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Fittings | Quick Disconnects

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

Product catalogue 03/2021

SPIR STAR

HIGH PRESSURE PERFORMANCE

General Information

A Nomenclature of VFT



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).

Abbr.	Description
MJ	JIC Male
FJ	JIC Female
NM	NPT Male
NF	NPT Female
MM	Medium Pressure Male
MF	Medium Pressure Female
MEM	Metric Male
MEF	Metric Female
HM	High Pressure Male
HF	High Pressure Female
M	Type M
BM	BSPP
E	Female Elbow
T	Female Tee
Y	Female Wye
CR	Female Cross
HC	Female Coupler

Abbr.	Description
SL	Slimline
GN	Gland Nut
CLR	Collar
AV	Anti-Vibration
HD	Heavy Duty
LL	Left x Left
LR	Left x Right
RR	Right x Right
V	Needle Valve
VB	Ball Valve
CV	Check Valve
BS	Ball Seat
SS	Soft Seat

Nr.	Size
1	1/16"
2	1/8"
4	1/4"
6	3/8"
8	1/2"
9	9/16"
12	3/4"
14	7/8"
16	1"
18	M18x1,5
20	M20x1,5
22	M22x1,5
24	M24x1,5
26	M26x1,5
30	M30x2
36	M36x2
42	M42x2

B Common Description



High-Pressure Adapter		
SPIR STAR 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		
SPIR STAR 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		
SPIR STAR 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		
SPIR STAR 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		
SPIR STAR 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		
SPIR STAR 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

I.I Fittings and Adapters



High-Pressure Male x Male

Part Number	Description	Max Working Pressure	
HMM4-HM4	1/4" HP Male x 1/4" HP Male	4.140 bar	60.000 psi
HMM4-HM6	1/4" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HMM4-HM9	1/4" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HMM6-HM6	3/8" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HMM6-HM9	3/8" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HMM9-HM9	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

Part Number	Description	Max Working Pressure	
HHF4-HM4	1/4" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
HHF4-HM6	1/4" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
HHF4-HM9	1/4" HP Female x 9/16" HP Male	4.140 bar	60.000 psi
HHF6-HM4	3/8" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
HHF6-HM6	3/8" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
HHF6-HM9	3/8" HP Female x 9/16" HP Male	4.140 bar	60.000 psi
HHF9-HM4	9/16" HP Female x 1/4" HP Male	4.140 bar	60.000 psi
HHF9-HM6	9/16" HP Female x 3/8" HP Male	4.140 bar	60.000 psi
HHF9-HM9	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

Part Number	Description	Max Working Pressure	
HC-HF4	1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF6	3/8" HP Female Coupler	4.140 bar	60.000 psi
HC-HF6-HF4	3/8" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9	9/16" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9-HF4	9/16" HP x 1/4" HP Female Coupler	4.140 bar	60.000 psi
HC-HF9-HF6	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

Part Number	Description	Max Working Pressure	
HC-MEF16-CLR-1/4HP	M16x1.5 Female Coupler (incl. Collar 1/4" HP & Gland Nut M16x1.5)	4.140 bar	60.000 psi
HC-MEF20-CLR-3/8HP	M20x1.5 Female Coupler (incl. Collar 3/8" HP & Gland Nut M20x1.5)	4.140 bar	60.000 psi
HC-MEF26-CLR-9/16HP	M26x1.5 Female Coupler (incl. Collar 9/16" HP & Gland Nut M26x1.5)	4.140 bar	60.000 psi
HC-MEF26-CLR-M14	M26x1.5 Female Coupler (incl. Collar M14x1.5 & Gland Nut M20x1.5)	4.140 bar	60.000 psi
HC-MEF30-CLR-9/16HP	M30x2 Female Coupler (incl. Collar 9/16" HP & Gland Nut M30x2)	4.140 bar	60.000 psi
HC-MEF30-CLR-M14	M30x2 Female Coupler (incl. Collar M14x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi
HC-MEF30-CLR-M18	M30x2 Female Coupler (incl. Collar M18x1.5 & Gland Nut M30x2)	4.140 bar	60.000 psi



High-Pressure Slimline Couplers

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

Part Number	Description	Max Working Pressure	
HCSSL-HF4-LL	1/4" HP Female Slimline Coupler Left x Left* 0.445" OD	2.760 bar	40.000 psi
HCSSL-HF4-LR	1/4" HP Female Slimline Coupler Left x Right* 0.445" OD	2.760 bar	40.000 psi
HCSSL-HF4-RR	1/4" HP Female Slimline Coupler Right x Right* 0.445" OD	2.760 bar	40.000 psi
HCSSL-HF6-LL	3/8" HP Female Slimline Coupler Left x Left* 0.562" OD	2.760 bar	40.000 psi
HCSSL-HF6-LR	3/8" HP Female Slimline Coupler Left x Right* 0.562" OD	2.760 bar	40.000 psi
HCSSL-HF6-RR	3/8" HP Female Slimline Coupler Right x Right* 0.562" OD	2.760 bar	40.000 psi
HCSSL-HF9-LL	9/16" HP Female Slimline Coupler Left x Left* 0.750" OD	2.760 bar	40.000 psi
HCSSL-HF9-LR	9/16" HP Female Slimline Coupler Left x Right* 0.750" OD	2.760 bar	40.000 psi
HCSSL-HF9-RR	9/16" HP Female Slimline Coupler Right x Right* 0.750" OD	2.760 bar	40.000 psi



* Designates Left Hand Thread or Right Hand Thread

I.I Fittings and Adapters



High-Pressure Male x Medium Pressure Male

Part Number	Description	Max Working Pressure	
HMM4-MM4	1/4" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM4-MM6	1/4" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM4-MM9	1/4" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM4-MM12	1/4" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM4-MM16	1/4" HP Male x 1" MP Male	1.380 bar	20.000 psi
HMM6-MM4	3/8" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM6-MM6	3/8" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM6-MM9	3/8" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM6-MM12	3/8" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM6-MM16	3/8" HP Male x 1" MP Male	1.380 bar	20.000 psi
HMM9-MM4	9/16" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM9-MM6	9/16" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM9-MM9	9/16" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM9-MM12	9/16" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM9-MM16	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

