
1/2	15T04MN	76.2 (3.00)	38.1 (1.50)	12.7 (0.50)	1	
3/4	10T06MN	88.9 (3.50)	33.3 (1.31)	16.0 (0.63)	1 1/2	10000 (689)

• Sizes up to 1" available on request

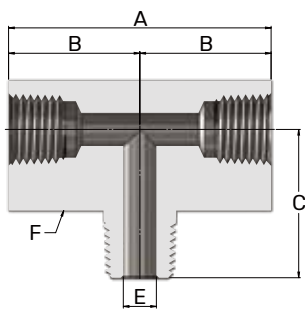
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TEE



NPT SIZE in.	PART NO.	SIZE					Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	E mm (in.)	F in.	
1/4	15T02FN	50.8 (2.00)	25.4 (1.00)	20.6 (0.81)	9.7 (0.38)	3/4	15000 (1034)
3/8	15T03FN	50.8 (2.00)	25.4 (1.00)	25.4 (1.00)	9.7 (0.38)	1	
1/2	15T04FN	63.5 (2.50)	31.6 (1.25)	31.8 (1.25)	12.7 (0.50)	1 1/4	
3/4	10T06FN	66.5 (2.62)	33.3 (1.31)	35.1 (1.38)	23.4 (0.92)	1 1/2	10000 (689)
1	10T08FN	85.9 (3.38)	42.9 (1.69)	42.9 (1.69)	17.5 (0.69)	1 3/4	

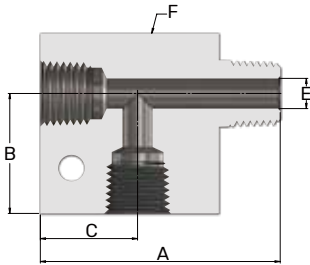
BRANCH TEE



NPT SIZE in.	PART NO.	SIZE					Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	E mm (in.)	F in.	
1/4	15BT02N	50.8 (2.00)	25.4 (1.00)	28.7 (1.13)	6.4 (0.25)	3/4	15000 (1034)
3/8	15BT03N	50.8 (2.00)	25.4 (1.00)	26.9 (1.06)	9.7 (0.38)	1	
1/2	15BT04N	63.5 (2.50)	31.6 (1.25)	41.4 (1.63)	12.7 (0.50)	1 1/4	
3/4	10BT06N	66.5 (2.62)	33.3 (1.31)	33.3 (1.31)	16.0 (0.63)	1 1/2	10000 (689)

• Sizes up to 1" available on request

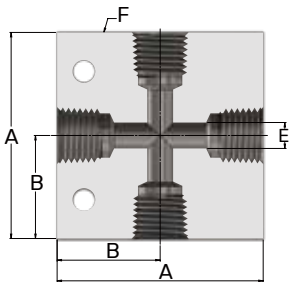
STREET TEE



NPT SIZE in.	PART NO.	SIZE					Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	C mm (in.)	E mm (in.)	F in.	
1/4	15ST02N	50.8 (2.00)	25.4 (1.00)	20.6 (0.81)	6.4 (0.25)	3/4	15000 (1034)
3/8	15ST03N	57.2 (2.25)	25.4 (1.00)	25.4 (1.00)	9.7 (0.38)	1	
1/2	15ST04N	76.2 (3.00)	31.6 (1.25)	31.6 (1.25)	12.7 (0.50)	1 3/8	

• Sizes up to 1" available on request

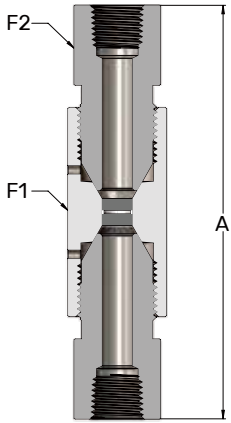
CROSSES



NPT SIZE in.	PART NO.	SIZE				Pressure Rating 316 SS psig (bar)
		A mm (in.)	B mm (in.)	E mm (in.)	F in.	
1/4	15X02FN	50.8 (2.00)	25.4 (1.00)	6.4 (0.25)	3/4	15000 (1034)
3/8	15X03FN	50.8 (2.00)	25.4 (1.00)	9.7 (0.38)	1	
1/2	15X04FN	63.5 (2.50)	31.6 (1.25)	12.7 (0.50)	1 1/4	
3/4	10X06FN	66.5 (2.62)	33.3 (1.31)	23.4 (0.92)	1 1/2	10000 (689)
1	10X08FN	105 (4.12)	52.3 (2.06)	17.5 (0.69)	1 3/4	

