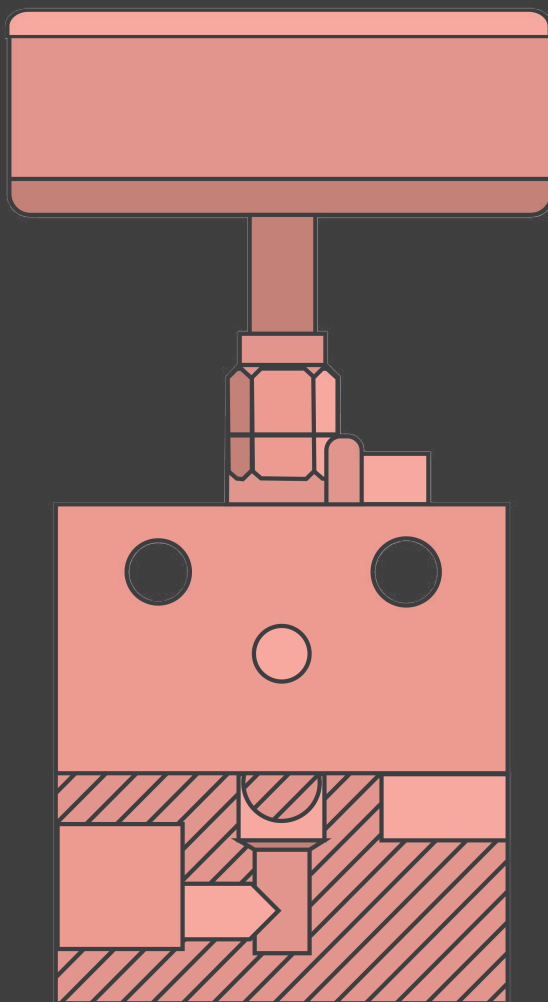


Section F

High Pressure Valves and Fittings

690 bar to 4140 bar (690 bar to 4140 bar)



General Information

A Nomenclature of VFT

We have the following Connections, configurations and sizes



e.g. HMF9-MM6

H = Coupler
MF = Medium Pressure Female
9 = Size 9/16"

MM = Medium Pressure Male
6 = Size 3/8"

Except of type M all fittings and adapters begin with "H", e.g. HHM9-HM9. Type M fittings and adapters start with "M", e.g. M9-M9.

The female connection is always mentioned first e.g. HMF9-HM9 (female x male).

Description
JIC Male
JIC Female
NPT Male
NPT Female
Medium Pressure Male
Medium Pressure Female
Metric Male
Metric Female
High Pressure Male
High Pressure Female
Type M
BSPP
Female Elbow
Female Tee
Female Wye
Female Cross
Female Couple

Description
Slimline
Gland Nut
Collar
Anti-Vibration
Heavy Duty
Left x Left
Left x Right
Right x Right
Needle Valve
Ball Valve
Check Valve
Ball Seat
Soft Seat

Description
1/16"
1/8"
1/4"
3/8"
1/2"
9/16"
3/4"
7/8"
1"
M18x1,5
M20x1,5
M22x1,5
M24x1,5
M26x1,5
M30x2
M36x2
M42x2

B Common Description

High-Pressure Adapter

REDFLUID High-Pressure fittings seal with a 60-degree cone and are rated for working pressures up to 4.140 bar/ 60.000 psi



Common Description	Actual Thread Dimension
1/4" High Pressure	9/16"x18UNF
3/8" High Pressure	3/4"x16UNF
9/16" High Pressure	1 1/8"x12UNF

Medium-Pressure Adapter

REDFLUID Medium-Pressure fittings seal with a 60-degree cone and are rated for working pressures up to 20.000 psi.



Common Description	Actual Thread Dimension
1/4" Medium Pressure	7/16"x20UNF
3/8" Medium Pressure	9/16"x18UNF
9/16" Medium Pressure	1 3/16"x16UNF
3/4" Medium Pressure	3/4"x 14 NPSM
1" Medium Pressure	1 3/8"-12 UNF

JIC Adapter

REDFLUID JIC adapters seal with a 37-degree cone and are rated for working pressure up to 15.000 psi



Common Description	Working Pressure
#4 #6 #8	1.035 bar / 15.000 psi
#12 #16	690 bar / 10.000 psi
Common Description	Actual Thread Dimension
#4 1/4" JIC	7/16"x20UNF
#6 3/8" JIC	9/16"x18UNF
#8 1/2" JIC	3/4"x16UNF
#12 3/4" JIC	1 1/16"x12UNF
#16 1" JIC	1 5/16"x12UNF

NPT Adapter

NPT (National Pipe Taper) fittings have working pressures up to 1.035 bar/15.000 psi. However, working pressure may be decreased depending upon thread size.



Common Description	Working Pressure
1/16" NPT bis 1/2"NPT	1.034 bar / 15.000 psi
3/4"NPT bis 1" NPT	690 bar / 10.000 psi

Type-M Adapter

REDFLUID Type M adapters are used with Type M swivel hose end fittings. These adapters seal with a 58 degree cone and are rated for working pressures up to 3.450 bar/50.000 psi.



Common Description	Actual Thread Dimension
M9	9/16"x18UNF
M12	3/4"x16UNF
M14	7/8"x14UNF
M16	1"x12UNF
M18	1 1/8"x12UNF
M21	1 5/16"x12UNF

Metric adapter

REDFLUID metric adapters (for o-rings) seal with a 24 degree cone



Common Description	Actual Thread Dimension
MEM18 MEF18	M18x1,5
MEM20 MEF20	M20x1,5
MEM22 MEF22	M22x1,5
MEM24 MEF24	M24x1,5
MEM26 MEF26	M26x1,5
MEM30 MEF30	M30x2
MEM36 MEF36	M36x2
MEM42 MEF42	M42x2

BSPP Adapter

REDFLUID BSPP adapters are used with Type M swivel hose end fittings. These adapters seal with a 58 degree cone and are rated for working pressures up to 3.450 bar/50.000 psi.



Common Description	Cone Dimension
Ext	120° external sealing cone
Int	60° internal sealing cone

1. I Fittings and Adapters

High-Pressure Male x Male

Description	Max Working Pressure	
1/4" HP Male x 1/4" HP Male	4.140 bar	60.000 psi
1/4" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
1/4" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
3/8" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
3/8" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
9/16" HP Male x 9/16" HP Male	4.140 bar	60.000 psi



High-Pressure Female x High-Pressure Male (UNF) - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
1/4" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
1/4" HP Female x 9/16" HP Male	4.140 bar	60.000 psi
3/8" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
3/8" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
3/8" HP Female x 9/16" HP Male	4.140 bar	60.000 psi
9/16" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
9/16" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
9/16" HP Female x 9/16" HP Male	4.140 bar	60.000 psi



High-Pressure Heavy Duty Couplers Female (UNF) - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female Coupler	4.140 bar	60.000 psi
3/8" HP Female Coupler	4.140 bar	60.000 psi
3/8" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
9/16" HP Female Coupler	4.140 bar	60.000 psi
9/16" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
9/16" HP x 3/8" HP Female Coupler	4.140 bar	60.000 psi



High-Pressure Heavy Duty Couplers Female (Metric) - including Collars and Gland Nuts

Description	Max Working Pressure	
M16x1.5 Female Coupler (incl. Collar 1/4" HP & Gland Nut M16x1.5)	4.140 bar	60.000 psi
M20x1.5 Female Coupler (incl. Collar 3/8" HP & Gland Nut M20x1.5)	4.140 bar	60.000 psi
M26x1.5 Female Coupler (incl. Collar 9/16" HP & Gland Nut M26x1.5)	4.140 bar	60.000 psi
M26x1.5 Female Coupler (incl. Collar M14x1.5 & Gland Nut M20x1.5)	4.140 bar	60.000 psi
M30x2 Female Coupler (incl. Collar 9/16" HP & Gland Nut M30x2)	4.140 bar	60.000 psi
M30x2 Female Coupler (incl. Collar M14x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi
M30x2 Female Coupler (incl. Collar M18x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi



Metric adapter

High-Pressure Slimline Couplers

Description	Max Working Pressure	
1/4" HP Female Slimline Coupler Left x Left* 0.445" OD	2.760 bar	40.000 psi
1/4" HP Female Slimline Coupler Left x Right* 0.445" OD	2.760 bar	40.000 psi
1/4" HP Female Slimline Coupler Right x Right* 0.445" OD	2.760 bar	40.000 psi
3/8" HP Female Slimline Coupler Left x Left* 0.562" OD	2.760 bar	40.000 psi
3/8" HP Female Slimline Coupler Left x Right* 0.562" OD	2.760 bar	40.000 psi
3/8" HP Female Slimline Coupler Right x Right* 0.562" OD	2.760 bar	40.000 psi
9/16" HP Female Slimline Coupler Left x Left* 0.750" OD	2.760 bar	40.000 psi
9/16" HP Female Slimline Coupler Left x Right* 0.750" OD	2.760 bar	40.000 psi
9/16" HP Female Slimline Coupler Right x Right* 0.750" OD	2.760 bar	40.000 psi



1. I Fittings and Adapters

High-Pressure Male x Medium Pressure Male

Description	Max Working Pressure	
1/4" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
1/4" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
1/4" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
1/4" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
1/4" HP Male x 1" MP Male	1.380 bar	20.000 psi
3/8" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
3/8" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
3/8" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
3/8" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
3/8" HP Male x 1" MP Male	1.380 bar	20.000 psi
9/16" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
9/16" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
9/16" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
9/16" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
9/16" HP Male x 1" MP Male	1.380 bar	20.000 psi



High-Pressure Female x Medium Pressure Female - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
1/4" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
1/4" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
1/4" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
1/4" HP Female x 1" MP Female	1.380 bar	20.000 psi
3/8" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
3/8" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
3/8" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
3/8" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
3/8" HP Female x 1" MP Female	1.380 bar	20.000 psi
9/16" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
9/16" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
9/16" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
9/16" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
9/16" HP Female x 1" MP Female	1.380 bar	20.000 psi

High-Pressure Female x Medium Pressure Male - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
1/4" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
1/4" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
3/8" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
3/8" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
3/8" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
3/8" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
3/8" HP Female x 1" MP Male	1.380 bar	20.000 psi
9/16" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
9/16" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
9/16" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
9/16" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
9/16" HP Female x 1" MP Male	1.380 bar	20.000 psi



1. I Fittings and Adapters

High-Pressure Male x Medium Pressure Female - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
1/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
1/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
3/8" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
3/8" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
3/8" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
9/16" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
9/16" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
9/16" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
3/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
3/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
3/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
1" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
1" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
1" MP Female x 9/16" HP Male	1.380 bar	20.000 psi



High-Pressure Male x NPT Male

Description	Max Working Pressure	
1/4" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
1/4" HP Male x 3/4" NPT Male	690 bar	10.000 psi
1/4" HP Male x 1" NPT Male	690 bar	10.000 psi
3/8" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" HP Male x 3/4" NPT Male	690 bar	10.000 psi
3/8" HP Male x 1" NPT Male	690 bar	10.000 psi
9/16" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
9/16" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
9/16" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" HP Male x 3/4" NPT Male	690 bar	10.000 psi
9/16" HP Male x 1" NPT Male	690 bar	10.000 psi



High-Pressure Female x NPT Female - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
1/4" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
1/4" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
1/4" HP Female x 3/4" NPT Female	690 bar	10.000 psi
1/4" HP Female x 1" NPT Female	690 bar	10.000 psi
3/8" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
3/8" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
3/8" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
3/8" HP Female x 3/4" NPT Female	690 bar	10.000 psi
3/8" HP Female x 1" NPT Female	690 bar	10.000 psi
9/16" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
9/16" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
9/16" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
9/16" HP Female x 3/4" NPT Female	690 bar	10.000 psi
9/16" HP Female x 1" NPT Female	690 bar	10.000 psi