Part Number	Description	Max Working Pressure	
HC-HF4-MF4	1/4" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF4-MF6	1/4" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF4-MF9	1/4" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF4-MF12	1/4" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF4-MF16	1/4" HP Female x 1" MP Female	1.380 bar	20.000 psi
HC-HF6-MF4	3/8" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF6-MF6	3/8" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF6-MF9	3/8" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF6-MF12	3/8" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF6-MF16	3/8" HP Female x 1" MP Female	1.380 bar	20.000 psi
HC-HF9-MF4	9/16" HP Female x 1/4" MP Female	1.380 bar	20.000 psi
HC-HF9-MF6	9/16" HP Female x 3/8" MP Female	1.380 bar	20.000 psi
HC-HF9-MF9	9/16" HP Female x 9/16" MP Female	1.380 bar	20.000 psi
HC-HF9-MF12	9/16" HP Female x 3/4" MP Female	1.380 bar	20.000 psi
HC-HF9-MF16	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

Part Number	Description	Max Working Pressure	
HHF4-MM4	1/4" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF4-MM6	1/4" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF4-MM9	1/4" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF6-MM4	3/8" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF6-MM6	3/8" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF6-MM9	3/8" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF6-MM12	3/8" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
HHF6-MM16	3/8" HP Female x 1" MP Male	1.380 bar	20.000 psi
HHF9-MM4	9/16" HP Female x 1/4" MP Male	1.380 bar	20.000 psi
HHF9-MM6	9/16" HP Female x 3/8" MP Male	1.380 bar	20.000 psi
HHF9-MM9	9/16" HP Female x 9/16" MP Male	1.380 bar	20.000 psi
HHF9-MM12	9/16" HP Female x 3/4" MP Male	1.380 bar	20.000 psi
HHF9-MM16	9/16" HP Female x 1" MP Male	1.380 bar	20.000 psi



I.I Fittings and Adapters



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

Part Number	Description	Max Working Pressure	
HMF4-HM4	1/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF4-HM6	1/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF4-HM9	1/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF6-HM4	3/8" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF6-HM6	3/8" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF6-HM9	3/8" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF9-HM4	9/16" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF9-HM6	9/16" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF9-HM9	9/16" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF12-HM4	3/4" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF12-HM6	3/4" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF12-HM9	3/4" MP Female x 9/16" HP Male	1.380 bar	20.000 psi
HMF16-HM4	1" MP Female x 1/4" HP Male	1.380 bar	20.000 psi
HMF16-HM6	1" MP Female x 3/8" HP Male	1.380 bar	20.000 psi
HMF16-HM9	1" MP Female x 9/16" HP Male	1.380 bar	20.000 psi



High-Pressure Male x NPT Male

Part Number	Description	Max Working Pressure	
HHM4-NM4	1/4" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM4-NM6	1/4" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM4-NM8	1/4" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM4-NM12	1/4" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM4-NM16	1/4" HP Male x 1" NPT Male	690 bar	10.000 psi
HHM6-NM4	3/8" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM6-NM6	3/8" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM6-NM8	3/8" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM6-NM12	3/8" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM6-NM16	3/8" HP Male x 1" NPT Male	690 bar	10.000 psi
HHM9-NM4	9/16" HP Male x 1/4" NPT Male	1.035 bar	15.000 psi
HHM9-NM6	9/16" HP Male x 3/8" NPT Male	1.035 bar	15.000 psi
HHM9-NM8	9/16" HP Male x 1/2" NPT Male	1.035 bar	15.000 psi
HHM9-NM12	9/16" HP Male x 3/4" NPT Male	690 bar	10.000 psi
HHM9-NM16	9/16" HP Male x 1" NPT Male	690 bar	10.000 psi



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

Part Number	Description	Max Working Pressure	
HC-HF4-NF4	1/4" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF6	1/4" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF8	1/4" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF4-NF12	1/4" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF4-NF16	1/4" HP Female x 1" NPT Female	690 bar	10.000 psi
HC-HF6-NF4	3/8" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF6	3/8" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF8	3/8" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF6-NF12	3/8" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF6-NF16	3/8" HP Female x 1" NPT Female	690 bar	10.000 psi
HC-HF9-NF4	9/16" HP Female x 1/4" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF6	9/16" HP Female x 3/8" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF8	9/16" HP Female x 1/2" NPT Female	1.035 bar	15.000 psi
HC-HF9-NF12	9/16" HP Female x 3/4" NPT Female	690 bar	10.000 psi
HC-HF9-NF16	9/16" HP Female x 1" NPT Female	690 bar	10.000 psi

I.I Fittings and Adapters



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

Part Number	Description	Max Working Pressure	
HHF4-NM4	1/4" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF4-NM6	1/4" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF4-NM8	1/4" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF4-NM12	1/4" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF4-NM16	1/4" HP Female x 1" NPT Male	690 bar	10.000 psi
HHF6-NM4	3/8" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF6-NM6	3/8" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF6-NM8	3/8" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF6-NM12	3/8" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF6-NM16	3/8" HP Female x 1" NPT Male	690 bar	10.000 psi
HHF9-NM4	9/16" HP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HHF9-NM6	9/16" HP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HHF9-NM8	9/16" HP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HHF9-NM12	9/16" HP Female x 3/4" NPT Male	690 bar	10.000 psi
HHF9-NM16	9/16" HP Female x 1" NPT Male	690 bar	10.000 psi



Medium Pressure Male x Male

Part Number	Description	Max Working Pressure	
HMM4-MM4	1/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM6-MM4	3/8" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM6-MM6	3/8" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM6-MM9	3/8" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM9-MM4	9/16" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM9-MM9	9/16" MP Male x 9/16" MP Male	1.380 bar	20.000 psi
HMM9-MM12	9/16" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM9-MM16	9/16" MP Male x 1" MP Male	1.380 bar	20.000 psi
HMM12-MM4	3/4" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM12-MM6	3/4" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM12-MM12	3/4" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM16-MM4	1" MP Male x 1/4" MP Male	1.380 bar	20.000 psi
HMM16-MM6	1" MP Male x 3/8" MP Male	1.380 bar	20.000 psi
HMM16-MM12	1" MP Male x 3/4" MP Male	1.380 bar	20.000 psi
HMM16-MM16	1" MP Male x 1" MP Male	1.380 bar	20.000 psi



