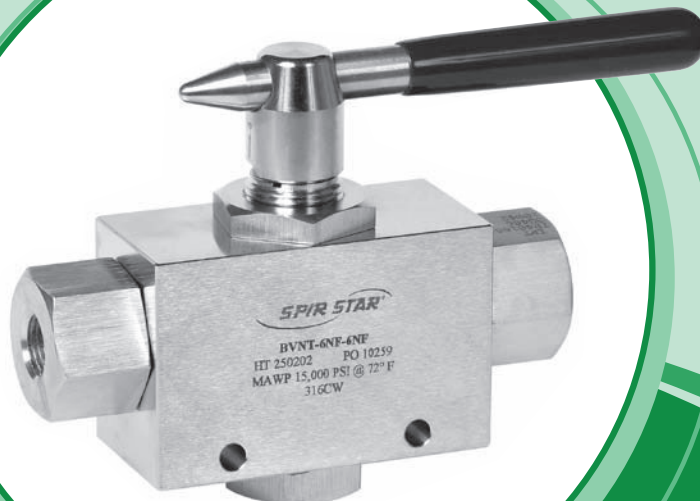


SPiR STAR[®]

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

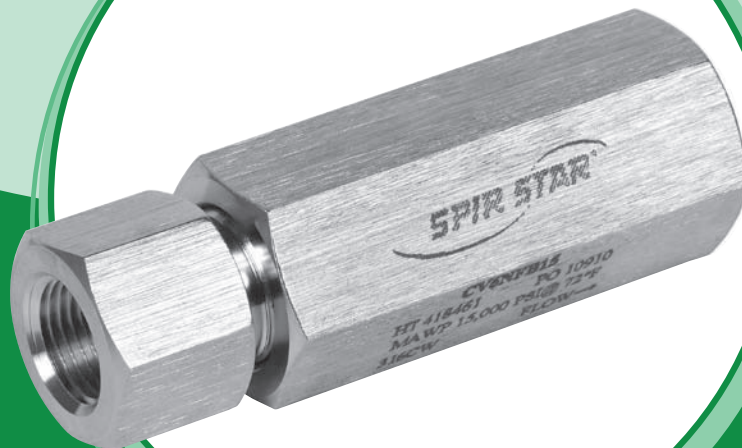


Two Way Straight Pressure Ball Valves - 60K

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[®]

Two Way Straight Pipe Check Valves



SPECIFICATIONS

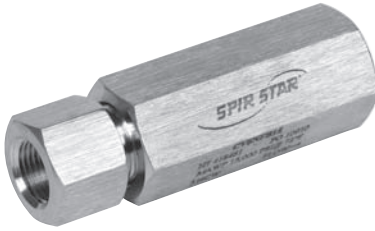
Working Pressure : Up to 60,000 psi
Standard Connections : 1/8", 1/4", 3/8", 1/2",
3/4" & 1" NPT
1/4", 3/8", 9/16", 3/4"
& 1" MP
1/4", 3/8", & 9/16" HP

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



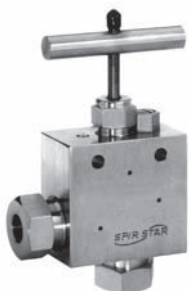
Two Way Straight Needle Valves - 20K

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