



**ZSPEC®**

**FLOW CONTROL**

VALVES & FITTINGS

OILFIELD | MARINE | INDUSTRIAL | AGRICULTURE

**ZSPEC®**  
**CATALOG**

**ZSPEC®**  
FLOW CONTROL



## VALVES & FITTINGS

OILFIELD | MARINE | INDUSTRIAL | AGRICULTURE

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## COMPANY OVERVIEW

ZSPEC® FLOW CONTROL - VALVES & FITTINGS

**Z**spec Flow Control, based out of Houston, Texas, supplies top-quality valves and fittings to distributors throughout the United States.

We are guided by a singular determination to do whatever it takes to be a reliable supplier for our customers with our ready-to-ship inventory.



**VALVES & FITTINGS**



### EXPERIENCE

Our people have decades of industry experience, and they bring that knowledge to bear in service to you.



### QUALITY

The best valves and fittings from the best manufacturers ensure your customers will always be happy with the product.



### SUPPORT

We're here for you when you need us, fulfilling your orders and solving your supply problems.



**ZSPEC® Flow Control** – A top-quality valves and fittings supplier serving distributors in the oil field, industrial, marine and agricultural industries.

VALVES & FITTINGS

You can learn more about our **ZSPEC®** product offerings in the corresponding product catalog and at our website, **[www.zspec.com](http://www.zspec.com)**.



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## RESILIENT SEATED BUTTERFLY VALVES



### BW Series Butterfly Valve

Wafer Style w/ Guide Holes,  
Long Neck Design  
200 PSI NSCWP  
Sizes: 2" thru 20"  
*(larger diameters are available)*



### BL Series Butterfly Valve

Lug Style Valve,  
Long Neck Design  
200 PSI NSCWP  
Sizes: 2" thru 24"  
*(larger diameters are available)*



### RL Series Butterfly Valve

Lug Style Valve,  
2-pc Stem Design  
200 PSI NSCWP  
Sizes: 2" thru 12"



### RRW Series Butterfly Valve

Round Wafer Style,  
Long Neck Design  
200 PSI NSCWP  
Sizes: 2" thru 12"



### RNW Series w/ Square Stem

Notched Body Wafer Style,  
Short Neck Design, Square Stem  
200 PSI NSCWP  
Sizes: 2" thru 12"



### RNW Series Butterfly Valve

Notched Body Wafer Style,  
Short Neck Design  
200 PSI NSCWP  
Sizes: 2" thru 12"



### RNW Teflon Series Butterfly Valve

Notched Body Wafer Style,  
Short Neck Design  
150 PSI NSCWP  
Sizes: 2", 3", 4", 6"



### Stem Extension for Butterfly Valves

Stem Extensions are available  
for all Butterfly Valves. Standard  
lengths are 2 ft and 4 ft.



### RNW6BT Series Butterfly Valve

6 Bolt Notched Body Wafer Style,  
Short Neck Design, Square Stem  
200 PSI NSCWP  
Sizes: 3", 4", 5"



### Gear Op for Butterfly Valves

Gear Operators are available for  
all butterfly valves.



### T Series Threaded End Butterfly Valve

200 PSI NSCWP  
Sizes: 2", 3", 4", 6"



### Pneumatic Actuators

Direct Mount Pneumatic Actua-  
tors are available for all butterfly  
valves.  
Sizes: 2" thru 12"



### G Series Grooved End Butterfly Valve

200 PSI NSCWP  
Sizes: 2" thru 12"



### Handle for Butterfly Valves

All butterfly valves come standard  
with handles, however spare  
handles may be purchased.  
*They are available for DD and Square  
stemmed valves.*



## HIGH PERFORMANCE BUTTERFLY VALVES



### HP Series High Performance Butterfly Valve

Lug Style Valve, CF8M Body and Disc  
Classes: 150, 300  
Sizes: 3" thru 24"

## GATE VALVES



### BGV Series Brass Gate Valve

FNPT Ends  
200 PSI NSCWP  
Sizes: 3/8" thru 4"



### QL Series Quick Lever Brass Gate Valve

FNPT Ends  
Sizes: 2", 3", 4", 6"

**ZSPEC® Flow Control** – A top quality valves and fittings supplier serving distributors in the oil field, industrial, marine and agricultural industries.

