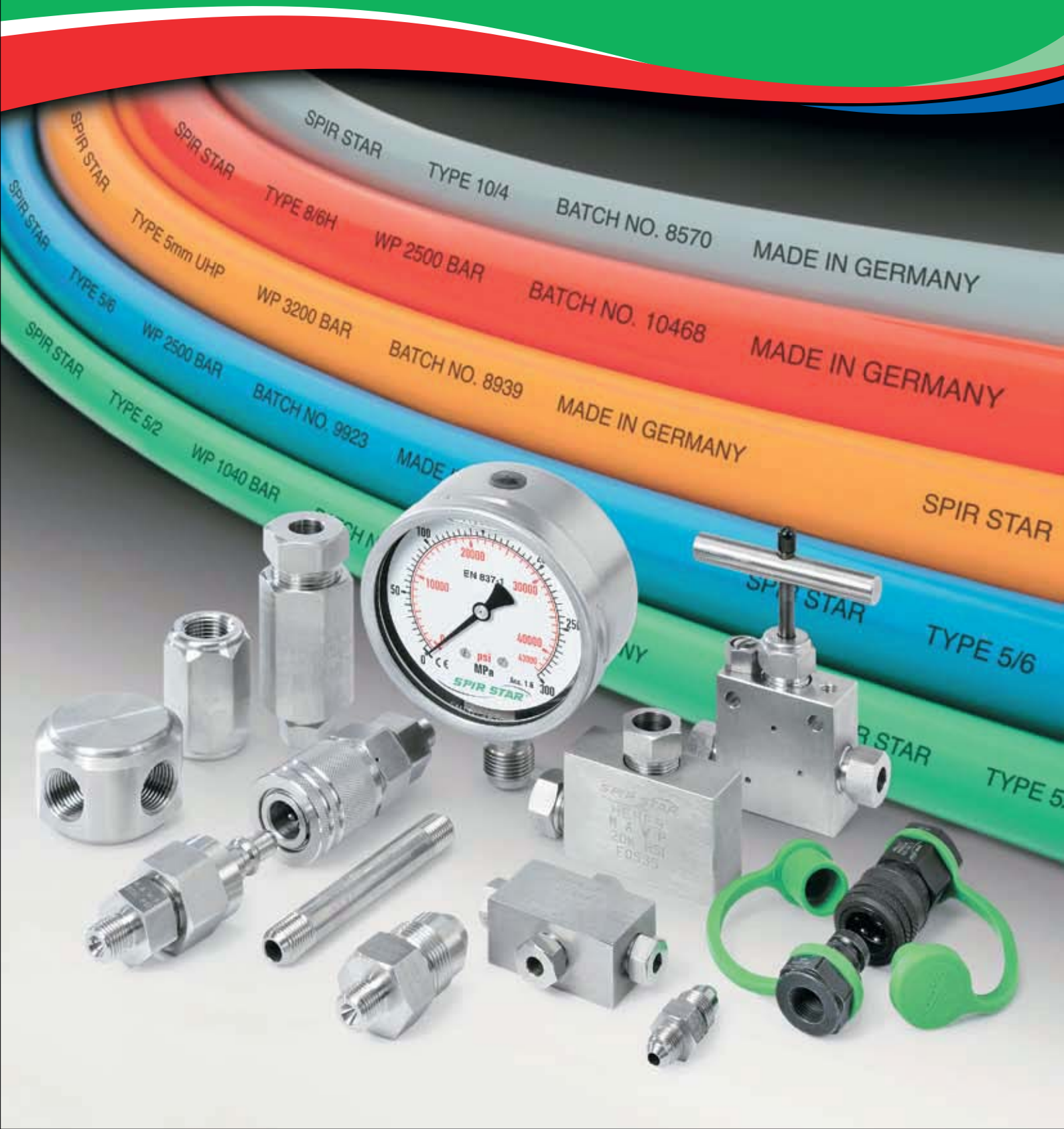


# ***SPIR STAR***<sup>®</sup>

Fitting • Adaptor • Valve • Accessories



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# High Pressure Fittings

**SPIR STAR** High Pressure fittings seal with a 60 degree cone and are rated for working pressures up to 60,000 psi.



Tube Nipple



Gland Nut Thread



Collar



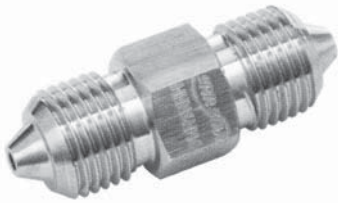
Gland Nut

### Sizes:

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

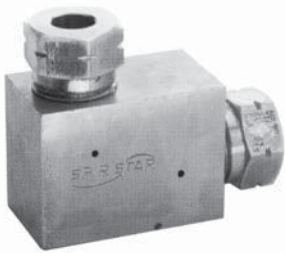
# High Pressure Fittings

**A**  
High Pressure  
Fittings



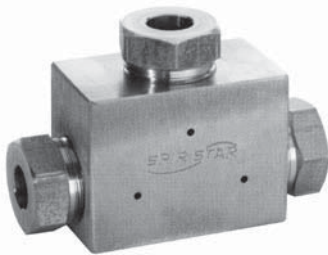
## High Pressure Male Hex Nipples

Part No.	Description	Max Working Pressure
HM4-HM4 60K	1/4" HP Male x 1/4" HP Male	60,000 psi
HM4-HM6 60K	1/4" HP Male x 3/8" HP Male	60,000 psi
HM4-HM9 60K	1/4" HP Male x 9/16" HP Male	60,000 psi
HM6-HM6 60K	3/8" HP Male x 3/8" HP Male	60,000 psi
HM6-HM9 60K	3/8" HP Male x 9/16" HP Male	60,000 psi
HM9-HM9 60K	9/16" HP Male x 9/16" HP Male	60,000 psi



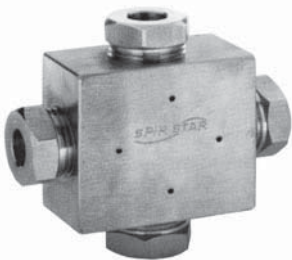
## High Pressure Female Elbows

Part No.	Description	Max Working Pressure
EHF4 60K	1/4" HP Female Elbow	60,000 psi
EHF6 60K	3/8" HP Female Elbow	60,000 psi
EHF9 60K	9/16" HP Female Elbow	60,000 psi



## High Pressure Female Tees

Part No.	Description	Max Working Pressure
THF4 60K	1/4" HP Female Tee	60,000 psi
THF6 60K	3/8" HP Female Tee	60,000 psi
THF9 60K	9/16" HP Female Tee	60,000 psi




## High Pressure Female Crosses

Part No.	Description	Max Working Pressure
CRHF4 60K	1/4" HP Female Cross	60,000 psi
CRHF6 60K	3/8" HP Female Cross	60,000 psi
CRHF9 60K	9/16" HP Female Cross	60,000 psi




## High Pressure Female X High Pressure Male


Part No.	Description	Max Working Pressure
HF4-HM6 60K	1/4" HP Female X 3/8" HP Male	60,000 psi
HF4-HM9 60K	1/4" HP Female X 9/16" HP Male	60,000 psi
HF6-HM4 60K	3/8" HP Female X 1/4" HP Male	60,000 psi
HF6-HM9 60K	3/8" HP Female X 9/16" HP Male	60,000 psi
HF9-HM4 60K	9/16" HP Female X 1/4" HP Male	60,000 psi
HF9-HM6 60K	9/16" HP Female X 3/8" HP Male	60,000 psi


High Pressure Slimline Couplers			
Part No.		Description	Max Working Pressure
	CSL-HF4-LL 40K	1/4" HP Female Slimline Coupler Left X Left* 0.445" OD	40,000 psi
	CSL-HF4-LR 40K	1/4" HP Female Slimline Coupler Left X Right* 0.445" OD	40,000 psi
	CSL-HF4-RR 40K	1/4" HP Female Slimline Coupler Right X Right* 0.445" OD	40,000 psi
	CSL-HF6-LL 40K	3/8" HP Female Slimline Coupler Left X Left* 0.562" OD	40,000 psi
	CSL-HF6-LR 40K	3/8" HP Female Slimline Coupler Left X Right* 0.562" OD	40,000 psi
	CSL-HF6-RR 40K	3/8" HP Female Slimline Coupler Right X Right* 0.562" OD	40,000 psi
	CSL-HF9-LL 40K	9/16" HP Female Slimline Coupler Left X Left* 0.750" OD	40,000 psi
	CSL-HF9-LR 40K	9/16" HP Female Slimline Coupler Left X Right* 0.750" OD	40,000 psi
	CSL-HF9-RR 40K	9/16" HP Female Slimline Coupler Right X Right* 0.750" OD	40,000 psi

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

\* Designates Left Hand Thread or Right Hand Thread

High Pressure Heavy Duty Couplers			
Part No.		Description	Max Working Pressure
	C-HF4 60K	1/4" HP Female Coupler	60,000 psi
	C-HF6 60K	3/8" HP Female Coupler	60,000 psi
	C-HF9 60K	9/16" HP Female Coupler	60,000 psi
	C-HF9-HF6 60K	9/16" HP Female X 3/8" HP Female Coupler	60,000 psi

High Pressure Tube Nipples			
Part No.		Description	Max Working Pressure
	HM4-3" 60K	1/4" HP Nipple X 3" Long	60,000 psi
	HM4-6" 60K	1/4" HP Nipple X 6" Long	60,000 psi
	HM6-3" 60K	3/8" HP Nipple X 3" Long	60,000 psi
	HM6-4" 60K	3/8" HP Nipple X 4" Long	60,000 psi
	HM9-4" 60K	9/16" HP Nipple X 4" Long	60,000 psi
	HM9-6" 60K	9/16" HP Nipple X 6" Long	60,000 psi

High Pressure Plugs			
Part No.		Description	Max Working Pressure
	PLUG-HM2 60K	1/8" HP Plug	60,000 psi
	PLUG-HM4 60K	1/4" HP Plug	60,000 psi
	PLUG-HM6 60K	3/8" HP Plug	60,000 psi
	PLUG-HM9 60K	9/16" HP Plug	60,000 psi

# High Pressure Fittings

**A**  
High Pressure  
Fittings

Gland Nut



Collar

## High Pressure Gland Nuts and Collars

Part No.	Description	Max Working Pressure
GN-1/4"HP 60K	1/4" HP Gland Nut	60,000 psi
GN-3/8"HP 60K	3/8" HP Gland Nut	60,000 psi
GN-9/16"HP 60K	9/16" HP Gland Nut	60,000 psi
CLR-1/4"HP 60K	1/4" HP Collars	60,000 psi
CLR-3/8"HP 60K	3/8" HP Collars	60,000 psi
CLR-9/16"HP 60K	9/16" HP Collars	60,000 psi



## High Pressure Caps

Part No.	Description	Max Working Pressure
CAP-HF4 60K	1/4" HP Female Cap	60,000 psi
CAP-HF6 60K	3/8" HP Female Cap	60,000 psi
CAP-HF9 60K	9/16" HP Female Cap	60,000 psi

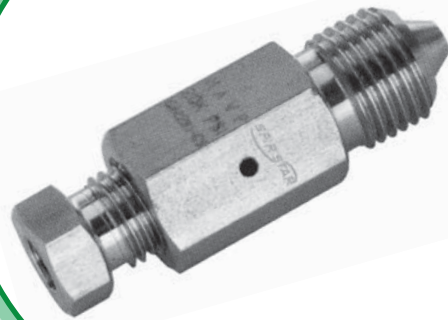


**SPIR STAR®**

# High Pressure X Medium Pressure Adaptors

**SPIR STAR** High Pressure X Medium Pressure adaptors seal with a 60 degree cone and are rated for working pressures up to 20,000 psi.

**B**  
High Pressure X Medium Pressure Adaptors



### Sizes:

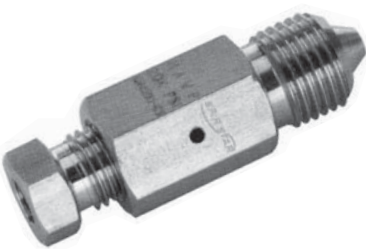
Common Description	Actual Thread Dimension
1/4" High Pressure	9/16"-18 Thread on Gland Nut
3/8" High Pressure	3/4"-16 Thread on Gland Nut
9/16" High Pressure	1-1/8"-12 Thread on Gland Nut
1/4" Medium Pressure	7/16"-20 Thread on Gland Nut
3/8" Medium Pressure	9/16"-18 Thread on Gland Nut
9/16" Medium Pressure	13/16"-16 Thread on Gland Nut
3/4" Medium Pressure	3/4"-14 Thread on Gland Nut



High Pressure Male X Medium Pressure Male			
Part No.		Description	Max Working Pressure
HM4-MM4	20K	1/4" HP Male X 1/4" MP Male	20,000 psi
HM4-MM6	20K	1/4" HP Male X 3/8" MP Male	20,000 psi
HM4-MM9	20K	1/4" HP Male X 9/16" MP Male	20,000 psi
HM6-MM4	20K	3/8" HP Male X 1/4" MP Male	20,000 psi
HM6-MM6	20K	3/8" HP Male X 3/8" MP Male	20,000 psi
HM6-MM9	20K	3/8" HP Male X 9/16" MP Male	20,000 psi
HM9-MM6	20K	9/16" HP Male X 3/8" MP Male	20,000 psi
HM9-MM9	20K	9/16" HP Male X 9/16" MP Male	20,000 psi
HM9-MM12	20K	9/16" HP Male X 3/4" MP Male	20,000 psi



High Pressure Female X Medium Pressure Male			
Part No.		Description	Max Working Pressure
HF4-MM4	20K	1/4" HP Female X 1/4" MP Male	20,000 psi
HF4-MM6	20K	1/4" HP Female X 3/8" MP Male	20,000 psi
HF4-MM9	20K	1/4" HP Female X 9/16" MP Male	20,000 psi
HF6-MM4	20K	3/8" HP Female X 1/4" MP Male	20,000 psi
HF6-MM6	20K	3/8" HP Female X 3/8" MP Male	20,000 psi
HF6-MM9	20K	3/8" HP Female X 9/16" MP Male	20,000 psi
HF9-MM6	20K	9/16" HP Female X 3/8" MP Male	20,000 psi
HF9-MM9	20K	9/16" HP Female X 9/16" MP Male	20,000 psi



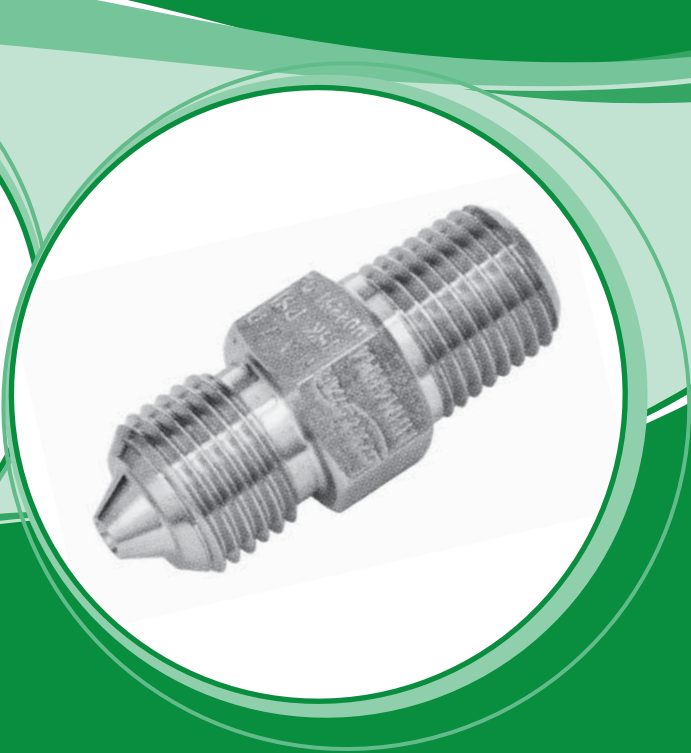
High Pressure Male X Medium Pressure Female			
Part No.		Description	Max Working Pressure
HM4-MF4	20K	1/4" HP Male X 1/4" MP Female	20,000 psi
HM6-MF4	20K	3/8" HP Male X 1/4" MP Female	20,000 psi
HM9-MF4	20K	9/16" HP Male X 1/4" MP Female	20,000 psi
HM4-MF6	20K	1/4" HP Male X 3/8" MP Female	20,000 psi
HM6-MF6	20K	3/8" HP Male X 3/8" MP Female	20,000 psi
HM9-MF6	20K	9/16" HP Male X 3/8" MP Female	20,000 psi
HM4-MF9	20K	1/4" HP Male X 9/16" MP Female	20,000 psi
HM6-MF9	20K	3/8" HP Male X 9/16" MP Female	20,000 psi
HM9-MF9	20K	9/16" HP Male X 9/16" MP Female	20,000 psi



# High Pressure X NPT Adaptors

**SPIR STAR** High Pressure X NPT (National Pipe Taper) adaptors seal with a 60 degree cone High Pressure connection and a tapered thread NPT connection and are rated for working pressures up to 15,000 psi. However, working pressures may be decreased depending upon the NPT thread size.