I.I Fittings and Adapters



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

Part Number	Description	Max Working Pressure	
HMF4-MM6	1/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF4-MM9	1/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF4-MM12	1/4" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF4-MM16	1/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF6-MM12	3/8" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF6-MM16	3/8" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF6-MM4	3/8" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF6-MM9	3/8" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF9-MM4	9/16" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF9-MM6	9/16" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF9-MM12	9/16" MP Female x 3/4" MP Male	1.380 bar	20.000 psi
HMF9-MM16	9/16" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF12-MM4	3/4" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF12-MM6	3/4" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF12-MM9	3/4" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF12-MM16	3/4" MP Female x 1" MP Male	1.380 bar	20.000 psi
HMF16-MM4	1" MP Female x 1/4" MP Male	1.380 bar	20.000 psi
HMF16-MM6	1" MP Female x 3/8" MP Male	1.380 bar	20.000 psi
HMF16-MM9	1" MP Female x 9/16" MP Male	1.380 bar	20.000 psi
HMF16-MM12	1" MP Female x 3/4" MP Male	1.380 bar	20.000 psi



Medium Pressure Heavy Duty Couplers - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
HC-MF4	1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF6-MF4	3/8" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF6	3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9-MF4	9/16" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9-MF6	9/16" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF9	9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF4	3/4" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF6	3/4" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12-MF9	3/4" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF12	3/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF4	1" MP Female x 1/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF6	1" MP Female x 3/8" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF9	1" MP Female x 9/16" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16-MF12	1" MP Female x 3/4" MP Female Coupler	1.380 bar	20.000 psi
HC-MF16	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.

Part Number	Description	Max Working Pressure	
HCSL-MF4-LL	1/4" MP Female Slimline Coupler Left x Left* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF4-LR	1/4" MP Female Slimline Coupler Left x Right* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF4-RR	1/4" MP Female Slimline Coupler Right x Right* 0.374" OD	1.380 bar	20.000 psi
HCSL-MF6-LL	3/8" MP Female Slimline Coupler Left x Left* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF6-LR	3/8" MP Female Slimline Coupler Left x Right* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF6-RR	3/8" MP Female Slimline Coupler Right x Right* 0.499" OD	1.380 bar	20.000 psi
HCSL-MF9-LL	9/16" MP Female Slimline Coupler Left x Left* 0.687" OD	1.380 bar	20.000 psi
HCSL-MF9-LR	9/16" MP Female Slimline Coupler Left x Right* 0.687" OD	1.380 bar	20.000 psi
HCSL-MF9-RR	9/16" MP Female Slimline Coupler Right x Right* 0.687" OD	1.380 bar	20.000 psi



* Designates Left Hand Thread or Right Hand Thread

I.I Fittings and Adapters



Medium Pressure Male x NPT Male				
Part Number	Description	Max Working Pressure		
HMM4-NM4	1/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi	
HMM4-NM6	1/4" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi	
HMM4-NM8	1/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi	
HMM6-NM4	3/8" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi	
HMM6-NM6	3/8" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi	
HMM6-NM8	3/8" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi	
HMM9-NM4	9/16" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi	
HMM9-NM6	9/16" MP Male x 3/8" NPT Male	1.035 bar	15.000 psi	
HMM9-NM8	9/16" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi	
HMM9-NM12	9/16" MP Male x 3/4" NPT Male	690 bar	10.000 psi	
HMM9-NM16	9/16" MP Male x 1" NPT Male	690 bar	10.000 psi	
HMM12-NM4	3/4" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi	
HMM12-NM8	3/4" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi	
HMM12-NM12	3/4" MP Male x 3/4" NPT Male	690 bar	10.000 psi	
HMM12-NM16	3/4" MP Male x 1" NPT Male	690 bar	10.000 psi	
HMM16-NM4	1" MP Male x 1/4" NPT Male	1.035 bar	15.000 psi	
HMM16-NM8	1" MP Male x 1/2" NPT Male	1.035 bar	15.000 psi	
HMM16-NM12	1" MP Male x 3/4" NPT Male	690 bar	10.000 psi	
HMM16-NM16	1" MP Male x 1" NPT Male	690 bar	10.000 psi	

Medium Pressure Female x NPT Female - including Collar and Gland Nut				
Part Number	Description	Max Working Pressure		
HC-MF4-NF2	1/4" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi	
HC-MF4-NF4	1/4" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi	
HC-MF4-NF6	1/4" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi	
HC-MF4-NF8	1/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi	
HC-MF6-NF2	3/8" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi	
HC-MF6-NF4	3/8" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi	
HC-MF6-NF6	3/8" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi	
HC-MF6-NF8	3/8" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi	
HC-MF6-NF12	3/8" MP Female x 3/4" NPT Female	690 bar	10.000 psi	
HC-MF6-NF16	3/8" MP Female x 1" NPT Female	690 bar	10.000 psi	
HC-MF9-NF2	9/16" MP Female x 1/8" NPT Female	1.035 bar	15.000 psi	
HC-MF9-NF4	9/16" MP Female x 1/4" NPT Female	1.035 bar	15.000 psi	
HC-MF9-NF6	9/16" MP Female x 3/8" NPT Female	1.035 bar	15.000 psi	
HC-MF9-NF8	9/16" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi	
HC-MF9-NF12	9/16" MP Female x 3/4" NPT Female	690 bar	10.000 psi	
HC-MF9-NF16	9/16" MP Female x 1" NPT Female	690 bar	10.000 psi	
HC-MF12-NF8	3/4" MP Female x 1/2" NPT Female	1.035 bar	15.000 psi	
HC-MF12-NF12	3/4" MP Female x 3/4" NPT Female	690 bar	10.000 psi	
HC-MF12-NF16	3/4" MP Female x 1" NPT Female	690 bar	10.000 psi	
HC-MF16-NF12	1" MP Female x 3/4" NPT Female	690 bar	10.000 psi	
HC-MF16-NF16	1" MP Female x 1" NPT Female	690 bar	10.000 psi	

