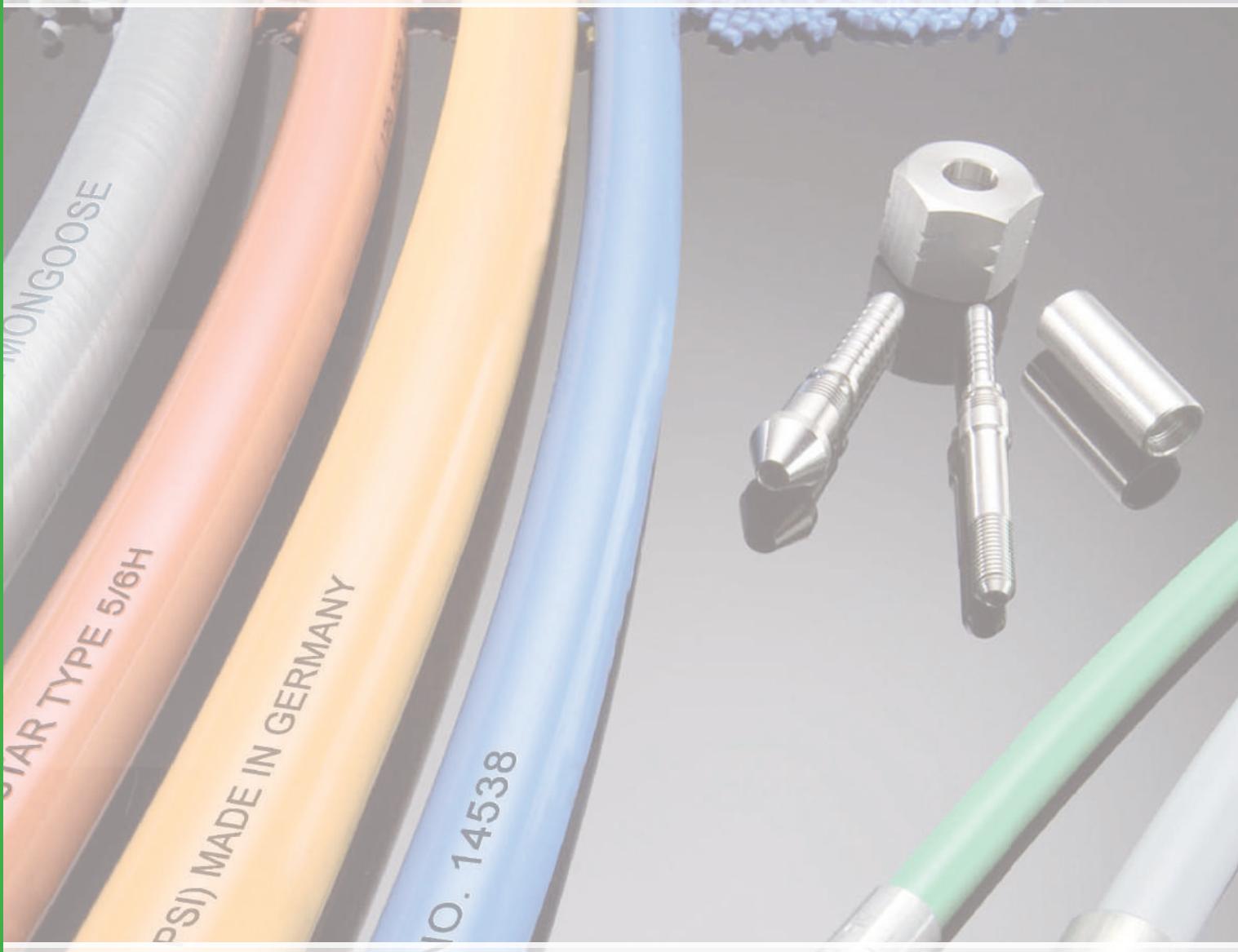




VFT Product Catalogue

690 bar to 4,140 bar (10,000 psi to 60,000 psi)



SPIR STAR Druckschläuche AG

Specialists in High Pressure

Hose | Fittings | Adapters | Quick Disconnects | Valves

For more than 25 years, SPIR STAR® have been specialized in manufacturing high-pressure hoses for working pressures ranging from 400 to 3,200 bar (5,800 to 46,400 psi). As a reliable partner of the high-pressure sector SPIR STAR® extend their product portfolio by adding high-pressure valves, adapters, tubes and couplers.

All valves, adapters and tubes (VFT) as well as the couplers have been developed especially for applications with liquid or gaseous media in the Oil & Gas, the Hydraulic or the Waterblast industries. SPIR STAR® VFT products standardly are made of cold-worked stainless steel to cope with the high temperatures and pressures typical for these applications.

SPIR STAR® valves, adapters, tubes and couplers are available with various connection threads and sizes within the pressure range from 690 to 4,140 bar (10,000 to 60,000 psi) in order to meet all customer requirements.