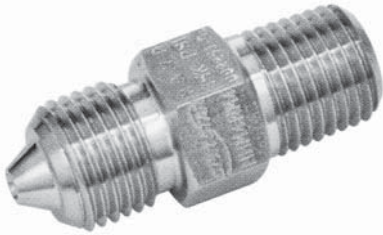
High Pressure X NPT Adaptors



Sizes:	
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
1/8" NPT	0.401"-27 Thread
1/4" NPT	0.533"-18 Thread
3/8" NPT	0.668"-18 Thread
1/2" NPT	0.832"-14 Thread
3/4" NPT	1.043"-14 Thread
1" NPT	1.305"-11-1/2 Thread

# High Pressure X NPT Adaptors

High Pressure X  
NPT Adaptors



## High Pressure Male X NPT Male

Part No.	Description	Max Working Pressure
HM4-NM4 15K	1/4" HP Male X 1/4" NPT Male	15,000 psi
HM4-NM6 15K	1/4" HP Male X 3/8" NPT Male	15,000 psi
HM4-NM8 15K	1/4" HP Male X 1/2" NPT Male	15,000 psi
HM6-NM4 15K	3/8" HP Male X 1/4" NPT Male	15,000 psi
HM6-NM6 15K	3/8" HP Male X 3/8" NPT Male	15,000 psi
HM6-NM8 15K	3/8" HP Male X 1/2" NPT Male	15,000 psi
HM9-NM4 15K	9/16" HP Male X 1/4" NPT Male	15,000 psi
HM9-NM6 15K	9/16" HP Male X 3/8" NPT Male	15,000 psi
HM9-NM8 15K	9/16" HP Male X 1/2" NPT Male	15,000 psi
HM9-NM12 10K	9/16" HP Male X 3/4" NPT Male	10,000 psi
HM9-NM16 10K	9/16" HP Male X 1" NPT Male	10,000 psi



## High Pressure Female X NPT Male

Part No.	Description	Max Working Pressure
HF4-NM4 15K	1/4" HP Female X 1/4" NPT Male	15,000 psi
HF4-NM6 15K	1/4" HP Female X 3/8" NPT Male	15,000 psi
HF4-NM8 15K	1/4" HP Female X 1/2" NPT Male	15,000 psi
HF6-NM4 15K	3/8" HP Female X 1/4" NPT Male	15,000 psi
HF6-NM6 15K	3/8" HP Female X 3/8" NPT Male	15,000 psi
HF6-NM8 15K	3/8" HP Female X 1/2" NPT Male	15,000 psi
HF9-NM6 15K	9/16" HP Female X 3/8" NPT Male	15,000 psi
HF9-NM8 15K	9/16" HP Female X 1/2" NPT Male	15,000 psi
HF9-NM16 10K	9/16" HP Female X 1" NPT Male	10,000 psi



## NPT Female X High Pressure Male

Part No.	Description	Max Working Pressure
NF4-HM4 15K	1/4" NPT Female X 1/4" HP Male	15,000 psi
NF4-HM6 15K	1/4" NPT Female X 3/8" HP Male	15,000 psi
NF4-HM9 15K	1/4" NPT Female X 9/16" HP Male	15,000 psi
NF6-HM4 15K	3/8" NPT Female X 1/4" HP Male	15,000 psi
NF6-HM6 15K	3/8" NPT Female X 3/8" HP Male	15,000 psi
NF8-HM4 15K	1/2" NPT Female X 1/4" HP Male	15,000 psi
NF8-HM6 15K	1/2" NPT Female X 3/8" HP Male	15,000 psi
NF8-HM9 15K	1/2" NPT Female X 9/16" HP Male	15,000 psi



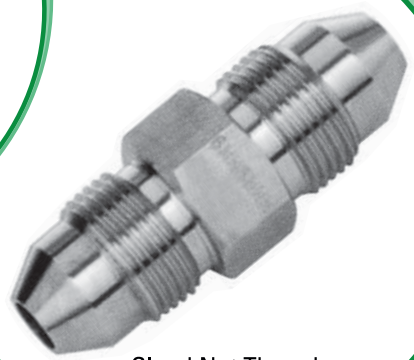
# Medium Pressure Fittings

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

**D**  
Medium Pressure  
Fittings



Tube Nipple



Gland Nut Thread



Collar

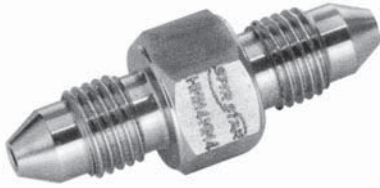
Gland Nut

### Sizes:

Common Description	Actual Thread Dimension
1/4" Medium Pressure	7/16"-20 Thread on Gland Nut
3/8" Medium Pressure	9/16"-18 Thread on Gland Nut
9/16" Medium Pressure	13/16"-16 Thread on Gland Nut
3/4" Medium Pressure	3/4"-14 Thread on Gland Nut
1" Medium Pressure	1-3/8"-12 Thread on Gland Nut

# Medium Pressure Fittings

**D**  
Medium Pressure Fittings



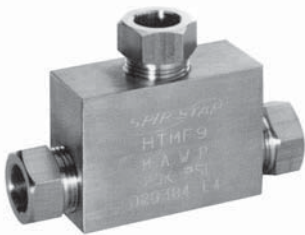
## Medium Pressure Male Hex Nipples

Part No.	Description	Max Working Pressure
MM4-MM4 20K	1/4" MP Male X 1/4" MP Male	20,000 psi
MM6-MM6 20K	3/8" MP Male X 3/8" MP Male	20,000 psi
MM6-MM9 20K	3/8" MP Male X 9/16" MP Male	20,000 psi
MM9-MM9 20K	9/16" MP Male X 9/16" MP Male	20,000 psi
MM9-MM12 20K	9/16" MP Male X 3/4" MP Male	20,000 psi
MM9-MM16 20K	9/16" MP Male X 1" MP Male	20,000 psi
MM12-MM12 20K	3/4" MP Male X 3/4" MP Male	20,000 psi
MM12-MM16 20K	3/4" MP Male X 1" MP Male	20,000 psi



## Medium Pressure Female Elbows

Part No.	Description	Max Working Pressure
EMF4 20K	1/4" MP Female Elbow	20,000 psi
EMF6 20K	3/8" MP Female Elbow	20,000 psi
EMF9 20K	9/16" MP Female Elbow	20,000 psi
EMF12 20K	3/4" MP Female Elbow	20,000 psi
EMF16 20K	1" MP Female Elbow	20,000 psi



## Medium Pressure Female Tees

Part No.	Description	Max Working Pressure
TMF4 20K	1/4" MP Female Tee	20,000 psi
TMF6 20K	3/8" MP Female Tee	20,000 psi
TMF9 20K	9/16" MP Female Tee	20,000 psi
TMF12 20K	3/4" MP Female Tee	20,000 psi
TMF16 20K	1" MP Female Tee	20,000 psi




## Medium Pressure Female Crosses

Part No.	Description	Max Working Pressure
CRMF4 20K	1/4" MP Female Cross	20,000 psi
CRMF6 20K	3/8" MP Female Cross	20,000 psi
CRMF9 20K	9/16" MP Female Cross	20,000 psi
CRMF12 20K	3/4" MP Female Cross	20,000 psi
CRMF16 20K	1" MP Female Cross	20,000 psi




## Medium Pressure Female X Medium Pressure Male


Part No.	Description	Max Working Pressure
MF4-MM6 20K	1/4" MP Female X 3/8" MP Male	20,000 psi
MF4-MM9 20K	1/4" MP Female X 9/16" MP Male	20,000 psi
MF6-MM9 20K	3/8" MP Female X 9/16" MP Male	20,000 psi
MF9-MM6 20K	9/16" MP Female X 3/8" MP Male	20,000 psi
MF9-MM12 20K	9/16" MP Female X 3/4" MP Male	20,000 psi
MF9-MM16 20K	9/16" MP Female X 1" MP Male	20,000 psi


<b>Medium Pressure Slimline Couplers</b>			
Part No.	Description	Max Working Pressure	
CSL-MF4-LL 20K	1/4" MP Female Slimline Coupler Left X Left* 0.374" OD	20,000 psi	
CSL-MF4-LR 20K	1/4" MP Female Slimline Coupler Left X Right* 0.374" OD	20,000 psi	
CSL-MF4-RR 20K	1/4" MP Female Slimline Coupler Right X Right* 0.374" OD	20,000 psi	
CSL-MF6-LL 20K	3/8" MP Female Slimline Coupler Left X Left* 0.499" OD	20,000 psi	
CSL-MF6-LR 20K	3/8" MP Female Slimline Coupler Left X Right* 0.499" OD	20,000 psi	
CSL-MF6-RR 20K	3/8" MP Female Slimline Coupler Right X Right* 0.499" OD	20,000 psi	
CSL-MF9-LL 20K	9/16" MP Female Slimline Coupler Left X Left* 0.687" OD	20,000 psi	
CSL-MF9-LR 20K	9/16" MP Female Slimline Coupler Left X Right* 0.687" OD	20,000 psi	
CSL-MF9-RR 20K	9/16" MP Female Slimline Coupler Right X Right* 0.687" OD	20,000 psi	

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

\* Designates Left Hand Thread or Right Hand Thread.

<b>Medium Pressure Heavy Duty Couplers</b>			
Part No.	Description	Max Working Pressure	
C-MF4 20K	1/4" MP Female Coupler	20,000 psi	
C-MF6 20K	3/8" MP Female Coupler	20,000 psi	
C-MF9 20K	9/16" MP Female Coupler	20,000 psi	
C-MF12 20K	3/4" MP Female Coupler	20,000 psi	
C-MF16 20K	1" MP Female Coupler	20,000 psi	

<b>Medium Pressure Tube Nipples</b>			
Part No.	Description	Max Working Pressure	
MM6-3" 20K	3/8" MP Nipple X 3" Long	20,000 psi	
MM9-3" 20K	9/16" MP Nipple X 3" Long	20,000 psi	
MM9-4" 20K	9/16" MP Nipple X 4" Long	20,000 psi	
MM9-6" 20K	9/16" MP Nipple X 6" Long	20,000 psi	
MM9-8" 20K	9/16" MP Nipple X 8" Long	20,000 psi	

<b>Medium Pressure Plugs</b>			
Part No.	Description	Max Working Pressure	
PLUG-MM4 20K	1/4" MP Plug	20,000 psi	
PLUG-MM6 20K	3/8" MP Plug	20,000 psi	
PLUG-MM9 20K	9/16" MP Plug	20,000 psi	
PLUG-MM12 20K	3/4" MP Plug	20,000 psi	
PLUG-MM16 20K	1" MP Plug	20,000 psi	

# Medium Pressure Fittings

**D**  
Medium Pressure  
Fittings



## Medium Pressure Gland Nuts and Collars

Part No.	Description	Max Working Pressure
GN-1/4" MP 20K	1/4" MP Gland Nut	20,000 psi
GN-3/8" MP 20K	3/8" MP Gland Nut	20,000 psi
GN-9/16" MP 20K	9/16" MP Gland Nut	20,000 psi
GN-3/4" MP 20K	3/4" MP Gland Nut	20,000 psi
GN-1" MP 20K	1" MP Gland Nut	20,000 psi
CLR-1/4" MP 20K	1/4" MP Collar	20,000 psi
CLR-3/8" MP 20K	3/8" MP Collar	20,000 psi
CLR-9/16" MP 20K	9/16" MP Collar	20,000 psi
CLR-3/4" MP 20K	3/4" MP Collar	20,000 psi
CLR-1" MP 20K	1" MP Collar	20,000 psi



## Medium Pressure Caps

Part No.	Description	Max Working Pressure
CAP-MF4 20K	1/4" MP Female Cap	20,000 psi
CAP-MF6 20K	3/8" MP Female Cap	20,000 psi
CAP-MF9 20K	9/16" MP Female Cap	20,000 psi
CAP-MF12 20K	3/4" MP Female Cap	20,000 psi
CAP-MF16 20K	1" MP Female Cap	20,000 psi





# Medium Pressure X NPT Adaptors

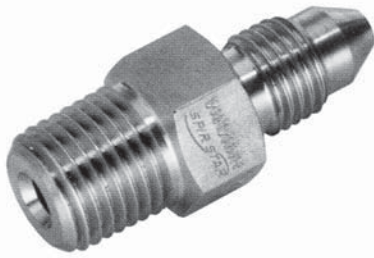
**SPIR STAR** Medium Pressure X NPT (National Pipe Taper) adaptors seal with a 60 degree cone Medium Pressure connection and a tapered thread NPT connection and are rated for working pressures up to 15,000 psi. However, working pressures may be decreased depending upon the NPT thread size.

Medium Pressure X NPT Adaptors



Sizes:	
Common Description	Actual Thread Dimension
1/4" Medium Pressure	7/16"-20 Thread on Gland Nut
3/8" Medium Pressure	9/16"-18 Thread on Gland Nut
9/16" Medium Pressure	13/16"-18 Thread on Gland Nut
3/4" Medium Pressure	3/4"-16 Thread on Gland Nut
1" Medium Pressure	1-1/8"-12 Thread on Gland Nut
1/8" NPT	0.401"-27 Thread
1/4" NPT	0.533"-18 Thread
3/8" NPT	0.668"-18 Thread
1/2" NPT	0.832"-14 Thread
3/4" NPT	1.043"-14 Thread
1" NPT	1.305"-11-1/2 Thread

# Medium Pressure X NPT Adaptors



## Medium Pressure Male X NPT Male

Part No.	Description	Max Working Pressure
MM4-NM4 15K	1/4" MP Male X 1/4" NPT Male	15,000 psi
MM4-NM6 15K	1/4" MP Male X 3/8" NPT Male	15,000 psi
MM6-NM4 15K	3/8" MP Male X 1/4" NPT Male	15,000 psi
MM6-NM6 15K	3/8" MP Male X 3/8" NPT Male	15,000 psi
MM6-NM8 15K	3/8" MP Male X 1/2" NPT Male	15,000 psi
MM9-NM4 15K	9/16" MP Male X 1/4" NPT Male	15,000 psi
MM9-NM6 15K	9/16" MP Male X 3/8" NPT Male	15,000 psi
MM9-NM8 15K	9/16" MP Male X 1/2" NPT Male	15,000 psi
MM9-NM16 10K	9/16" MP Male X 1" NPT Male	10,000 psi

E  
Medium Pressure X  
NPT Adaptors



## Medium Pressure Female X NPT Male

Part No.	Description	Max Working Pressure
MF6-NM4 15K	3/8" MP Female X 1/4" NPT Male	15,000 psi
MF6-NM6 15K	3/8" MP Female X 3/8" NPT Male	15,000 psi
MF6-NM8 15K	3/8" MP Female X 1/2" NPT Male	15,000 psi
MF9-NM4 15K	9/16" MP Female X 1/4" NPT Male	15,000 psi
MF9-NM6 15K	9/16" MP Female X 3/8" NPT Male	15,000 psi
MF9-NM8 15K	9/16" MP Female X 1/2" NPT Male	15,000 psi
MF9-NM16 10K	9/16" MP Female X 1" NPT Male	10,000 psi

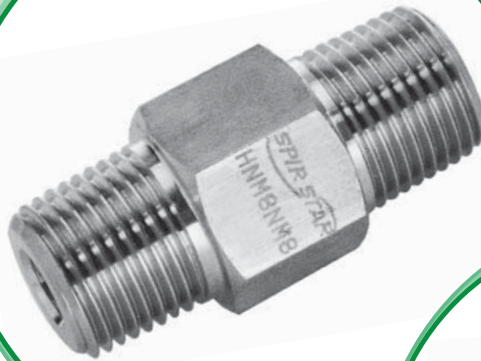


## Medium Pressure Male X NPT Female

Part No.	Description	Max Working Pressure
MM9-NF2 15K	9/16" MP Male X 1/8" NPT Female	15,000 psi
MM4-NF4 15K	1/4" MP Male X 1/4" NPT Female	15,000 psi
MM6-NF4 15K	3/8" MP Male X 1/4" NPT Female	15,000 psi
MM9-NF4 15K	9/16" MP Male X 1/4" NPT Female	15,000 psi
MM9-NF6 15K	9/16" MP Male X 3/8" NPT Female	15,000 psi
MM9-NF8 15K	9/16" MP Male X 1/2" NPT Female	15,000 psi
MM12-NF8 15K	3/4" MP Male X 1/2" NPT Female	15,000 psi
MM16-NF8 15K	1" MP Male X 1/2" NPT Female	15,000 psi
MM16-NF12 10K	1" MP Male X 3/4" NPT Female	10,000 psi
MM16-NF16 10K	1" MP Male X 1" NPT Female	10,000 psi

## NPT Fittings

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



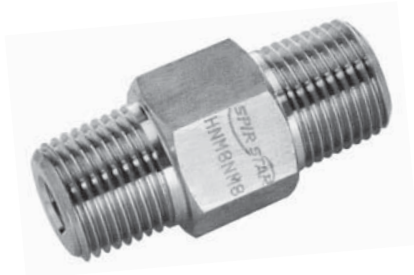
### Sizes:

Common Description	Actual Thread Dimension
1/8" NPT	0.401"-27 Thread
1/4" NPT	0.533"-18 Thread
3/8" NPT	0.668"-18 Thread
1/2" NPT	0.832"-14 Thread
3/4" NPT	1.043"-14 Thread
1" NPT	1.305"-11-1/2 Thread