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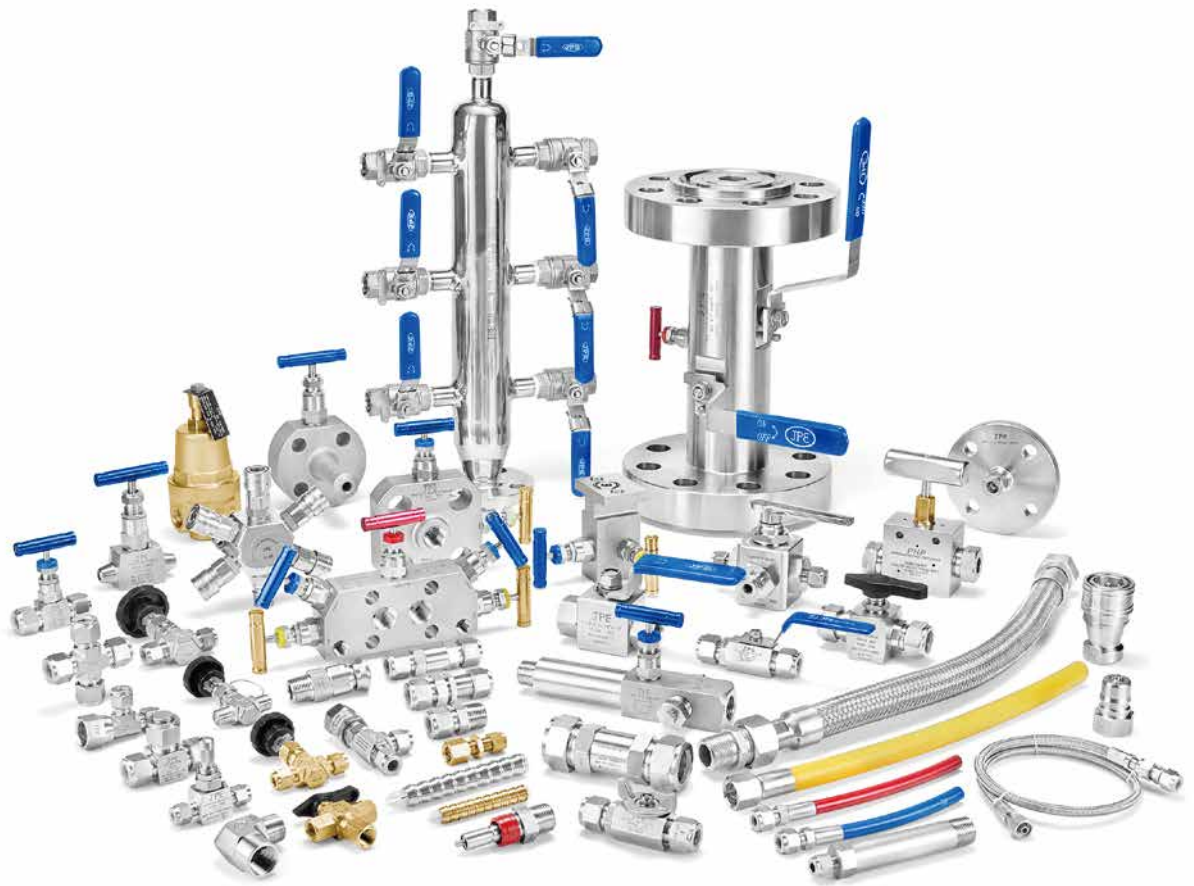
LINE FILTERS



NPT SIZE in.	PART NO.	A mm (in.)	F1 in.	F2 in.	Pressure Rating 316 SS psig (bar)
1/4	15FT02FN-	106 (4.19)	1	7/8	15000(1034)
3/8	15FT03FN-	132 (5.19)	1	1	
1/2	15FT04FN-	147 (5.79)	1 3/8	1 3/8	

- EACH FILTER IS DESIGNED WITH TWO FILTER ELEMENTS, ONE UPSTREAM AND ONE DOWNSTREAM.
- FILTER ELEMENTS AVAILABLE FOR NOMINAL PORE SIZES: 0.5, 2, 5, 10, 20, 40, AND 100 µm.
TO ORDER, PLEASE ADD THE NOMINAL PORE SIZE OF THE FILTER ELEMENT TO THE BASIC PART NUMBER.
- EXAMPLE: FILTER WITH AN UPSTREAM 40 µm FILTER ELEMENT AND A DOWNSTREAM 20 µm FILTER ELEMENT.
- PART NUMBER: BS6-15FT02FN-40/20

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Standard Type

Specifications

- MAWP up to 100,000 PSI (6894 bar).
- Temperature Ratings: 0°F to 400°F (-18°C to 204°C).
- Female Cone and Thread connections are standard.
- Vee type stem is standard.

Features & Benefits

- Standard valve fully opens in 4 1/2 turns.
- Standard 3/4" and 1" valve fully opens in as little as 3 turns, compared to 9 turns for industry standard valves.
- Two-piece, heavy-duty, non-rotating stem for a robust and reliable assembly.
- Bi-directional flow capability. Simplifies system designs.
- Packing gland consists of a preload locking internal thread form that is resistant to vibration. Eliminates the need for an external locking device.
- Double-sided weep holes for easier leakage verification.