1. I Fittings and Adapters

High-Pressure Female x NPT Male - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
1/4" HP Female x 3/4" NPT Male	690 bar	10.000 psi
1/4" HP Female x 1" NPT Male	690 bar	10.000 psi
3/8" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" HP Female x 3/4" NPT Male	690 bar	10.000 psi
3/8" HP Female x 1" NPT Male	690 bar	10.000 psi
9/16" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
9/16" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
9/16" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" HP Female x 3/4" NPT Male	690 bar	10.000 psi
9/16" HP Female x 1" NPT Male	690 bar	10.000 psi



Medium Pressure Male x Male

Description	Max Working Pressure	
1/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
3/8" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
3/8" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
3/8" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
9/16" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
9/16" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
9/16" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
9/16" MP Male x 1" MP Male	1.380 bar	20.000 psi
3/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
3/4" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
3/4" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
1" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
1" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
1" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
1" MP Male x 1" MP Male	1.380 bar	20.000 psi



1. I Fittings and Adapters

Medium Pressure Female x Medium Pressure Male - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
1/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
1/4" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
1/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
3/8" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
3/8" MP Female x 1" MP Male	1.380 bar	20.000 psi
3/8" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
3/8" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
9/16" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
9/16" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
9/16" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
9/16" MP Female x 1" MP Male	1.380 bar	20.000 psi
3/4" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
3/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
3/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
3/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
1" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
1" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
1" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
1" MP Female x 3/4" MP Male	1.380 bar	20.000 psi



Medium Pressure Heavy Duty Couplers - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" MP Female Coupler	1.380 bar	20.000 psi
3/8" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
3/8" MP Female Coupler	1.380 bar	20.000 psi
9/16" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
9/16" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
9/16" MP Female Coupler	1.380 bar	20.000 psi
3/4" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
3/4" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
3/4" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
3/4" MP Female Coupler	1.380 bar	20.000 psi
1" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
1" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
1" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
1" MP Female x 3/4" MP Female Coupler	1.380 bar	20.000 psi
1" MP Female Coupler	1.380 bar	20.000 psi



Medium Pressure Slimline Couplers

Slimline couplers are designed to be used ONLY for high pressure waterjetting applications, such as tube bundle cleaning.

Description	Max Working Pressure	
1/4" MP Female Slimline Coupler Left x Left* 0.374" OD	1.380 bar	20.000 psi
1/4" MP Female Slimline Coupler Left x Right* 0.374" OD	1.380 bar	20.000 psi
1/4" MP Female Slimline Coupler Right x Right* 0.374" OD	1.380 bar	20.000 psi
3/8" MP Female Slimline Coupler Left x Left* 0.499" OD	1.380 bar	20.000 psi
3/8" MP Female Slimline Coupler Left x Right* 0.499" OD	1.380 bar	20.000 psi
3/8" MP Female Slimline Coupler Right x Right* 0.499" OD	1.380 bar	20.000 psi
9/16" MP Female Slimline Coupler Left x Left* 0.687" OD	1.380 bar	20.000 psi
9/16" MP Female Slimline Coupler Left x Right* 0.687" OD	1.380 bar	20.000 psi
9/16" MP Female Slimline Coupler Right x Right* 0.687" OD	1.380 bar	20.000 psi



1. I Fittings and Adapters

Medium Pressure Male x NPT Male

Description	Max Working Pressure	
1/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
9/16" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi
9/16" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" MP Male x 3/4" NPT Male	690 bar	10.000 psi
9/16" MP Male x 1" NPT Male	690 bar	10.000 psi
3/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/4" MP Male x 3/4" NPT Male	690 bar	10.000 psi
3/4" MP Male x 1" NPT Male	690 bar	10.000 psi
1" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi
1" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi
1" MP Male x 3/4" NPT Male	690 bar	10.000 psi
1" MP Male x 1" NPT Male	690 bar	10.000 psi



Medium Pressure Female x NPT Female - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
1/4" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
1/4" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
1/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
3/8" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
3/8" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
3/8" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
3/8" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
3/8" MP Female x 3/4" NPT Female	690 bar	10.000 psi
3/8" MP Female x 1" NPT Female	690 bar	10.000 psi
9/16" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi
9/16" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi
9/16" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi
9/16" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
9/16" MP Female x 3/4" NPT Female	690 bar	10.000 psi
9/16" MP Female x 1" NPT Female	690 bar	10.000 psi
3/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi
3/4" MP Female x 3/4" NPT Female	690 bar	10.000 psi
3/4" MP Female x 1" NPT Female	690 bar	10.000 psi
1" MP Female x 3/4" NPT Female	690 bar	10.000 psi
1" MP Female x 1" NPT Female	690 bar	10.000 psi

1. I Fittings and Adapters

Medium Pressure Female x NPT Male - including Collar and Gland Nut

Description	Max Working Pressure	
1/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
9/16" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
9/16" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
9/16" MP Female x 3/4" NPT Male	690 bar	10.000 psi
9/16" MP Female x 1" NPT Male	690 bar	10.000 psi
3/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
3/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
3/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
3/4" MP Female x 3/4" NPT Male	690 bar	10.000 psi
3/4" MP Female x 1" NPT Male	690 bar	10.000 psi
1" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
1" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
1" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
1" MP Female x 3/4" NPT Male	690 bar	10.000 psi
1" MP Female x 1" NPT Male	690 bar	10.000 psi



NPT Female x High-Pressure Male

Description	Max Working Pressure	
1/4" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
1/4" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
1/4" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
3/8" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
3/8" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
3/8" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
1/2" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
1/2" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
1/2" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
3/4" NPT Female x 3/8" HP Male	690 bar	10.000 psi
3/4" NPT Female x 9/16" HP Male	690 bar	10.000 psi
1" NPT Female x 9/16" HP Male	690 bar	10.000 psi



1. I Fittings and Adapters

NPT Female x Medium Pressure Male

Description	Max Working Pressure	
1/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
1/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
1/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
1/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
1/4" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
1/4" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
1/4" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
1/4" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
1/4" NPT Female x 1" MP Male	1.035 bar	15.000 psi
3/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
3/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
3/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
3/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
3/8" NPT Female x 1" MP Male	1.035 bar	15.000 psi
1/2" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
1/2" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
1/2" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
1/2" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
1/2" NPT Female x 1" MP Male	1.035 bar	15.000 psi
3/4" NPT Female x 3/8" MP Male	690 bar	10.000 psi
3/4" NPT Female x 9/16" MP Male	690 bar	10.000 psi
3/4" NPT Female x 3/4" MP Male	690 bar	10.000 psi
3/4" NPT Female x 1" MP Male	690 bar	10.000 psi
1" NPT Female x 3/8" MP Male	690 bar	10.000 psi
1" NPT Female x 9/16" MP Male	690 bar	10.000 psi
1" NPT Female x 3/4" MP Male	690 bar	10.000 psi
1" NPT Female x 1" MP Male	690 bar	10.000 psi



NPT Male x Male

Description	Max Working Pressure	
1/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
1/4" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
1/4" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
3/8" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/2" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
1/2" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/2" NPT Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/4" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
3/4" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
3/4" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
3/4" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
1" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
1" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
1" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
1" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
1" NPT Male x 1" NPT Male	690 bar	10.000 psi



1. I Fittings and Adapters

NPT Female x NPT Male (Bushings)

Description	Max Working Pressure	
1/16" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
1/16" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/16" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/16" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
1/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
1/4" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
1/4" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
1/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
1/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
3/8" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
3/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
3/8" NPT Female x 1" NPT Male	690 bar	10.000 psi
1/2" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
1/2" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
1/2" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
1/2" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
1/2" NPT Female x 1" NPT Male	690 bar	10.000 psi
3/4" NPT Female x 1/4" NPT Male	690 bar	10.000 psi
3/4" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
3/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
3/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
1" NPT Female x 3/8" NPT Male	690 bar	10.000 psi
1" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
1" NPT Female x 3/4" NPT Male	690 bar	10.000 psi



NPT Heavy Duty Couplers

Description	Max Working Pressure	
1/4" NPT Female Coupler	1.035 bar	15.000 psi
3/8" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
3/8" NPT Female Coupler	1.035 bar	15.000 psi
1/2" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
1/2" NPT Female x 3/8" NPT Female Coupler	1.035 bar	15.000 psi
1/2" NPT Female Coupler	1.035 bar	15.000 psi
3/4" NPT Female x 1/4" NPT Female Couple	690 bar	10.000 psi
3/4" NPT Female x 3/8" NPT Female Couple	690 bar	10.000 psi
3/4" NPT Female x 1/2" NPT Female Couple	690 bar	10.000 psi
3/4" NPT Female Coupler	690 bar	10.000 psi
1" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
1" NPT Female x 3/4" NPT Female Coupler	690 bar	10.000 psi
1" NPT Female Coupler	690 bar	10.000 psi



1. I Fittings and Adapters

NPT Slimline Couplers

Slimline couplers are designed to be used ONLY for high pressure waterjetting applications, such as tube bundle cleaning

Description	Max Working Pressure	
1/16" NPT Female Slimline Coupler 0.375" OD	690 bar	10.000 psi
1/8" NPT Female x 1/16" NPT Female Slimline Coupler 0.480" OD	690 bar	10.000 psi
1/8" NPT Female Slimline Coupler 0.480" OD	690 bar	10.000 psi
1/4" NPT Female Slimline Coupler 0.690" OD	690 bar	10.000 psi
3/8" NPT Female Slimline Coupler 0.875" OD	690 bar	10.000 psi
1/2" NPT Female Slimline Coupler 1.130" OD	690 bar	10.000 psi



JIC Male x JIC Male

Description	Max Working Pressure	
1/4" JIC Male x 1/4" JIC Male	1.035 bar	15.000 psi
1/4" JIC Male x 3/8" JIC Male	1.035 bar	15.000 psi
1/4" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/8" JIC Male	1.035 bar	15.000 psi
3/8" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
1/2" JIC Male x 1/2" JIC Male	1.035 bar	15.000 psi
1" JIC Male x 1" JIC Male	690 bar	10.000 psi



JIC Male x High-Pressure Male

Description	Max Working Pressure	
1/4" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
1/4" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
1/4" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi
3/8" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
3/8" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi
1/2" JIC Male x 1/4" HP Male	1.035 bar	15.000 psi
1/2" JIC Male x 3/8" HP Male	1.035 bar	15.000 psi
1/2" JIC Male x 9/16" HP Male	1.035 bar	15.000 psi



JIC Male x Medium Pressure Male

Description	Max Working Pressure	
1/4" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
1/4" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
1/4" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/4" MP Male	1.035 bar	15.000 psi
3/8" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
3/8" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
1/2" JIC Male x 3/4" MP Male	1.035 bar	15.000 psi
1/2" JIC Male x 1" MP Male	1.035 bar	15.000 psi
1/2" JIC Male x 1/4" MP Male	1.035 bar	15.000 psi
1/2" JIC Male x 3/8" MP Male	1.035 bar	15.000 psi
1/2" JIC Male x 9/16" MP Male	1.035 bar	15.000 psi
3/4" JIC Male x 9/16" MP Male	690 bar	10.000 psi
3/4" JIC Male x 3/4" MP Male	690 bar	10.000 psi
3/4" JIC Male x 1" MP Male	690 bar	10.000 psi
1" JIC Male x 9/16" MP Male	690 bar	10.000 psi
1" JIC Male x 3/4" MP Male	690 bar	10.000 psi
1" JIC Male x 1" MP Male	690 bar	10.000 psi