# NPT Fittings

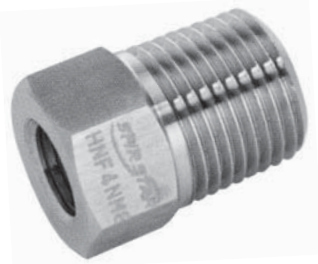
**F**  
NPT Fittings

## NPT Male X NPT Male Nipples



Part No.	Description	Max Working Pressure
NM2-NM2 15K	1/8" NPT Male X 1/8" NPT Male	15,000 psi
NM2-NM4 15K	1/8" NPT Male X 1/4" NPT Male	15,000 psi
NM2-NM6 15K	1/8" NPT Male X 3/8" NPT Male	15,000 psi
NM2-NM8 15K	1/8" NPT Male X 1/2" NPT Male	15,000 psi
NM4-NM4 15K	1/4" NPT Male X 1/4" NPT Male	15,000 psi
NM4-NM6 15K	1/4" NPT Male X 3/8" NPT Male	15,000 psi
NM4-NM8 15K	1/4" NPT Male X 1/2" NPT Male	15,000 psi
NM4-NM12 10K	1/4" NPT Male X 3/4" NPT Male	10,000 psi
NM6-NM6 15K	3/8" NPT Male X 3/8" NPT Male	15,000 psi
NM6-NM8 15K	3/8" NPT Male X 1/2" NPT Male	15,000 psi
NM6-NM12 10K	3/8" NPT Male X 3/4" NPT Male	10,000 psi
NM6-NM16 10K	3/8" NPT Male X 1" NPT Male	10,000 psi
NM8-NM8 15K	1/2" NPT Male X 1/2" NPT Male	15,000 psi
NM8-NM12 10K	1/2" NPT Male X 3/4" NPT Male	10,000 psi
NM8-NM16 10K	1/2" NPT Male X 1" NPT Male	10,000 psi
NM12-NM12 10K	3/4" NPT Male X 3/4" NPT Male	10,000 psi
NM12-NM16 10K	3/4" NPT Male X 1" NPT Male	10,000 psi
NM16-NM16 10K	1" NPT Male X 1" NPT Male	10,000 psi

## NPT Male X NPT Female Bushings



Part No.	Description	Max Working Pressure
NF2-NM2 15K	1/8" NPT Female X 1/8" NPT Male	15,000 psi
NF2-NM4 15K	1/8" NPT Female X 1/4" NPT Male	15,000 psi
NF2-NM6 15K	1/8" NPT Female X 3/8" NPT Male	15,000 psi
NF2-NM8 15K	1/8" NPT Female X 1/2" NPT Male	15,000 psi
NF4-NM2 15K	1/4" NPT Female X 1/8" NPT Male	15,000 psi
NF4-NM4 15K	1/4" NPT Female X 1/4" NPT Male	15,000 psi
NF4-NM6 15K	1/4" NPT Female X 3/8" NPT Male	15,000 psi
NF4-NM8 15K	1/4" NPT Female X 1/2" NPT Male	15,000 psi
NF4-NM12 10K	1/4" NPT Female X 3/4" NPT Male	10,000 psi
NF4-NM16 10K	1/4" NPT Female X 1" NPT Male	10,000 psi
NF6-NM2 15K	3/8" NPT Female X 1/8" NPT Male	15,000 psi
NF6-NM4 15K	3/8" NPT Female X 1/4" NPT Male	15,000 psi
NF6-NM6 15K	3/8" NPT Female X 1/8" NPT Male	15,000 psi
NF6-NM8 15K	3/8" NPT Female X 1/2" NPT Male	15,000 psi
NF6-NM12 10K	3/8" NPT Female X 3/4" NPT Male	10,000 psi
NF6-NM16 10K	3/8" NPT Female X 1" NPT Male	10,000 psi
NF8-NM2 15K	1/2" NPT Female X 1/8" NPT Male	15,000 psi
NF8-NM4 15K	1/2" NPT Female X 1/4" NPT Male	15,000 psi
NF8-NM6 15K	1/2" NPT Female X 3/8" NPT Male	15,000 psi
NF8-NM8 15K	1/2" NPT Female X 1/2" NPT Male	15,000 psi
NF8-NM12 10K	1/2" NPT Female X 3/4" NPT Male	10,000 psi
NF8-NM16 10K	1/2" NPT Female X 1" NPT Male	10,000 psi
NF12-NM4 10K	3/4" NPT Female X 1/4" NPT Male	10,000 psi
NF12-NM6 10K	3/4" NPT Female X 3/8" NPT Male	10,000 psi
NF12-NM8 10K	3/4" NPT Female X 1/2" NPT Male	10,000 psi



**NPT Male X NPT Female Bushings** (Cont'd from page 16)

Part No.	Description	Max Working Pressure
NF12-NM12 10K	3/4" NPT Female X 3/4" NPT Male	10,000 psi
NF12-NM16 10K	3/4" NPT Female X 1" NPT Male	10,000 psi
NF16-NM4 10K	1" NPT Female X 1/4" NPT Male	10,000 psi
NF16-NM6 10K	1" NPT Female X 3/8" NPT Male	10,000 psi
NF16-NM8 10K	1" NPT Female X 1/2" NPT Male	10,000 psi
NF16-NM12 10K	1" NPT Female X 3/4" NPT Male	10,000 psi
NF16-NM16 10K	1" NPT Female X 1" NPT Male	10,000 psi
NF1-NM2 15K	1/16" NPT Female X 1/8" NPT Male	15,000 psi
NF1-NM4 15K	1/16" NPT Female X 1/4" NPT Male	15,000 psi
NF1-NM6 15K	1/16" NPT Female X 3/8" NPT Male	15,000 psi
NF1-NM8 15K	1/16" NPT Female X 1/2" NPT Male	15,000 psi



**NPT Female Elbows**

Part No.	Description	Max Working Pressure
ENF4 15K	1/4" NPT Female Elbow	15,000 psi
ENF6 15K	3/8" NPT Female Elbow	15,000 psi
ENF8 15K	1/2" NPT Female Elbow	15,000 psi



**NPT Street Elbows**

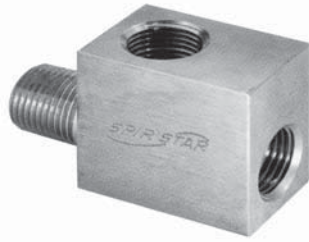
Part No.	Description	Max Working Pressure
SENF4 15K	1/4" NPT Male X 1/4" NPT Street Female Elbow	15,000 psi
SENF6 15K	3/8" NPT Male X 3/8" NPT Street Female Elbow	15,000 psi
SENF8 15K	1/2" NPT Male X 1/2" NPT Street Female Elbow	15,000 psi



**NPT Female Tees**

Part No.	Description	Max Working Pressure
TNF4 15K	1/4" NPT Female Tee	15,000 psi
TNF6 15K	3/8" NPT Female Tee	15,000 psi
TNF8 15K	1/2" NPT Female Tee	15,000 psi

# NPT Fittings



## NPT Street Tees

Part No.	Description	Max Working Pressure
STNF4 15K	1/4" NPT Male X NPT Female Street Tee	15,000 psi
STNF6 15K	3/8" NPT Male X NPT Female Street Tee	15,000 psi
STNF8 15K	1/2" NPT Male X NPT Female Street Tee	15,000 psi



## NPT Female Crosses

Part No.	Description	Max Working Pressure
CRNF4 15K	1/4" NPT Female Cross	15,000 psi
CRNF6 15K	3/8" NPT Female Cross	15,000 psi
CRNF8 15K	1/2" NPT Female Cross	15,000 psi
CRNF12 10K	3/4" NPT Female Cross	10,000 psi
CRNF16 10K	1" NPT Female Cross	10,000 psi



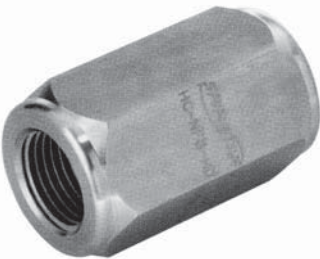
## NPT Slimline Couplers

Part No.	Description	Max Working Pressure
CSL-NF1 10K	1/16" NPT Female Slimline Coupler 0.375" OD	10,000 psi
CSL-NF2-NF1 10K	1/8" NPT Female X 1/16" NPT Female Slimline Coupler 0.480" OD	10,000 psi
CSL-NF2 10K	1/8" NPT Female Slimline Coupler 0.480" OD	10,000 psi
CSL-NF4 10K	1/4" NPT Female Slimline Coupler 0.690" OD	10,000 psi
CSL-NF6 10K	3/8" NPT Female Slimline Coupler 0.875" OD	10,000 psi
CSL-NF8 10K	1/2" NPT Female Slimline Coupler 1.130" OD	10,000 psi



## NPT Pipe Nipples

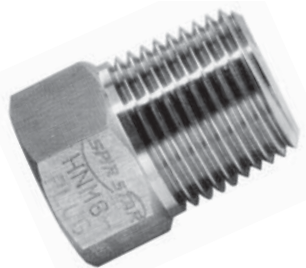
Part No.	Description	Max Working Pressure
NM4-2" 15K	1/4" NPT Male Nipple X 2" Long	15,000 psi
NM4-3" 15K	1/4" NPT Male Nipple X 3" Long	15,000 psi
NM4-4" 15K	1/4" NPT Male Nipple X 4" Long	15,000 psi
NM4-6" 15K	1/4" NPT Male Nipple X 6" Long	15,000 psi
NM6-2" 15K	3/8" NPT Male Nipple X 2" Long	15,000 psi
NM6-3" 15K	3/8" NPT Male Nipple X 3" Long	15,000 psi
NM6-4" 15K	3/8" NPT Male Nipple X 4" Long	15,000 psi
NM6-6" 15K	3/8" NPT Male Nipple X 6" Long	15,000 psi
NM8-2" 15K	1/2" NPT Male Nipple X 2" Long	15,000 psi
NM8-3" 15K	1/2" NPT Male Nipple X 3" Long	15,000 psi
NM8-4" 15K	1/2" NPT Male Nipple X 4" Long	15,000 psi
NM8-6" 15K	1/2" NPT Male Nipple X 6" Long	15,000 psi
NM12-4" 15K	3/4" NPT Male Nipple X 4" Long	10,000 psi
NM12-6" 15K	3/4" NPT Male Nipple X 6" Long	10,000 psi
NM16-4" 15K	1" NPT Male Nipple X 4" Long	10,000 psi
NM16-6" 15K	1" NPT Male Nipple X 6" Long	10,000 psi



**NPT Female X NPT Female Couplings**

Part No.	Description	Max Working Pressure
C-NF2 10K	1/8" NPT X 1/8" NPT Female Coupler	10,000 psi
C-NF2-NF4 10K	1/8" NPT X 1/4" NPT Female Coupler	10,000 psi
C-NF2-NF6 10K	1/8" NPT X 3/8" NPT Female Coupler	10,000 psi
C-NF2-NF8 10K	1/8" NPT X 1/2" NPT Female Coupler	10,000 psi
C-NF4 10K	1/4" NPT X 1/4" NPT Female Coupler	10,000 psi
C-NF4-NF6 10K	1/4" NPT X 3/8" NPT Female Coupler	10,000 psi
C-NF4-NF8 10K	1/4" NPT X 1/2" NPT Female Coupler	10,000 psi
C-NF4-NF12 10K	1/4" NPT X 3/4" NPT Female Coupler	10,000 psi
C-NF4-NF16 10K	1/4" NPT X 1" NPT Female Coupler	10,000 psi
C-NF6 10K	3/8" NPT X 3/8" NPT Female Coupler	10,000 psi
C-NF6-NF8 10K	3/8" NPT X 1/2" NPT Female Coupler	10,000 psi
C-NF6-NF12 10K	3/8" NPT X 3/4" NPT Female Coupler	10,000 psi
C-NF6-NF16 10K	3/8" NPT X 1" NPT Female Coupler	10,000 psi
C-NF8 10K	1/2" NPT X 1/2" NPT Female Coupler	10,000 psi
C-NF8-NF12 10K	1/2" NPT X 3/4" NPT Female Coupler	10,000 psi
C-NF8-NF16 10K	1/2" NPT X 1" NPT Female Coupler	10,000 psi
C-NF12 10K	3/4" NPT X 3/4" NPT Female Coupler	10,000 psi
C-NF12-NF1 10K	3/4" NPT X 1" NPT Female Coupler	10,000 psi
C-NF16 10K	1" NPT X 1" NPT Female Coupler	10,000 psi
C-NF4 15K	1/4" NPT Female Coupler	15,000 psi
C-NF6 15K	3/8" NPT Female Coupler	15,000 psi
C-NF6-NF4 15K	3/8" NPT Female X 1/4" NPT Female Coupler	15,000 psi
C-NF8 15K	1/2" NPT Female Coupler	15,000 psi
C-NF8-NF4 15K	1/2" NPT Female X 1/4" NPT Female Coupler	15,000 psi
C-NF8-NF6 15K	1/2" NPT Female X 3/8" NPT Female Coupler	15,000 psi
C-NF4 HD 15K	1/4" NPT Female Coupler	15,000 psi
C-NF6 HD 15K	3/8" NPT Female Coupler	15,000 psi
C-NF6-NF4 HD 15K	3/8" NPT Female X 1/4" NPT Female Coupler	15,000 psi
C-NF8 HD 15K	1/2" NPT Female Coupler	15,000 psi
C-NF8-NF4 HD 15K	1/2" NPT Female X 1/4" NPT Female Coupler	15,000 psi
C-NF8-NF6 HD 15K	1/2" NPT Female X 3/8" NPT Female Coupler	15,000 psi
C-NF12 HD 10K	3/4" NPT Female Coupler	10,000 psi
C-NF12-NF8 HD 10K	3/4" NPT Female X 1/2" NPT Female Coupler	10,000 psi
C-NF16 HD 10K	1" NPT Female Coupler	10,000 psi
C-NF16-NF12 HD 10K	1" NPT Female X 3/4" NPT Female Coupler	10,000 psi

**F**  
NPT Fittings



**NPT Plugs**

Part No.	Description	Max Working Pressure
PLUG-NM4 15K	1/4" NPT Male Plug	15,000 psi
PLUG-NM6 15K	3/8" NPT Male Plug	15,000 psi
PLUG-NM8 15K	1/2" NPT Male Plug	15,000 psi
PLUG-NM12 10K	3/4" NPT Male Plug	10,000 psi
PLUG-NM16 10K	1" NPT Male Plug	10,000 psi

# NPT Fittings



## NPT Female Caps

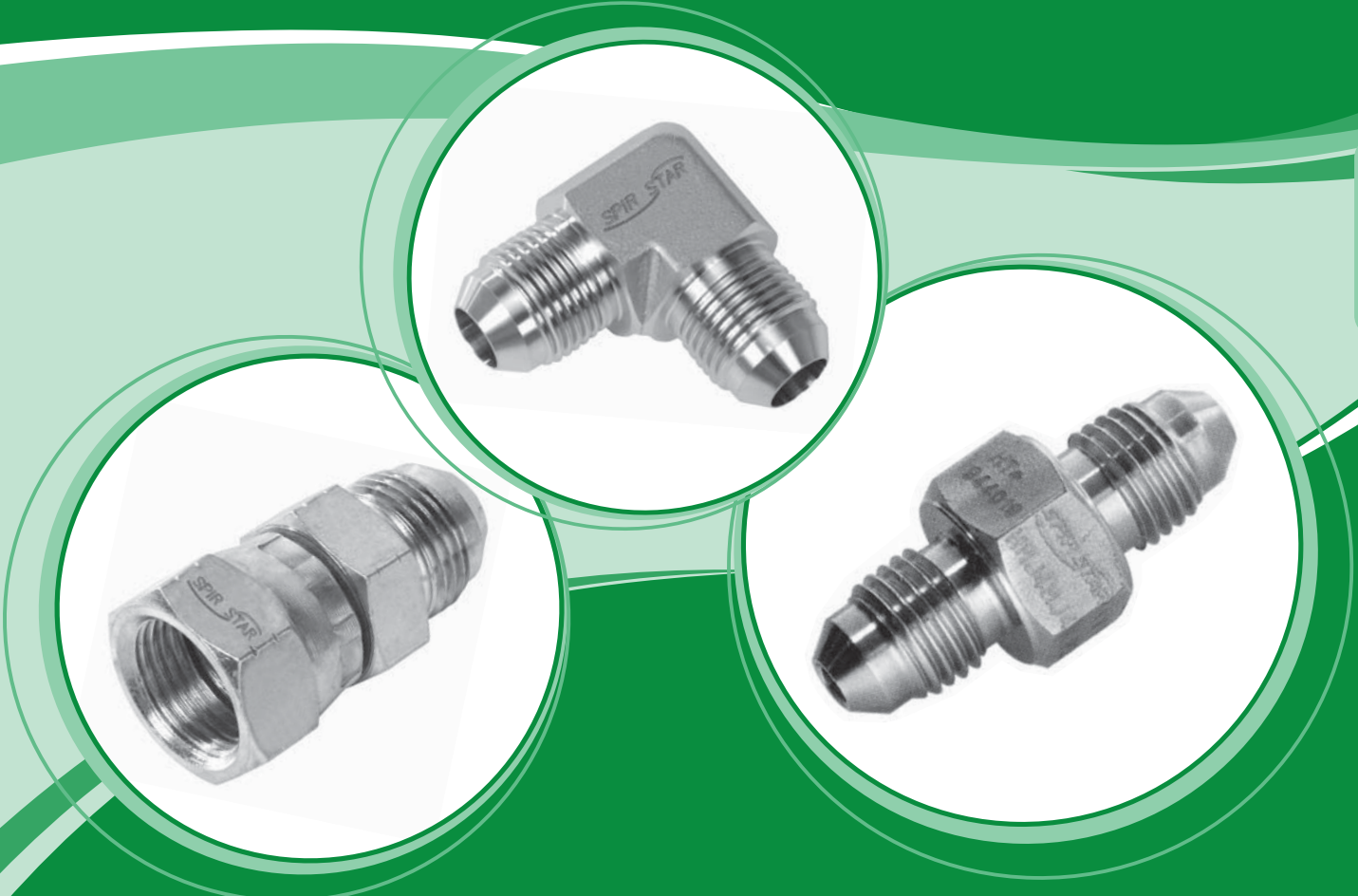
Part No.	Description	Max Working Pressure
CAP-NF2 15K	1/8" NPT Female Cap	15,000 psi
CAP-NF4 15K	1/4" NPT Female Cap	15,000 psi
CAP-NF6 15K	3/8" NPT Female Cap	15,000 psi
CAP-NF8 15K	1/2" NPT Female Cap	15,000 psi
CAP-NF12 10K	3/4" NPT Female Cap	10,000 psi
CAP-NF16 10K	1" NPT Female Cap	10,000 psi





# JIC Adaptors

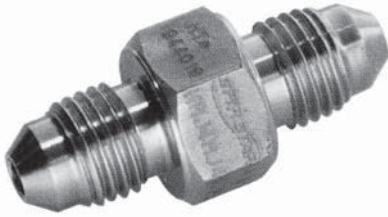
**SPIR STAR** JIC adaptors seal with a 37 degree cone and are rated for working pressures up to 10,000 psi.