I.I Fittings and Adapters



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

Part Number	Description	Max Working Pressure	
HMF4-NM4	1/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF4-NM6	1/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF4-NM8	1/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF6-NM4	3/8" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF6-NM6	3/8" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF6-NM8	3/8" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF9-NM4	9/16" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF9-NM6	9/16" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF9-NM8	9/16" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF9-NM12	9/16" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF9-NM16	9/16" MP Female x 1" NPT Male	690 bar	10.000 psi
HMF12-NM4	3/4" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF12-NM6	3/4" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF12-NM8	3/4" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF12-NM12	3/4" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF12-NM16	3/4" MP Female x 1" NPT Male	690 bar	10.000 psi
HMF16-NM4	1" MP Female x 1/4" NPT Male	1.035 bar	15.000 psi
HMF16-NM6	1" MP Female x 3/8" NPT Male	1.035 bar	15.000 psi
HMF16-NM8	1" MP Female x 1/2" NPT Male	1.035 bar	15.000 psi
HMF16-NM12	1" MP Female x 3/4" NPT Male	690 bar	10.000 psi
HMF16-NM16	1" MP Female x 1" NPT Male	690 bar	10.000 psi



NPT Female x High-Pressure Male

Part Number	Description	Max Working Pressure	
HNF4-HM4	1/4" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HNF4-HM6	1/4" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HNF4-HM9	1/4" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HNF6-HM4	3/8" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HNF6-HM6	3/8" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HNF6-HM9	3/8" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HNF8-HM4	1/2" NPT Female x 1/4" HP Male	1.035 bar	15.000 psi
HNF8-HM6	1/2" NPT Female x 3/8" HP Male	1.035 bar	15.000 psi
HNF8-HM9	1/2" NPT Female x 9/16" HP Male	1.035 bar	15.000 psi
HNF12-HM6	3/4" NPT Female x 3/8" HP Male	690 bar	10.000 psi
HNF12-HM9	3/4" NPT Female x 9/16" HP Male	690 bar	10.000 psi
HNF16-HM9	1" NPT Female x 9/16" HP Male	690 bar	10.000 psi



I.I Fittings and Adapters



NPT Female x Medium Pressure Male			
Part Number	Description	Max Working Pressure	
HN2F-MM4	1/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN2F-MM6	1/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN2F-MM9	1/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN2F-MM12	1/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN4F-MM4	1/4" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN4F-MM6	1/4" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN4F-MM9	1/4" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN4F-MM12	1/4" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN4F-MM16	1/4" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN6F-MM4	3/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN6F-MM6	3/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN6F-MM9	3/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN6F-MM12	3/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN6F-MM16	3/8" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN8F-MM4	1/2" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HN8F-MM6	1/2" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HN8F-MM9	1/2" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HN8F-MM12	1/2" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HN8F-MM16	1/2" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HN12F-MM6	3/4" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HN12F-MM9	3/4" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HN12F-MM12	3/4" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HN12F-MM16	3/4" NPT Female x 1" MP Male	690 bar	10.000 psi
HN16F-MM6	1" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HN16F-MM9	1" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HN16F-MM12	1" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HN16F-MM16	1" NPT Female x 1" MP Male	690 bar	10.000 psi



NPT Male x Male			
Part Number	Description	Max Working Pressure	
HN2M-NM2	1/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN2M-NM4	1/4" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN2M-NM4	1/4" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN2M-NM6	3/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HN2M-NM4	3/8" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN2M-NM6	3/8" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HN2M-NM4	1/2" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HN2M-NM6	1/2" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HN2M-NM8	1/2" NPT Male x 1/2" NPT Male	1.035 bar	15.000 psi
HN12M-NM4	3/4" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HN12M-NM6	3/4" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HN12M-NM8	3/4" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HN12M-NM12	3/4" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HN16M-NM4	1" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HN16M-NM6	1" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HN16M-NM8	1" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HN16M-NM12	1" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HN16M-NM16	1" NPT Male x 1" NPT Male	690 bar	10.000 psi



I.I Fittings and Adapters



NPT Female x NPT Male (Bushings)

Part Number	Description	Max Working Pressure	
HNFI-NM2	1/16" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFI-NM4	1/16" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFI-NM6	1/16" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFI-NM8	1/16" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFI2-NM4	1/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFI2-NM6	1/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFI2-NM8	1/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFI4-NM2	1/4" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFI4-NM4	1/4" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFI4-NM6	1/4" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFI4-NM8	1/4" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFI4-NM12	1/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFI4-NM16	1/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFI6-NM2	3/8" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNFI6-NM4	3/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFI6-NM6	3/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFI6-NM8	3/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFI6-NM12	3/8" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFI6-NM16	3/8" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFI8-NM4	1/2" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNFI8-NM6	1/2" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNFI8-NM8	1/2" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNFI8-NM12	1/2" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFI8-NM16	1/2" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFI12-NM4	3/4" NPT Female x 1/4" NPT Male	690 bar	10.000 psi
HNFI12-NM8	3/4" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNFI12-NM12	3/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNFI12-NM16	3/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNFI16-NM6	1" NPT Female x 3/8" NPT Male	690 bar	10.000 psi
HNFI16-NM8	1" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNFI16-NM12	1" NPT Female x 3/4" NPT Male	690 bar	10.000 psi



NPT Heavy Duty Couplers

Part Number	Description	Max Working Pressure	
HC-NF4 HD	1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF6-NF4 HD	3/8" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF6 HD	3/8" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8-NF4 HD	1/2" NPT Female x 1/4" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8-NF6 HD	1/2" NPT Female x 3/8" NPT Female Coupler	1.035 bar	15.000 psi
HC-NF8 HD	1/2" NPT Female Coupler	1.035 bar	15.000 psi
HC-NFI2-NF4 HD	3/4" NPT Female x 1/4" NPT Female Coupler	690 bar	10.000 psi
HC-NFI2-NF6 HD	3/4" NPT Female x 3/8" NPT Female Coupler	690 bar	10.000 psi
HC-NFI2-NF8 HD	3/4" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
HC-NFI2 HD	3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NFI6-NF8 HD	1" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
HC-NFI6-NFI2 HD	1" NPT Female x 3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NFI6 HD	1" NPT Female Coupler	690 bar	10.000 psi



I.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.