Content



Content

General Information		C Common Description and Additional Information	
A Part Number Description	4	B V-F-T Product Range	5
I. Adapters & Fittings			
I.1. Fittings & Adapters		I.2. Elbows	
└ <u>High Pressure x High Pressure</u> (<i>male x male female x male female x female</i>)	6	└ High Pressure	20
└ <u>High Pressure x Medium Pressure</u> (<i>male x male female x male male x female</i>)	7	└ Medium Pressure	20
└ <u>High Pressure x NPT</u> (<i>male x male female x male</i>)	8	└ NPT	20
(<i>male x female</i>)	12	└ BSPP	20
└ <u>High Pressure x JIC</u> (<i>male x male</i>)	15	I.3. Tees	
└ <u>High Pressure x Type M</u> (<i>male x male</i>)	17	└ High Pressure	21
└ <u>Medium Pressure x Medium Pressure</u> (<i>male x male female x male</i>)	9	└ Medium Pressure	21
(<i>female x female</i>)	10	└ NPT	21
<u>Medium Pressure x NPT</u> (<i>male x male female x male</i>)	11	└ BSPP	21
(<i>male x female</i>)	12	I.4. Weyes	
<u>Medium Pressure x JIC</u> (<i>male x male</i>)	16	└ High Pressure	21
<u>Medium Pressure x Type M</u> (<i>male x male</i>)	18	I.5. Crosses	
(<i>male x male</i>)	18	└ High Pressure	22
<u>NPT x NPT</u> (<i>male x male</i>)	13	└ Medium Pressure	22
(<i>female x male</i>)	14	└ NPT	22
(<i>female x female</i>)	15	I.6. Bulkheads	
<u>NPT x JIC</u> (<i>male x male</i>)	16	└ High Pressure x High Pressure	22
<u>NPT x Type M</u> (<i>male x male</i>)	18	└ Medium Pressure x Medium Pressure	22
(<i>male x male</i>)	18	I.7. Tube Nipples	
<u>JIC x JIC</u> (<i>male x male</i>)	15	└ High Pressure x High Pressure	23
<u>Type M x Type M</u> (<i>male x male</i>)	17	└ Medium Pressure x Medium Pressure	23
(<i>male x male</i>)	17	└ NPT x NPT	24
<u>BSPP Adapters</u> (<i>male x male</i>)	18	I.8. Plugs	
<u>BSPP x NPT</u> (<i>male x male</i>)	19	└ High Pressure	25
<u>BSPP x Metric</u> (<i>male x male</i>)	19	└ Medium Pressure	25
(<i>male x male</i>)	19	└ NPT	25
<u>Metric</u> (<i>male x male</i>)	19	└ JIC	25
(<i>female x female</i>)	20	└ Type M	25
(<i>female x female</i>)	20	└ BSPP	25
I.9. Gland Nuts and Collars		I.10. Caps	
└ High Pressure		└ High Pressure	26
└ Medium Pressure		└ Medium Pressure	26
I.11. Tubing		I.10. Caps	
└ High Pressure		└ High Pressure	27
└ Medium Pressure		└ Medium Pressure	27
		└ JIC	27
		└ Type M	27
		I.11. Tubing	
		└ High Pressure	27
		└ Medium Pressure	27
2. Valves			
2.1. Needle Valves		2.3. Check Valves	
2.1.1. High Pressure	28	2.3.1. High Pressure	29
2.1.2. Medium Pressure	28	2.3.2. Medium Pressure	29
2.1.3. NPT	28	2.3.3. NPT	29
2.2. Ball Valves		2.4. Relief Valves	
2.2.1. Medium Pressure	29	2.4.1. High Pressure x NPT	30
2.2.2. NPT	29	2.4.2. NPT x NPT	30

3. Coupler			
3.1. Screw Type Quick Disconnects (no CV)	30	3.5. SPC Series Quick Disconnect Couplings	
3.1.1. Medium Pressure	30	3.5.1. <u>Couplers with check valve</u>	
3.1.2. NPT	30	3.5.1.1. High Pressure	31
3.2. Screw Type Quick Disconnects (with CV) – Hydraulic	30	3.5.1.2. Medium Pressure	31
3.2.1. NPT	30	3.5.1.3. NPT	31
3.3. Push/ Pull Type Quick Disconnects (no CV) – Waterblast	30	3.5.1.4. JIC	31
3.3.1. NPT	30	3.5.1.5. Type M	31
3.4. Push/ Pull Type Quick Disconnects (with CV) – Hydraulic	30	3.5.2. Nipples with check valve	
3.4.1. BSPP	30	3.5.2.1. High Pressure	31
		3.5.2.2. Medium Pressure	31
		3.5.2.3. NPT	31
		3.5.2.4. JIC	31
		3.5.2.5. Type M	31
		3.5.3. Nipples without check valve	
		3.5.3.1. High Pressure	32
		3.5.3.2. Medium Pressure	32
		3.5.3.3. NPT	32
		3.5.3.4. JIC	32
		3.5.3.5. Type M	32

Nomenclature of V-F-T Products



e.g. **HMF9-HM9**

H = Coupler

MF = Medium Pressure Female

9 = Size 9/16"

HM = High Pressure Male

9 = Size 9/16"

Beside Type M all fittings and adapters begins with letter H. These fittings and adapters start with letter M.

All the time female connection is mentioned before male connection like 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
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

No.	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"

V-F-T Product Range

Adapters and Fittings

SPIR STAR offers a variety of Adapters and Fittings in multiple thread styles and working pressures up to 4,138 bar / 60,000 psi.

SPC Series Quick Disconnect Couplings

2,068 bar / 30,000 psi maximum working pressure

- Stainless Steel construction
- 0.25" inner diameter (ID) port size
- Rated for full working pressure when disconnected

Quick Disconnect Couplers

SPIR STAR offers a variety of Quick Disconnect Couplings in multiple thread styles and working pressures up to 2,068 bar / 30,000 psi.

Valves

SPIR STAR offers a large variety of needle, ball, and check valves with several thread variations and working pressures up to 4,138 bar / 60,000 psi.

Repair kits for all valve types are offered by SPIR STAR. Also, stainless steel handles are available for needle valves upon request.

Common Description and Additional Information

High Pressure Adapter

SPIR STAR High-Pressure fittings seal with a 60 degree cone and are rated for working pressures up to 4,138 bar / 60,000 psi.



Common Description	Actual Thread Dimension
1/4" High Pressure	9/16"-18 Thread on Gland Nut
3/8" High Pressure	3/4"-16 Thread on Gland Nut
9/16" High Pressure	1 1/8"-12 Thread on Gland Nut

Medium Pressure Adapter

SPIR STAR Medium Pressure fittings (sometimes known as "Slimline") seal with a 60 degree cone and are rated for working pressures up to 1,380 bar / 20,000 psi.