1. I Fittings and Adapters

JIC Male x NPT Male

Description	Max Working Pressure	
1/4" JIC Male x 1/8" NPT Male	1.035 bar	15.000 psi
1/4" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/4" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
3/8" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
3/8" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
1/2" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
1/2" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
1/2" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
1/2" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
1/2" JIC Male x 1" NPT Male	690 bar	10.000 psi
3/4" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
3/4" JIC Male x 1" NPT Male	690 bar	10.000 psi
1" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
1" JIC Male x 1" NPT Male	690 bar	10.000 psi



Type M Male x Male

Description	Max Working Pressure	
9/16"-18 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
3/4"-16 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
3/4"-16 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
7/8"-14 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
7/8"-14 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
7/8"-14 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
1"-12 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
1"-12 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
1"-12 Type M x 1"-12 Type M	2.070 bar	30.000 psi
1 1/8"-12 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
1 1/8"-12 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
1 1/8"-12 Type M x 1 1/8"-12 Type M	3.450 bar	50.000 psi
1 5/16"-12 Type M x 9/16"-18 Type M	1.380 bar	20.000 psi
1 5/16"-12 Type M x 3/4"-16 Type M	1.380 bar	20.000 psi
1 5/16"-12 Type M x 1"-12 Type M	1.380 bar	20.000 psi
1 5/16"-12 Type M x 1 5/16"-12 Type M	1.380 bar	20.000 psi



1. I Fittings and Adapters

Type M Male x High-Pressure Male

Description	Max Working Pressure	
9/16"-18 Type M x 1/4" HP Male	3.450 bar	50.000 psi
9/16"-18 Type M x 3/8" HP Male	3.450 bar	50.000 psi
9/16"-18 Type M x 9/16" HP Male	3.450 bar	50.000 psi
3/4"-16 Type M x 1/4" HP Male	2.070 bar	30.000 psi
3/4"-16 Type M x 3/8" HP Male	2.070 bar	30.000 psi
3/4"-16 Type M x 9/16" HP Male	2.070 bar	30.000 psi
7/8"-14 Type M x 3/8" HP Male	3.450 bar	50.000 psi
7/8"-14 Type M x 9/16" HP Male	3.450 bar	50.000 psi
1"-12 Type M x 3/8" HP Male	2.070 bar	30.000 psi
1"-12 Type M x 9/16" HP Male	2.070 bar	30.000 psi
1 1/8"-12 Type M x 9/16" HP Male	3.450 bar	50.000 psi
1 5/16"-12 Type M x 9/16" HP Male	1.380 bar	20.000 psi



Type M Male x Medium Pressure Male

Description	Max Working Pressure	
9/16"-18 Type M x 1/4" MP Male	1.380 bar	20.000 psi
9/16"-18 Type M x 3/8" MP Male	1.380 bar	20.000 psi
9/16"-18 Type M x 9/16" MP Male	1.380 bar	20.000 psi
9/16"-18 Type M x 3/4" MP Male	1.380 bar	20.000 psi
9/16"-18 Type M x 1" MP Male	1.380 bar	20.000 psi
3/4"-16 Type M x 1/4" MP Male	1.380 bar	20.000 psi
3/4"-16 Type M x 3/8" MP Male	1.380 bar	20.000 psi
3/4"-16 Type M x 9/16" MP Male	1.380 bar	20.000 psi
3/4"-16 Type M x 3/4" MP Male	1.380 bar	20.000 psi
3/4"-16 Type M x 1" MP Male	1.380 bar	20.000 psi
1"-12 Type M x 1/4" MP Male	1.380 bar	20.000 psi
1"-12 Type M x 3/8" MP Male	1.380 bar	20.000 psi
1"-12 Type M x 1/2" MP Male	1.380 bar	20.000 psi
1"-12 Type M x 3/4" MP Male	1.380 bar	20.000 psi
1"-12 Type M x 1" MP Male	1.380 bar	20.000 psi
1 5/16" Type M x 1/2" MP Male	1.380 bar	20.000 psi
1 5/16" Type M x 3/4" MP Male	1.380 bar	20.000 psi
1 5/16" Type M x 1" MP Male	1.380 bar	20.000 psi



1. I Fittings and Adapters

Type M Male x NPT Male

Description	Max Working Pressure	
9/16"-18 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
9/16"-18 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
9/16"-18 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
9/16"-18 Type M x 3/4" NPT Male	690 bar	10.000 psi
9/16"-18 Type M x 1" NPT Male	690 bar	10.000 psi
3/4"-16 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
3/4"-16 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
3/4"-16 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
3/4"-16 Type M x 3/4" NPT Male	690 bar	10.000 psi
3/4"-16 Type M x 1" NPT Male	690 bar	10.000 psi
1"-12 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
1"-12 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
1"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
1"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
1"-12 Type M x 1" NPT Male	690 bar	10.000 psi
1 5/16"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
1 5/16"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
1 5/16"-12 Type M x 1" NPT Male	690 bar	10.000 psi



BSPB Adapters - 60° internal or 120° external sealing cone

Description	Max Working Pressure	
1/4" MBSPP-Ext. x 1/4" HP Male	2.070 bar	30.000 psi
1/4" MBSPP-Ext. x 1/4" MP Male	1.380 bar	20.000 psi
1/4" MBSPP-Ext. x 9/16"-18 Type M Male	2.070 bar	30.000 psi
1/4" MBSPP-Ext. x 1/4" MBSPP-Ext.	2.070 bar	30.000 psi
1/4" MBSPP-Ext. x 1/4" MBSPP-Int.	2.070 bar	30.000



BSPB Male Connectors-Int.

Description	Max Working Pressure	
G1/4" Male Connector	2.070 bar	30.000 psi
G1/4" Male Connector	3.200 bar	46.400 psi
G3/8" Male Connector	2.070 bar	30.000 psi
G1/2" Male Connector	2.070 bar	30.000 psi
G3/4" Male Connector	2.070 bar	30.000 psi



BSPB Male x NPT Male

Description	Max Working Pressure	
1/4" MBSPP-Int. x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" MBSPP-Int. x 1/2" NPT Male	1.035 bar	15.000 psi
1/4" MBSPP-Ext. x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" MBSPP-Int. x 1/4" NPT Male	1.035 bar	15.000 psi
1/4" MBSPP-Int. x 1/2" NPT Male	1.035 bar	15.000 psi



1. I Fittings and Adapters

BSPP Adapters

Description	Max Working Pressure	
1/4" BSPP Bonded Seal	1.000 bar	14.500 psi
1/4" BSPP Bonded Seal	1.500 bar	21.750 psi

Metric Male x Male

Description	Max Working Pressure	
M14x1.5 Male Connector	1.800 bar	26.100 psi
M14x1.5 Male Connector	3.200 bar	46.400 psi
M18x1.5 Male Connector	1.520 bar	22.040 psi
M20x1.5 Male Connector	1.520 bar	22.040 psi
M20x1.5 Male Connector	2.500 bar	36.250 psi
M22x1.5 Male Connector	1.920 bar	21.750 psi
M22x1.5 Male Connector	2.500 bar	36.250 psi
M24x1.5 Male x M22x1.5 Male Connector	1.920 bar	27.840 psi
M24x1.5 Male x M22x1.5 Male Connector	2.800 bar	40.600 psi
M24x1.5 Male Connector	1.520 bar	22.040 psi
M24x1.5 Male Connector	2.800 bar	40.600 psi
M30x2 Male Connector	1.040 bar	15.080 psi
M30x2 Male Connector	2.000 bar	29.000 psi
M36x2 Male x M24x1.5 Male Connector	1.040 bar	15.080 psi
M36x2 Male x M24x1.5 Male Connector	1.520 bar	22.040 psi
M36x2 Male Connector	1.040 bar	15.080 psi
M36x2 Male Connector	1.520 bar	22.040 psi
M42x2 Male x M36x2 Male Connector	1.040 bar	15.080 psi
M42x2 Male x M36x2 Male Connector	1.520 bar	22.040 psi
M42x2 Male Connector	900 bar	13.050 psi
M42x2 Male Connector	1.400 bar	20.300 psi



Metric Male (for o-ring seal) x BSPP Male

Description	Max Working Pressure	
M24x1.5 Male x 1/4" BSP Male Connector	1.800 bar	26.100 psi
M24x1.5 Male x 1/4" BSP Male Connector	3.200 bar	46.400 psi
M24x1.5 Male x 3/8" BSP Male Connector	1.500 bar	21.750 psi



1. Elbows

High-Pressure Female Elbows (UNF) - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female Elbow	4.140 bar	60.000 psi
3/8" HP Female Elbow	4.140 bar	60.000 psi
9/16" HP Female Elbow	4.140 bar	60.000 psi



Medium Pressure Female Elbows - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" MP Female Elbow	1.380 bar	20.000 psi
3/8" MP Female Elbow	1.380 bar	20.000 psi
9/16" MP Female Elbow	1.380 bar	20.000 psi
3/4" MP Female Elbow	1.380 bar	20.000 psi
1" MP Female Elbow	1.380 bar	20.000 psi



NPT Female Elbows

Description	Max Working Pressure	
1/4" NPT Female Elbow	1.035 bar	15.000 psi
3/8" NPT Female Elbow	1.035 bar	15.000 psi
1/2" NPT Female Elbow	1.035 bar	15.000 psi
3/4" NPT Female Elbow	690 bar	10.000 psi
1" NPT Female Elbow	690 bar	10.000 psi



NPT Street Elbows

Description	Max Working Pressure	
1/4" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
3/8" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
1/2" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi



BSPP Elbow

Description	Max Working Pressure	
1/4" MBSP-Ext. Elbow	2.070 bar	30.000 psi



1.3 Tees

High-Pressure Female Tees (UNF) - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female Tee	4.140 bar	60.000 psi
3/8" HP Female Tee	4.140 bar	60.000 psi
9/16" HP Female Tee	4.140 bar	60.000 psi



1.3 Tees

High-Pressure Female Tee (Metric) - including Collars and Gland Nuts

Description	Max Working Pressure	
Tee M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi



Medium Pressure Female Tees - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" MP Female Tee	1.380 bar	20.000 psi
3/8" MP Female Tee	1.380 bar	20.000 psi
9/16" MP Female Tee	1.380 bar	20.000 psi
3/4" MP Female Tee	1.380 bar	20.000 psi
1" MP Female Tee	1.380 bar	20.000 psi



NPT Female Tees

Description	Max Working Pressure	
1/4" NPT Female Tee	1.035 bar	15.000 psi
3/8" NPT Female Tee	1.035 bar	15.000 psi
1/2" NPT Female Tee	1.035 bar	15.000 psi
3/4" NPT Female Tee	690 bar	10.000 psi
1" NPT Female Tee	690 bar	10.000 psi



NPT Street Tees

Description	Max Working Pressure	
1/4" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi
3/8" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi
1/2" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi



BSPP Tees

Description	Max Working Pressure	
1/4" BSPP-Ext. Female Tee	2.070 bar	30.000 psi



1.4 Y's

High-Pressure Female Y's (Metric) - including Collars and Gland Nuts

Description	Max Working Pressure	
Y M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi



1.5 Crosses

High-Pressure Female Crosses (UNF) - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female Cross	4.140 bar	60.000 psi
3/8" HP Female Cross	4.140 bar	60.000 psi
9/16" HP Female Cross	4.140 bar	60.000 psi