Part Number	Description	Max Working Pressure	
HCSL-NF1	1/16" NPT Female Slimline Coupler 0.375" OD	690 bar	10,000 psi
HCSL-NF2-NF1	1/8" NPT Female x 1/16" NPT Female Slimline Coupler 0.480" OD	690 bar	10,000 psi
HCSL-NF2	1/8" NPT Female Slimline Coupler 0.480" OD	690 bar	10,000 psi
HCSL-NF4	1/4" NPT Female Slimline Coupler 0.690" OD	690 bar	10,000 psi
HCSL-NF6	3/8" NPT Female Slimline Coupler 0.875" OD	690 bar	10,000 psi
HCSL-NF8	1/2" NPT Female Slimline Coupler 1.130" OD	690 bar	10,000 psi



JIC Male x JIC Male

Part Number	Description	Max Working Pressure	
HMJ4-MJ4	1/4" JIC Male x 1/4" JIC Male	1,035 bar	15,000 psi
HMJ4-MJ6	1/4" JIC Male x 3/8" JIC Male	1,035 bar	15,000 psi
HMJ4-MJ8	1/4" JIC Male x 1/2" JIC Male	1,035 bar	15,000 psi
HMJ6-MJ6	3/8" JIC Male x 3/8" JIC Male	1,035 bar	15,000 psi
HMJ6-MJ8	3/8" JIC Male x 1/2" JIC Male	1,035 bar	15,000 psi
HMJ8-MJ8	1/2" JIC Male x 1/2" JIC Male	1,035 bar	15,000 psi
HMJ16-MJ16	1" JIC Male x 1" JIC Male	690 bar	10,000 psi



JIC Male x High-Pressure Male

Part Number	Description	Max Working Pressure	
HMJ4-HM4	1/4" JIC Male x 1/4" HP Male	1,035 bar	15,000 psi
HMJ4-HM6	1/4" JIC Male x 3/8" HP Male	1,035 bar	15,000 psi
HMJ4-HM9	1/4" JIC Male x 9/16" HP Male	1,035 bar	15,000 psi
HMJ6-HM4	3/8" JIC Male x 1/4" HP Male	1,035 bar	15,000 psi
HMJ6-HM6	3/8" JIC Male x 3/8" HP Male	1,035 bar	15,000 psi
HMJ6-HM9	3/8" JIC Male x 9/16" HP Male	1,035 bar	15,000 psi
HMJ8-HM4	1/2" JIC Male x 1/4" HP Male	1,035 bar	15,000 psi
HMJ8-HM6	1/2" JIC Male x 3/8" HP Male	1,035 bar	15,000 psi
HMJ8-HM9	1/2" JIC Male x 9/16" HP Male	1,035 bar	15,000 psi



JIC Male x Medium Pressure Male

Part Number	Description	Max Working Pressure	
HMJ4-MM4	1/4" JIC Male x 1/4" MP Male	1,035 bar	15,000 psi
HMJ4-MM6	1/4" JIC Male x 3/8" MP Male	1,035 bar	15,000 psi
HMJ4-MM9	1/4" JIC Male x 9/16" MP Male	1,035 bar	15,000 psi
HMJ6-MM12	3/8" JIC Male x 3/4" MP Male	1,035 bar	15,000 psi
HMJ6-MM4	3/8" JIC Male x 1/4" MP Male	1,035 bar	15,000 psi
HMJ6-MM6	3/8" JIC Male x 3/8" MP Male	1,035 bar	15,000 psi
HMJ6-MM9	3/8" JIC Male x 9/16" MP Male	1,035 bar	15,000 psi
HMJ8-MM12	1/2" JIC Male x 3/4" MP Male	1,035 bar	15,000 psi
HMJ8-MM16	1/2" JIC Male x 1" MP Male	1,035 bar	15,000 psi
HMJ8-MM4	1/2" JIC Male x 1/4" MP Male	1,035 bar	15,000 psi
HMJ8-MM6	1/2" JIC Male x 3/8" MP Male	1,035 bar	15,000 psi
HMJ8-MM9	1/2" JIC Male x 9/16" MP Male	1,035 bar	15,000 psi
HMJ12-MM9	3/4" JIC Male x 9/16" MP Male	690 bar	10,000 psi
HMJ12-MM12	3/4" JIC Male x 3/4" MP Male	690 bar	10,000 psi
HMJ12-MM16	3/4" JIC Male x 1" MP Male	690 bar	10,000 psi
HMJ16-MM9	1" JIC Male x 9/16" MP Male	690 bar	10,000 psi
HMJ16-MM12	1" JIC Male x 3/4" MP Male	690 bar	10,000 psi
HMJ16-MM16	1" JIC Male x 1" MP Male	690 bar	10,000 psi



I.I Fittings and Adapters



JIC Male x NPT Male

Part Number	Description	Max Working Pressure	
HMJ4-NM2	1/4" JIC Male x 1/8" NPT Male	1.035 bar	15.000 psi
HMJ4-NM4	1/4" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ4-NM6	1/4" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ4-NM8	1/4" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ6-NM4	3/8" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ6-NM6	3/8" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ6-NM8	3/8" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ6-NM12	3/8" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ8-NM4	1/2" JIC Male x 1/4" NPT Male	1.035 bar	15.000 psi
HMJ8-NM6	1/2" JIC Male x 3/8" NPT Male	1.035 bar	15.000 psi
HMJ8-NM8	1/2" JIC Male x 1/2" NPT Male	1.035 bar	15.000 psi
HMJ8-NM12	1/2" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ8-NM16	1/2" JIC Male x 1" NPT Male	690 bar	10.000 psi
HMJ12-NM12	3/4" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ12-NM16	3/4" JIC Male x 1" NPT Male	690 bar	10.000 psi
HMJ16-NM12	1" JIC Male x 3/4" NPT Male	690 bar	10.000 psi
HMJ16-NM16	1" JIC Male x 1" NPT Male	690 bar	10.000 psi