Common Description	Actual Thread Dimension
1/4" High Pressure	7/16"-20 Thread on Gland Nut
3/8" High Pressure	9/16"-18 Thread on Gland Nut
9/16" High Pressure	9/16" High Pressure
3/4" Medium Pressure	3/4" Medium Pressure

JIC Adapter

SPIR STAR JIC adapters seal with a 37 degree cone and are rated for working pressures up to 690 bar / 10,000 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"-20 Thread
#6 3/8" JIC	9/16"-18 Thread
#8 1/2" JIC	3/4"-16 Thread
#12 3/4" JIC	1 1/16"-12 Thread
#16 1" JIC	1 5/16"-12 Thread

NPT Adapter

NPT (National Pipe Taper) fittings have working pressures up to 1,035 bar / 15,000 psi. However, working pressures may be decreased depending upon thread size.



Common Description	Working Pressure
1/16" - 1/2" NPT	1,035 bar / 15,000 psi
3/4" - 1" NPT	690 bar / 10,000 psi

Type M Adapter

SPIR STAR Type M adapters are for use with Type M swivel hose end fittings. These



Common Description	Actual Thread Dimension
M9	9/16"-18 Thread
M12	3/4"-16 Thread
M14	7/8"-14 Thread
M16	1"-12 Thread
M18	1 1/8"-12 Thread
M21	1 5/16"-12 Thread

Metric Adapters (for o-ring seal)

SPIR STAR metric adapters (for o-rings) seal with a 24 degree cone.



Common Description	Cone 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 fittings are available with both internal and external sealing cones. When sealing BSPP adapters with bonded seals rather than on the cone, the working pressure of the fitting may be lower than the stated pressure on the fitting.



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

I.1 Fittings and Adapters

SPIR STAR®

High-Pressure Male x Male

Part Number	Description	Max Working Pressure	
HHM4-HM4	1/4" HP Male x 1/4" HP Male	4.140 bar	60.000 psi
HHM4-HM6	1/4" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HHM4-HM9	1/4" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HHM6-HM6	3/8" HP Male x 3/8" HP Male	4.140 bar	60.000 psi
HHM6-HM9	3/8" HP Male x 9/16" HP Male	4.140 bar	60.000 psi
HHM9-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 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-HF4-LL	1/4" HP Female Slimline Coupler Left x Left* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF4-LR	1/4" HP Female Slimline Coupler Left x Right* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF4-RR	1/4" HP Female Slimline Coupler Right x Right* 0.445" OD	2.760 bar	40.000 psi
HCSL-HF6-LL	3/8" HP Female Slimline Coupler Left x Left* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF6-LR	3/8" HP Female Slimline Coupler Left x Right* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF6-RR	3/8" HP Female Slimline Coupler Right x Right* 0.562" OD	2.760 bar	40.000 psi
HCSL-HF9-LL	9/16" HP Female Slimline Coupler Left x Left* 0.750" OD	2.760 bar	40.000 psi
HCSL-HF9-LR	9/16" HP Female Slimline Coupler Left x Right* 0.750" OD	2.760 bar	40.000 psi
HCSL-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.1 Fittings and Adapters

SPIR STAR®

High-Pressure Male x Medium Pressure Male

Part Number	Description	Max Working Pressure	
HHM4-MM4	1/4" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM4-MM6	1/4" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM4-MM9	1/4" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM4-MM12	1/4" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM4-MM16	1/4" HP Male x 1" MP Male	1.380 bar	20.000 psi
HHM6-MM4	3/8" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM6-MM6	3/8" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM6-MM9	3/8" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM6-MM12	3/8" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM6-MM16	3/8" HP Male x 1" MP Male	1.380 bar	20.000 psi
HHM9-MM4	9/16" HP Male x 1/4" MP Male	1.380 bar	20.000 psi
HHM9-MM6	9/16" HP Male x 3/8" MP Male	1.380 bar	20.000 psi
HHM9-MM9	9/16" HP Male x 9/16" MP Male	1.380 bar	20.000 psi
HHM9-MM12	9/16" HP Male x 3/4" MP Male	1.380 bar	20.000 psi
HHM9-MM16	9/16" HP Male x 1" MP Male	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



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



I.1 Fittings and Adapters

SPIR STAR®

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 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



I.I Fittings and Adapters

SPIR STAR®

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



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



I.1 Fittings and Adapters

SPIR STAR®

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.1 Fittings and Adapters

SPIR STAR®

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 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



I.1 Fittings and Adapters

SPIR STAR®

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



NPT Female x Medium Pressure Male

Part Number	Description	Max Working Pressure	
HNF2-MM4	1/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HNF2-MM6	1/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HNF2-MM9	1/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HNF2-MM12	1/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HNF4-MM4	1/4" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HNF4-MM6	1/4" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HNF4-MM9	1/4" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HNF4-MM12	1/4" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HNF4-MM16	1/4" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HNF6-MM4	3/8" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HNF6-MM6	3/8" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HNF6-MM9	3/8" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HNF6-MM12	3/8" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HNF6-MM16	3/8" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HNF8-MM4	1/2" NPT Female x 1/4" MP Male	1.035 bar	15.000 psi
HNF8-MM6	1/2" NPT Female x 3/8" MP Male	1.035 bar	15.000 psi
HNF8-MM9	1/2" NPT Female x 9/16" MP Male	1.035 bar	15.000 psi
HNF8-MM12	1/2" NPT Female x 3/4" MP Male	1.035 bar	15.000 psi
HNF8-MM16	1/2" NPT Female x 1" MP Male	1.035 bar	15.000 psi
HNF12-MM6	3/4" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HNF12-MM9	3/4" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HNF12-MM12	3/4" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HNF12-MM16	3/4" NPT Female x 1" MP Male	690 bar	10.000 psi
HNF16-MM6	1" NPT Female x 3/8" MP Male	690 bar	10.000 psi
HNF16-MM9	1" NPT Female x 9/16" MP Male	690 bar	10.000 psi
HNF16-MM12	1" NPT Female x 3/4" MP Male	690 bar	10.000 psi
HNF16-MM16	1" NPT Female x 1" MP Male	690 bar	10.000 psi