Medium Pressure Female Crosses - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" MP Female Cross	1.380 bar	20.000 psi
3/8" MP Female Cross	1.380 bar	20.000 psi
9/16" MP Female Cross	1.380 bar	20.000 psi
3/4" MP Female Cross	1.380 bar	20.000 psi
1" MP Female Cross	1.380 bar	20.000 psi



NPT Female Crosses

Description	Max Working Pressure	
1/4" NPT Female Cross	1.035 bar	15.000 psi
3/8" NPT Female Cross	1.035 bar	15.000 psi
1/2" NPT Female Cross	1.035 bar	15.000 psi
3/4" NPT Female Cross	690 bar	10.000 psi
1" NPT Female Cross	690 bar	10.000 psi



BSPP Crosses

Description	Max Working Pressure	
1/4" BSPP-Ext. Female Cross	2.070 bar	30.000 psi



1.6 Bulkhead

High-Pressure Bulkheads (UNF) - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" HP Female Bulkhead	4.140 bar	60.000 psi
3/8" HP Female Bulkhead	4.140 bar	60.000 psi
9/16" HP Female Bulkhead	4.140 bar	60.000 psi



High-Pressure Bulkheads (Metric) - including Collars and Gland Nuts

Description	Max Working Pressure	
Bulkhead coupling M30x2	4.000 bar	58.000 psi



Medium Pressure Bulkheads - including Collars and Gland Nuts

Description	Max Working Pressure	
1/4" MP Female Bulkhead	1.380 bar	20.000 psi
3/8" MP Female Bulkhead	1.380 bar	20.000 psi
9/16" MP Female Bulkhead	1.380 bar	20.000 psi
3/4" MP Female Bulkhead	1.380 bar	20.000 psi
1" MP Female Bulkhead	1.380 bar	20.000 psi



1.7 Tube Nipples

High-Pressure Tube Nipples

Description	Max Working Pressure	
1/4" HP Nipple x 3" Long	4.140 bar	60.000 psi
1/4" HP Nipple x 6" Long	4.140 bar	60.000 psi
1/4" HP Nipple x 8" Long	4.140 bar	60.000 psi
1/4" HP Nipple x 10" Long	4.140 bar	60.000 psi
1/4" HP Nipple x 12" Long	4.140 bar	60.000 psi
3/8" HP Nipple x 3" Long	4.140 bar	60.000 psi
3/8" HP Nipple x 6" Long	4.140 bar	60.000 psi
3/8" HP Nipple x 8" Long	4.140 bar	60.000 psi
3/8" HP Nipple x 10" Long	4.140 bar	60.000 psi
3/8" HP Nipple x 12" Long	4.140 bar	60.000 psi
9/16" HP Nipple x 3" Long	4.140 bar	60.000 psi
9/16" HP Nipple x 6" Long	4.140 bar	60.000 psi
9/16" HP Nipple x 8" Long	4.140 bar	60.000 psi
9/16" HP Nipple x 10" Long	4.140 bar	60.000 psi
9/16" HP Nipple x 12" Long	4.140 bar	60.000 psi



Medium Pressure Tube Nipples

Description	Max Working Pressure	
1/4" MP Nipple x 3" Long	1.380 bar	20.000 psi
1/4" MP Nipple x 6" Long	1.380 bar	20.000 psi
1/4" MP Nipple x 8" Long	1.380 bar	20.000 psi
1/4" MP Nipple x 10" Long	1.380 bar	20.000 psi
1/4" MP Nipple x 12" Long	1.380 bar	20.000 psi
3/8" MP Nipple x 3" Long	1.380 bar	20.000 psi
3/8" MP Nipple x 6" Long	1.380 bar	20.000 psi
3/8" MP Nipple x 8" Long	1.380 bar	20.000 psi
3/8" MP Nipple x 10" Long	1.380 bar	20.000 psi
3/8" MP Nipple x 12" Long	1.380 bar	20.000 psi
9/16" MP Nipple x 3" Long	1.380 bar	20.000 psi
9/16" MP Nipple x 6" Long	1.380 bar	20.000 psi
9/16" MP Nipple x 8" Long	1.380 bar	20.000 psi
9/16" MP Nipple x 10" Long	1.380 bar	20.000 psi
9/16" MP Nipple x 12" Long	1.380 bar	20.000 psi



1.7 Tube Nipples

Medium Pressure Tube Nipples

Description	Max Working Pressure	
1/4" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
1/4" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
1/4" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
1/4" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
1/4" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
3/8" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
3/8" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
3/8" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
3/8" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
3/8" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
1/2" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
1/2" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
1/2" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
1/2" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
1/2" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
3/4" NPT Male Nipple x 4" Long	690 bar	10.000 psi
3/4" NPT Male Nipple x 6" Long	690 bar	10.000 psi
1" NPT Male Nipple x 4" Long	690 bar	10.000 psi
1" NPT Male Nipple x 6" Long	690 bar	10.000 psi



1.8 Plugs

High-Pressure Plugs

Description	Max Working Pressure	
1/4" HP Plug	4.140 bar	60.000 psi
3/8" HP Plug	4.140 bar	60.000 psi
9/16" HP Plug	4.140 bar	60.000 psi



Medium Pressure Plugs

Description	Max Working Pressure	
1/4" MP Plug	1.380 bar	20.000 psi
3/8" MP Plug	1.380 bar	20.000 psi
9/16" MP Plug	1.380 bar	20.000 psi
3/4" MP Plug	1.380 bar	20.000 psi
1" MP Plug	1.380 bar	20.000 psi



NPT Plugs

Description	Max Working Pressure	
1/16" NPT Male Plug	1.035 bar	15.000 psi
1/8" NPT Male Plug	1.035 bar	15.000 psi
1/4" NPT Male Plug	1.035 bar	15.000 psi
3/8" NPT Male Plug	1.035 bar	15.000 psi
1/2" NPT Male Plug	1.035 bar	15.000 psi
3/4" NPT Male Plug	690 bar	10.000 psi
1" NPT Male Plug	690 bar	10.000 psi



1.8 Plugs

JIC Plugs

Description	Max Working Pressure	
1/4" JIC Male Plug	1.035 bar	15.000 psi
3/8" JIC Male Plug	1.035 bar	15.000 psi
1/2" JIC Male Plug	1.035 bar	15.000 psi
3/4" JIC Male Plug	690 bar	10.000 psi
1" JIC Male Plug	690 bar	10.000 psi



Type M Plugs

Description	Max Working Pressure	
9/16"-18 Type M Plug	3.450 bar	50.000 psi
3/4"-16 Type M Plug	2.070 bar	30.000 psi
7/8"-14 Type M Plug	2.070 bar	30.000 psi
1"-12 Type M Plug	2.070 bar	30.000 psi
1 1/8"-12 Type M Plug	2.070 bar	30.000 psi
1 5/16"-12 Type M Plug	1.380 bar	20.000 psi



BSPP Plugs - 120° external sealing cone

Description	Max Working Pressure	
1/4" MBSPP-Ext. Plug	2.070 bar	30.000 psi



1.9 Collar & Gland Nut

High-Pressure Gland Nuts & Collars (UNF)

Description	Max Working Pressure	
1/4" HP Collar	4.140 bar	60.000 psi
3/8" HP Collar	4.140 bar	60.000 psi
9/16" HP Collar	4.140 bar	60.000 psi
1/4" HP Gland Nut	4.140 bar	60.000 psi
1/4" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi
3/8" HP Gland Nut	4.140 bar	60.000 psi
3/8" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi
9/16" HP Gland Nut	4.140 bar	60.000 psi
9/16" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi



High-Pressure Gland Nuts & Collars (Metric)

Description	Max Working Pressure	
1/4" HP Collar for M16x1.5 (GN-M16)	4.140 bar	60.000 psi
3/8" HP Collar for M20x1.5 (GN-M20)	4.140 bar	60.000 psi
9/16" HP Collar for M30x2 (GN-M30) & M26x1.5 (GN-M26)	4.140 bar	60.000 psi
M14x1.5 LH Collar for M30x2 (GN-M30) & M26x1.5 (GN-M26)	4.140 bar	60.000 psi
M18x1.5 LH Collar for M30x2 (GN-M30-M18)	4.140 bar	60.000 psi
M16x1.5 Gland Nut	4.140 bar	60.000 psi
M20x1.5 Gland Nut	4.140 bar	60.000 psi
M26x1.5 Gland Nut	4.140 bar	60.000 psi
M30x2 Gland Nut for M18x1.5 (CLR-M18-M30)	4.140 bar	60.000 psi
M30x2 Gland Nut for M14x1.5 LH (CLR-M14) & 9/16"x18UNF LH (CLR-9/16-HP)	4.140 bar	60.000 psi



1.9 Collar & Gland Nut

Medium Pressure Gland Nuts & Collars

Description	Max Working Pressure	
1/4" MP Collar	1.380 bar	20.000 psi
3/8" MP Collar	1.380 bar	20.000 psi
9/16" MP Collar	1.380 bar	20.000 psi
3/4" MP Collar	1.380 bar	20.000 psi
1" MP Collar	1.380 bar	20.000 psi
1/4" MP Gland Nut	1.380 bar	20.000 psi
1/4" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
3/8" MP Gland Nut	1.380 bar	20.000 psi
3/8" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
9/16" MP Gland Nut	1.380 bar	20.000 psi
9/16" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
3/4" MP Gland Nut	1.380 bar	20.000 psi
1" MP Gland Nut	1.380 bar	20.000 psi



1.10 Caps

High-Pressure Caps (UNF)

Description	Max Working Pressure	
1/4" HP Female Cap	4.140 bar	60.000 psi
3/8" HP Female Cap	4.140 bar	60.000 psi
9/16" HP Female Cap	4.140 bar	60.000 psi



Medium Pressure Caps

Description	Max Working Pressure	
1/4" MP Female Cap	1.380 bar	20.000 psi
3/8" MP Female Cap	1.380 bar	20.000 psi
9/16" MP Female Cap	1.380 bar	20.000 psi
3/4" MP Female Cap	1.380 bar	20.000 psi
1" MP Female Cap	1.380 bar	20.000 psi



JIC Caps

Description	Max Working Pressure	
1/4" JIC Female Cap	1.035 bar	15.000 psi
3/8" JIC Female Cap	1.035 bar	15.000 psi
1/2" JIC Female Cap	1.035 bar	15.000 psi
3/4" JIC Female Cap	690 bar	10.000 psi
1" JIC Female Cap	690 bar	10.000 psi



Type M Caps

Description	Max Working Pressure	
9/16"-18 Type M Cap	3.450 bar	50.000 psi
3/4"-16 Type M Cap	2.070 bar	30.000 psi
1"-12 Type M Cap	2.070 bar	30.000 psi
1 5/16"-12 Type M Cap	1.380 bar	20.000 psi



2.1 Screw Type Quick Disconnects

Screw Type Quick Disconnects (no check valve) - Stainless Steel

Description	Max Working Pressure	
9/16" MP Female Screw Together Quick Disconnect Set	1.380 bar	20.000 psi
1/2" NPT Female Screw Together Quick Disconnect Set	1.035 bar	15.000 psi



2.2 Screw Type Quick Disconnects

Screw Type Quick Disconnects (with check valve) - Hydraulic Service

Description	Max Working Pressure	
1/4" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi
Metal cap male 1/4" NPT	0 bar	0 psi
3/8" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi
Metal cap male 3/8" NPT	0 bar	0 psi
1/4" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi
Metal cap 1/4" NPT female	0 bar	0 psi
3/8" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi
Metal cap 3/8" NPT female	0 bar	0 psi