Type M Male x Male

Part Number	Description	Max Working Pressure	
M9-M9	9/16"-18 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M12-M9	3/4"-16 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
M12-M12	3/4"-16 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M14-M9	7/8"-14 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M14-M12	7/8"-14 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M14-M14	7/8"-14 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
M16-M9	1"-12 Type M x 9/16"-18 Type M	2.070 bar	30.000 psi
M16-M12	1"-12 Type M x 3/4"-16 Type M	2.070 bar	30.000 psi
M16-M16	1"-12 Type M x 1"-12 Type M	2.070 bar	30.000 psi
M18-M9	1 1/8"-12 Type M x 9/16"-18 Type M	3.450 bar	50.000 psi
M18-M14	1 1/8"-12 Type M x 7/8"-14 Type M	3.450 bar	50.000 psi
M18-M18	1 1/8"-12 Type M x 1 1/8"-12 Type M	3.450 bar	50.000 psi
M21-M9	1 5/16"-12 Type M x 9/16"-18 Type M	1.380 bar	20.000 psi
M21-M12	1 5/16"-12 Type M x 3/4"-16 Type M	1.380 bar	20.000 psi
M21-M16	1 5/16"-12 Type M x 1"-12 Type M	1.380 bar	20.000 psi
M21-M21	1 5/16"-12 Type M x 1 5/16"-12 Type M	1.380 bar	20.000 psi



I.I Fittings and Adapters



Type M Male x High-Pressure Male

Part Number	Description	Max Working Pressure	
M9-HP4	9/16"-18 Type M x 1/4" HP Male	3.450 bar	50.000 psi
M9-HP6	9/16"-18 Type M x 3/8" HP Male	3.450 bar	50.000 psi
M9-HP9	9/16"-18 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M12-HP4	3/4"-16 Type M x 1/4" HP Male	2.070 bar	30.000 psi
M12-HP6	3/4"-16 Type M x 3/8" HP Male	2.070 bar	30.000 psi
M12-HP9	3/4"-16 Type M x 9/16" HP Male	2.070 bar	30.000 psi
M14-HP6	7/8"-14 Type M x 3/8" HP Male	3.450 bar	50.000 psi
M14-HP9	7/8"-14 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M16-HP6	1"-12 Type M x 3/8" HP Male	2.070 bar	30.000 psi
M16-HP9	1"-12 Type M x 9/16" HP Male	2.070 bar	30.000 psi
M18-HP9	1 1/8"-12 Type M x 9/16" HP Male	3.450 bar	50.000 psi
M21-HP9	1 5/16"-12 Type M x 9/16" HP Male	1.380 bar	20.000 psi



Type M Male x Medium Pressure Male

Part Number	Description	Max Working Pressure	
M9-MP4	9/16"-18 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M9-MP6	9/16"-18 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M9-MP9	9/16"-18 Type M x 9/16" MP Male	1.380 bar	20.000 psi
M9-MP12	9/16"-18 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M9-MP16	9/16"-18 Type M x 1" MP Male	1.380 bar	20.000 psi
M12-MP4	3/4"-16 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M12-MP6	3/4"-16 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M12-MP9	3/4"-16 Type M x 9/16" MP Male	1.380 bar	20.000 psi
M12-MP12	3/4"-16 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M12-MP16	3/4"-16 Type M x 1" MP Male	1.380 bar	20.000 psi
M16-MP4	1"-12 Type M x 1/4" MP Male	1.380 bar	20.000 psi
M16-MP6	1"-12 Type M x 3/8" MP Male	1.380 bar	20.000 psi
M16-MP9	1"-12 Type M x 1/2" MP Male	1.380 bar	20.000 psi
M16-MP12	1"-12 Type M x 3/4" MP Male	1.380 bar	20.000 psi
M16-MP16	1"-12 Type M x 1" MP Male	1.380 bar	20.000 psi
M21-MP9	1 5/16" Type M x 1/2" MP Male	1.380 bar	20.000 psi
M21-MP12	1 5/16" Type M x 3/4" MP Male	1.380 bar	20.000 psi
M21-MP16	1 5/16" Type M x 1" MP Male	1.380 bar	20.000 psi



I.I Fittings and Adapters



Type M Male x NPT Male

Part Number	Description	Max Working Pressure	
M9-NM4	9/16"-18 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M9-NM6	9/16"-18 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M9-NM8	9/16"-18 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M9-NM12	9/16"-18 Type M x 3/4" NPT Male	690 bar	10.000 psi
M9-NM16	9/16"-18 Type M x 1" NPT Male	690 bar	10.000 psi
M12-NM4	3/4"-16 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M12-NM6	3/4"-16 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M12-NM8	3/4"-16 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M12-NM12	3/4"-16 Type M x 3/4" NPT Male	690 bar	10.000 psi
M12-NM16	3/4"-16 Type M x 1" NPT Male	690 bar	10.000 psi
M16-NM4	1"-12 Type M x 1/4" NPT Male	1.035 bar	15.000 psi
M16-NM6	1"-12 Type M x 3/8" NPT Male	1.035 bar	15.000 psi
M16-NM8	1"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M16-NM12	1"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
M16-NM16	1"-12 Type M x 1" NPT Male	690 bar	10.000 psi
M21-NM8	1 5/16"-12 Type M x 1/2" NPT Male	1.035 bar	15.000 psi
M21-NM12	1 5/16"-12 Type M x 3/4" NPT Male	690 bar	10.000 psi
M21-NM16	1 5/16"-12 Type M x 1" NPT Male	690 bar	10.000 psi



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

Part Number	Description	Max Working Pressure	
HHM4-BM4-EX	1/4" MBSPP-Ext. x 1/4" HP Male	2.070 bar	30.000 psi
HBM4-EX-MM4	1/4" MBSPP-Ext. x 1/4" MP Male	1.380 bar	20.000 psi
M9-BM4-EX	1/4" MBSPP-Ext. x 9/16"-18 Type M Male	2.070 bar	30.000 psi
HBM4-EX-BM4-EX	1/4" MBSPP-Ext. x 1/4" MBSPP-Ext.	2.070 bar	30.000 psi
HBM4-BM4-EX	1/4" MBSPP-Ext. x 1/4" MBSPP-Int.	2.070 bar	30.000 psi



BSPP Male Connectors-int.