I.1 Fittings and Adapters

SPIR STAR®

NPT Male x Male

Part Number	Description	Max Working Pressure	
HNM2-NM2	1/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HNM4-NM2	1/4" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HNM4-NM4	1/4" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HNM6-NM2	3/8" NPT Male x 1/8" NPT Male	1.035 bar	15.000 psi
HNM6-NM4	3/8" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HNM6-NM6	3/8" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HNM8-NM4	1/2" NPT Male x 1/4" NPT Male	1.035 bar	15.000 psi
HNM8-NM6	1/2" NPT Male x 3/8" NPT Male	1.035 bar	15.000 psi
HNM8-NM8	1/2" NPT Male x 1/2" NPT Male	1.035 bar	15.000 psi
HNM12-NM4	3/4" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HNM12-NM6	3/4" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HNM12-NM8	3/4" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HNM12-NM12	3/4" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HNM16-NM4	1" NPT Male x 1/4" NPT Male	690 bar	10.000 psi
HNM16-NM6	1" NPT Male x 3/8" NPT Male	690 bar	10.000 psi
HNM16-NM8	1" NPT Male x 1/2" NPT Male	690 bar	10.000 psi
HNM16-NM12	1" NPT Male x 3/4" NPT Male	690 bar	10.000 psi
HNM16-NM16	1" NPT Male x 1" NPT Male	690 bar	10.000 psi



I.1 Fittings and Adapters

SPIR STAR®

NPT Female x NPT Male (Bushings)

Part Number	Description	Max Working Pressure	
HNF1-NM2	1/16" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNF1-NM4	1/16" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNF1-NM6	1/16" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNF1-NM8	1/16" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNF2-NM4	1/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNF2-NM6	1/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNF2-NM8	1/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNF4-NM2	1/4" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNF4-NM4	1/4" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNF4-NM6	1/4" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNF4-NM8	1/4" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNF4-NM12	1/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNF4-NM16	1/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNF6-NM2	3/8" NPT Female x 1/8" NPT Male	1.035 bar	15.000 psi
HNF6-NM4	3/8" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNF6-NM6	3/8" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNF6-NM8	3/8" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNF6-NM12	3/8" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNF6-NM16	3/8" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNF8-NM4	1/2" NPT Female x 1/4" NPT Male	1.035 bar	15.000 psi
HNF8-NM6	1/2" NPT Female x 3/8" NPT Male	1.035 bar	15.000 psi
HNF8-NM8	1/2" NPT Female x 1/2" NPT Male	1.035 bar	15.000 psi
HNF8-NM12	1/2" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNF8-NM16	1/2" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNF12-NM4	3/4" NPT Female x 1/4" NPT Male	690 bar	10.000 psi
HNF12-NM8	3/4" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNF12-NM12	3/4" NPT Female x 3/4" NPT Male	690 bar	10.000 psi
HNF12-NM16	3/4" NPT Female x 1" NPT Male	690 bar	10.000 psi
HNF16-NM6	1" NPT Female x 3/8" NPT Male	690 bar	10.000 psi
HNF16-NM8	1" NPT Female x 1/2" NPT Male	690 bar	10.000 psi
HNF16-NM12	1" NPT Female x 3/4" NPT Male	690 bar	10.000 psi



I.1 Fittings and Adapters

SPIR STAR®

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-NF12-NF4 HD	3/4" NPT Female x 1/4" NPT Female Couple	690 bar	10.000 psi
HC-NF12-NF6 HD	3/4" NPT Female x 3/8" NPT Female Couple	690 bar	10.000 psi
HC-NF12-NF8 HD	3/4" NPT Female x 1/2" NPT Female Couple	690 bar	10.000 psi
HC-NF12 HD	3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NF16-NF8 HD	1" NPT Female x 1/2" NPT Female Coupler	690 bar	10.000 psi
HC-NF16-NF12 HD	1" NPT Female x 3/4" NPT Female Coupler	690 bar	10.000 psi
HC-NF16 HD	1" NPT Female Coupler	690 bar	10.000 psi



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



I.1 Fittings and Adapters

SPIR STAR®

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



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



I.1 Fittings and Adapters

SPIR STAR®

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



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



I. I Fittings and Adapters

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



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	
C09-125-1680	1/4" MBSPP-Ext. x 1/4" HP Male	2.070 bar	30.000 psi
C09-125-1681	1/4" MBSPP-Ext. x 1/4" MP Male	1.380 bar	20.000 psi
C19-950-0029	1/4" MBSPP-Ext. x 9/16"-18 Type M Male	2.070 bar	30.000 psi
C19-950-1601	1/4" MBSPP-Ext. x 1/4" MBSPP-Ext.	2.070 bar	30.000 psi
C19-950-1602	1/4" MBSPP-Ext. x 1/4" MBSPP-Int.	2.070 bar	30.000 psi
C19-950-1622	1/4" MBSPP-Int. x 1/4" MBSPP-Int.	2.070 bar	30.000 psi



I.1 Fittings and Adapters

SPIR STAR®

BSPP Male x NPT Male			
Part Number	Description	Max Working Pressure	
C19-950-1625	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



BSPP Male Connectors-int.			
Part Number	Description	Max Working Pressure	
HBM4-BM4	GI/4" Male Connector	2.070 bar	30.000 psi
HBM4-BM4-WV	GI/4" Male Connector	3.200 bar	46.400 psi
HBM6-BM6	G3/8" Male Connector	2.070 bar	30.000 psi
HBM8-BM8	GI/2" Male Connector	2.070 bar	30.000 psi
HBM12-BM12	G3/4" Male Connector	2.070 bar	30.000 psi