Quick Open Type Additional Features

- Valve is fully open in as little as 1 3/4 turns.
- Stem is lifted off of the seat a minimum of 2X faster than conventional valves, which reduces throttling and therefore increases seat life.
- Less than half the number of turns to fully open compared to competitor's valves.

Options

- Solid Stainless Steel or Aluminum Handle.
- Replaceable Seat design for use in harsh environments.
- Air Actuators for Remote Valve Actuator.
- Grafoil Packing for temperature up to 800°F.
- Extended Stuffing Box for temperatures up to 1200°F.
- Extended Stuffing Box for temperatures down to -423°F.
- Can be manufactured to meet NACE MR-01-75.
- Wide range of construction materials available.

Standard Materials

- Body - 316 cold worked stainless steel.
- Packing - Glass filled Teflon.
- Stem - 17-4 PH.



End Connection Size in.	Connection Type	Pressure Rating	Part Number	Orifice in. (mm)	Dimensions, in. (mm)												Valve Dimensions
					A	B	C	D1	D2	D3	E	F	G	H	J	K	
2-WAY STRAIGHT																	
1/4	Medium Pressure Cone & Thread	20,000 PSI	20NV4M1V	0.125 (3.2)	2.00 (50.8)	1.00 (25.4)	2.00 (50.8)	1.63 (41.3)	1.19 (30.2)		0.38 (9.7)	1.24 (31.5)	3.00 (76.2)	4.84 (123.0)	0.25 (6.4)	0.38 (9.7)	1.00 (25.4)
3/8			20NV6M1V	0.20 (5.1)	2.00 (50.8)	1.00 (25.4)	2.00 (50.8)	1.63 (41.3)	1.19 (30.2)		0.38 (9.7)	1.24 (31.5)	3.00 (76.2)	4.84 (123.0)	0.25 (6.4)	0.48 (12.2)	1.00 (25.4)
9/16			20NV9M1V	0.312 (7.9)	2.50 (63.5)	1.25 (31.8)	2.88 (73.2)	2.38 (60.5)	1.75 (44.5)		0.50 (12.7)	1.38 (35.0)	4.00 (102.0)	5.46 (138.7)	0.34 (8.7)	0.68 (17.3)	1.00 (25.4)
3/4			20NV12M1V	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	3.75 (95.3)	3.00 (76.2)	2.25 (57.2)		0.62 (15.7)	1.75 (44.5)	8.07 (204.0)	7.07 (179.6)	0.44 (11.2)	0.59 (15.0)	1.38 (35.1)
1			20NV16M1V	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	4.75 (120.7)	3.75 (95.3)	2.82 (71.6)		1.12 (28.4)	2.50 (63.5)	10.29 (261.4)	8.96 (227.6)	0.56 (14.2)	0.74 (18.8)	1.75 (44.5)
1/4	High Pressure Cone & Thread	30,000 PSI	30NV4H1V	0.093 (2.4)	2.00 (50.8)	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	1.12 (28.5)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	4.74 (120.4)	0.28 (7.1)	0.59 (15.0)	1.00 (25.4)
3/8			30NV6H1V	0.125 (3.2)	2.00 (50.8)	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	1.12 (28.5)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	4.74 (120.4)	0.28 (7.1)	0.72 (18.3)	1.00 (25.4)
9/16			30NV9H1V	0.125 (3.2)	2.62 (66.5)	1.31 (33.3)	2.44 (62.0)	1.56 (39.6)	1.12 (28.5)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	5.18 (131.6)	0.28 (7.1)	1.00 (25.4)	1.50 (38.1)
1/4	High	60,000 PSI	60NV4H1V	0.062 (1.6)	2.00 (50.8)	1.00 (25.4)	2.12 (53.8)	1.69 (42.9)	1.31 (33.3)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	4.89 (124.2)	0.28 (7.1)	0.59 (15.0)	1.00 (25.4)
3/8	Pressure Cone & Thread		60NV6H1V	0.062 (1.6)	2.00 (50.8)	1.00 (25.4)	2.25 (57.2)	1.69 (42.9)	1.31 (33.3)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	5.02 (127.5)	0.28 (7.1)	0.72 (18.3)	1.00 (25.4)
9/16	60NV9H1V		0.012 (0.03)	2.62 (66.5)	1.31 (33.3)	2.50 (63.5)	1.75 (44.5)	1.31 (33.3)		0.38 (9.7)	1.38 (35.0)	3.00 (76.2)	5.27 (133.9)	0.28 (7.1)	1.00 (25.4)	1.50 (38.1)	

See Figure 1