JIC Adaptors

Sizes:	
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

# JIC Adaptors



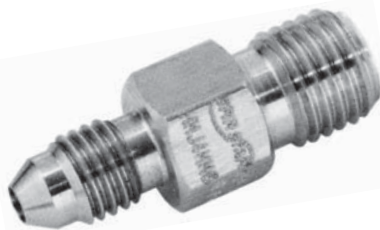
## JIC Male X JIC Male

Part No.	Description	Max Working Pressure
MJ4-MJ4 10K	1/4" JIC Male X 1/4" JIC Male	10,000 psi
MJ4-MJ6 10K	1/4" JIC Male X 3/8" JIC Male	10,000 psi
MJ4-MJ8 10K	1/4" JIC Male X 1/2" JIC Male	10,000 psi
MJ6-MJ6 10K	3/8" JIG Male X 3/8" JIC Male	10,000 psi
MJ6-MJ8 10K	3/8" JIC Male X 1/2" JIC Male	10,000 psi
MJ8-MJ8 10K	1/2" JIC Male X 1/2" JIC Male	10,000 psi
MJ16-MJ16 10K	1" JIC Male X 1" JIC Male	10,000 psi



## JIC Male X Male 90° Elbow

Part No.	Description	Max Working Pressure
EMJ4 10K	1/4" JIC Male X 1/4" JIC Male Elbow	10,000 psi
EMJ6 10K	3/8" JIC Male X 3/8" JIC Male Elbow	10,000 psi
EMJ8 10K	1/2" JIC Male X 1/2" JIC Male Elbow	10,000 psi



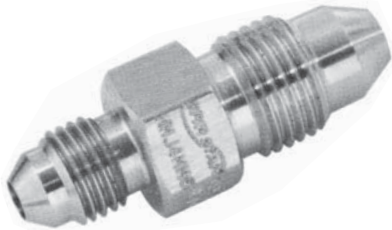
## JIC Male X NPT Male

Part No.	Description	Max Working Pressure
MJ4-NM4 10K	1/4" JIC Male X 1/4" NPT Male	10,000 psi
MJ4-NM6 10K	1/4" JIC Male X 3/8" NPT Male	10,000 psi
MJ4-NM8 10K	1/4" JIC Male X 1/2" NPT Male	10,000 psi
MJ6-NM4 10K	3/8" JIC Male X 1/4" NPT Male	10,000 psi
MJ6-NM6 10K	3/8" JIC Male X 3/8" NPT Male	10,000 psi
MJ6-NM8 10K	3/8" JIC Male X 1/2" NPT Male	10,000 psi
MJ8-NM4 10K	1/2" JIC Male X 1/4" NPT Male	10,000 psi
MJ8-NM6 10K	1/2" JIC Male X 3/8" NPT Male	10,000 psi
MJ8-NM8 10K	1/2" JIC Male X 1/2" NPT Male	10,000 psi
MJ8-NM12 10K	1/2" JIC Male X 3/4" NPT Male	10,000 psi
MJ8-NM16 10K	1/2" JIC Male X 1" NPT Male	10,000 psi
MJ16-NM16 10K	1" JIC Male X 1" NPT Male	10,000 psi



## JIC Male X NPT Male 90° Elbow

Part No.	Description	Max Working Pressure
JN4-2ME 10K	1/4" JIC Male X 1/8" NPT Male Elbow	10,000 psi
JN4-4ME 10K	1/4" JIC Male X 1/4" NPT Male Elbow	10,000 psi
JN4-6ME 10K	1/4" JIC Male X 3/8" NPT Male Elbow	10,000 psi
JN6-6ME 10K	3/8" JIC Male X 3/8" NPT Male Elbow	10,000 psi
JN6-8ME 10K	3/8" JIC Male X 1/2" NPT Male Elbow	10,000 psi
JN8-6ME 10K	1/2" JIC Male X 3/8" NPT Male Elbow	10,000 psi
JN8-8ME 10K	1/2" JIC Male X 1/2" NPT Male Elbow	10,000 psi



**JIC Male X Medium Pressure Male**

Part No.	Description	Max Working Pressure
MJ4-MM4 10K	1/4" JIC Male X 1/4" MP Male	10,000 psi
MJ4-MM6 10K	1/4" JIC Male X 3/8" MP Male	10,000 psi
MJ4-MM9 10K	1/4" JIC Male X 9/16" MP Male	10,000 psi
MJ6-MM4 10K	3/8" JIC Male X 1/4" MP Male	10,000 psi
MJ6-MM6 10K	3/8" JIC Male X 3/8" MP Male	10,000 psi
MJ6-MM9 10K	3/8" JIC Male X 9/16" MP Male	10,000 psi
MJ6-MM12 10K	3/8" JIC Male X 3/4" MP Male	10,000 psi
MJ8-MM4 10K	1/2" JIC Male X 1/4" MP Male	10,000 psi
MJ8-MM6 10K	1/2" JIC Male X 3/8" MP Male	10,000 psi
MJ8-MM9 10K	1/2" JIC Male X 9/16" MP Male	10,000 psi
MJ8-MM12 10K	1/2" JIC Male X 3/4" MP Male	10,000 psi
MJ8-MM16 10K	1/2" JIC Male X 1" MP Male	10,000 psi
MJ16-MM12 10K	1" JIC Male X 3/4" MP Male	10,000 psi
MJ16-MM16 10K	1" JIC Male X 1" MP Male	10,000 psi



**JIC Male X High Pressure Male**

Part No.	Description	Max Working Pressure
MJ4-HM4 10K	1/4" JIC Male X 1/4" HP Male	10,000 psi
MJ4-HM6 10K	1/4" JIC Male X 3/8" HP Male	10,000 psi
MJ4-HM9 10K	1/4" JIC Male X 9/16" HP Male	10,000 psi
MJ6-HM4 10K	3/8" JIC Male X 1/4" HP Male	10,000 psi
MJ6-HM6 10K	3/8" JIC Male X 3/8" HP Male	10,000 psi
MJ6-HM9 10K	3/8" JIC Male X 9/16" HP Male	10,000 psi
MJ8-HM4 10K	1/2" JIC Male X 1/4" HP Male	10,000 psi
MJ8-HM6 10K	1/2" JIC Male X 3/8" HP Male	10,000 psi
MJ8-HM9 10K	1/2" JIC Male X 9/16" HP Male	10,000 psi



**JIC Male X NPT Female**

Part No.	Description	Max Working Pressure
MJ4-NF4 10K	1/4" JIC Male X 1/4" NPT Female	10,000 psi
MJ4-NF6 10K	1/4" JIC Male X 3/8" NPT Female	10,000 psi
MJ6-NF4 10K	3/8" JIC Male X 1/4" NPT Female	10,000 psi
MJ6-NF6 10K	3/8" JIC Male X 3/8" NPT Female	10,000 psi
MJ9-NF4 10K	9/16" JIC Male X 1/4" NPT Female	10,000 psi
MJ9-NF6 10K	9/16" JIC Male X 3/8" NPT Female	10,000 psi

# JIC Adaptors



## JIC 37° Female Swivel X Female Swivel Adaptors

Part No.	Description	Max Working Pressure
SFJ4-FJ4 10K	1/4" JIC Female Swivel X 1/4" JIC Female Swivel	10,000 psi
SFJ5-FJ5 10K	5/16" JIC Female Swivel X 5/16" JIC Female Swivel	10,000 psi
SFJ6-FJ4 10K	3/8" JIC Female Swivel X 1/4" JIC Female Swivel	10,000 psi
SFJ6-FJ6 10K	3/8" JIC Female Swivel X 3/8" JIC Female Swivel	10,000 psi
SFJ8-FJ4 10K	1/2" JIC Female Swivel X 1/4" JIC Female Swivel	10,000 psi
SFJ8-FJ6 10K	1/2" JIC Female Swivel X 3/8" JIC Female Swivel	10,000 psi
SFJ8-FJ8 10K	1/2" JIC Female Swivel X 1/2" JIC Female Swivel	10,000 psi
SFJ10-FJ10 10K	5/8" JIC Female Swivel X 5/8" JIC Female Swivel	10,000 psi
SFJ12-FJ12 10K	3/4" JIC Female Swivel X 3/4" JIC Female Swivel	10,000 psi
SFJ16-FJ16 10K	1" JIC Female Swivel X 1" JIC Female Swivel	10,000 psi



## JIC 37° Female Swivel X Male JIC Adaptors

Part No.	Description	Max Working Pressure
SFJ4-MJ4 10K	1/4" JIC Female Swivel X 1/4" JIC Male	10,000 psi
SFJ4-MJ6 10K	1/4" JIC Female Swivel X 3/8" JIC Male	10,000 psi
SFJ4-MJ8 10K	1/4" JIC Female Swivel X 1/2" JIC Male	10,000 psi
SFJ5-MJ4 10K	5/16" JIC Female Swivel X 1/4" JIC Male	10,000 psi
SFJ6-MJ4 10K	3/8" JIC Female Swivel X 1/4" JIC Male	10,000 psi
SFJ6-MJ6 10K	3/8" JIC Female Swivel X 3/8" JIC Male	10,000 psi
SFJ6-MJ8 10K	3/8" JIC Female Swivel X 1/2" JIC Male	10,000 psi
SFJ8-MJ4 10K	1/2" JIC Female Swivel X 1/4" JIC Male	10,000 psi
SFJ8-MJ6 10K	1/2" JIC Female Swivel X 3/8" JIC Male	10,000 psi
SFJ8-MJ8 10K	1/2" JIC Female Swivel X 1/2" JIC Male	10,000 psi
SFJ8-MJ12 10K	1/2" JIC Female Swivel X 3/4" JIC Male	10,000 psi
SFJ12-MJ8 10K	3/4" JIC Female Swivel X 1/2" JIC Male	10,000 psi
SFJ12-MJ12 10K	3/4" JIC Female Swivel X 3/4" JIC Male	10,000 psi
SFJ12-MJ16 10K	3/4" JIC Female Swivel X 1" JIC Male	10,000 psi
SFJ16-MJ16 10K	1" JIC Female Swivel X 1" JIC Male	10,000 psi



## JIC 37° Female Swivel X Male NPT Adaptors

Part No.	Description	Max Working Pressure
SFJ4-MN4 10K	1/4" JIC Female Swivel X 1/4" NPT Male	10,000 psi
SFJ4-MN6 10K	1/4" JIC Female Swivel X 3/8" NPT Male	10,000 psi
SFJ4-MN8 10K	1/4" JIC Female Swivel X 1/2" NPT Male	10,000 psi
SFJ5-MN4 10K	5/16" JIC Female Swivel X 1/4" NPT Male	10,000 psi
SFJ6-MN4 10K	3/8" JIC Female Swivel X 1/4" NPT Male	10,000 psi
SFJ6-MN6 10K	3/8" JIC Female Swivel X 3/8" NPT Male	10,000 psi
SFJ6-MN8 10K	3/8" JIC Female Swivel X 1/2" NPT Male	10,000 psi
SFJ8-MN8 10K	1/2" JIC Female Swivel X 1/2" NPT Male	10,000 psi



**JIC 37° Female Swivel X Female NPT Adaptors**

Part No.	Description	Max Working Pressure
SFJ4-FN4 10K	1/4" JIC Female Swivel X 1/4" NPT Female	10,000 psi
SFJ4-FN6 10K	1/4" JIC Female Swivel X 3/8" NPT Female	10,000 psi
SFJ4-FN8 10K	1/4" JIC Female Swivel X 1/2" NPT Female	10,000 psi
SFJ6-FN4 10K	3/8" JIC Female Swivel X 1/4" NPT Female	10,000 psi
SFJ6-FN6 10K	3/8" JIC Female Swivel X 3/8" NPT Female	10,000 psi
SFJ6-FN8 10K	3/8" JIC Female Swivel X 1/2" NPT Female	10,000 psi
SFJ8-FN8 10K	1/2" JIC Female Swivel X 1/2" NPT Female	10,000 psi



**JIC Female Swivel X JIC Female Elbow 90°**

Part No.	Description	Max Working Pressure
ESFJ4-FJ4 10K	1/4" JIC Female Swivel X 1/4" JIC Female Swivel Elbow 90°	10,000 psi
ESFJ6-FJ6 10K	3/8" JIC Female Swivel X 3/8" JIC Female Swivel Elbow 90°	10,000 psi
ESFJ8-FJ8 10K	1/2" JIC Female Swivel X 1/2" JIC Female Swivel Elbow 90°	10,000 psi
ESFJ10-FJ10 10K	5/8" JIC Female Swivel X 5/8" JIC Female Swivel Elbow 90°	10,000 psi
ESFJ12-FJ12 10K	3/4" JIC Female Swivel X 3/4" JIC Female Swivel Elbow 90°	10,000 psi
ESFJ16-FJ16 10K	1" JIC Female Swivel X 1" JIC Female Swivel Elbow 90°	10,000 psi



**JIC Female Swivel X JIC Male Elbow 90°**

Part No.	Description	Max Working Pressure
ESFJ4-MJ4 10K	1/4" JIC Female Swivel X 1/4" JIC Male Elbow 90°	10,000 psi
ESFJ6-MJ6 10K	3/8" JIC Female Swivel X 3/8" JIC Male Elbow 90°	10,000 psi
ESFJ8-MJ8 10K	1/2" JIC Female Swivel X 1/2" JIC Male Elbow 90°	10,000 psi
ESFJ12-MJ12 10K	3/4" JIC Female Swivel X 3/4" JIC Male Elbow 90°	10,000 psi
ESFJ16-MJ16 10K	1" JIC Female Swivel X 1" JIC Male Elbow 90°	10,000 psi



**JIC 37° Female Swivel X Male NPT Elbow 90°**

Part No.	Description	Max Working Pressure
ESFJ4-MN4 10K	1/4" JIC Female Swivel X 1/4" NPT Male Elbow 90°	10,000 psi
ESFJ6-MN6 10K	3/8" JIC Female Swivel X 3/8" NPT Male Elbow 90°	10,000 psi
ESFJ8-MN8 10K	1/2" JIC Female Swivel X 1/2" NPT Male Elbow 90°	10,000 psi

# JIC Adaptors



## JIC 37° Female Swivel X Female NPT Elbow Adaptors

Part No.	Description	Max Working Pressure
ESFJ4-FN4 10K	1/4" JIC Female Swivel X 1/4" NPT Female Elbow 90°	10,000 psi
ESFJ6-FN6 10K	3/8" JIC Female Swivel X 3/8" NPT Female Elbow 90°	10,000 psi
ESFJ8-FN8 10K	1/2" JIC Female Swivel X 1/2" NPT Female Elbow 90°	10,000 psi



## SAE O-Ring Male X Male JIC 37° Adaptors

Part No.	Description	Max Working Pressure
S04-MJ4 10K	1/4" SAE O-Ring Male X 1/4" JIC Male	10,000 psi
S04-MJ6 10K	1/4" SAE O-Ring Male X 3/8" JIC Male	10,000 psi
S06-MJ4 10K	3/8" SAE O-Ring Male X 1/4" JIC Male	10,000 psi
S06-MJ6 10K	3/8" SAE O-Ring Male X 3/8" JIC Male	10,000 psi
S08-MJ8 10K	1/2" SAE O-Ring Male X 1/2" JIC Male	10,000 psi



## SAE O-Ring Male X Female NPT Adaptors

Part No.	Description	Max Working Pressure
S04-FN4 10K	1/4" SAE O-Ring Male X 1/4" Female NPT	10,000 psi
S04-FN6 10K	1/4" SAE O-Ring Male X 3/8" Female NPT	10,000 psi
S06-FN4 10K	3/8" SAE O-Ring Male X 1/4" Female NPT	10,000 psi
S06-FN6 10K	3/8" SAE O-Ring Male X 3/8" Female NPT	10,000 psi
S08-FN8 10K	1/2" SAE O-Ring Male X 1/2" Female NPT	10,000 psi



## SAE O-Ring Male X Male NPT Adaptors

Part No.	Description	Max Working Pressure
S04-MN4 10K	1/4" SAE O-Ring Male X 1/4" Male NPT	10,000 psi
S04-MN6 10K	1/4" SAE O-Ring Male X 3/8" Male NPT	10,000 psi
S06-MN4 10K	3/8" SAE O-Ring Male X 1/4" Male NPT	10,000 psi
S06-MN6 10K	3/8" SAE O-Ring Male X 3/8" Male NPT	10,000 psi
S08-MN8 10K	1/2" SAE O-Ring Male X 1/2" Male NPT	10,000 psi