USIT-rings for 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-WV	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-WV	M20x1.5 Male Connector	2.500 bar	36.250 psi
HMEM22-MEM22	M22x1.5 Male Connector	1.920 bar	21.750 psi
HMEM22-MEM22-WV	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-WV	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-WV	M24x1.5 Male Connector	3.200 bar	46.400 psi
HMEM30-MEM30	M30x2 Male Connector	1.040 bar	15.080 psi
HMEM30-MEM30-WV	M30x2 Male Connector	1.520 bar	22.040 psi
HMEM36-MEM24	M36x2 Male x M24x1.5 Male Connector	1.040 bar	15.080 psi
HMEM36-MEM24-WV	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-WV	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-WV	M42x2 Male x M36x2 Male Connector	1.520 bar	22.040 psi
HMEM42-MEM42	M42x2 Male Connector	900 bar	13.050 psi
HMEM42-MEM42-WV	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-WV	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



I.1 Fittings and Adapters

SPIR STAR®

Metric Couplers Female - 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



I.2 Elbows

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

Part Number	Description	Max Working Pressure	
HEHF4	1/4" HP Female Elbow	4.140 bar	60.000 psi
HEHF6	3/8" HP Female Elbow	4.140 bar	60.000 psi
HEHF9	9/16" HP Female Elbow	4.140 bar	60.000 psi



Medium Pressure Female Elbows - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
HEMF4	1/4" MP Female Elbow	1.380 bar	20.000 psi
HEMF6	3/8" MP Female Elbow	1.380 bar	20.000 psi
HEMF9	9/16" MP Female Elbow	1.380 bar	20.000 psi
HEMF12	3/4" MP Female Elbow	1.380 bar	20.000 psi
HEMF16	1" MP Female Elbow	1.380 bar	20.000 psi



NPT Female Elbows

Part Number	Description	Max Working Pressure	
HENF4	1/4" NPT Female Elbow	1.035 bar	15.000 psi
HENF6	3/8" NPT Female Elbow	1.035 bar	15.000 psi
HENF8	1/2" NPT Female Elbow	1.035 bar	15.000 psi
HENF12	3/4" NPT Female Elbow	690 bar	10.000 psi
HENF16	1" NPT Female Elbow	690 bar	10.000 psi



NPT Street Elbows

Part Number	Description	Max Working Pressure	
HSENF4	1/4" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
HSENF6	3/8" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi
HSENF8	1/2" NPT Male x NPT Female Street Elbow	1.035 bar	15.000 psi



BSPP Elbow

Part Number	Description	Max Working Pressure	
C19-950-HEBM4	1/4" MBSPP-Ext. Elbow	2.070 bar	30.000 psi



I.3 Tees

SPIR STAR®

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

Part Number	Description	Max Working Pressure		
HTHF4	1/4" HP Female Tee	4.140 bar	60.000 psi	
HTHF6	3/8" HP Female Tee	4.140 bar	60.000 psi	
HTHF9	9/16" HP Female Tee	4.140 bar	60.000 psi	

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

Part Number	Description	Max Working Pressure		
HT-MEF30-CLR-M14	Tee M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi	

Medium Pressure Female Tees - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure		
HTMF4	1/4" MP Female Tee	1.380 bar	20.000 psi	
HTMF6	3/8" MP Female Tee	1.380 bar	20.000 psi	
HTMF9	9/16" MP Female Tee	1.380 bar	20.000 psi	
HTMF12	3/4" MP Female Tee	1.380 bar	20.000 psi	
HTMF16	1" MP Female Tee	1.380 bar	20.000 psi	

NPT Female Tees

Part Number	Description	Max Working Pressure		
HTNF4	1/4" NPT Female Tee	1.035 bar	15.000 psi	
HTNF6	3/8" NPT Female Tee	1.035 bar	15.000 psi	
HTNF8	1/2" NPT Female Tee	1.035 bar	15.000 psi	
HTNF12	3/4" NPT Female Tee	690 bar	10.000 psi	
HTNF16	1" NPT Female Tee	690 bar	10.000 psi	

NPT Street Tees

Part Number	Description	Max Working Pressure		
HSTNF4	1/4" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi	
HSTNF6	3/8" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi	
HSTNF8	1/2" NPT Male x NPT Female Street Tee	1.035 bar	15.000 psi	

BSPP Tees

Part Number	Description	Max Working Pressure		
C19-950-1681	1/4" BSPP-Ext. Female Tee	2.070 bar	30.000 psi	

I.4 Y's

Metric Y's

Part Number	Description	Max Working Pressure		
HY-MEF30-CLR-M14	Y M30x2 female incl. collars M14 and gland nuts	4.000 bar	58.000 psi	

I.5 Crosses

SPIR STAR®

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

Part Number	Description	Max Working Pressure		
HCRHF4	1/4" HP Female Cross	4.140	bar 60.000 psi	
HCRHF6	3/8" HP Female Cross	4.140	bar 60.000 psi	
HCRHF9	9/16" HP Female Cross	4.140	bar 60.000 psi	

Medium Pressure Female Crosses - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure		
HCRMF4	1/4" MP Female Cross	1.380	bar 20.000 psi	
HCRMF6	3/8" MP Female Cross	1.380	bar 20.000 psi	
HCRMF9	9/16" MP Female Cross	1.380	bar 20.000 psi	
HCRMF12	3/4" MP Female Cross	1.380	bar 20.000 psi	
HCRMF16	1" MP Female Cross	1.380	bar 20.000 psi	

NPT Female Crosses

Part Number	Description	Max Working Pressure		
HCRNF4	1/4" NPT Female Cross	1.035	bar 15.000 psi	
HCRNF6	3/8" NPT Female Cross	1.035	bar 15.000 psi	
HCRNF8	1/2" NPT Female Cross	1.035	bar 15.000 psi	
HCRNF12	3/4" NPT Female Cross	690	bar 10.000 psi	
HCRNF16	1" NPT Female Cross	690	bar 10.000 psi	