Part Number	Description	Max Working Pressure	
HBM4-BM4	G1/4" Male Connector	2.070 bar	30.000 psi
HBM4-BM4-VV	G1/4" Male Connector	3.200 bar	46.400 psi
HBM6-BM6	G3/8" Male Connector	2.070 bar	30.000 psi
HBM8-BM8	G1/2" Male Connector	2.070 bar	30.000 psi
HBM12-BM12	G3/4" Male Connector	2.070 bar	30.000 psi



BSPP Male x NPT Male

Part Number	Description	Max Working Pressure	
HBM4-NM4	1/4" MBSPP-Int. x 1/4" NPT Male	1.035 bar	15.000 psi
HBM4-NM8	1/4" MBSPP-Int. x 1/2" NPT Male	1.035 bar	15.000 psi
HBM4-EX-NM4	1/4" MBSPP-Ext. x 1/4" NPT Male	1.035 bar	15.000 psi
HBM4-NM4	1/4" MBSPP-Int. x 1/4" NPT Male	1.035 bar	15.000 psi
HBM4-NM8	1/4" MBSPP-Int. x 1/2" NPT Male	1.035 bar	15.000 psi



I.I Fittings and Adapters



BSPP Adapters			
Part Number	Description	Max Working Pressure	
C19-950-0062	1/4" BSPP Bonded Seal	1.000 bar	14.500 psi
C19-950-0083	1/4" BSPP Bonded Seal	1.500 bar	21.750 psi

Metric Male x Male			
Part Number	Description	Max Working Pressure	
HMEM14-MEM14	M14x1.5 Male Connector	1.800 bar	26.100 psi
HMEM14-MEM14-W	M14x1.5 Male Connector	3.200 bar	46.400 psi
HMEM18-MEM18	M18x1.5 Male Connector	1.520 bar	22.040 psi
HMEM20-MEM20	M20x1.5 Male Connector	1.520 bar	22.040 psi
HMEM20-MEM20-W	M20x1.5 Male Connector	2.500 bar	36.250 psi
HMEM22-MEM22	M22x1.5 Male Connector	1.920 bar	21.750 psi
HMEM22-MEM22-W	M22x1.5 Male Connector	2.500 bar	36.250 psi
HMEM24-MEM22	M24x1.5 Male x M22x1.5 Male Connector	1.920 bar	27.840 psi
HMEM24-MEM22-W	M24x1.5 Male x M22x1.5 Male Connector	2.800 bar	40.600 psi
HMEM24-MEM24	M24x1.5 Male Connector	1.520 bar	22.040 psi
HMEM24-MEM24-W	M24x1.5 Male Connector	2.800 bar	40.600 psi
HMEM30-MEM30	M30x2 Male Connector	1.040 bar	15.080 psi
HMEM30-MEM30-W	M30x2 Male Connector	2.000 bar	29.000 psi
HMEM36-MEM24	M36x2 Male x M24x1.5 Male Connector	1.040 bar	15.080 psi
HMEM36-MEM24-W	M36x2 Male x M24x1.5 Male Connector	1.520 bar	22.040 psi
HMEM36-MEM36	M36x2 Male Connector	1.040 bar	15.080 psi
HMEM36-MEM36-W	M36x2 Male Connector	1.520 bar	22.040 psi
HMEM42-MEM36	M42x2 Male x M36x2 Male Connector	1.040 bar	15.080 psi
HMEM42-MEM36-W	M42x2 Male x M36x2 Male Connector	1.520 bar	22.040 psi
HMEM42-MEM42	M42x2 Male Connector	900 bar	13.050 psi
HMEM42-MEM42-W	M42x2 Male Connector	1.400 bar	20.300 psi



Metric Male (for o-ring seal) x BSPP Male			
Part Number	Description	Max Working Pressure	
HMEM24-BM4	M24x1.5 Male x 1/4" BSP Male Connector	1.800 bar	26.100 psi
HMEM24-BM4-W	M24x1.5 Male x 1/4" BSP Male Connector	3.200 bar	46.400 psi
HMEM24-BM6	M24x1.5 Male x 3/8" BSP Male Connector	1.500 bar	21.750 psi



1.7 Tube Nipples



NPT Pipe Nipples			
Part Number	Description	Max Working Pressure	
HNM4-3.00	1/4" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM4-6.00	1/4" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM4-8.00	1/4" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM4-10.00	1/4" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM4-12.00	1/4" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM6-3.00	3/8" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM6-6.00	3/8" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM6-8.00	3/8" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM6-10.00	3/8" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM6-12.00	3/8" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM8-3.00	1/2" NPT Male Nipple x 3" Long	1.035 bar	15.000 psi
HNM8-6.00	1/2" NPT Male Nipple x 6" Long	1.035 bar	15.000 psi
HNM8-8.00	1/2" NPT Male Nipple x 8" Long	1.035 bar	15.000 psi
HNM8-10.00	1/2" NPT Male Nipple x 10" Long	1.035 bar	15.000 psi
HNM8-12.00	1/2" NPT Male Nipple x 12" Long	1.035 bar	15.000 psi
HNM12-4.00	3/4" NPT Male Nipple x 4" Long	690 bar	10.000 psi
HNM12-6.00	3/4" NPT Male Nipple x 6" Long	690 bar	10.000 psi
HNM16-4.00	1" NPT Male Nipple x 4" Long	690 bar	10.000 psi
HNM16-6.00	1" NPT Male Nipple x 6" Long	690 bar	10.000 psi



1.8 Plugs

High-Pressure Plugs			
Part Number	Description	Max Working Pressure	
HHM4-PLUG	1/4" HP Plug	4.140 bar	60.000 psi
HHM6-PLUG	3/8" HP Plug	4.140 bar	60.000 psi
HHM9-PLUG	9/16" HP Plug	4.140 bar	60.000 psi



Medium Pressure Plugs			
Part Number	Description	Max Working Pressure	
HMM4-PLUG	1/4" MP Plug	1.380 bar	20.000 psi
HMM6-PLUG	3/8" MP Plug	1.380 bar	20.000 psi
HMM9-PLUG	9/16" MP Plug	1.380 bar	20.000 psi
HMM12-PLUG	3/4" MP Plug	1.380 bar	20.000 psi
HMM16-PLUG	1" MP Plug	1.380 bar	20.000 psi