**SAE O-Ring Male X Male BSPP 60° Cone Adaptors**

Part No.	Description	Max Working Pressure
S04-MB4 10K	1/4" SAE O-Ring Male X 1/4" Male BSPP	10,000 psi
S04-MB6 10K	1/4" SAE O-Ring Male X 3/8" Male BSPP	10,000 psi
S06-MB4 10K	3/8" SAE O-Ring Male X 1/4" Male BSPP	10,000 psi
S06-MB6 10K	3/8" SAE O-Ring Male X 3/8" Male BSPP	10,000 psi
S06-MB8 10K	3/8" SAE O-Ring Male X 1/2" Male BSPP	10,000 psi
S08-MB6 10K	1/2" SAE O-Ring Male X 3/8" Male BSPP	10,000 psi
S08-MB8 10K	1/2" SAE O-Ring Male X 1/2" Male BSPP	10,000 psi



**JIC Female Caps**

Part No.	Description	Max Working Pressure
CAP-FJ4 10K	1/4" JIC Female Cap	10,000 psi
CAP-FJ5 10K	5/16" JIC Female Cap	10,000 psi
CAP-FJ6 10K	3/8" JIC Female Cap	10,000 psi
CAP-FJ8 10K	1/2" JIC Female Cap	10,000 psi
CAP-FJ10 10K	5/8" JIC Female Cap	10,000 psi
CAP-FJ12 10K	3/4" JIC Female Gap	10,000 psi
CAP-FJ16 10K	1" JIC Female Cap	10,000 psi



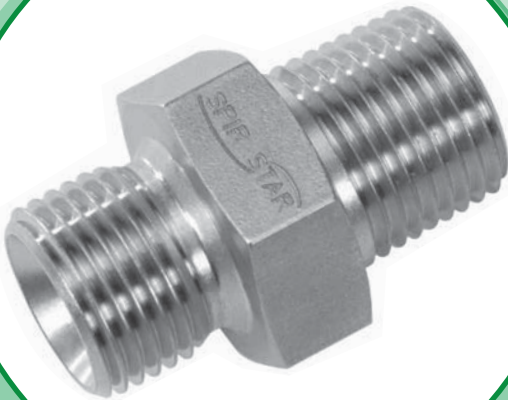
**JIC Male Plugs**

Part No.	Description	Max Working Pressure
PLUG-MJ4 10K	1/4" JIC Male Plug	10,000 psi
PLUG-MJ5 10K	5/16" JIC Male Plug	10,000 psi
PLUG-MJ6 10K	3/8" JIC Male Plug	10,000 psi
PLUG-MJ8 10K	1/2" JIC Male Plug	10,000 psi
PLUG-MJ10 10K	5/8" JIC Male Plug	10,000 psi
PLUG-MJ12 10K	3/4" JIC Male Plug	10,000 psi
PLUG-MJ16 10K	1" JIC Male Plug	10,000 psi

# **SPiR STAR**<sup>®</sup>

## **BSPP Fittings**

**SPiR STAR** British Standard pipe parallel fittings have the maximum working pressure of 30,000 psi. Sealing may be achieved by the use of mating with 60° cone seat, dowty seal or O-ring.



### **Sizes:**

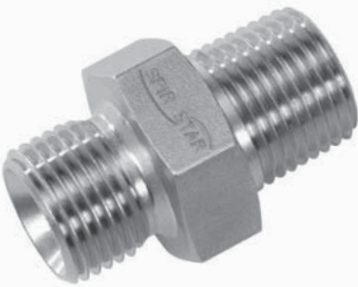
<b>Common Description</b>	<b>Actual Thread Dimension</b>
4 1/4" BSPP	0.518"-19 Thread
6 3/8" BSPP	0.656"-19 Thread
8 1/2" BSPP	0.825"-14 Thread
12 3/4" BSPP	1.041"-14 Thread
16 1" BSPP	1.309"-11 Thread





**BSPP Male X BSPP Male 60° Cones**

Part No.	Description	Max Working Pressure
BM2-BM2 30K	1/8" BSPP Male X 1/8" BSPP Male	30,000 psi
BM2-BM4 30K	1/8" BSPP Male X 1/4" BSPP Male	30,000 psi
BM4-BM4 30K	1/4" BSPP Male X 1/4" BSPP Male	30,000 psi
BM4-BM6 30K	1/4" BSPP Male X 3/8" BSPP Male	30,000 psi
BM4-BM8 30K	1/4" BSPP Male X 1/2" BSPP Male	30,000 psi
BM6-BM6 30K	3/8" BSPP Male X 3/8" BSPP Male	30,000 psi
BM6-BM8 30K	3/8" BSPP Male X 1/2" BSPP Male	30,000 psi
BM8-BM8 30K	1/2" BSPP Male X 1/2" BSPP Male	30,000 psi
BM8-BM12 10K	1/2" BSPP Male X 3/4" BSPP Male	10,000 psi
BM12-BM12 10K	3/4" BSPP Male X 3/4" BSPP Male	10,000 psi
BM12-BM16 10K	3/4" BSPP Male X 1" BSPP Male	10,000 psi
BM16-BM16 10K	1" BSPP Male X 1" BSPP Male	10,000 psi



**BSPP Male 60° Cone X NPT Male Nipples**

Part No.	Description	Max Working Pressure
BM2-NM2 15K	1/8" BSPP Male X 1/8" NPT Male	15,000 psi
BM2-NM4 15K	1/8" BSPP Male X 1/4" NPT Male	15,000 psi
BM4-NM2 15K	1/4" BSPP Male X 1/8" NPT Male	15,000 psi
BM4-NM4 15K	1/4" BSPP Male X 1/4" NPT Male	15,000 psi
BM4-NM6 15K	1/4" BSPP Male X 3/8" NPT Male	15,000 psi
BM4-NM8 15K	1/4" BSPP Male X 1/2" NPT Male	15,000 psi
BM6-NM4 15K	3/8" BSPP Male X 1/4" NPT Male	15,000 psi
BM6-NM6 15K	3/8" BSPP Male X 3/8" NPT Male	15,000 psi
BM6-NM8 15K	3/8" BSPP Male X 1/2" NPT Male	15,000 psi
BM8-NM6 15K	1/2" BSPP Male X 3/8" NPT Male	15,000 psi
BM8-NM8 15K	1/2" BSPP Male X 1/2" NPT Male	15,000 psi
BM8-NM12 10K	1/2" BSPP Male X 3/4" NPT Male	10,000 psi
BM12-NM8 10K	3/4" BSPP Male X 1/2" NPT Male	10,000 psi
BM12-NM12 10K	3/4" BSPP Male X 3/4" NPT Male	10,000 psi
BM12-NM16 10K	3/4" BSPP Male X 1" NPT Male	10,000 psi
BM16-NM12 10K	1" BSPP Male X 3/4" NPT Male	10,000 psi
BM16-NM16 10K	1" BSPP Male X 1" NPT Male	10,000 psi



**BSPP Male 60° Cone X JIC Male Nipples**

Part No.	Description	Max Working Pressure
BM4-JM4 10K	1/4" BSPP Male X 1/4" JIC Male	10,000 psi
BM4-JM6 10K	1/4" BSPP Male X 3/8" JIC Male	10,000 psi
BM6-JM6 10K	3/8" BSPP Male X 3/8" JIC Male	10,000 psi
BM6-JM8 10K	3/8" BSPP Male X 1/2" JIC Male	10,000 psi
BM8-JM8 10K	1/2" BSPP Male X 1/2" JIC Male	10,000 psi
BM12-JM12 10K	3/4" BSPP Male X 3/4" JIC Male	10,000 psi

# BSPP Fittings



## High Pressure Male X BSPP Male

Part No.	Description	Max Working Pressure
HM4-MB4 30K	1/4" HP Male X 1/4" BSPP Male	30,000 psi
HM4-MB6 30K	1/4" HP Male X 3/8" BSPP Male	30,000 psi
HM6-MB4 30K	3/8" HP Male X 1/4" BSPP Male	30,000 psi
HM6-MB6 30K	3/8" HP Male X 3/8" BSPP Male	30,000 psi
HM9-MB6 30K	9/16" HP Male X 3/8" BSPP Male	30,000 psi
HM9-MB8 30K	9/16" HP Male X 1/2" BSPP Male	30,000 psi



## BSPP Male X Medium Pressure Male

Part No.	Description	Max Working Pressure
MB4-MM4 20K	1/4" BSPP Male X 1/4" MP Male	20,000 psi
MB4-MM6 20K	1/4" BSPP Male X 3/8" MP Male	20,000 psi
MB4-MM9 20K	1/4" BSPP Male X 9/16" MP Male	20,000 psi
MB6-MM4 20K	3/8" BSPP Male X 1/4" MP Male	20,000 psi
MB6-MM6 20K	3/8" BSPP Male X 3/8" MP Male	20,000 psi
MB6-MM9 20K	3/8" BSPP Male X 9/16" MP Male	20,000 psi
MB8-MM4 20K	1/2" BSPP Male X 1/4" MP Male	20,000 psi
MB8-MM6 20K	1/2" BSPP Male X 3/8" MP Male	20,000 psi
MB8-MM9 20K	1/2" BSPP Male X 9/16" MP Male	20,000 psi
MB8-MM12 20K	1/2" BSPP Male X 3/4" MP Male	20,000 psi
MB8-MM16 20K	1/2" BSPP Male X 1" MP Male	20,000 psi
MB12-MM6 10K	3/4" BSPP Male X 3/8" MP Male	10,000 psi
MB12-MM9 10K	3/4" BSPP Male X 9/16" MP Male	10,000 psi
MB12-MM12 10K	3/4" BSPP Male X 3/4" MP Male	10,000 psi
MB12-MM16 10K	3/4" BSPP Male X 1" MP Male	10,000 psi
MB16-MM9 10K	1" BSPP Male X 9/16" MP Male	10,000 psi
MB16-MM12 10K	1" BSPP Male X 3/4" MP Male	10,000 psi
MB16-MM16 10K	1" BSPP Male X 1" MP Male	10,000 psi



## BSPP Female Couplings

Part No.	Description	Max Working Pressure
FB2 30K	1/8" X 1/8" BSPP Female Coupler	30,000 psi
FB4 30K	1/4" X 1/4" BSPP Female Coupler	30,000 psi
FB6 30K	3/8" X 3/8" BSPP Female Coupler	30,000 psi
FB8 30K	1/2" X 1/2" BSPP Female Coupler	30,000 psi
FB12 30K	3/4" X 3/4" BSPP Female Coupler	30,000 psi
FB16 30K	1" X 1" BSPP Female Coupler	30,000 psi



**BSPP Female Block Elbows**

Part No.	Description	Max Working Pressure
EFB2 30K	1/8" X 1/8" BSPP Female Elbow	30,000 psi
EFB4 30K	1/4" X 1/4" BSPP Female Elbow	30,000 psi
EFB6 30K	3/8" X 3/8" BSPP Female Elbow	30,000 psi
EFB8 30K	1/2" X 1/2" BSPP Female Elbow	30,000 psi
EFB12 30K	3/4" X 3/4" BSPP Female Elbow	30,000 psi
EFB16 30K	1" X 1" BSPP Female Elbow	30,000 psi



**BSPP Female Block Tees**

Part No.	Description	Max Working Pressure
TFB2 30K	1/8" X 1/8" BSPP Female Tee	30,000 psi
TFB4 30K	1/4" X 1/4" BSPP Female Tee	30,000 psi
TFB6 30K	3/8" X 3/8" BSPP Female Tee	30,000 psi
TFB8 30K	1/2" X 1/2" BSPP Female Tee	30,000 psi
TFB12 30K	3/4" X 3/4" BSPP Female Tee	30,000 psi
TFB16 30K	1" X 1" BSPP Female Tee	30,000 psi



**BSPP Female Block Crosses**

Part No.	Description	Max Working Pressure
CRFB2 30K	1/8" X 1/8" BSPP Female Cross	30,000 psi
CRFB4 30K	1/4" X 1/4" BSPP Female Cross	30,000 psi
CRFB6 30K	3/8" X 3/8" BSPP Female Cross	30,000 psi
CRFB8 30K	1/2" X 1/2" BSPP Female Cross	30,000 psi
CRFB12 30K	3/4" X 3/4" BSPP Female Cross	30,000 psi
CRFB16 30K	1" X 1" BSPP Female Cross	30,000 psi



**BSPP Male Plugs**

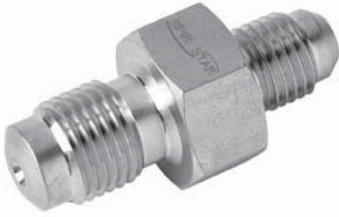
Part No.	Description	Max Working Pressure
PLUG-MB2 30K	1/8" BSPP Male Plug	30,000 psi
PLUG-MB4 30K	1/4" BSPP Male Plug	30,000 psi
PLUG-MB6 30K	3/8" BSPP Male Plug	30,000 psi
PLUG-MB8 30K	1/2" BSPP Male Plug	30,000 psi
PLUG-MB12 10K	3/4" BSPP Male Plug	10,000 psi
PLUG-MB16 10K	1" BSPP Male Plug	10,000 psi



**BSPP Female Caps**

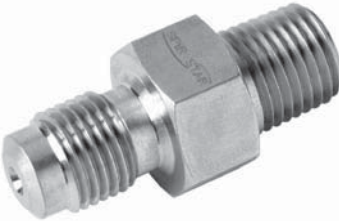
Part No.	Description	Max Working Pressure
CAP-FB2 30K	1/8" BSPP Female Cap	30,000 psi
CAP-FB4 30K	1/4" BSPP Female Cap	30,000 psi
CAP-FB6 30K	3/8" BSPP Female Cap	30,000 psi
CAP-FB8 30K	1/2" BSPP Female Cap	30,000 psi
CAP-FB12 10K	3/4" BSPP Female Cap	10,000 psi
CAP-FB16 10K	1" BSPP Female Cap	10,000 psi

# BSPP Fittings



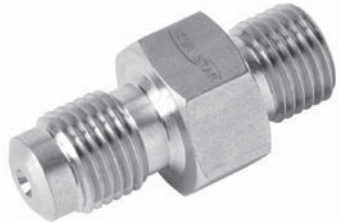
## BSPP Male External 120° Cone X JIC Male

Part No.	Description	Max Working Pressure
H12B4-MJ4 10K	1/4" BSPP Male External Cone X 1/4" JIC Male	10,000 psi
H12B4-MJ6 10K	1/4" BSPP Male External Cone X 3/8" JIC Male	10,000 psi
H12B4-MJ8 10K	1/4" BSPP Male External Cone X 1/2" JIC Male	10,000 psi



## BSPP Male External 120° Cone X NPT Male

Part No.	Description	Max Working Pressure
H12B4-NM4 15K	1/4" BSPP Male External Cone X 1/4" NPT Male	15,000 psi
H12B4-NM6 15K	1/4" BSPP Male External Cone X 3/8" NPT Male	15,000 psi
H12B4-NM8 15K	1/4" BSPP Male External Cone X 1/2" NPT Male	15,000 psi



## BSPP Male External 120° Cone X BSPP Male

Part No.	Description	Max Working Pressure
H12B4-NB4 30K	1/4" BSPP Male External Cone X 1/4" BSPP Male	30,000 psi
H12B4-NB6 30K	1/4" BSPP Male External Cone X 3/8" BSPP Male	30,000 psi
H12B4-NB8 30K	1/4" BSPP Male External Cone X 1/2" BSPP Male	30,000 psi



## BSPP Male External 120° Cone X Male Type M

Part No.	Description	Max Working Pressure
H12B4-M9 30K	1/4" BSPP Male External Cone X 9/16" Type M Male	30,000 psi
H12B4-M12 30K	1/4" BSPP Male External Cone X 3/4" Type M Male	30,000 psi
H12B4-M16 30K	1/4" BSPP Male External Cone X 1" Type M Male	30,000 psi



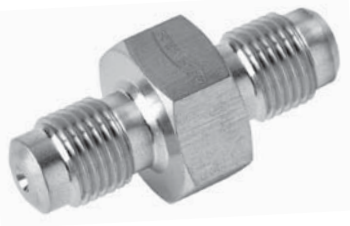
## BSPP Male External 120° Cone X Medium Pressure Male

Part No.	Description	Max Working Pressure
H12B4-MM4 30K	1/4" BSPP Male External Cone X 1/4" MP Male	30,000 psi
H12B4-MM6 30K	1/4" BSPP Male External Cone X 3/8" MP Male	30,000 psi
H12B4-MM9 30K	1/4" BSPP Male External Cone X 9/16" MP Male	30,000 psi



**BSPP Male External 120° Cone X High Pressure Male**

Part No.	Description	Max Working Pressure
H12B4-HM4 30K	1/4" BSPP Male External Cone X 1/4" HP Male	30,000 psi
H12B4-HM6 30K	1/4" BSPP Male External Cone X 3/8" HP Male	30,000 psi
H12B4-HM9 30K	1/4" BSPP Male External Cone X 9/16" HP Male	30,000 psi



**BSPP Male External 120° Cone X BSPP Male External 120° Cone**

Part No.	Description	Max Working Pressure
12B4-12B4 30K	1/4" BSPP Male External Cone X 1/4" BSPP Male External Cone	30,000 psi