BSPP Crosses

Part Number	Description	Max Working Pressure		
C19-950-1680	1/4" BSPP-Ext. Female Cross	2.070	bar 30.000 psi	

I.6 Bulkheads

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

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

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

Part Number	Description	Max Working Pressure		
HC-MEF30-CLR-M14-BH	Bulkhead coupling M30x2	4.000	bar 58.000 psi	

Medium Pressure Bulkheads - including Collars and Gland Nuts

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

I.7 Tube Nipples

SPIR STAR®

High-Pressure Tube Nipples

Part Number	Description	Max Working Pressure	
HHM4-3.00	1/4" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM4-6.00	1/4" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM4-8.00	1/4" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM4-10.00	1/4" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM4-12.00	1/4" HP Nipple x 12" Long	4.140 bar	60.000 psi
HHM6-3.00	3/8" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM6-6.00	3/8" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM6-8.00	3/8" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM6-10.00	3/8" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM6-12.00	3/8" HP Nipple x 12" Long	4.140 bar	60.000 psi
HHM9-3.00	9/16" HP Nipple x 3" Long	4.140 bar	60.000 psi
HHM9-6.00	9/16" HP Nipple x 6" Long	4.140 bar	60.000 psi
HHM9-8.00	9/16" HP Nipple x 8" Long	4.140 bar	60.000 psi
HHM9-10.00	9/16" HP Nipple x 10" Long	4.140 bar	60.000 psi
HHM9-12.00	9/16" HP Nipple x 12" Long	4.140 bar	60.000 psi



Medium Pressure Tube Nipples

Part Number	Description	Max Working Pressure	
HMM4-3.00	1/4" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM4-4.00	1/4" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM4-8.00	1/4" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM4-10.00	1/4" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM4-12.00	1/4" MP Nipple x 12" Long	1.380 bar	20.000 psi
HMM6-3.00	3/8" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM6-6.00	3/8" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM6-8.00	3/8" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM6-10.00	3/8" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM6-12.00	3/8" MP Nipple x 12" Long	1.380 bar	20.000 psi
HMM9-3.00	9/16" MP Nipple x 3" Long	1.380 bar	20.000 psi
HMM9-6.00	9/16" MP Nipple x 6" Long	1.380 bar	20.000 psi
HMM9-8.00	9/16" MP Nipple x 8" Long	1.380 bar	20.000 psi
HMM9-10.00	9/16" MP Nipple x 10" Long	1.380 bar	20.000 psi
HMM9-12.00	9/16" MP Nipple x 12" Long	1.380 bar	20.000 psi



I.7 Tube Nipples

SPIR STAR®

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

SPIR STAR®

High-Pressure Plugs

Part Number	Description	Max Working Pressure	
HHM4-PLUG	1/4" HP Plug	4.140 bar	60.000 psi
HMM6-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	
HNMI-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



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	
C19-950-PLUG	1/4" MBSPP-Ext. Plug	2.070 bar	30.000 psi



I.9 Collars & Gland Nuts

SPIR STAR®

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	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
CLR-M14	M14x1.5 LH Collar for M30x2 (GN-M30)	4.000 bar	58.000 psi
CLR-M18	M18x1.5 LH Collar for M30x2 (GN-M30-M18)	4.000 bar	58.000 psi
GN-M16	M16x1.5 Gland Nut	4.000 bar	58.000 psi
GN-M20	M20x1.5 Gland Nut	4.000 bar	58.000 psi
GN-M26	M26x1.5 Gland Nut	4.000 bar	58.000 psi
GN-M30-M18	M30x2 Gland Nut for M18x1.5 (CLR-M18-M30)	4.000 bar	58.000 psi
GN-M30	M30x2 Gland Nut for M14x1.5 LH (CLR-M14) & 9/16"x18UNF LH (CLR-9/16-HP)	4.000 bar	58.000 psi



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



I.10 Caps

SPIR STAR®

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
MI2-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



I.11 Tubing

High-Pressure Tubing

Part Number	Description	Max Working Pressure	
TU-HP4-60K	HP Tubing 1/4" OD X 0.083" ID	4.140 bar	60.000 psi
TU-HP6-60K	HP Tubing 3/8" OD X 0.125" ID	4.140 bar	60.000 psi
TU-HP9-60K	HP Tubing 9/16" OD X 0.188" ID	4.140 bar	60.000 psi



Medium Pressure Tubing

Part Number	Description	Max Working Pressure	
TU-MP4-20K	MP Tubing 1/4" OD X 0.109" ID	1.380 bar	20.000 psi
TU-MP6-20K	MP Tubing 3/8" OD X 0.203" ID	1.380 bar	20.000 psi
TU-MP9-20K	MP Tubing 9/16" OD X 0.312" ID	1.380 bar	20.000 psi
TU-MP12-20K	MP Tubing 3/4" OD X 0.438" ID	1.380 bar	20.000 psi
TU-MP16-20K	MP Tubing 1" OD X 0.562" ID	1.380 bar	20.000 psi



2.1 Needle Valves

SPIR STAR®

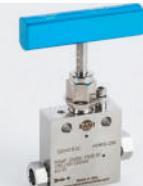
Needle Valves - 30K to 60K - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
HVHF4-30K	1/4" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF4-60K	1/4" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF4-12-30K	1/4" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF4-12-60K	1/4" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF4-14-30K	1/4" HP Female Three Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF4-14-60K	1/4" HP Female Three Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF6-30K	3/8" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF6-60K	3/8" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF6-12-30K	3/8" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF6-12-60K	3/8" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF6-14-30K	3/8" HP Female Three Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF6-14-60K	3/8" HP Female Three Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF9-30K	9/16" HP Female Two Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF9-60K	9/16" HP Female Two Way Straight Needle Valve	4.140 bar	60.000 psi
HVHF9-12-30K	9/16" HP Female Two Way Angle Needle Valve	2.070 bar	30.000 psi
HVHF9-12-60K	9/16" HP Female Two Way Angle Needle Valve	4.140 bar	60.000 psi
HVHF9-14-30K	9/16" HP Female Three Way Straight Needle Valve	2.070 bar	30.000 psi
HVHF9-14-60K	9/16" HP Female Three Way Straight Needle Valve	4.140 bar	60.000 psi