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## CHECK VALVES



### BCV Series 200 PSI Brass Check Valve

FNPT Ends,  
200 PSI NSCWP  
Sizes: 3/8" thru 4"



### BCVR Series 300 PSI Brass O Ring Style

FNPT Ends, Clapper O ring  
300 PSI NSCWP  
Sizes: 1", 2", 3", 4"



### BCVRG Series 300 PSI Grooved End Brass O Ring Style Check Valve

Grooved Ends, Clapper O Ring  
300 PSI NSCWP  
Sizes: 2", 3", 4"



### D Series Ductile Iron Swing Check Valve

NACE MR0175, FNPT Ends  
Available Pressures: 300, 600, 750,  
1,000, 1,500 & 2,000 PSI NSCWP  
Sizes: 1", 2", 2-1/2", 3", 4"



### C Series WCB Swing Check Valve

NACE MR0175, FNPT Ends  
2,160, 3,000 & 5,000 PSI NSCWP  
Sizes: 1", 2", 3"



### ICV Series 316SS Inline Check Valve

MNPT x FNPT or FNPT x FNPT Ends  
Viton O Ring  
6,000 or 10,000 PSI NSCWP  
Sizes: 1/8", 1/4", 1/2", 3/4", 1"



### 1000# CF8M Swing Check Valve

1000# CF8M Swing Check Valve  
FNPT Ends  
1,000 PSI NSCWP  
Sizes: 1/2" thru 4"



### ICV Series Brass Inline Check Valve

MNPT x FNPT Ends  
Viton O Ring  
3,000 PSI NSCWP  
Sizes: 1/8", 1/4", 1/2", 3/4", 1"



### Ductile Iron Ball Type Check Valve

NACE MR0175  
FNPT Ends  
Viton Seat, 316SS Ball  
2,000 PSI NSCWP  
Sizes: 1", 2"



### CF8M Ball Type Check Valve

NACE MR0175  
FNPT Ends  
Viton Seat, 316SS Ball  
2,000, 3,000 & 5,000 PSI NSCWP  
Sizes: 1", 2"



### WCB Ball Type Check Valve

NACE MR0175  
FNPT Ends  
Viton Seat, 316SS Ball  
2,000, 3,000 & 5,000 PSI NSCWP  
Sizes: 1", 2"

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## BALL VALVES



### BBV Series Brass Ball Valve

Full Port,  
FNPT Ends,  
Locking Device Handle  
600 PSI NSCWP  
Sizes: 1/4" thru 4"



### BBVH Series Heavy Duty Brass Ball Valve

Heavy Weight Body, Full Port, FNPT Ends,  
Locking Device Handle  
600 PSI NSCWP  
Sizes: 1", 2", 2-1/2", 3", 4"



### 1000 Series Oilfield Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
1,000 PSI NSCWP  
Sizes: 1" FP, 2" RP, 2" FP, 3" RP,  
3" FP, 4" RP



### 1500 Series Oilfield Ball Valve

NACE MR0175,  
FNPT Ends,  
Locking Device Handle  
1,500 PSI NSCWP  
Sizes: 1" FP, 2" RP



### 2000 Series Oilfield Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
2,000 PSI NSCWP  
Sizes: 1" FP, 2" RP, 2" FP, 2-1/2" FP,  
3" RP, 3" FP, 4" RP, 4" FP



### 3000 Series Oilfield Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
3,000 PSI NSCWP  
Sizes: 1" FP, 2" RP, 2" FP, 2-1/2" FP,  
3" FP, 4" FP



### 3600 Series Oilfield Ball Valve

NACE MR0175,  
EUE 8Rnd Ends,  
Locking Device Handle  
3,600 PSI NSCWP  
Sizes: 2-3/8, 2-7/8



### 5000 Series Oilfield Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
5,000 PSI NSCWP  
Sizes: 1" FP, 2" RP, 2" FP, 2-1/2" FP, 3" FP



### 1000 Series Non-Freeze Ball Valve

NACE MR0175, FNPT Ends,  
Reduced Port  
1,000 PSI NSCWP  
Sizes: 2", 3", 4"



### 1500 Series Bolted Body Ball Valve

NACE MRO175, FNPT Ends,  
Locking Device Handle  
1,500 PSI NSCWP  
Sizes: 2.5" FP