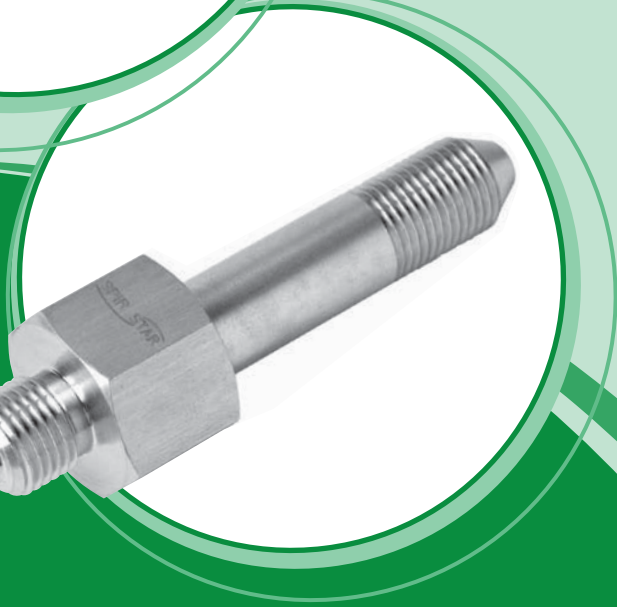
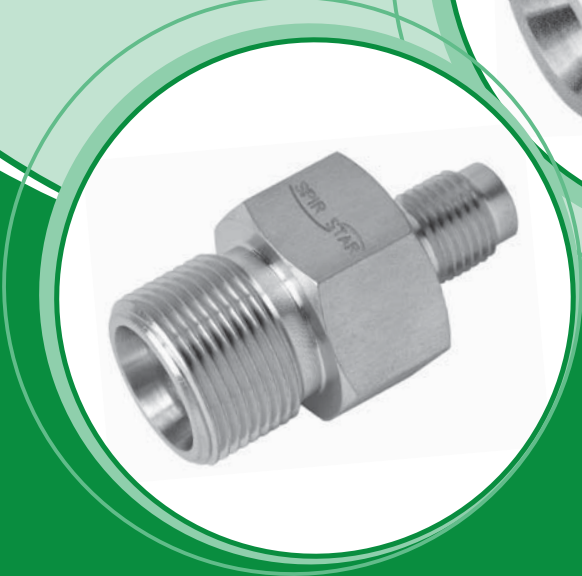


**BSPP Male External 120° Cone Plug**

Part No.	Description	Max Working Pressure
PLUG-H12B4 30K	1/4" BSPP Male External Cone Plug	30,000 psi



# Adaptors



Adaptors



**Type M Male X Type M Male**

Part No.	Description	Max Working Pressure
M9-M9 50K	9/16"-18 Type M X 9/16"-18 Type M	50,000 psi
M12-M12 30K	3/4"-16 Type M X 3/4"-16 Type M	30,000 psi
M12-M9 30K	3/4"-16 Type M X 9/16"-18 Type M	30,000 psi
M14-M14 50K	7/8"-14 Type M X 7/8"-14 Type M	50,000 psi
M14-M9 50K	7/8"-14 Type M X 9/16"-18 Type M	50,000 psi
M16-M16 30K	1"-12 Type M X 1"-12 Type M	30,000 psi
M16-M9 30K	1"-12 Type M X 9/16"-18 Type M	30,000 psi
M16-M12 30K	1"-12 Type M X 3/4"-16 Type M	30,000 psi
M18-M18 50K	1-1/8"-12 Type M X 1-1/8"-12 Type M	50,000 psi
M18-M9 50K	1-1/8"-12 Type M X 9/16"-18 Type M	50,000 psi
M18-M14 50K	1-1/8"-12 Type M X 7/8"-14 Type M	50,000 psi
M21-M21 20K	1-5/6"-12 Type M X 1-5/6"-12 Type M	20,000 psi
M21-M16 20K	1-5/6"-12 Type M X 1"-12 Type M	20,000 psi

Type M adaptors are for use with Type M hose end fittings only.



**Type M Male X NPT Male**

Part No.	Description	Max Working Pressure
M9-NM4 15K	9/16"-18 Type M X 1/4" NPT Male	15,000 psi
M9-NM6 15K	9/16"-18 Type M X 3/8" NPT Male	15,000 psi
M9-NM8 15K	9/16"-18 Type M X 1/2" NPT Male	15,000 psi
M9-NM12 10K	9/16"-18 Type M X 3/4" NPT Male	10,000 psi
M9-NM16 10K	9/16"-18 Type M X 1" NPT Male	10,000 psi
M12-NM4 15K	3/4"-16 Type M X 1/4" NPT Male	15,000 psi
M12-NM6 15K	3/4"-16 Type M X 3/8" NPT Male	15,000 psi
M12-NM8 15K	3/4"-16 Type M X 1/2" NPT Male	15,000 psi
M12-NM12 10K	3/4"-16 Type M X 3/4" NPT Male	10,000 psi
M12-NM16 10K	3/4"-16 Type M X 1" NPT Male	10,000 psi
M16-NM6 15K	1"-12 Type M X 3/8" NPT Male	15,000 psi
M16-NM8 15K	1"-12 Type M X 1/2" NP Male	15,000 psi
M16-NM12 10K	1"-12 Type M X 3/4" NPT Male	10,000 psi
M16-NM16 10K	1"-12 Type M X 1" NPT Male	10,000 psi
M21-NM8 15K	1-5/16"-12 Type M X 1/2" NPT Male	15,000 psi
M21-NM12 10K	1-5/16"-12 Type M X 3/4" NPT Male	10,000 psi
M21-NM16 10K	1-5/16"-12 Type M X 1" NPT Male	10,000 psi

Type M adaptors are for use with Type M hose end fittings only.

# Type M Adaptors



## Type M Male X Medium Pressure Male

Part No.	Description	Max Working Pressure
M9-MP4 20K	9/16"-18 Type M X 1/4" MP Male	20,000 psi
M9-MP6 20K	9/16"-18 Type M X 3/8" MP Male	20,000 psi
M9-MP9 20K	9/16"-18 Type M X 9/16" MP Male	20,000 psi
M9-MP12 20K	9/16"-18 Type M X 3/4" MP Male	20,000 psi
M9-MP16 20K	9/16"-18 Type M X 1" MP Male	20,000 psi
M12-MP4 20K	3/4"-16 Type M X 1/4" MP Male	20,000 psi
M12-MP6 20K	3/4"-16 Type M X 3/8" MP Male	20,000 psi
M12-MP9 20K	3/4"-16 Type M X 9/16" MP Male	20,000 psi
M12-MP12 20K	3/4"-16 Type M X 3/4" MP Male	20,000 psi
M12-MP16 20K	3/4"-16 Type M X 1" MP Male	20,000 psi
M16-MP6 20K	1"-12 Type M X 3/8" MP Male	20,000 psi
M16-MP9 20K	1"-12 Type M X 9/16" MP Male	20,000 psi
M16-MP12 20K	1"-12 Type M X 3/4" MP Male	20,000 psi
M16-MP16 20K	1"-12 Type M X 1" MP Male	20,000 psi
M21-MP9 20K	1-5/16"-12 Type M X 9/16" MP Male	20,000 psi
M21-MP12 20K	1-5/16"-12 Type M X 3/4" MP Male	20,000 psi
M21-MP16 20K	1-5/16"-12 Type M X 1" MP Male	20,000 psi

Type M adaptors are for use with Type M hose end fittings only.



## Type M Male X High Pressure Male

Part No.	Description	Max Working Pressure
M9-HP4 50K	9/16"-18 Type M X 1/4" HP Male	50,000 psi
M9-HP6 50K	9/16"-18 Type M X 3/8" HP Male	50,000 psi
M9-HP9 50K	9/16"-18 Type M X 9/16" HP Male	50,000 psi
M12-HP4 30K	3/4"-16 Type M X 1/4" HP Male	30,000 psi
M12-HP6 30K	3/4"-16 Type M X 3/8" HP Male	30,000 psi
M12-HP9 30K	3/4"-16 Type M X 9/16" HP Male	30,000 psi
M14-HP6 50K	7/8"-14 Type M X 3/8" HP Male	50,000 psi
M14-H P9 50K	7/8"-14 Type M X 9/16" HP Male	50,000 psi
M16-HP6 30K	1"-12 Type M X 3/8" HP Male	30,000 psi
M16-H P9 30K	1"-12 Type M X 9/16" HP Male	30,000 psi
M16-HP16 30K	1"-12 Type M X 1" HP Male	30,000 psi
M18-HP9 50K	1-1/8"-12 Type M X 9/16" HP Male	50,000 psi
M21-HP9 20K	1-5/16"-12 Type M X 9/16" HP Male	20,000 psi

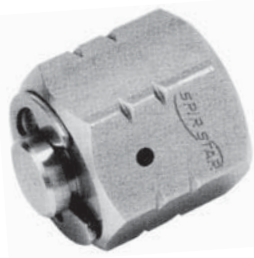
Type M adaptors are for use with Type M hose end fittings only.





**Type M Male X Female NPT Adaptors**

Part No.	Description	Max Working Pressure
M9-NF4 15K	9/16"-18 Type M X 1/4" NPT Female	15,000 psi
M9-NF6 15K	9/16"-18 Type M X 3/8" NPT Female	15,000 psi
M9-NF8 15K	9/16"-18 Type M X 1/2" NPT Female	15,000 psi
M9-NF12 10K	9/16"-18 Type M X 3/4" NPT Female	10,000 psi
M9-NF16 10K	9/16"-18 Type M X 1" NPT Female	10,000 psi
M12-NF4 15K	3/4"-16 Type M X 1/4" NPT Female	15,000 psi
M12-NF6 15K	3/4"-16 Type M X 3/8" NPT Female	15,000 psi
M12-NF8 15K	3/4"-16 Type M X 1/2" NPT Female	15,000 psi
M12-NF12 10K	3/4"-16 Type M X 3/4" NPT Female	10,000 psi
M12-NF16 10K	3/4"-16 Type M X 1" NPT Female	10,000 psi
M14-NF8 15K	7/8"-14 Type M X 1/2" NPT Female	15,000 psi
M14-NF12 10K	7/8"-14 Type M X 3/4" NPT Female	10,000 psi
M14-NF16 10K	7/8"-14 Type M X 1" NPT Female	10,000 psi
M16-NF8 15K	1"-12 Type M X 1/2" NPT Female	15,000 psi
M16-NF12 10K	1"-12 Type M X 3/4" NPT Female	10,000 psi
M16-NF16 10K	1"-12 Type M X 1" NPT Female	10,000 psi
M18-NF8 15K	1.1/8"-12 Type M X 1/2" NPT Female	15,000 psi
M18-NF12 10K	1.1/8"-12 Type M X 3/4" NPT Female	10,000 psi
M18-NF16 10K	1.1/8"-12 Type M X 1" NPT Female	10,000 psi
M21-NF8 15K	1.5/16"-12 Type M X 1/2" NPT Female	15,000 psi
M21-NF12 10K	1.5/16"-12 Type M X 3/4" NPT Female	10,000 psi
M21-NF16 10K	1.5/16"-12 Type M X 1" NPT Female	10,000 psi



**Type M Caps**

Part No.	Description	Max Working Pressure
CAP-M9 40K	9/16"-18 Type M Cap	40,000 psi
CAP-M12 30K	3/4"-16 Type M Cap	30,000 psi
CAP-M16 30K	1"-12 Type M Cap	30,000 psi
CAP-M21 20K	1-5/16"-12 Type M Cap	20,000 psi



**Type M Plugs**

Part No.	Description	Max Working Pressure
PLUG-M9 40K	9/16"-18 Type M Plug	40,000 psi
PLUG-M12 30K	3/4"-16 Type M Plug	30,000 psi
PLUG-M16 30K	1"-12 Type M Plug	30,000 psi
PLUG-M21 20K	1-5/16"-12 Type M Plug	20,000 psi

# Metric Adaptors



## Metric Male X Male Hex Adaptors

Part No.	Description	Max Working Pressure
DKOS-M20M20 30K	Metric M20 Male X M20 Male	30,000 psi
DKOS-M22M20 30K	Metric M22 Male X M20 Male	30,000 psi
DKOS-M22M22 36K	Metric M22 Male X M22 Male	36,000 psi
DKOS-M24M22 36K	Metric M24 Male X M22 Male	36,000 psi
DKOS-M24M24 36K	Metric M24 Male X M24 Male	36,000 psi
DKOS-M36M24 20K	Metric M36 Male X M24 Male	20,000 psi
DKOS-M36M36 20K	Metric M36 Male X M36 Male	20,000 psi



## Metric Male X Male NPT Hex Adaptors

Part No.	Description	Max Working Pressure
DKOS-M20NM6 15K	Metric M20 Male X 3/8" NPT Male	15,000 psi
DKOS-M20NM8 15K	Metric M22 Male X 1/2" NPT Male	15,000 psi
DKOS-M22NM6 15K	Metric M22 Male X 3/8" NPT Male	15,000 psi
DKOS-M22NM8 15K	Metric M24 Male X 1/2" NPT Male	15,000 psi
DKOS-M24NM6 15K	Metric M24 Male X 3/8" NPT Male	15,000 psi
DKOS-M24NM8 15K	Metric M24 Male X 1/2" NPT Male	15,000 psi
DKOS-M24NM12 15K	Metric M24 Male X 3/4" NPT Male	15,000 psi
DKOS-M36NM8 15K	Metric M36 Male X 3/8" NPT Male	15,000 psi
DKOS-M36NM12 10K	Metric M36 Male X 3/4" NPT Male	10,000 psi
DKOS-M36NM16 10K	Metric M36 Male X 1" NPT Male	10,000 psi



## Metric Male X Female NPT Hex Adaptors

Part No.	Description	Max Working Pressure
DKOS-M20NF6 15K	Metric M20 Male X 3/8" NPT Female	15,000 psi
DKOS-M20NF8 15K	Metric M22 Male X 1/2" NPT Female	15,000 psi
DKOS-M22NF6 15K	Metric M22 Male X 3/8" NPT Female	15,000 psi
DKOS-M22NF8 15K	Metric M24 Male X 1/2" NPT Female	15,000 psi
DKOS-M24NF6 15K	Metric M24 Male X 3/8" NPT Female	15,000 psi
DKOS-M24NF8 15K	Metric M24 Male X 1/2" NPT Female	15,000 psi
DKOS-M24NF12 15K	Metric M24 Male X 3/4" NPT Female	15,000 psi
DKOS-M36NF8 15K	Metric M36 Male X 3/8" NPT Female	15,000 psi
DKOS-M36NF12 10K	Metric M36 Male X 3/4" NPT Female	10,000 psi
DKOS-M36NF16 10K	Metric M36 Male X 1" NPT Female	10,000 psi



**Metric Male X Male JIC Hex Adaptors**

Part No.	Description	Max Working Pressure
DKOS-M20MJ6 10K	Metric M20 Male X 3/8" JIC Male	10,000 psi
DKOS-M20MJ8 10K	Metric M22 Male X 1/2" JIC Male	10,000 psi
DKOS-M22MJ6 10K	Metric M22 Male X 3/8" JIC Male	10,000 psi
DKOS-M22MJ8 10K	Metric M24 Male X 1/2" JIC Male	10,000 psi
DKOS-M24MJ6 10K	Metric M24 Male X 3/8" JIC Male	10,000 psi
DKOS-M24MJ8 10K	Metric M24 Male X 1/2" JIC Male	10,000 psi
DKOS-M24MJ12 10K	Metric M24 Male X 3/4" JIC Male	10,000 psi
DKOS-M36MJ8 10K	Metric M36 Male X 3/8" JIC Male	10,000 psi
DKOS-M36MJ12 10K	Metric M36 Male X 3/4" JIC Male	10,000 psi
DKOS-M36MJ16 10K	Metric M36 Male X 1" JIC Male	10,000 psi



**Metric Male X Male BSPP Hex Adaptors**

Part No.	Description	Max Working Pressure
DKOS-M20MB6 30K	Metric M20 Male X 3/8" BSPP Male	30,000 psi
DKOS-M20MB8 30K	Metric M22 Male X 1/2" BSPP Male	30,000 psi
DKOS-M22MB6 30K	Metric M22 Male X 3/8" BSPP Male	30,000 psi
DKOS-M22MB8 30K	Metric M24 Male X 1/2" BSPP Male	30,000 psi
DKOS-M24MB6 30K	Metric M24 Male X 3/8" BSPP Male	30,000 psi
DKOS-M24MB8 30K	Metric M24 Male X 1/2" BSPP Male	30,000 psi
DKOS-M24MB12 10K	Metric M24 Male X 3/4" BSPP Male	10,000 psi
DKOS-M36MB8 20K	Metric M36 Male X 3/8" BSPP Male	20,000 psi
DKOS-M36MB12 10K	Metric M36 Male X 3/4" BSPP Male	10,000 psi
DKOS-M36MB16 10K	Metric M36 Male X 1" BSPP Male	10,000 psi



**Metric Male X Male BSPP 120° External Cone Adaptors**

Part No.	Description	Max Working Pressure
DKOS-M2012B4 20K	Metric M20 Male X 1/4" BSPP Male 120° External Cone	20,000 psi
DKOS-M2212B4 20K	Metric M22 Male X 1/4" BSPP Male 120° External Cone	20,000 psi
DKOS-M2412B4 20K	Metric M24 Male X 1/4" BSPP Male 120° External Cone	20,000 psi