2.3 Push/Pull Type Quick Disconnects

Push/Pull Type Quick Disconnects (no check valve) - Waterblast Service

Description	Max Working Pressure	
1/2" NPT Female Push/Pull Quick Disconnect Coupler	690 bar	10.000 psi
1/2" NPT Female Push/Pull Quick Disconnect Nipple	690 bar	10.000 psi



Push/Pull Type Quick Disconnects (with check valves) including Dust Caps - Hydraulic Service

Description	Max Working Pressure	
High pressure coupler & nipple 1/4" BSP female	1.500 bar	21.750 psi
High pressure coupler 1/4" BSP female	1.500 bar	21.750 psi
High pressure nipple 1/4" BSP female for QRC-0-BF4-EX-21K	1.500 bar	21.750 psi
High pressure coupler & nipple 1/4" NPT female	1.500 bar	21.750 psi
High pressure coupler 1/4" NPT female	1.500 bar	21.750 psi
High pressure nipple 1/4" NPT female for QRC-0-NF4-21K	1.500 bar	21.750 psi



2.4 SPC Series Quick Disconnects

Quick Disconnect Male Nipples without Check Valve

Description	Max Working Pressure	
Coupler with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
Coupler with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
Coupler with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
Coupler with Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
Coupler with Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
Coupler with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
Coupler with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
Coupler with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
Coupler with Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
Coupler with Check Valve x 1" MP Male	1.380 bar	20.000 psi
Coupler with Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
Coupler with Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
Coupler with Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
Coupler with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
Coupler with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
Coupler with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
Coupler with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
Coupler with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
Coupler with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
Coupler with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
Coupler with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
Coupler with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
Coupler with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
Coupler with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
Coupler with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
Coupler with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi



Quick Disconnect Male Nipples with Check Valve

Description	Max Working Pressure	
Nipple with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
Nipple with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
Nipple with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
Nipple with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
Nipple with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
Nipple with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
Nipple with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
Nipple with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
Nipple with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
Nipple with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
Nipple with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
Nipple with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
Nipple with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
Nipple with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
Nipple with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
Nipple with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
Nipple with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
Nipple with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
Nipple with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi



2.4 SPC Series Quick Disconnects

Quick Disconnect Male Nipples without Check Valve

Description	Max Working Pressure	
Nipple without Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
Nipple without Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
Nipple without Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
Nipple without Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
Nipple without Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
Nipple without Check Valve x 9/16" HP Female	2.070 bar	30.000 psi
Nipple without Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
Nipple without Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
Nipple without Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
Nipple without Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
Nipple without Check Valve x 1" MP Male	1.380 bar	20.000 psi
Nipple without Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
Nipple without Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
Nipple without Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
Nipple without Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
Nipple without Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
Nipple without Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
Nipple without Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
Nipple without Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
Nipple without Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
Nipple without Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
Nipple without Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
Nipple without Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
Nipple without Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
Nipple without Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
Nipple without Check Valve x 1"-12 Type M	2.070 bar	30.000 psi



Valves | Tubing

690 bar to 4.140 bar (10.000 psi to 60.000 psi)



Common Description and Additional Information

High-Pressure Adapter

REDFLUID High-Pressure fittings seal with a 60-degree cone and are rated for working pressures up to 4.140 bar/ 60.000 psi

	Common description	Actual Thread Dimension
	1/4" High Pressure	9/16"x18UNF
	3/8" High Pressure	3/4"x16UNF
	9/16" High Pressure	1 1/8"x12UNF

Medium-Pressure Adapter

REDFLUID Medium-Pressure fittings seal with a 60-degree cone and are rated for working pressures up to 20.000 psi.

	Common Description	Actual Thread Dimension
	1/4" Medium Pressure	7/16"x20UNF
	3/8" Medium Pressure	9/16"x18UNF
	9/16" Medium Pressure	1 3/16"x16UNF
	3/4" Medium Pressure	3/4"x 14 NPSM
	1" Medium Pressure	1 3/8"-12 UNF

JIC Adapter

REDFLUID JIC adapters seal with a 37-degree cone and are rated for working pressure up to 15.000 psi.

	Common Description	Working Pressure
	#4 #6 #8	1.035 bar / 15.000 psi
	#12 #16	690 bar / 10.000 psi
	Common Description	Actual Thread Dimension
	#4 1/4" JIC	7/16"x20UNF
	#6 3/8" JIC	9/16"x18UNF
	#8 1/2" JIC	3/4"x16UNF
	#12 3/4" JIC	1 1/16"x12UNF
	#16 1" JIC	1 5/16"x12UNF

NPT Adapter

NPT (National Pipe Taper) fittings have working pressures up to 1.035 bar/15.000 psi. However, working pressure may be decreased depending upon thread size..

	Common Description	Working Pressure
	1/16" NPT bis 1/2" NPT	1.034 bar / 15.000 psi
	3/4" NPT bis 1" NPT	690 bar / 10.000 psi

Type-M Adapter

REDFLUID Type M adapters are used with Type M swivel hose end fittings. These adapters seal with a 58 degree cone and are rated for working pressures up to 3.450 bar/50.000 psi

	Common Description	Actual Thread Dimension
	M9	9/16"x18UNF
	M12	3/4"x16UNF
	M14	7/8"x14UNF
	M16	1"x12UNF
	M18	1 1/8"x12UNF
	M21	1 5/16"x12UNF

Metric adapter

REDFLUID metric adapters (for o-rings) seal with a 24 degree cone

	Common Description	Actual Thread Dimension
	MEM18 MEF18	M18x1,5
	MEM20 MEF20	M20x1,5
	MEM22 MEF22	M22x1,5
	MEM24 MEF24	M24x1,5
	MEM26 MEF26	M26x1,5
	MEM30 MEF30	M30x2
	MEM36 MEF36	M36x2
	MEM42 MEF42	M42x2

BSPP Adapter

REDFLUID BSPP adapters are used with Type M swivel hose end fittings. These adapters seal with a 58 degree cone and are rated for working pressures up to 3.450 bar/50.000 psi.

	Common Description	Cone Dimension
	Ext	120° external sealing cone
	Int	60° internal sealing cone

Needle Valve

REDFLUID needle valves are made to the highest quality standards and thus achieve high safety and a long service life even when used in difficult operating conditions.

The valves can be used with both gaseous and liquid media and can be opened and/or closed in 4 ½ turns. In this connection, we would like to emphasize that REDFLUID AG can also offer quick-opening needle valves for which a mere 1 ¾ turns are needed for opening and/or closing.

In addition, all REDFLUID needle valves allow flow in all directions.

Their innovative design reduces vibrations, which eliminates the necessity of an external clamp to fasten the stem.

The valves are also provided with relief holes.

The marking on the valves allows them to be traced at any time.

In addition, the REDFLUID needle valves are supplied including collar + gland nut.

Besides hand-operated needle valves REDFLUID AG also offers pneumatically operated needle valves.

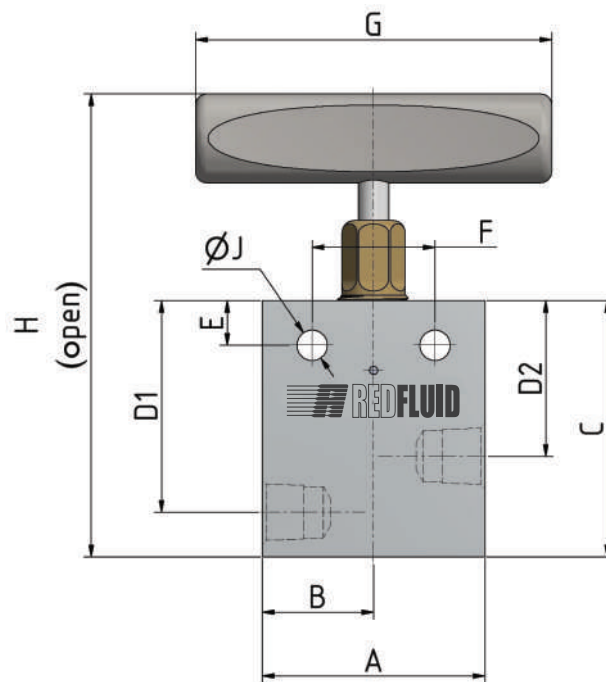
Technical data:

Thread Types:	High-Pressure, Medium-Pressure and NPT
Valve Types:	2-Way Straight Valves, 2-Way Angle Valves, 3-Way Valves (Two inlets under pressure / one inlet under pressure), 3-Way/2-Stem Valves Valves with replaceable seat
Material:	Body: 316 Stainless Steel Stem: 17-4PH Sealing: Glas filled Teflon
Max. Working Pressure:	4.140 bar // 60.000 psi
Temperature:	NPT : -18°C to +204°C HP/MP: -17°C to +315°C

Specials:

- extreme temperatures
- ultra high pressure valves up to
- 100.000 psi
- special materials

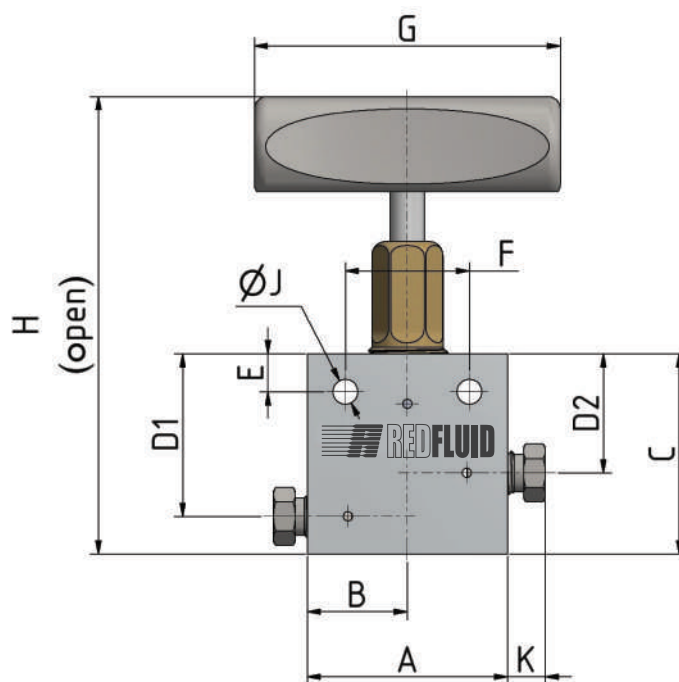
2-Way-Straight-Needle Valve NPT



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 1.035 bar / 15.000 psi				
NF4	NPT	1/4"	6,400	0,252
NF6	NPT	3/8"	7,900	0,311
NF8	NPT	1/2"	7,900	0,311

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	50,80	25,40	50,80	41,28	30,20	9,70	31,50	76,20	123,00	-	6,40	-	25,40
inch	2,00	1,00	2,00	1,63	1,19	0,38	1,24	3,00	4,84	-	0,25	-	1,00
mm	63,50	31,80	73,20	60,40	44,50	12,70	35,00	102,00	139,00	-	8,70	-	25,40
inch	2,50	1,25	2,88	2,38	1,75	0,50	1,38	4,02	5,47	-	0,34	-	1,00
mm	63,50	31,80	76,20	60,40	44,50	12,70	35,00	102,00	142,00	-	8,70	-	31,60
inch	2,50	1,25	3,00	2,38	1,75	0,50	1,38	4,02	5,59	-	0,34	-	1,24