### 2000 Series Bolted Body Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
2,000 PSI NSCWP  
Sizes: 1" FP, 2" FP



### 3000 Series Bolted Body Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
3,000 PSI NSCWP  
Sizes: 2" FP, 2" RP



### BS2K Series Barstock Ball Valve

NACE MR0175, B16.34 Design,  
FNPT Ends, RP  
Standard Non Locking Handle  
2,000 PSI NSCWP  
Sizes: 1/4" thru 2"



### 5000 Series Bolted Body Ball Valve

NACE MR0175, FNPT Ends,  
Locking Device Handle  
5,000 PSI NSCWP  
Sizes: 2" FP, 2" RP, 3" FP, 4" FP

## BALL VALVES



### CS2K Series Seal Welded WCB Ball Valve

NACE MR0175, Full Port, FNPT Ends,  
Locking Device Handle  
2,000 PSI NSCP  
Sizes: 1/4" thru 2"



### CS1K Series Seal Welded WCB Ball Valve

NACE MR0175, Full Port, FNPT Ends,  
Locking Device Handle  
1,000 PSI NSCP  
Sizes: 2-1/2", 3", 4"



### CS3K Series WCB Seal Welded Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, Full Port, FNPT Ends,  
Locking Device Handle  
3,000 PSI NSCP  
Sizes: 1/4" thru 2"



### SS1K Series Seal Welded CF8M Ball Valve

NACE MR0175, Full Port, FNPT Ends,  
Locking Device Handle  
1,000 PSI NSCP  
Sizes: 2-1/2", 3", 4"



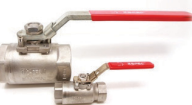
### SSR1K Series Reduced Port CF8M Ball Valve

Reduced Port, FNPT Ends,  
Locking Device Handle  
1,000 PSI NSCP  
Sizes: 1/4" thru 2"



### SS3K Series CF8M Seal Welded Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, Full Port, FNPT Ends,  
Locking Device Handle  
3,000 PSI NSCP  
Sizes: 1/4" thru 2"



### SS6K Series CF8M Seal Welded Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, Full Port up to 1-1/2" size,  
FNPT Ends, Locking Device Handle  
6,000 PSI NSCP  
Sizes: 1/4" thru 2"



### BS2K-L Series Barstock Ball Valve

NACE MR0175, B16.34 Design,  
FNPT Ends, RP  
Locking Device Handle  
2,000 PSI NSCP  
Sizes: 1/4" thru 2"



### CS6K Series WCB Seal Welded Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, Full Port up to 1-1/2" size,  
FNPT Ends, Locking Device Handle  
6,000 PSI NSCP  
Sizes: 1/4" thru 2"



### SS2K Series Seal Welded CF8M Ball Valve

NACE MR0175, Full Port, FNPT Ends  
Locking Device Handle  
2,000 PSI NSCP  
Sizes: 1/4" thru 4"



### BVT Series CF8M Bolted Body Ball Valve

NACE MR0175, Full Port, FNPT Ends,  
3 Piece, Locking Device Handle  
1,000 PSI NSCP  
Sizes: 1", 2"



### SS2K Series Seal Welded CF8M (MXF)

NACE MR0175, Full Port,  
MNPT X FNPT Ends  
Locking Device Handle  
2,000 PSI NSCP  
Sizes: 1/4", 1/2"



### BVICS Series WCB Isolator Ball Valve

NACE MR0175,  
Full Port,  
Locking Device Handles  
1": 2,000 PSI NSCP  
2": 1,500 PSI NSCP



### GVB Series Grooved End Ball Valve

NACE MR0175,  
Grooved Ends, Reduced Port  
2" thru 4": 1,000 PSI NSCP  
6": 1,500 PSI NSCP  
Sizes: 2", 3", 4", 6"

## BALL VALVES



### **BVISS Series CF8M Isolator Ball Valve**

NACE MR0175, Full Port,  
Locking Device Handles  
1": 2,000 PSI NSCWP  
2": 1,500 PSI NSCWP



### **SR Series CF8M Spring Return Handle Type**

NACE MR0175,  
FNPT Ends, Full Port  
1/4"-1": 2,000 PSI NSCWP  
1-1/4"-2": 1,500 PSI NSCWP



### **SR Series WCB Spring Return Handle Type**

NACE MR0175,  
FNPT Ends, Full Port  
1/4"-1": 2,000 PSI NSCWP  
1-1/4"-2": 1,500 PSI NSCWP



### **BVZ Series Socket Weld Ball Valve**

NACE MR0175, Firesafe to API607,  
Full Port, Socket Weld Ends,  
3,000 PSI NSCWP  
Sizes: 1/2" thru 1"