# Tube Cone LH Adaptors



High Pressure Male X Tube Cone LH Adaptors			
Part No.		Description	Max Working Pressure
HM4-LH4	60K	1/4" HP Male X 1/4"-28 LH Male	60,000 psi
HM4-LH6	60K	1/4" HP Male X 3/8"-24 LH Male	60,000 psi
HM4-LH9	60K	1/4" HP Male X 9/16"-18 LH Male	60,000 psi
HM6-LH4	60K	3/8" HP Male X 1/4"-28 LH Male	60,000 psi
HM6-LH6	60K	3/8" HP Male X 3/8"-24 LH Male	60,000 psi
HM6-LH9	60K	3/8" HP Male X 9/16"-18 LH Male	60,000 psi
HM9-LH4	60K	9/16" HP Male X 1/4"-28 LH Male	60,000 psi
HM9-LH6	60K	9/16" HP Male X 3/8"-24 LH Male	60,000 psi
HM9-LH9	60K	9/16" HP Male X 9/16"-18 LH Male	60,000 psi



Medium Pressure Male X Tube Cone LH Adaptors			
Part No.		Description	Max Working Pressure
MM4-LH4	20K	1/4" MP Male X 1/4"-28 LH Male	20,000 psi
MM4-LH6	20K	1/4" MP Male X 3/8"-24 LH Male	20,000 psi
MM4-LH9	20K	1/4" MP Male X 9/16"-18 LH Male	20,000 psi
MM6-LH4	20K	3/8" MP Male X 1/4"-28 LH Male	20,000 psi
MM6-LH6	20K	3/8" MP Male X 3/8"-24 LH Male	20,000 psi
MM6-LH9	20K	3/8" MP Male X 9/16"-18 LH Male	20,000 psi
MM9-LH4	20K	9/16" MP Male X 1/4"-28 LH Male	20,000 psi
MM9-LH6	20K	9/16" MP Male X 3/8"-24 LH Male	20,000 psi
MM9-LH9	20K	9/16" MP Male X 9/16"-18 LH Male	20,000 psi



Type M Male X Tube Cone LH Adaptors			
Part No.		Description	Max Working Pressure
M9-LH4	50K	9/16"-18 Type M X 1/4"-28 LH Male	50,000 psi
M9-LH6	50K	9/16"-18 Type M X 3/8"-24 LH Male	50,000 psi
M9-LH9	50K	9/16"-18 Type M X 9/16"-18 LH Male	50,000 psi
M12-LH4	50K	9/16"-16 Type M X 1/4"-28 LH Male	50,000 psi
M12-LH6	50K	9/16"-16 Type M X 3/8"-24 LH Male	50,000 psi
M12-LH9	50K	9/16"-16 Type M X 9/16"-18 LH Male	50,000 psi



NPT Male X Tube Cone LH Adaptors			
Part No.		Description	Max Working Pressure
NM4-LH4	15K	1/4" NPT Male X 1/4"-28 LH Male	15,000 psi
NM4-LH6	15K	1/4" NPT Male X 3/8"-24 LH Male	15,000 psi
NM4-LH9	15K	1/4" NPT Male X 9/16"-18 LH Male	15,000 psi
NM6-LH4	15K	3/8" NPT Male X 1/4"-28 LH Male	15,000 psi
NM6-LH6	15K	3/8" NPT Male X 3/8"-24 LH Male	15,000 psi
NM6-LH9	15K	3/8" NPT Male X 9/16"-18 LH Male	15,000 psi
NM8-LH4	15K	1/8" NPT Male X 1/4"-28 LH Male	15,000 psi
NM8-LH6	15K	1/2" NPT Male X 3/8"-24 LH Male	15,000 psi
NM8-LH9	15K	1/2" NPT Male X 9/16"-18 LH Male	15,000 psi



### NPT Female X Tube Cone LH Adaptors

Part No.	Description	Max Working Pressure
NF4-LH4 15K	1/4" NPT Female X 1/4"-28 LH Male	15,000 psi
NF4-LH6 15K	1/4" NPT Female X 3/8"-24 LH Male	15,000 psi
NF4-LH9 15K	1/4" NPT Female X 9/16"-18 LH Male	15,000 psi
NF6-LH4 15K	3/8" NPT Female X 1/4"-28 LH Male	15,000 psi
NF6-LH6 15K	3/8" NPT Female X 3/8"-24 LH Male	15,000 psi
NF6-LH9 15K	3/8" NPT Female X 9/16"-18 LH Male	15,000 psi
NF8-LH4 15K	1/2" NPT Female X 1/4"-28 LH Male	15,000 psi
NF8-LH6 15K	1/2" NPT Female X 3/8"-24 LH Male	15,000 psi
NF8-LH9 15K	1/2" NPT Female X 9/16"-18 LH Male	15,000 psi



### BSPP Male X Tube Cone LH Adaptors

Part No.	Description	Max Working Pressure
BM4-LH4 30K	1/4" BSPP Male X 1/4"-28 LH Male	30,000 psi
BM4-LH6 30K	1/4" BSPP Male X 3/8"-24 LH Male	30,000 psi
BM4-LH9 30K	1/4" BSPP Male X 9/16"-18 LH Male	30,000 psi
BM6-LH4 30K	3/8" BSPP Male X 1/4"-28 LH Male	30,000 psi
BM6-LH6 30K	3/8" BSPP Male X 3/8"-24 LH Male	30,000 psi
BM6-LH9 30K	3/8" BSPP Male X 9/16"-18 LH Male	30,000 psi
BM8-LH4 30K	1/2" BSPP Male X 1/4"-28 LH Male	30,000 psi
BM8-LH6 30K	1/2" BSPP Male X 3/8"-24 LH Male	30,000 psi
BM8-LH9 30K	1/2" BSPP Male X 9/16"-18 LH Male	30,000 psi



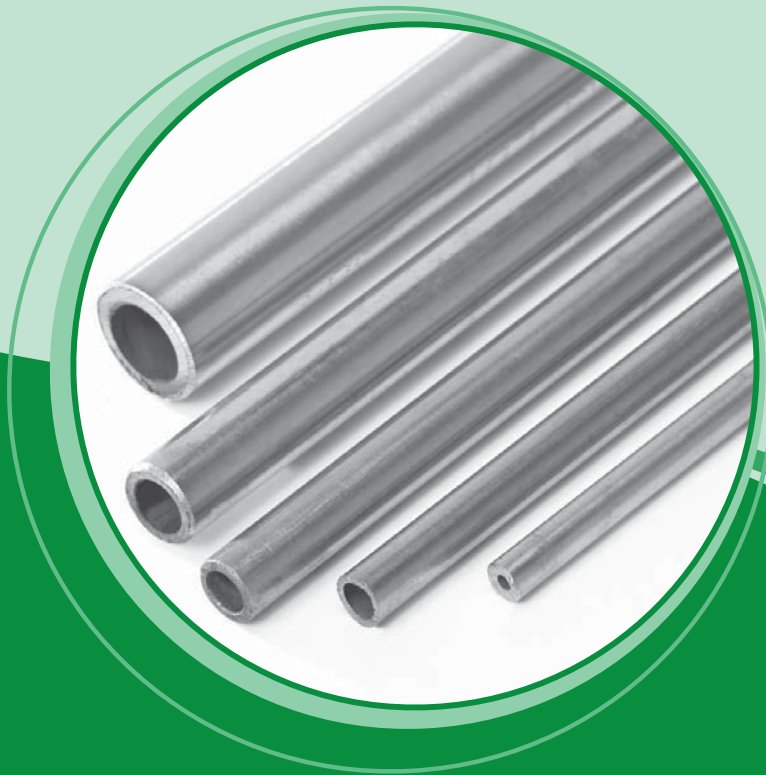
### JIC Male X Tube Cone LH Adaptors

Part No.	Description	Max Working Pressure
MJ4-LH4 10K	1/4" JIC Male X 1/4" LH Male	10,000 psi
MJ4-LH6 10K	1/4" JIC Male X 3/8" LH Male	10,000 psi
MJ4-LH9 10K	1/4" JIC Male X 9/16" LH Male	10,000 psi
MJ6-LH4 10K	3/8" JIC Male X 1/4" LH Male	10,000 psi
MJ6-LH6 10K	3/8" JIC Male X 3/8" LH Male	10,000 psi
MJ6-LH9 10K	3/8" JIC Male X 9/16" LH Male	10,000 psi
MJ8-LH4 10K	1/2" JIC Male X 1/4" LH Male	10,000 psi
MJ8-LH6 10K	1/2" JIC Male X 3/8" LH Male	10,000 psi
MJ8-LH9 10K	1/2" JIC Male X 9/16" LH Male	10,000 psi



# Tubings

**SPIR STAR** stainless steel tubing meets or exceeds performance standards for reliability. All tubing is seamless, austenitic, cold-drawn, tested and inspected to meet maximum strength and performance.



**Pressure Tubing**

Part No.	O.D.	I.D.	Connection	Working Pressure
LPT 15-1	1/16"	0.030"	1/16" LP	15,000 psi
LPT 15-2	1/8"	0.060"	1/8" LP	15,000 psi
LPT 10-4	1/4"	0.125"	1/4" LP	10,000 psi
LPT 10-6	3/8"	0.125"	3/8" LP	10,000 psi

**Medium Pressure Tubing**

Part No.	O.D.	I.D.	Connection	Working Pressure
MPT 20-4	1/4"	0.109"	1/4" MP	20,000 psi
MPT 20-6	3/8"	0.203"	3/8" MP	20,000 psi
MPT 20-9	9/16"	0.312"	9/16" MP	20,000 psi
MPT 20-12	3/4"	0.438"	3/4" MP	20,000 psi
MPT 20-16	1"	0.562"	1" MP	20,000 psi

**High Pressure Tubing**

Part No.	O.D.	I.D.	Connection	Working Pressure
HPT 30-2	1/8"	0.040"	1/8" HP	30,000 psi
HPT 60-2	1/8"	0.020"	1/8" HP	60,000 psi
HPT 60-4	1/4"	0.083"	1/4" HP	60,000 psi
HPT 60-6	3/8"	0.125"	3/8" HP	60,000 psi
HPT 60-9	9/16"	0.188"	9/16" HP	60,000 psi
HPT 30-16	1"	0.437"	1" HP	30,000 psi




# Quick Disconnect Couplings

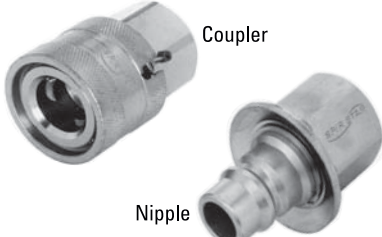
**SPIR STAR** offers a variety of Quick Disconnect Couplings in multiple thread styles and working pressures up to 30,000 psi.



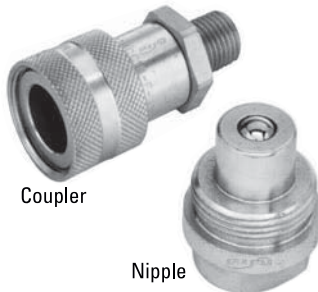
**K**  
Quick Disconnect  
Couplings





	Screw Type Quick Disconnects - Stainless Steel		
	Part No.	Description	Max Working Pressure
	CDQ-08-SET 15K	1/2" NPT Female Screw Together Quick Disconnect Set	15,000 psi

	Push/Pull Type Quick Disconnects - Water Blast Service		
	Part No.	Description	Max Working Pressure
	CDQ-08-FD-F 10K	1/2" NPT Female Push/Pull Quick Disconnect Coupler	10,000 psi
	CDQ-08-FD-M 10K	1/2" NPT Male Push/Pull Quick Disconnect Set Nipple	10,000 psi

## Quick Disconnect Couplings (High Pressure QDC for Hydraulic)

	Screw Type Quick Disconnects - Hydraulic Service		
	Part No.	Description	Max Working Pressure
	CPW-14-M 10K	1/4" NPT Male Screw Together Quick Disconnect Coupler	10,000 psi
	CPW-38-M 10K	3/8" NPT Male Screw Together Quick Disconnect Coupler	10,000 psi
	CPW-14-F 10K	1/4" NPT Female Screw Together Quick Disconnect Nipple	10,000 psi
	CPW-38-F 10K	3/8" NPT Female Screw Together Quick Disconnect Nipple	10,000 psi

	High Pressure Quick Disconnect Coupling for Hydraulic (Coupler)		
	Part No.	Description	Max Working Pressure
	C1000-1202 15K	1/4" BSPP Female Coupler	15,000 psi
	C1500-1202 20K	1/4" BSPP Female Coupler	20,000 psi
	C200-1202 20K	1/4" BSPP Female Coupler	20,000 psi
	C300-1202 30K	1/4" BSPP Female Coupler	30,000 psi

	High Pressure Quick Disconnect Coupling for Hydraulic (Nipple)		
	Part No.	Description	Max Working Pressure
	C1000-6202 10K	1/4" BSPP Female Nipple	15,000 psi
	C1500-6202 20K	1/4" BSPP Female Nipple	20,000 psi
	C200-6202 20K	1/4" BSPP Female Nipple	20,000 psi
	C300-6202 30K	1/4" BSPP Female Nipple	30,000 psi



## Quick Disconnect Female Couplers with Check Valve

Part No.	Description	Max Working Pressure
SPC600-0-M9 30K	Coupler W/Check Valve X 9/16" -18 Type M	30,000 psi
SPC600-0-M12 30K	Coupler W/Check Valve X 3/4" -16 Type M	30,000 psi
SPC600-0-M16 30K	Coupler W/Check Valve X 1" -12 Type M	30,000 psi
SPC600-0-MJ4 10K	Coupler W/Check Valve X 1/4" JIC Male	10,000 psi
SPC600-0-MJ6 10K	Coupler W/Check Valve X 3/8" JIC Male	10,000 psi
SPC600-0-MJ8 10K	Coupler W/Check Valve X 1/2" JIC Male	10,000 psi
SPC600-0-NM4 15K	Coupler W/Check Valve X 1/4" NPT Male	15,000 psi
SPC600-0-NM6 15K	Coupler W/Check Valve X 3/8" NPT Male	15,000 psi
SPC600-0-NM8 15K	Coupler W/Check Valve X 1/2" NPT Male	15,000 psi
SPC600-0-NF4 15K	Coupler W/Check Valve X 1/4" NPT Female	15,000 psi
SPC600-0-NF6 15K	Coupler W/Check Valve X 3/8" NPT Female	15,000 psi
SPC600-0-NF8 15K	Coupler W/Check Valve X 1/2" NPT Female	15,000 psi
SPC600-0-MP4 20K	Coupler W/Check Valve X 1/4" MP Male	20,000 psi
SPC600-0-MP6 20K	Coupler W/Check Valve X 3/8" MP Male	20,000 psi
SPC600-0-MP9 20K	Coupler W/Check Valve X 9/16" MP Male	20,000 psi
SPC600-0-HP4 30K	Coupler W/Check Valve X 1/4" HP Male	30,000 psi
SPC600-0-HP6 30K	Coupler W/Check Valve X 3/8" HP Male	30,000 psi
SPC600-0-HP9 30K	Coupler W/Check Valve X 9/16" HP Male	30,000 psi
SPC600-0-X13 30K	Coupler W/Check Valve X Low Angle Male	30,000 psi

## Quick Disconnect Male Nipples with Check Valve



Part No.	Description	Max Working Pressure
SPC600-2-M9 30K	Nipple W/Check Valve X 9/16" -18 Type M	30,000 psi
SPC600-2-M12 30K	Nipple W/Check Valve X 3/4" -16 Type M	30,000 psi
SPC600-2-M16 30K	Nipple W/Check Valve X 1" -12 Type M	30,000 psi
SPC600-2-MJ4 10K	Nipple W/Check Valve X 1/4" JIC Male	10,000 psi
SPC600-2-MJ6 10K	Nipple W/Check Valve X 3/8" JIC Male	10,000 psi
SPC600-2-MJ8 10K	Nipple W/Check Valve X 1/2" JIC Male	10,000 psi
SPC600-2-NM4 15K	Nipple W/Check Valve X 1/4" NPT Male	15,000 psi
SPC600-2-NM6 15K	Nipple W/Check Valve X 3/8" NPT Male	15,000 psi
SPC600-2-NM8 15K	Nipple W/Check Valve X 1/2" NPT Male	15,000 psi
SPC600-2-NF4 15K	Nipple W/Check Valve X 1/4" NPT Female	15,000 psi
SPC600-2-NF6 15K	Nipple W/Check Valve X 3/8" NPT Female	15,000 psi
SPC600-2-NF8 15K	Nipple W/Check Valve X 1/2" NPT Female	15,000 psi
SPC600-2-MP4 20K	Nipple W/Check Valve X 1/4" MP Male	20,000 psi
SPC600-2-MP6 20K	Nipple W/Check Valve X 3/8" MP Male	20,000 psi
SPC600-2-MP9 20K	Nipple W/Check Valve X 9/16" MP Male	20,000 psi
SPC600-2-HP4 30K	Nipple W/Check Valve X 1/4" HP Male	30,000 psi
SPC600-2-HP6 30K	Nipple W/Check Valve X 3/8" HP Male	30,000 psi
SPC600-2-HP9 30K	Nipple W/Check Valve X 9/16" HP Male	30,000 psi
SPC600-2-X13 30K	Nipple W/Check Valve X Low Angle Male	30,000 psi
SPC600-XX 30K	Check Valve With Back Blank	30,000 psi