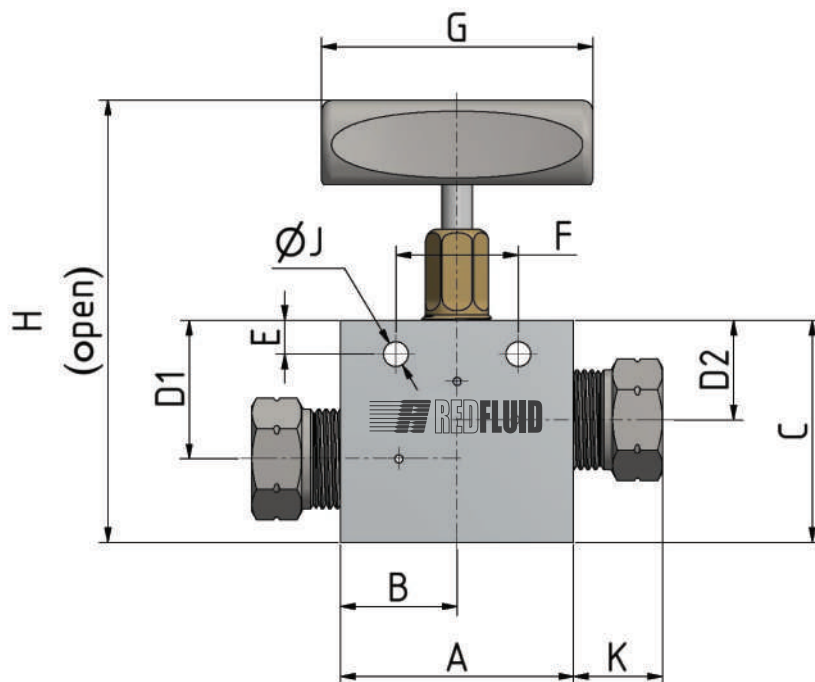
2-Way-Straight-Needle Valve MP



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 1.380 bar / 20.000 psi				
MF4	1/4"x28UNF LH	7/16"-20UNF	3,175	0,125
MF6	3/8"x24UNF LH	9/16"x18UNF	5,080	0,200
MF9	9/16"x18UNF LH	13/16"-16UNF	7,925	0,312
MF12	3/4"x16UNF LH	3/4"x14UNF	11,125	0,438
MF16	1"x14UNF LH	1-3/8"x12UNF	14,275	0,562

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	50,80	25,40	50,80	41,40	30,23	9,65	31,50	76,20	122,94	-	6,35	9,65	25,40
inch	2,00	1,00	2,00	1,63	1,19	0,38	1,24	3,00	4,84	-	0,25	0,38	1,00
mm	50,80	25,40	50,80	41,40	30,23	9,65	31,50	76,20	122,94	-	6,35	12,19	25,40
inch	2,00	1,00	2,00	1,63	1,19	0,38	1,24	3,00	4,84	-	0,25	0,48	1,00
mm	63,50	31,75	73,15	60,45	44,45	12,70	35,05	102,00	138,68	-	8,64	17,27	25,40
inch	2,50	1,25	2,88	2,38	1,75	0,50	1,38	4,02	5,46	-	0,34	0,68	1,00
mm	76,20	38,10	95,25	76,20	57,15	15,75	44,45	204,98	179,58	-	11,18	14,99	35,05
inch	3,00	1,50	3,75	3,00	2,25	0,62	1,75	8,07	7,07	-	0,44	0,59	1,38
mm	104,65	52,32	120,65	95,25	71,63	28,45	63,50	261,37	227,58	-	14,22	18,80	44,45
inch	4,12	2,06	4,75	3,75	2,82	1,12	2,50	10,29	8,96	-	0,56	0,74	1,75

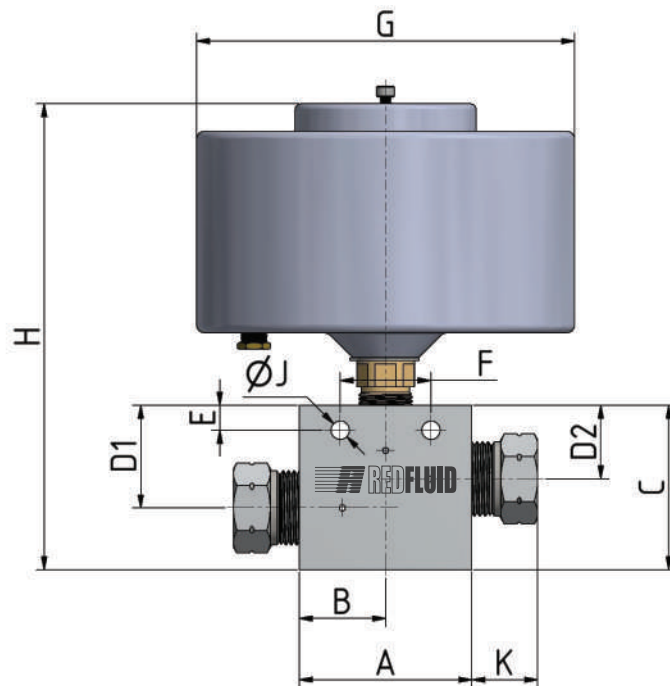
2-Way-Straight-Needle Valve HP



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 2.070 bar / 30.000 psi				
HF4	1/4"x28UNF LH	9/16"x18UNF	2,362	0,093
HF6	3/8"x24UNF LH	3/4"-16UNF	3,175	0,125
HF9	9/16"x18UNF LH	1-1/8"x12UNF	3,175	0,125
Working pressure 4.140 bar / 60.000 psi				
HF4	1/4"x28UNF LH	9/16"x18UNF	1,575	0,062
HF6	3/8"x24UNF LH	3/4"-16UNF	1,575	0,062
HF9	9/16"x18UNF LH	1-1/8"x12UNF	1,575	0,062

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	50,80	25,40	50,80	38,10	28,45	9,65	35,05	76,20	120,40	-	7,11	14,99	25,40
inch	2,00	1,00	2,00	1,50	1,12	0,38	1,38	3,00	4,74	-	0,28	0,59	1,00
mm	50,80	25,40	53,85	42,93	33,27	9,65	35,05	76,20	124,21	-	7,11	14,99	25,40
inch	2,00	1,00	2,12	1,69	1,31	0,38	1,38	3,00	4,89	-	0,28	0,59	1,00
mm	50,80	25,40	50,80	38,10	28,45	9,65	35,05	76,20	120,40	-	7,11	18,29	25,40
inch	2,00	1,00	2,00	1,50	1,12	0,38	1,38	3,00	4,74	-	0,28	0,72	1,00
mm	50,80	25,40	57,15	42,93	33,27	9,65	35,05	76,20	127,51	-	7,11	18,29	25,40
inch	2,00	1,00	2,25	1,69	1,31	0,38	1,38	3,00	5,02	-	0,28	0,72	1,00
mm	66,55	33,27	62,00	39,62	28,45	9,65	35,05	76,20	131,60	-	7,11	25,40	38,10
inch	2,62	1,31	2,44	1,56	1,12	0,38	1,38	3,00	5,18	-	0,28	1,00	1,50
mm	66,55	33,27	63,50	44,45	33,27	9,65	35,05	76,20	133,86	-	7,11	25,40	38,10
inch	2,62	1,31	2,50	1,75	1,31	0,38	1,38	3,00	5,27	-	0,28	1,00	1,50

Actuated 2-Way-Straight-Needle Valve



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 690 bar / 10.000 psi				
NF8		1/2"		-
Working pressure 1.035 bar / 15.000 psi				
NF4		1/4"		-
NF6		3/8"		-

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	50,80	25,40	50,80	41,28	30,20	9,70	31,50	-	-	-	6,40	-	25,40
inch	2,00	1,00	2,00	1,63	1,19	0,38	1,24	-	-	-	0,25	-	1,00
mm	63,50	31,80	73,20	60,40	44,50	12,70	35,00	-	-	-	8,70	-	25,40
inch	2,50	1,25	2,88	2,38	1,75	0,50	1,38	-	-	-	0,34	-	1,00
mm	63,50	31,80	76,20	60,40	44,50	12,70	35,00	-	-	-	8,70	-	31,60
inch	2,50	1,25	3,00	2,38	1,75	0,50	1,38	-	-	-	0,34	-	1,24

Ball Valve

In order to achieve the highest quality standards and ensure high safety and a long service life even under difficult operating conditions, all REDFLUID ball valves are manufactured in trunnion style. In this connection, we would like to emphasize that the valves can be offered with various orifice sizes. The valves are also provided with relief holes. The marking on the valves allows them to be traced at any time. In addition, the REDFLUID ball valves are supplied including collar + gland nut.

Technical data:

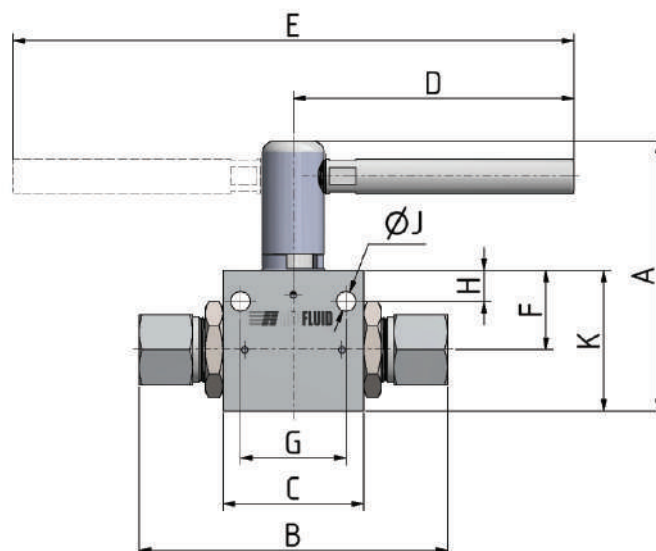
Thread Types:	High Pressure, Medium Pressure and NPT
Valves Types:	2-Way Straight Valves, 3-Way Valves (90° diverting), 3-Way Valves (180° switching),
Material:	Body: 316 Stainless Steel Sealing: O-Ring with PEEK Backup Ring
Max. Working Pressure	1.380 bar // 20.000 psi
Temperature	-28°C to +204°C

Specials:

- extreme temperatures
- special materials
- electrical actuators

ATTENTION: We recommend not to use REDFLUID ball valves with molecular gases (helium/hydrogen).