### **BVZ Series Threaded Ball Valve**

NACE MR0175, Firesafe to API607,  
Full Port, FNPT Ends,  
3,000 PSI NSCWP  
Sizes: 1/2" thru 2"

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## FLANGED END BALL VALVES



### WCB Flanged End Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, API6D, Raised Face  
Full Port and Reduced Port  
Classes: 150, 300, 600  
Sizes: 2" thru 6"



### CF8M Flanged End Ball Valve

NACE MR0175, Firesafe to API607,  
B16.34, API6D, Raised Face  
Full Port and Reduced Port  
Classes: 150, 300, 600  
Sizes: 2" thru 6"

## NON-FREEZE TANK VALVES



### Non-Freeze Tank Valve

150 PSI NSCWP  
Sizes: 2", 3"

## BULL PLUGS



### A234 WPB Bull Plugs

Sizes: 1/8" thru 8"  
STD, XH, XXH

## SWAGE NIPPLES



### A234 WPB Swage Nipples

Diameters: 1/8" thru 10"  
STD, XH, XXH



### Bevel x Thread A234 WPB Swage Nipples

Diameters: 2" thru 6"  
STD, XH

## SEAMLESS NIPPLES



### S40, S80 and XXH A106 Seamless Nipples

Diameters: 1/4" thru 6"  
Lengths: CL thru 12"



### S80 316SS Seamless Nipples

Diameters: 1/4" thru 4"  
Lengths: CL thru 12"



## NEEDLE VALVES



### NV Series Needle Valve

Types: Standard or Mini  
FNPT x FNPT or MNPT x FNPT  
6,000 PSI NSCWP or 10,000 PSI NSCWP  
Materials: A105 or 316SS  
Sizes: 1/4", 1/2", 3/4", 1"



### A Series Angle Needle Valve

NACE MR0175  
MNPT x FNPT  
6,000 or 10,000 PSI NSCWP  
Materials: A105 or 316SS  
Sizes: 1/4", 1/2"



### R Series Reducing Needle Valve

NACE MR0175  
1/2" MNPT x 1/4" FNPT  
6,000 PSI NSCWP  
Material: 316SS



### M Series Multiport Gauge Needle Valve

NACE MR0175  
MNPT x FNPT  
10,000 PSI NSCWP  
Material: 316SS  
Size: 1/2"

## SWIVEL JOINTS



### Code Silver Swivel Joints

FNPT Ends, Figure 602  
6,000 PSI NSCWP  
Sizes: 1", 1-1/4", 1-1/2", 2", 3"  
Styles: 10, 20, 30, 50, 60



### Code Silver Swivel Joint Repair Kit

Each kit repairs one turn.  
Includes all parts including the grease fitting.  
Sizes: 1", 1-1/4", 1-1/2", 2", 3"



### Code Red Swivel Joints

1502 Ends, Long Radius  
15,000 PSI NSCWP  
1502 Male x Female  
1502 Male x Male  
Sizes: 2", 3"  
Styles: 10, 50



### Code Red Swivel Joint Repair Kit

Sizes: 2", 3"

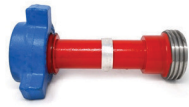
## EXPANSION JOINTS



### Style 101 150# Expansion Joint

Nitrile with Neoprene Cover  
225 PSI NSCWP  
Sizes: 2" thru 12"

## PUP JOINTS



### 1502 NPS Pup Joints

15,000 PSI NSCWP  
Size: 2", 3"  
Lengths from 6" up to 15 ft.

## BOLTED SLEEVE COUPLINGS



### Bolted Sleeve Coupling

Diameters: 1" thru 16"  
Lengths: 5", 7", 12", 16", 24"



### Spare Parts for Bolted Sleeve Couplings

Bolts: 5/8 x 8, 5/8 x 11, 5/8 x 15, 5/8 x 19, 5/8 x 27  
Gaskets: 1" thru 16" available in Nitrile Rubber

## CHOKES



### 1502 Adjustable Choke

15,000 PSI NSCWP  
Size: 2"



### ZN60 Adjustable Choke

5,000 PSI NSCWP  
Size: 2"  
Trims: 3/4" or 1"  
Trim Materials: Hardened Steel or SS + Tungsten Carbide



### ZN60 Positive Choke

5,000 PSI NSCWP  
Size: 2"