NPT Plugs			
Part Number	Description	Max Working Pressure	
HNM1-PLUG	1/16" NPT Male Plug	1.035 bar	15.000 psi
HNM2-PLUG	1/8" NPT Male Plug	1.035 bar	15.000 psi
HNM4-PLUG	1/4" NPT Male Plug	1.035 bar	15.000 psi
HNM6-PLUG	3/8" NPT Male Plug	1.035 bar	15.000 psi
HNM8-PLUG	1/2" NPT Male Plug	1.035 bar	15.000 psi
HNM12-PLUG	3/4" NPT Male Plug	690 bar	10.000 psi
HNM16-PLUG	1" NPT Male Plug	690 bar	10.000 psi



I.8 Plugs



JIC Plugs			
Part Number	Description	Max Working Pressure	
HMJ4-PLUG	1/4" JIC Male Plug	1.035 bar	15.000 psi
HMJ6-PLUG	3/8" JIC Male Plug	1.035 bar	15.000 psi
HMJ8-PLUG	1/2" JIC Male Plug	1.035 bar	15.000 psi
HMJ12-PLUG	3/4" JIC Male Plug	690 bar	10.000 psi
HMJ16-PLUG	1" JIC Male Plug	690 bar	10.000 psi

Type M Plugs			
Part Number	Description	Max Working Pressure	
M9-PLUG	9/16"-18 Type M Plug	3.450 bar	50.000 psi
M12-PLUG	3/4"-16 Type M Plug	2.070 bar	30.000 psi
M14-PLUG	7/8"-14 Type M Plug	2.070 bar	30.000 psi
M16-PLUG	1"-12 Type M Plug	2.070 bar	30.000 psi
M18-PLUG	1 1/8"-12 Type M Plug	2.070 bar	30.000 psi
M21-PLUG	1 5/16"-12 Type M Plug	1.380 bar	20.000 psi



BSPP Plugs - 120° external sealing cone			
Part Number	Description	Max Working Pressure	
HBM4-EX-PLUG	1/4" MBSPP-Ext. Plug	2.070 bar	30.000 psi

I.9 Collars & Gland Nuts

High-Pressure Gland Nuts & Collars (UNF)				
Part Number	Description	Max Working Pressure		
CLR-1/4HP	1/4" HP Collar	4.140 bar	60.000 psi	
CLR-3/8HP	3/8" HP Collar	4.140 bar	60.000 psi	
CLR-9/16HP	9/16" HP Collar	4.140 bar	60.000 psi	
GN-1/4HP	1/4" HP Gland Nut	4.140 bar	60.000 psi	
GN-1/4HP-AV	1/4" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi	
GN-3/8HP	3/8" HP Gland Nut	4.140 bar	60.000 psi	
GN-3/8HP-AV	3/8" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi	
GN-9/16HP	9/16" HP Gland Nut	4.140 bar	60.000 psi	
GN-9/16HP-AV	9/16" HP Collar & Gland Nut Anti-Vibration	4.140 bar	60.000 psi	

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



Medium Pressure Gland Nuts & Collars			
Part Number	Description	Max Working Pressure	
CLR-1/4MP	1/4" MP Collar	1.380 bar	20.000 psi
CLR-3/8MP	3/8" MP Collar	1.380 bar	20.000 psi
CLR-9/16MP	9/16" MP Collar	1.380 bar	20.000 psi
CLR-3/4MP	3/4" MP Collar	1.380 bar	20.000 psi
CLR-1MP	1" MP Collar	1.380 bar	20.000 psi
GN-1/4MP	1/4" MP Gland Nut	1.380 bar	20.000 psi
GN-1/4MP-AV	1/4" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-3/8MP	3/8" MP Gland Nut	1.380 bar	20.000 psi
GN-3/8MP-AV	3/8" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-9/16MP	9/16" MP Gland Nut	1.380 bar	20.000 psi
GN-9/16MP-AV	9/16" MP Collar & Gland Nut Anti-Vibration	1.380 bar	20.000 psi
GN-3/4MP	3/4" MP Gland Nut	1.380 bar	20.000 psi
GN-1MP	1" MP Gland Nut	1.380 bar	20.000 psi



1.10 Caps

High-Pressure Caps (UNF)				
Part Number	Description	Max Working Pressure		
HHF4-CAP	1/4" HP Female Cap	4.140 bar	60.000 psi	
HHF6-CAP	3/8" HP Female Cap	4.140 bar	60.000 psi	
HHF9-CAP	9/16" HP Female Cap	4.140 bar	60.000 psi	

Medium Pressure Caps			
Part Number	Description	Max Working Pressure	
HMF4-CAP	1/4" MP Female Cap	1.380 bar	20.000 psi
HMF6-CAP	3/8" MP Female Cap	1.380 bar	20.000 psi
HMF9-CAP	9/16" MP Female Cap	1.380 bar	20.000 psi
HMF12-CAP	3/4" MP Female Cap	1.380 bar	20.000 psi
HMF16-CAP	1" MP Female Cap	1.380 bar	20.000 psi

JIC Caps				
Part Number	Description	Max Working Pressure		
HFJ4-CAP	1/4" JIC Female Cap	1.035 bar	15.000 psi	
HFJ6-CAP	3/8" JIC Female Cap	1.035 bar	15.000 psi	
HFJ8-CAP	1/2" JIC Female Cap	1.035 bar	15.000 psi	
HFJ12-CAP	3/4" JIC Female Cap	690 bar	10.000 psi	
HFJ16-CAP	1" JIC Female Cap	690 bar	10.000 psi	

Type M Caps			
Part Number	Description	Max Working Pressure	
M9-CAP	9/16"-18 Type M Cap	3.450 bar	50.000 psi
M12-CAP	3/4"-16 Type M Cap	2.070 bar	30.000 psi
M16-CAP	1"-12 Type M Cap	2.070 bar	30.000 psi
M21-CAP	1 5/16"-12 Type M Cap	1.380 bar	20.000 psi



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