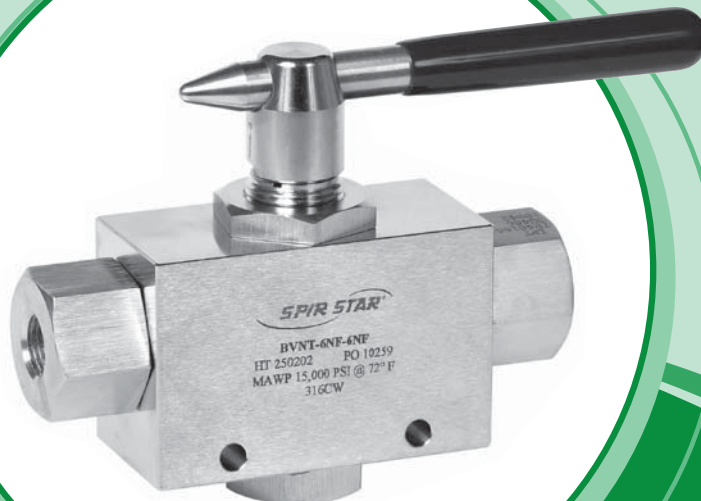


**Quick Disconnect Male Nipples without Check Valve**

Part No.	Description	Max Working Pressure
SPC600-1-M9 30K	Nipple W/O Check Valve X 9/16" -18 Type M	30,000 psi
SPC600-1-M12 30K	Nipple W/O Check Valve X 3/4"-16 Type M	30,000 psi
SPC600-1-M16 30K	Nipple W/O Check Valve X 1" -12 Type M	30,000 psi
SPC600-1-MJ4 10K	Nipple W/O Check Valve X 1/4" JIC Male	10,000 psi
SPC600-1-MJ6 10K	Nipple W/O Check Valve X 3/8" JIC Male	10,000 psi
SPC600-1-MJ8 10K	Nipple W/O Check Valve X 1/2" JIC Male	10,000 psi
SPC600-1-NM4 15K	Nipple W/O Check Valve X 1/4" NPT Male	15,000 psi
SPC600-1-NM6 15K	Nipple W/O Check Valve X 3/8" NPT Male	15,000 psi
SPC600-1-NM8 15K	Nipple W/O Check Valve X 1/2" NPT Male	15,000 psi
SPC600-1-NF4 15K	Nipple W/O Check Valve X 1/4" NPT Female	15,000 psi
SPC600-1-NF6 15K	Nipple W/O Check Valve X 3/8" NPT Female	15,000 psi
SPC600-1-NF8 15K	Nipple W/O Check Valve X 1/2" NPT Female	15,000 psi
SPC600-1-MP4 20K	Nipple W/O Check Valve X 1/4" MP Male	20,000 psi
SPC600-1-MP6 20K	Nipple W/O Check Valve X 3/8" MP Male	20,000 psi
SPC600-1-MP9 20K	Nipple W/O Check Valve X 9/16" MP Male	20,000 psi
SPC600-1-HP4 30K	Nipple W/O Check Valve X 1/4" HP Male	30,000 psi
SPC600-1-HP6 30K	Nipple W/O Check Valve X 3/8" HP Male	30,000 psi
SPC600-1-HP9 30K	Nipple W/O Check Valve X 9/16" HP Male	30,000 psi
SPC600-1-X13 30K	Nipple W/O Check Valve X Low Angle Male	30,000 psi

# **SPiR STAR**<sup>®</sup>

## Two Way Straight Pressure Ball Valves



### **SPECIFICATIONS**

Working Pressure : Up to 60,000 psi  
Standard Connections : 1/8", 1/4", 3/8", 1/2",  
3/4" & 1" NPT  
1/4", 3/8", 9/16", 3/4"  
& 1" MP  
1/4", 3/8", & 9/16" HP

### **TYPICAL APPLICATIONS**

- Critical service process isolation
- Sour Gas
- Hydraulic process fluids
- Automated service with actuator

### **TYPICAL MATERIALS**

- 316 cold-worked stainless steel
- Glass-filled Teflon packing
- Fiber-reinforced PEEK seats
- Viton seals
- Nitronic 60 bearings



### Two Way Straight Pressure Ball Valves - 10K

Part No.	Description	Max Working Pressure
VBNF4 10K	1/4" NPT Female Two Way Straight Ball Valve	10,000 psi
VBNF6 10K	3/8" NPT Female Two Way Straight Ball Valve	10,000 psi
VBNF8 10K	1/2" NPT Female Two Way Straight Ball Valve	10,000 psi
VBNF12 10K	3/4" NPT Female Two Way Straight Ball Valve	10,000 psi
VBNF16 10K	1" NPT Female Two Way Straight Ball Valve	10,000 psi



### Two Way Straight Pressure Ball Valves - 15K

Part No.	Description	Max Working Pressure
VBNF2 15K	1/8" NPT Female Two Way Straight Ball Valve	15,000 psi
VBNF4 15K	1/4" NPT Female Two Way Straight Ball Valve	15,000 psi
VBNF6 15K	3/8" NPT Female Two Way Straight Ball Valve	15,000 psi
VBNF8 15K	1/2" NPT Female Two Way Straight Ball Valve	15,000 psi



### Two Way Straight Pressure Ball Valves - 20K

Part No.	Description	Max Working Pressure
VBMF4 20K	1/4" MP Female Two Way Straight Ball Valve	20,000 psi
VBMF6 20K	3/8" MP Female Two Way Straight Ball Valve	20,000 psi
VBMF9 20K	9/16" MP Female Two Way Straight Ball Valve	20,000 psi
VBMF12 20K	3/4" MP Female Two Way Straight Ball Valve	20,000 psi
VBMF16 20K	1" MP Female Two Way Straight Ball Valve	20,000 psi

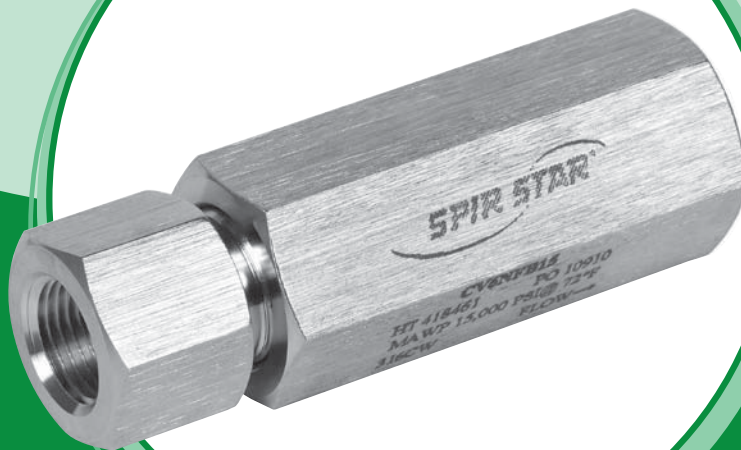


### Two Way Straight Pressure Ball Valves - 60K

Part No.	Description	Max Working Pressure
VBHF4 60K	1/4" HP Female Two Way Straight Ball Valve	60,000 psi
VBHF6 60K	3/8" HP Female Two Way Straight Ball Valve	60,000 psi
VBHF9 60K	9/16" HP Female Two Way Straight Ball Valve	60,000 psi

# **SPiR STAR**<sup>®</sup>

## Two Way Straight Pipe Check Valves



### **SPECIFICATIONS**

Working Pressure : Up to 60,000 psi  
Standard Connections : 1/8", 1/4", 3/8", 1/2",  
3/4" & 1" NPT  
1/4", 3/8", 9/16", 3/4"  
& 1" MP  
1/4", 3/8", & 9/16" HP

### **TYPICAL APPLICATIONS**

- Gas
- Liquid
- Fluid handling for the chemical/ petrochemical, research and oil & gas industries.

### **TYPICAL MATERIALS**

- 316 stainless steel



## Two Way Straight Pipe Check Valves - 10K

Part No.	Description	Max Working Pressure
VCNF2 10K	1/8" NPT Female Two Way Check Valve	10,000 psi
VCNF4 10K	1/4" NPT Female Two Way Check Valve	10,000 psi
VCNF6 10K	3/8" NPT Female Two Way Check Valve	10,000 psi
VCNF8 10K	1/2" NPT Female Two Way Check Valve	10,000 psi
VCNF12 10K	3/4" NPT Female Two Way Check Valve	10,000 psi
VCNF16 10K	1" NPT Female Two Way Check Valve	10,000 psi



## Two Way Straight Pipe Check Valves - 15K

Part No.	Description	Max Working Pressure
VCNF2 15K	1/8" NPT Female Two Way Check Valve	15,000 psi
VCNF4 15K	1/4" NPT Female Two Way Check Valve	15,000 psi
VCNF6 15K	3/8" NPT Female Two Way Check Valve	15,000 psi
VCNF8 15K	1/2" NPT Female Two Way Check Valve	15,000 psi



## Two Way Straight Pipe Check Valves - 20K

Part No.	Description	Max Working Pressure
VCMF4 20K	1/4" MP Female Two Way Check Valve	20,000 psi
VCMF6 20K	3/8" MP Female Two Way Check Valve	20,000 psi
VCMF9 20K	9/16" MP Female Two Way Check Valve	20,000 psi
VCMF12 20K	3/4" MP Female Two Way Check Valve	20,000 psi
VCMF16 20K	1" MP Female Two Way Check Valve	20,000 psi



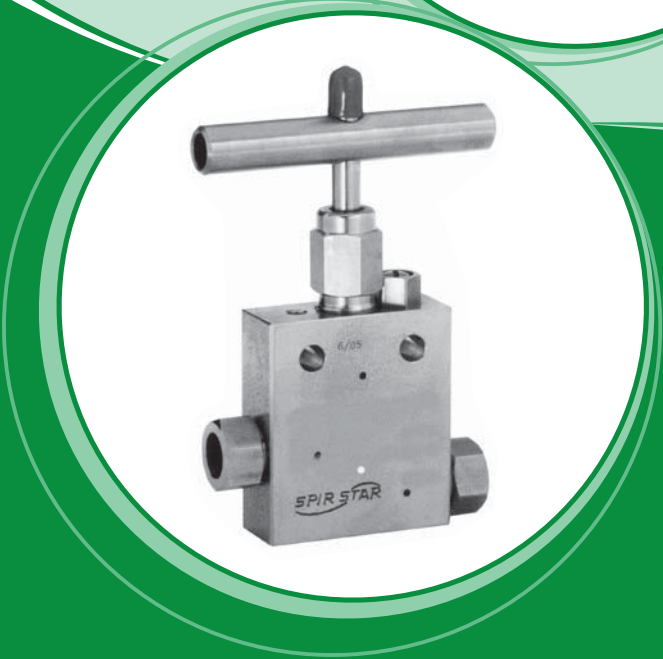
## Two Way Straight Pipe Check Valves - 60K

Part No.	Description	Max Working Pressure
VCHF4 60K	1/4" HP Female Two Way Check Valve	60,000 psi
VCHF6 60K	3/8" HP Female Two Way Check Valve	60,000 psi
VCHF9 60K	9/16" HP Female Two Way Check Valve	60,000 psi



# Two Way Needle Valves

**SPIR STAR** offers a large variety of needle valves with several thread variations and working pressures up to 60,000 psi.



**N**  
Two Way  
Needle Valves





### Two Way Straight Needle Valves - 10K

Part No.	Description	Max Working Pressure
VNF4 10K	1/4" NPT Female Two Way Straight Needle Valve	10,000 psi
VNF6 10K	3/8" NPT Female Two Way Straight Needle Valve	10,000 psi
VNF8 10K	1/2" NPT Female Two Way Straight Needle Valve	10,000 psi
VNF12 10K	3/4" NPT Female Two Way Straight Needle Valve	10,000 psi
VNF16 10K	1" NPT Female Two Way Straight Needle Valve	10,000 psi



### Two Way Straight Needle Valves - 15K

Part No.	Description	Max Working Pressure
VNF2 15K	1/8" NPT Female Two Way Straight Needle Valve	15,000 psi
VNF4 15K	1/4" NPT Female Two Way Straight Needle Valve	15,000 psi
VNF6 15K	3/8" NPT Female Two Way Straight Needle Valve	15,000 psi
VNF8 15K	1/2" NPT Female Two Way Straight Needle Valve	15,000 psi
VNF8NM8 15K	1/2" NPT Female x 1/2" NPT Male Two Way Straight Needle Valve	15,000 psi



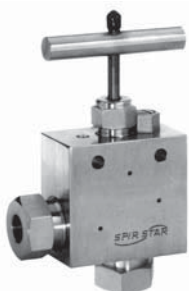
### Two Way Straight Needle Valves - 20K

Part No.	Description	Max Working Pressure
VMF4 20K	1/4" MP Female Two Way Straight Needle Valve	20,000 psi
VMF6 20K	3/8" MP Female Two Way Straight Needle Valve	20,000 psi
VMF9 20K	9/16" MP Female Two Way Straight Needle Valve	20,000 psi
VMF12 20K	3/4" MP Female Two Way Straight Needle Valve	20,000 psi
VMF16 20K	1" MP Female Two Way Straight Needle Valve	20,000 psi



### Two Way Straight Needle Valves - 30K to 60K

Part No.	Description	Max Working Pressure
VHF4 30K	1/4" HP Female Two Way Straight Needle Valve	30,000 psi
VHF6 30K	3/8" HP Female Two Way Straight Needle Valve	30,000 psi
VHF9 30K	9/16" HP Female Two Way Straight Needle Valve	30,000 psi
VHF4 60K	1/4" HP Female Two Way Straight Needle Valve	60,000 psi
VHF6 60K	3/8" HP Female Two Way Straight Needle Valve	60,000 psi
VHF9 60K	9/16" HP Female Two Way Straight Needle Valve	60,000 psi



### Two Way Angle Needle Valves - 15K to 20K

Part No.	Description	Max Working Pressure
VNF4-90° 15K	1/4" NPT Female Two Way 90° Angle Needle Valve	15,000 psi
VMF4-90° 20K	1/4" MP Female Two Way 90° Angle Needle Valve	20,000 psi
VMF6-90° 20K	3/8" MP Female Two Way 90° Angle Needle Valve	20,000 psi

# SPiR STAR®

## Pressure Gauges

**SPiR STAR** Pressure Gauge comes in two sizes. PG available in 4" and 6". Pressure range from 0 ~ 60,000 psi.



### Bottom Connection

Part No.	Description	Max Working Pressure
4PG200-0-G8	4" 0 - 200Mpa, G1/2"	2,000 bar
4PG250-0-G8	4" 0 - 250Mpa, G1/2"	2,500 bar
4PG300-0-G8	4" 0 - 300Mpa, G1/2"	3,000 bar
6PG160-0-G8	6" 0 - 160Mpa, G1/2"	1,600 bar
6PG200-0-16	6" 0 - 200Mpa, M16 Female 60° Cone	2,000 bar
6PG250-0-16	6" 0 - 250Mpa, M16 Female 60° Cone	2,500 bar
6PG300-0-16	6" 0 - 300Mpa, M16 Female 60° Cone	3,000 bar
6PG400-0-16	6" 0 - 400Mpa, M16 Female 60° Cone	4,000 bar
6PG250-0-9	6" 0 - 250Mpa, HP9 Female 60° Cone	2,500 bar
6PG300-0-9	6" 0 - 300Mpa, HP9 Female 60° Cone	3,000 bar
6PG400-0-9	6" 0 - 400Mpa, HP9 Female 60° Cone	4,000 bar

### Back Connection

Part No.	Description	Max Working Pressure
4PG200-3-G8	4" 0 - 200Mpa, G1/2"	2,000 bar
4PG250-3-G8	4" 0 - 250Mpa, G1/2"	2,500 bar
4PG300-3-G8	4" 0 - 300Mpa, G1/2"	3,000 bar
4PG400-3-16	4" 0 - 400Mpa, M16	4,000 bar
6PG160-3-G8	4" 0 - 160Mpa, G1/2"	1,600 bar
6PG400-3-16	6" 0 - 400Mpa, M16	4,000 bar

**Inner Back Cover  
(Blank)**

## Companies

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### **ASIA**

#### **SPIR STAR ASIA PTE LTD.**

No. 5 Kian Teck Way,  
Singapore 628733  
Phone : +65 6-264 3881  
Fax : +65 6-264 1165  
E-mail : [spirstar@singnet.com.sg](mailto:spirstar@singnet.com.sg)  
Web : [www.spirstarasia.com](http://www.spirstarasia.com)

### **Germany**

#### **SPIR STAR Druckschläuche AG**

Headquarter  
Auf der Rut 3,  
64668 Rimbach (Mitlechtern)  
Phone : +49 (0) 6253-9889-0  
Fax : +49 (0) 6253-9889-33  
E-mail : [info@spirstar.de](mailto:info@spirstar.de)  
Web : [www.spirstar.de](http://www.spirstar.de)

### **France**

#### **SPIR STAR France**

6, rue Clément Ader,  
ZA de l' Aérodrome  
67500 Haguenau  
Phone : +33 (0) 388-9322 23  
Fax : +33 (0) 388-9322 24  
E-mail : [spirstar@spirstar.fr](mailto:spirstar@spirstar.fr)  
Web : [www.spirstar.fr](http://www.spirstar.fr)

### **USA**

#### **SPIR STAR, LTD.**

10002 Sam Houston Center Dr.,  
77064 Houston, Texas  
Phone : +1 (1) 281-664-7800  
Fax : +1 (1) 281-664-7850  
E-mail : [spirstar@spirstar.com](mailto:spirstar@spirstar.com)  
Web : [www.spirstar.com](http://www.spirstar.com)