### ZN62 Adjustable Choke

5,000 PSI NSCWP  
Size: 2-1/16"  
Trims: 3/4" or 1"  
Trim Materials: Hardened Steel or SS + Tungsten Carbide



### Z63 Adjustable Choke

3,000 PSI NSCWP  
Size: 3"  
Trim: 2"  
Trim Materials: Hardened Steel or SS + Tungsten Carbide



### Z65 Adjustable Choke

5,000 PSI NSCWP  
Size: 3"  
Trim: 2"  
Trim Materials: Hardened Steel or SS + Tungsten Carbide

## CROSSOVERS



### 1502 Female x Male EUE Crossover

1502 Female x 2-3/8 Male EUE or 1502 Female x 2-7/8 Male EUE  
10,000 PSI NSCWP  
Sizes: 2"



### 1502 Female x Female Crossover

15,000 PSI NSCWP  
Sizes: 2", 3"



### 1502 Female x MNPT Crossover

10,000 PSI NSCWP  
Sizes: 2"



### 1502 Male x Male EUE Crossover

1502 Male x 2-3/8 Male EUE or 1502 Male x 2-7/8 Male EUE  
10,000 PSI NSCWP  
Size: 2"



### 2" 1502 Female x 3 1/2" EUE Crossover

10,000 PSI NSCWP



### 1502 Male x Male Crossover

15,000 PSI NSCWP  
Sizes: 2"



### 1502 Male x Female Crossover

15,000 PSI NSCWP  
Sizes: 2", 3"



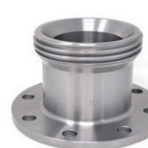
### 3" 1502 Female x 2" 1502 Male Crossover

15,000 PSI NSCWP



### 1502 Male x MNPT Crossover

10,000 PSI NSCWP  
Size: 2"



### 4" Fig 200 Fem x 150 Pattern Flange Crossover

Available in 3" and 5-1/8"  
Face to Face Dimensions



### 3" 1502 Male x 2" 1502 Female Crossover

15,000 PSI NSCWP



### Flange Adapter Assembly

4" FIG. 200 2-PC Nut  
4" FIG. 206 Male x 150 Pattern  
Flange Adapter  
4" Plug (handle type)  
Chain Assembly

## FLANGE CROSSOVER & ADAPTERS



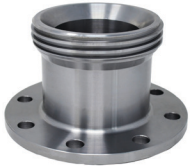
### Female Flange Crossover

1-13/16" 10K X 2" 1502 Female  
2-1/16" 10K X 2" 1502 Female  
2-1/16" 5K X 2" 1502 Female  
2-9/16" 10K X 2" 1502 Female  
3-1/8" 5K X 2" 1502 Female



### Male Flange Crossover

2-1/16" 10K X 2" 1502 Male  
2-1/16" 5K X 2" 1502 Male  
2-9/16" 10K X 2" 1502 Male



### Female Flange Adapters

4" Fig. 200 Female X 125 Pattern Flange  
4" Fig. 200 Female X 150 Pattern Flange  
4" Fig. 200 Female X 150 Pattern Flange  
- Long Pattern  
6" Fig. 200 Female X 150 Pattern Flange



### Male Flange Adapters

4" Fig. 206 Male x 150 Pattern Flange  
4" Fig. 206 Male x 150 Pattern Flange  
- Long Pattern  
6" Fig. 206 Male x 150 Pattern Flange

## BULLDOG TANK UNIONS



### Air Grip Unions

Sizes: 4" thru 16"



ZSPEC® is an authorized distributor  
of Bulldog Tank Unions



### Frac Tank Unions

Sizes: 6", 8"  
Male Socket Weld Sub with Nut



### Frac Plug

Sizes: 6", 8"



### Mud Tank Unions

Sizes: 3" thru 16"



### Frac Nipple

Sizes: 6" 8"



## PLUG VALVES



**ZSPEC®** plug valves and parts are interchangeable with major brands of LT style plug valves. The valves and the replaceable components (plug, inserts, seal kits) have been engineered for maximum durability and usability.