Needle Valves - 20K - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
HVMF4-20K	1/4" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF4-12-20K	1/4" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF4-14-20K	1/4" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF6-20K	3/8" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF6-12-20K	3/8" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF6-14-20K	3/8" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF9-20K	9/16" MP Female Two Way Straight Needle Valve	1.380 bar	20.000 psi
HVMF9-12-20K	9/16" MP Female Two Way Angle Needle Valve	1.380 bar	20.000 psi
HVMF9-14-20K	9/16" MP Female Three Way Straight Needle Valve	1.380 bar	20.000 psi



Needle Valves - 15K

Part Number	Description	Max Working Pressure	
HVNF4-15K	1/4" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF4-12-15K	1/4" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF6-15K	3/8" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF6-12-15K	3/8" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF8-15K	1/2" NPT Female Two Way Straight Needle Valve	1.035 bar	15.000 psi
HVNF8-12-15K	1/2" NPT Female Two Way Angle Needle Valve	1.035 bar	15.000 psi
HVNF8NM8-15K	1/2" NPT Female x 1/2" NPT Male Two Way Straight Needle Valve	1.035 bar	15.000 psi



2.2 Ball Valves

SPIR STAR®

Two Way Ball Valves - 20K - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
HVBMF4-20K	1/4" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMF6-20K	3/8" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMF9-20K	9/16" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi
HVBMFI2-20K	3/4" MP Female Two Way Straight Ball Valve	1.380 bar	20.000 psi



Two Way Ball Valves - 15K

Part Number	Description	Max Working Pressure	
HVBNF4-15K	1/4" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF6-15K	3/8" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF8-15K	1/2" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi
HVBNF16-15K	1" NPT Female Two Way Straight Ball Valve	1.035 bar	15.000 psi



2.3 Check Valves

High-Pressure Check Valves - 60K - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
CV-HF4-BS	1/4" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF4-SS	1/4" HP Female Check Valve with soft seat	4.140 bar	60.000 psi
CV-HF6-BS	3/8" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF6-SS	3/8" HP Female Check Valve with soft seat	4.140 bar	60.000 psi
CV-HF9-BS	9/16" HP Female Check Valve with ball seat	4.140 bar	60.000 psi
CV-HF9-SS	9/16" HP Female Check Valve with soft seat	4.140 bar	60.000 psi



Medium Pressure Check Valves - 20K - including Collars and Gland Nuts

Part Number	Description	Max Working Pressure	
CV-MF4-BS	1/4" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF4-SS	1/4" MP Female Check Valve with soft seat	1.380 bar	20.000 psi
CV-MF6-BS	3/8" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF6-SS	3/8" MP Female Check Valve with soft seat	1.380 bar	20.000 psi
CV-MF9-BS	9/16" MP Female Check Valve with ball seat	1.380 bar	20.000 psi
CV-MF9-SS	9/16" MP Female Check Valve with soft seat	1.380 bar	20.000 psi



NPT Check Valves - 15K

Part Number	Description	Max Working Pressure	
CV-NF4-BS	1/4" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF4-SS	1/4" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi
CV-NF6-BS	3/8" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF6-SS	3/8" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi
CV-NF8-BS	1/2" NPT Female Check Valve with ball seat	1.035 bar	15.000 psi
CV-NF8-SS	1/2" NPT Female Check Valve with soft seat	1.035 bar	15.000 psi



2.4 Relief Valves

SPIR STAR®

Relief Valve - Manual Adjustable

Part Number	Description	Max Working Pressure		
HVR-10K-FA	Relief Valve - Manual Adjustable IN: 2x 1/4" NPT Female OUT: 1/4" NPT Female - From 69 to 690 bar working pressure	690 bar	10.000 psi	
HVR-20K-FA	Relief Valve - Manual Adjustable IN: 1/4" HP Female OUT: 1/4" NPT Female - From 690 to 1.380 bar working pressure	1.380 bar	20.000 psi	

3.1 Screw Type Quick Disconnects

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

Part Number	Description	Max Working Pressure		
CQD-MP9-SET	9/16" MP Female Screw Together Quick Disconnect Set	1.380 bar	20.000 psi	
CQD-08-SET	1/2" NPT Female Screw Together Quick Disconnect Set	1.035 bar	15.000 psi	

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

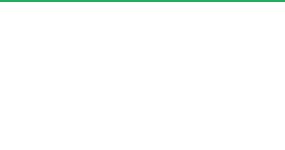
Part Number	Description	Max Working Pressure		
C-700-1452	1/4" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi	
C-700-1452-m-cap	Metal cap male 1/4" NPT	0 bar	0 psi	
C-700-1454	3/8" NPT Male Screw Together Quick Disconnect Coupler	690 bar	10.000 psi	
C-700-1454-m-cap	Metal cap male 3/8" NPT	0 bar	0 psi	
C-700-6402	1/4" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi	
C-700-6402-fm-cap	Metal cap 1/4" NPT female	0 bar	0 psi	
C-700-6404	3/8" NPT Female Screw Together Quick Disconnect Nipple	690 bar	10.000 psi	
C-700-6404-fm-cap	Metal cap 3/8" NPT female	0 bar	0 psi	

3.3. Push/ Pull Type Quick Disconnects

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

Part Number	Description	Max Working Pressure		
CQD-08-FD-F	1/2" NPT Female Push/Pull Quick Disconnect Coupler	690 bar	10.000 psi	
CQD-08-FD-M	1/2" NPT Female Push/Pull Quick Disconnect Nipple	690 bar	10.000 psi	