2-Way-Straight-Ball Valve NPT



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch

Working pressure 690 bar / 10.000 psi

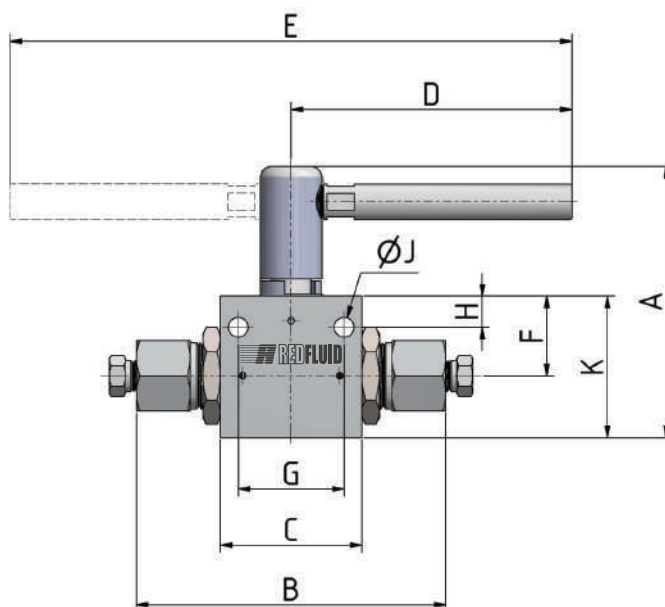
NF12		3/4"	12,700	0,500
NF16		1"	12,700	0,500

Working pressure 1.035 bar / 15.000 psi

NF4		1/4"	6,350	0,250
NF4		1/4"	9,530	0,375
NF6		3/8"	6,350	0,250
NF6		3/8"	9,530	0,375
NF8		1/2"	6,350	0,250
NF8		1/2"	9,530	0,375
NF8		1/2"	12,700	0,500

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	141,50	195,30	104,90	130,30	-	260,60	44,70	76,20	12,70	-	7,10	78,50	-
inch	5,57	7,69	4,13	5,13	-	10,26	1,76	3,00	0,50	-	0,28	3,09	-
mm	141,50	195,30	104,90	130,30	-	260,60	44,70	76,20	12,70	-	7,10	78,50	-
inch	5,57	7,69	4,13	5,13	-	10,26	1,76	3,00	0,50	-	0,28	3,09	-
mm	141,50	195,30	104,90	130,30	-	260,60	44,70	76,20	12,70	-	7,10	78,50	-
inch	5,57	7,69	4,13	5,13	-	10,26	1,76	3,00	0,50	-	0,28	3,09	-

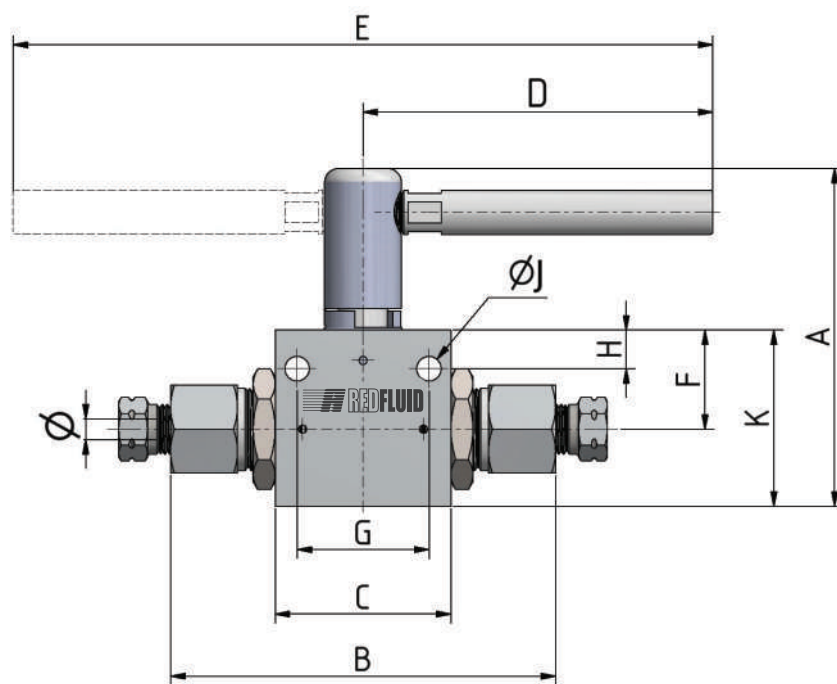
2-Way-Straight-Ball Valve MP & HP



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 1.035 bar / 15.000 psi				
MF12	3/4"x16UNF LH	3/4"x14UNF	12,700	0,500
MF16	1"x14UNF LH	1-3/8"x12UNF	12,700	0,500
Working pressure 1.380 bar / 20.000 psi				
MF4	1/4"x28UNF LH	7/16"-20UNF	6,350	0,250
MF4	1/4"x28UNF LH	7/16"-20UNF	9,530	0,375
MF6	3/8"x24UNF LH	9/16"x18UNF	6,350	0,250
MF6	3/8"x24UNF LH	9/16"x18UNF	9,530	0,375
MF9	9/16"x18UNF LH	13/16"-16UNF	6,350	0,250
MF9	9/16"x18UNF LH	13/16"-16UNF	9,530	0,375
MF12	3/4"x16UNF LH	3/4"x14UNF	9,530	0,375

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	110,20	140,70	76,20	102,10	-	-	35,10	50,80	10,40	-	7,10	63,50	-
inch	4,34	5,54	3,00	4,02	-	-	1,38	2,00	0,41	-	0,28	2,50	-
mm	141,50	195,30	104,90	130,30	-	260,60	44,70	76,20	12,70	-	7,10	78,50	-
inch	5,57	7,69	4,13	5,13	-	10,26	1,76	3,00	0,50	-	0,28	3,09	-
mm	141,50	195,30	104,90	130,30	-	260,60	44,70	76,20	12,70	-	7,10	78,50	-
inch	5,57	7,69	4,13	5,13	-	10,26	1,76	3,00	0,50	-	0,28	3,09	-

2-Way-Straight-Ball Valve MP & HP



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 1.380 bar / 20.000 psi				
HF4	1/4"x28UNF LH	9/16"x18UNF	6,350	0,250
HF6	3/8"x24UNF LH	3/4"-16UNF	6,350	0,250
HF9	9/16"x18UNF LH	1-1/8"x12UNF	6,350	0,250

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-
mm	97,30	110,50	50,80	101,10	-	-	28,70	38,10	11,20	-	7,10	50,80	-
inch	3,83	4,35	2,00	3,98	-	-	1,13	1,50	0,44	-	0,28	2,00	-

Check Valve

REDFLUID check valves distinguish themselves by their long useful life and prevent return flow and damage in pressure systems.

In this range of products, REDFLUID AG offers both ball and O-ring check valves.

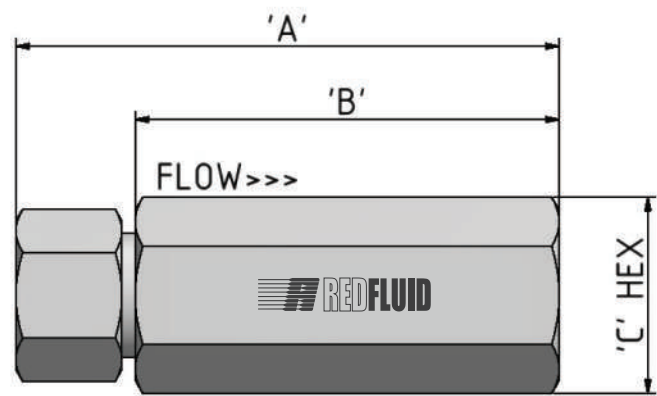
While the O-ring check valve is frequently used in gas applications, the ball check valve can often be found in applications with high temperatures and dynamic pressures.

Technical data:

Thread Types:	High-Pressure, Medium-Pressure and NPT
Valve Types:	Soft Seated Check Valves Ball Seated Check Valves
Material:	Body: 316 Stainless Steel Sealing: PEEK
Max. Working Pressure:	4.140 bar // 60.000 psi
Cracking Pressure:	1 bar // 15 psi
Temperature:	Soft seated valve HP/MP: -45°C bis +204 °C Soft seated valve NPT: -18°C bis +204°C Ball seated valve HP/MP: -80°C bis +260°C Ball seated valve NPT: -18°C bis +204°C

Soft Seated-Check Valve

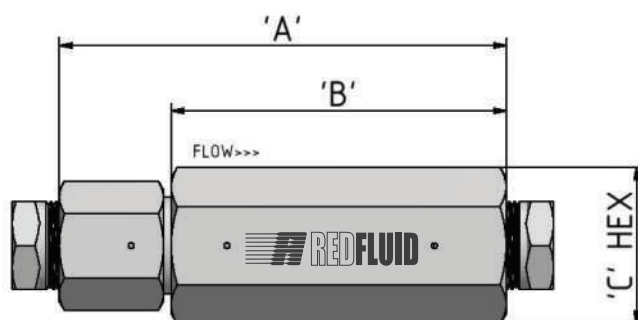
NPT



Thread Description	Tube Thread	Screw-in Thread	Orifice					
			mm	inch				
Working pressure 690 bar / 10.000 psi								
NF12	3/4"		13,106	0,516				
NF16	1"		17,475	0,688				
Working pressure 1.035 bar / 15.000 psi								
NF4	1/4"		4,775	0,188				
NF6	3/8"		5,563	0,219				
NF8	9/16"		9,119	0,359				
Unit	Dimensions							
	A	B	C	D1	D2	E	F	G
mm	81,28	63,50	25,40	-	-	-	-	-
inch	3,20	2,50	1,00	-	-	-	-	-
mm	90,42	66,00	28,70	-	-	-	-	-
inch	3,56	2,60	1,13	-	-	-	-	-
mm	117,60	88,90	35,10	-	-	-	-	-
inch	4,63	3,50	1,38	-	-	-	-	-
mm	143,00	111,25	44,45	-	-	-	-	-
inch	5,63	4,38	1,75	-	-	-	-	-
mm	177,80	133,35	54,10	-	-	-	-	-
inch	7,00	5,25	2,13	-	-	-	-	-

Soft Seated-Check Valve

MP

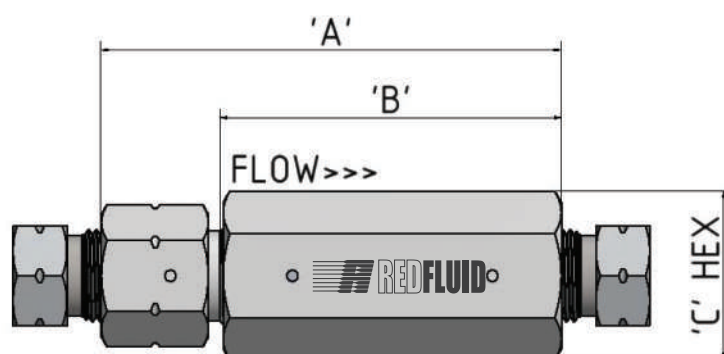


Thread	Tube Thread	Screw-in Thread	Orifice	
Description			mm	inch
Working pressure 1.380 bar / 20.000 psi				
MF4	1/4"x28UNF LH	7/16"-20UNF	3,175	0,125
MF6	3/8"x24UNF LH	9/16"x18UNF	5,563	0,219
MF9	9/16"x18UNF LH	13/16"-16UNF	9,119	0,359
MF12	3/4"x16UNF LH	3/4"x14UNF	13,106	0,516
MF16	1"x14UNF LH	1-3/8"x12UNF	17,475	0,688

Unit	Dimensions											
	A	B	C	D1	D2	E	F	G	H	I	J	K
mm	77,98	63,50	25,40	-	-	-	-	-	-	-	-	-
inch	3,07	2,50	1,00	-	-	-	-	-	-	-	-	-
mm	88,39	66,00	28,70	-	-	-	-	-	-	-	-	-
inch	3,48	2,60	1,13	-	-	-	-	-	-	-	-	-
mm	120,90	88,90	35,05	-	-	-	-	-	-	-	-	-
inch	4,76	3,50	1,38	-	-	-	-	-	-	-	-	-
mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-
inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-
mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-
inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-

Soft Seated-Check Valve

HP

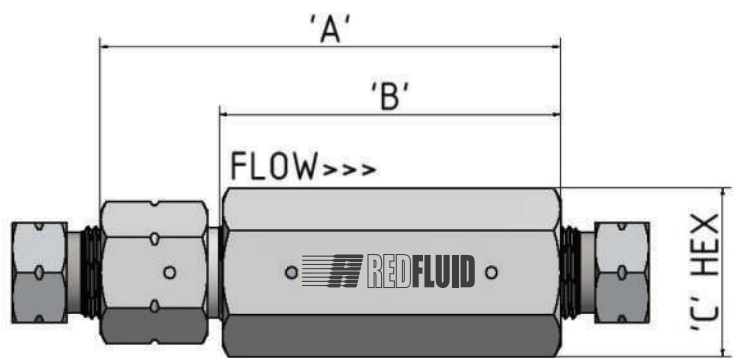


Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 4.140 bar / 60.000 psi				
HF4	1/4"x28UNF LH	9/16"x18UNF	2,388	0,094
HF6	3/8"x24UNF LH	3/4"-16UNF	3,175	0,125
HF9	9/16"x18UNF LH	1-1/8"x12UNF	4,775	0,188