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

Part Number	Description	Max Working Pressure		
C10-116-1202	1/4" BSP Female Push/Pull Quick Disconnect Coupler	1.500 bar	21.750 psi	
C10-116-6202	1/4" BSP Female Push/Pull Quick Disconnect Nipple	1.500 bar	21.750 psi	
C10-116-SET	1/4" BSP Female Push/Pull Quick Disconnect Coupler and Nipple	1.500 bar	21.750 psi	

3.4 SPC Series Quick Disconnects

SPR STAR®

Quick Disconnect Female Couplers with Check Valve

Part Number	Description	Max Working Pressure	
SPC600-0-HP4	Coupler with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-0-HP6	Coupler with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-0-HP9	Coupler with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-0-HF4	Coupler with Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
SPC600-0-HF6	Coupler with Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
SPC600-0-MP4	Coupler with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-0-MP6	Coupler with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-0-MP9	Coupler with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-0-MPI2	Coupler with Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
SPC600-0-MPI6	Coupler with Check Valve x 1" MP Male	1.380 bar	20.000 psi
SPC600-0-MF4	Coupler with Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
SPC600-0-MF6	Coupler with Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
SPC600-0-MF9	Coupler with Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
SPC600-0-NM4	Coupler with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-0-NM6	Coupler with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-0-NM8	Coupler with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-0-NF4	Coupler with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-0-NF6	Coupler with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-0-NF8	Coupler with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-0-MJ4	Coupler with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-0-MJ6	Coupler with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-0-MJ8	Coupler with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-0-M9	Coupler with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-0-MI2	Coupler with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-0-MI4	Coupler with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
SPC600-0-MI6	Coupler with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi



Quick Disconnect Male Nipples with Check Valve

Part Number	Description	Max Working Pressure	
SPC600-2-HP4	Nipple with Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-2-HP6	Nipple with Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-2-HP9	Nipple with Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-2-MP4	Nipple with Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-2-MP6	Nipple with Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-2-MP9	Nipple with Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-2-NM4	Nipple with Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-2-NM6	Nipple with Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-2-NM8	Nipple with Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-2-NF4	Nipple with Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-2-NF6	Nipple with Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-2-NF8	Nipple with Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-2-MJ4	Nipple with Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-2-MJ6	Nipple with Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-2-MJ8	Nipple with Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-2-M9	Nipple with Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-2-MI2	Nipple with Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-2-MI4	Nipple with Check Valve x 7/8"-14 Type M	2.070 bar	30.000 psi
SPC600-2-MI6	Nipple with Check Valve x 1"-12 Type M	2.070 bar	30.000 psi



3.4 SPC Series Quick Disconnects

SPIR STAR®

Quick Disconnect Male Nipples without Check Valve

Part Number	Description	Max Working Pressure	
SPC600-I-HP4	Nipple without Check Valve x 1/4" HP Male	2.070 bar	30.000 psi
SPC600-I-HP6	Nipple without Check Valve x 3/8" HP Male	2.070 bar	30.000 psi
SPC600-I-HP9	Nipple without Check Valve x 9/16" HP Male	2.070 bar	30.000 psi
SPC600-I-HF4	Nipple without Check Valve x 1/4" HP Female	2.070 bar	30.000 psi
SPC600-I-HF6	Nipple without Check Valve x 3/8" HP Female	2.070 bar	30.000 psi
SPC600-I-HF9	Nipple without Check Valve x 9/16" HP Female	2.070 bar	30.000 psi
SPC600-I-MP4	Nipple without Check Valve x 1/4" MP Male	1.380 bar	20.000 psi
SPC600-I-MP6	Nipple without Check Valve x 3/8" MP Male	1.380 bar	20.000 psi
SPC600-I-MP9	Nipple without Check Valve x 9/16" MP Male	1.380 bar	20.000 psi
SPC600-I-MP12	Nipple without Check Valve x 3/4" MP Male	1.380 bar	20.000 psi
SPC600-I-MP16	Nipple without Check Valve x 1" MP Male	1.380 bar	20.000 psi
SPC600-I-MF4	Nipple without Check Valve x 1/4" MP Female	1.380 bar	20.000 psi
SPC600-I-MF6	Nipple without Check Valve x 3/8" MP Female	1.380 bar	20.000 psi
SPC600-I-MF9	Nipple without Check Valve x 9/16" MP Female	1.380 bar	20.000 psi
SPC600-I-NM4	Nipple without Check Valve x 1/4" NPT Male	1.035 bar	15.000 psi
SPC600-I-NM6	Nipple without Check Valve x 3/8" NPT Male	1.035 bar	15.000 psi
SPC600-I-NM8	Nipple without Check Valve x 1/2" NPT Male	1.035 bar	15.000 psi
SPC600-I-NF4	Nipple without Check Valve x 1/4" NPT Female	1.035 bar	15.000 psi
SPC600-I-NF6	Nipple without Check Valve x 3/8" NPT Female	1.035 bar	15.000 psi
SPC600-I-NF8	Nipple without Check Valve x 1/2" NPT Female	1.035 bar	15.000 psi
SPC600-I-MJ4	Nipple without Check Valve x 1/4" JIC Male	1.035 bar	15.000 psi
SPC600-I-MJ6	Nipple without Check Valve x 3/8" JIC Male	1.035 bar	15.000 psi
SPC600-I-MJ8	Nipple without Check Valve x 1/2" JIC Male	1.035 bar	15.000 psi
SPC600-I-M12	Nipple without Check Valve x 3/4"-16 Type M	2.070 bar	30.000 psi
SPC600-I-M9	Nipple without Check Valve x 9/16"-18 Type M	2.070 bar	30.000 psi
SPC600-I-M16	Nipple without Check Valve x 1"-12 Type M	2.070 bar	30.000 psi





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