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	82,80	63,50	31,75	-	-	-	-	-	-	-	-	-	-
inch	3,26	2,50	1,25	-	-	-	-	-	-	-	-	-	-
mm	95,25	69,85	31,75	-	-	-	-	-	-	-	-	-	-
inch	3,75	2,75	1,25	-	-	-	-	-	-	-	-	-	-
mm	117,60	85,85	38,10	-	-	-	-	-	-	-	-	-	-
inch	4,63	3,38	1,50	-	-	-	-	-	-	-	-	-	-

Ball Seated-Check Valve

HP

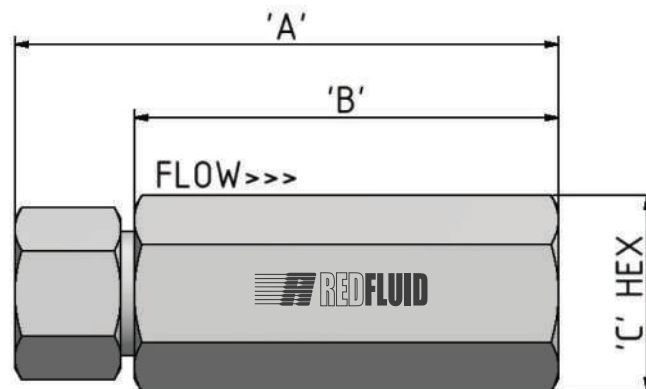


Description			mm	inch
Working pressure 4.140 bar / 60.000 psi				
HF4	1/4"x28UNF LH	9/16"x18UNF	2,388	0,094
HF6	3/8"x24UNF LH	3/4"-16UNF	3,175	0,125
HF9	9/16"x18UNF LH	1-1/8"x12UNF	4,775	0,188

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	82,80	63,50	31,75	-	-	-	-	-	-	-	-	-	-
inch	3,26	2,50	1,25	-	-	-	-	-	-	-	-	-	-
mm	95,25	69,85	31,75	-	-	-	-	-	-	-	-	-	-
inch	3,75	2,75	1,25	-	-	-	-	-	-	-	-	-	-
mm	117,60	85,85	38,10	-	-	-	-	-	-	-	-	-	-
inch	4,63	3,38	1,50	-	-	-	-	-	-	-	-	-	-

Ball Seated-Check Valve

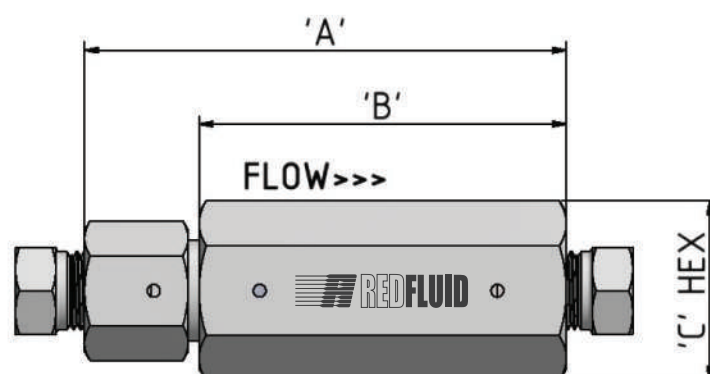
NPT



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 690 bar / 10.000 psi				
NF12		3/4"	13,106	0,516
NF16		1"	17,475	0,688
Working pressure 1.035 bar / 15.000 psi				
NF4		1/4"	4,775	0,188
NF6		3/8"	5,563	0,219
NF8		9/16"	9,119	0,359

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	81,28	63,50	25,40	-	-	-	-	-	-	-	-	-	-
inch	3,20	2,50	1,00	-	-	-	-	-	-	-	-	-	-
mm	90,42	66,00	28,70	-	-	-	-	-	-	-	-	-	-
inch	3,56	2,60	1,13	-	-	-	-	-	-	-	-	-	-
mm	117,60	88,90	35,10	-	-	-	-	-	-	-	-	-	-
inch	4,63	3,50	1,38	-	-	-	-	-	-	-	-	-	-
mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-

2-Way-Straight-Ball Valve



Thread Description	Tube Thread	Screw-in Thread	Orifice	
			mm	inch
Working pressure 1.380 bar / 20.000 psi				
MF4	1/4"x28UNF LH	7/16"-20UNF	3,175	0,125
MF6	3/8"x24UNF LH	9/16"x18UNF	5,563	0,219
MF9	9/16"x18UNF LH	13/16"-16UNF	9,119	0,359
MF12	3/4"x16UNF LH	3/4"x14UNF	13,106	0,516
MF16	1"x14UNF LH	1-3/8"x12UNF	17,475	0,688

Unit	Dimensions												
	A	B	C	D1	D2	E	F	G	H	I	J	K	L
mm	77,98	63,50	25,40	-	-	-	-	-	-	-	-	-	-
inch	3,07	2,50	1,00	-	-	-	-	-	-	-	-	-	-
mm	88,39	66,00	28,70	-	-	-	-	-	-	-	-	-	-
inch	3,48	2,60	1,13	-	-	-	-	-	-	-	-	-	-
mm	120,90	88,90	35,05	-	-	-	-	-	-	-	-	-	-
inch	4,76	3,50	1,38	-	-	-	-	-	-	-	-	-	-
mm	143,00	111,25	44,45	-	-	-	-	-	-	-	-	-	-
inch	5,63	4,38	1,75	-	-	-	-	-	-	-	-	-	-
mm	177,80	133,35	54,10	-	-	-	-	-	-	-	-	-	-
inch	7,00	5,25	2,13	-	-	-	-	-	-	-	-	-	-

The high-pressure tubing made by REDFLUID, which can be used in pressure ranges of up to 4,140 bar / 60,000 psi, has a standard length of 6 m. It is seamless-drawn from stainless steel, thanks to which it achieves its high quality and safety. Besides the standard lengths, REDFLUID also offers the tubing cut to shorter lengths.

Technical Data:

Standard Length:	6m
Tubing Types:	High Pressure, Medium Pressure
Material:	316 Stainless Steel
Max. Working Pressure:	4.140 bar // 60.000 psi
Temperature:	-252°C bis +649°C

Size	max. working pressure		OD	ID	Wall Thickness	Weight
Inch	Bar	PSI	mm	mm	mm	kg/m
1/4"	1.380	20.000	6.35	2.77	1.79	0.21
1/4"	4.140	60.000	6.35	2.11	2.12	0.23
3/8"	1.380	20.000	9.53	5.16	2.18	0.4
3/8"	4.140	60.000	9.53	3.18	3.18	0.51
9/16"	1.380	20.000	14.29	7.92	3.18	0.89
9/16"	4.140	60.000	14.29	4.78	4.76	1.14
3/4"	1.380	20.000	19.05	11.13	3.96	1.5
1"	1.380	20.000	25.4	14.27	5.56	2.77

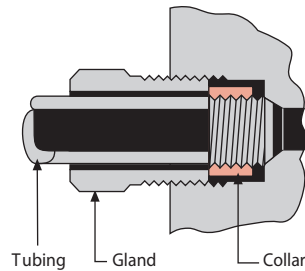
Tolerances			
max. OD	min. OD	max. ID	min. ID
mm	mm	mm	mm
6.30	6.17	2.77	2.64
6.30	6.17	2.11	2.01
9.40	9.27	5.16	5.03
9.40	9.27	3.18	3.07
14.15	14.02	7.92	7.80
14.15	14.02	4.75	4.62
18.92	18.80	11.13	10.97
25.27	25.15	14.27	14.15



Medium Pressure Connections

The Medium Pressure tubing connection is available for 1/4", 3/8", 9/16", 3/4", and 1" O.D. tubing. The tubing may be prepared with the use of tooling (see Tooling section 15) or prepared at the factory to specified lengths. Additionally, standard length coned and threaded nipples are available from stock (see page 38).

This connection has become an industry standard for use at elevated pressures and temperatures in both liquid and gas applications. It may be disassembled and retightened indefinitely. The threads of the gland are right-hand while the threads of the collar and tubing are left-hand to prevent rotation of the collar during assembly



Materials. All of the components required for make-up of a Medium Pressure connection (glands, collars and plugs) are produced in Type 316 stainless steel.

Glands and collars. All valves and fittings are provided (except nipples) unless otherwise requested.

(See chart on the right for size details and catalog numbers).

20,000 psi					
1/4" O.D. Tubing	3/8" O.D. Tubing	9/16" O.D. Tubing	3/4" O.D. Tubing	1" O.D. Tubing	1 1/2" O.D. Tubing
 LF4	 LF6	 LF9	 LF12	 LF16	 LF24
 20-2LM4	 20-2LM6	 20-2LM9	 20-2LM12	 20-2LM16	 15-2LM24
 20-2L4	 20-2L6	 20-2L9	 20-2L12	 20-2L16	 15-2L24
 20-7LM4	 20-7LM6	 20-7LM9	 20-7LM12	 20-7LM16	 15-7LM24
 LM4	 LM6	 LM9	 LM12	 LM16	 LM24

High Pressure Connections

(Coned and Threaded) 30,000/40,000/60,000 psi service

The High Pressure tubing connection is available for 1/8", 1/4", 3/8", 9/16" and 1" O.D. tubing. The tubing may be prepared with the use of tooling (see Tooling section 15) or prepared at the factory to specified lengths. Additionally, standard length coned and threaded tubing nipples are available from stock (see page 54).

This connection has become an industry standard for use at elevated pressures and temperatures in both liquid and gas applications. It may be disassembled and retightened indefinitely.

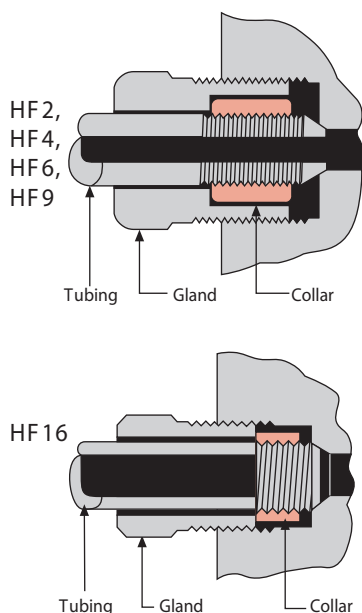
The threads of the gland are right-hand while the threads of the collar and tubing are left-hand to prevent rotation of the collar during assembly

Materials

All of the components required for make-up of a High Pressure connection (glands, collars and plugs) are produced in Type 316 stainless steel.

Glands and collars.

All valves and fittings are provided (except nipples) unless otherwise requested. (See chart on the right for size details and catalog numbers).



30,000 & 60,000 psi						40,000 psi	30,000 psi
1/8" O.D. Tubing	1/4" O.D. Tubing	3/8" O.D. Tubing	9/16" O.D. Tubing	9/16" O.D. Tubing	1" O.D. Tubing		
 HF2	 HF4	 HF6	 HF9	 HF9	 HF16		
 60-2HM2	 60-2HM4	 60-2HM6	 60-2HM9	 60-2HM9	 30-2HM16		
 60-2H2	 60-2H4	 60-2H6	 60-2H9	 60-2H9	 30-2H16		
 60-7HM2	 60-7HM4	 60-7HM6	 60-7HM9	 40-7HM9	 30-7HM16		
 HM2	 HM4	 HM6	 HM9	 HM9	 HM16		