### STANDARD SERVICE

SIZE	PART #	END CONNECTION	NSCWP	END TO END DIMENSION
1X1	ZH0028	1502	15,000 psi	10.56"
1X2	ZH0023	1502	15,000 psi	10.56"
2X2	ZH0006	1502	15,000 psi	13.88"
2X2	ZH0032	FNPT	10,000 psi	9.50"
3X3	ZH0055	1502	15,000 psi	17.00"
3X3 with Gear Operator	ZH0055G	1502	15,000 psi	17.00"

### H2S SERVICE

SIZE	PART #	END CONNECTION	NSCWP	END TO END DIMENSION
1X2	ZH0118	1502	10,000 PSI	10.56"
2X2	ZH0109	1502	10,000 PSI	13.88"
3X3	ZH0016	1502	10,000 PSI	17.00"
3X3 with Gear Operator	ZH0016G	1502	10,000 PSI	17.00"



### Plug Valve Repair Kit





















**ZSPEC®** plug valve repair kits include plug, seals & inserts.

Sizes: 1", 2", 3"

## HAMMER UNIONS



**ZSPEC®** Hammer Unions are manufactured from high quality forgings and castings. The figure appropriate materials are selected for each respective figure number. Threaded and Butt Weld end connections are both readily available. Material traceability and MTRS are available on all hammer unions.

Figure No.	Color Code		NON-SHOCK COLD WORKING PRESSURE RATING (PSI)		Nominal Pipe Size (in inches)												
			STANDARD SERVICE														
	NSCWP	TEST	.5"	1"	1.25"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	10"	12"		
100		Yellow/Black	1000	1500					●	●	●	●	●	●	●		
100H		Gray /Black	400	600							●						
110		Burnt Orange/ Burnt Orange	2500	3750					●								
110		Brown/Brown	4000	6000					●		●						
200		Gray/Blue	2000	3000		●	●	●	●	●	●	●		●	●	●	
201		Gray/Beige	3000	4000					●	●							
206		Gray/Blue	2000	3000		●	●	●	●	●	●	●		●	●	●	
206H		Gray/Blue	400	600							●			●	●		
207		Gray/Blue	2000	3000					●		●	●		●	● cap only		
211		Blue/Gray	2000	3000					●		●						
300		Light Orange/ Gray	2000	3000	●	●			●								
301		Gray/Gray	3000	4500		●			●								
OCT		Gray/Gray	3000	4500		●			●								
400		Maroon/Black	4000	6000					●		●	●				◆	
402		Black/Black	4000	6000					●								
G		Silver/Orange	6000	9000				●	●								
602		Orange/Black	6000	9000		●		●	●	●	●	●					
1002		Blue/Red	10000	15000		●		●	●		●	●	◆	◆			
1003		Green/Black	7500	11250							●	●	●				
1502		Red/Blue	15000	22500		●		●	●	●	●	●	●				

◆ indicates a reduction in working pressure as listed:

12" Fig 400: NSCWP = 2500 psi (3750 psi test)  
5" Fig 1002 Threaded: NSCWP = 5000psi (7500 psi test)

5" Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test)  
6" Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test)



### WARNINGS ON HAMMER UNIONS AND PRODUCTS THAT HAVE HAMMER UNION END CONNECTIONS

When installing and handling any pressure containing products, personnel must be qualified and properly trained on the safe installation and use of the products. Our products are designed and qualified to meet industry standards and it is the user's responsibility in making the appropriate selection of products through any required design and/or analysis of the user's requirements so that the products will not pose any health or safety hazards. Failure to adhere to the warnings listed on this form may result in personal injury or death. Never strike, impact, tighten or loosen pressurized unions or connections.

Complete and proper make-up of union components is required to attain rated working pressure.

Always pay special attention during the make-up process to ensure that this is achieved.

Never use products that have been damaged or deteriorated or corroded.

Never exceed the rated working pressure of the union or connection.

Never assemble union components that are not identical in size, figure and pressure rating.

Should leakage be detected, take the appropriate steps to assure that the piping system is completely depressurized and any remaining fluid is removed and properly disposed of, then proceed to remove the affected component(s) from service and permanently dispose of the affected component(s).

For overhead installations, follow safe practices with consideration of the combined weight of all components, piping and contained fluids when sizing the piping supports and/or other necessary infrastructure to support the combined weight.

Standard hammer unions and connections are not prepped for sour gas service. Do not interchange standard and sour gas components. Hammer unions and connections prepped for sour gas service will be marked with "Sour Gas Svc." or "H2S".

When temperatures are below 32F, please use extreme caution when making or breaking union connections as the lower temperatures negatively affect the impact strength of iron and steel.

## INTEGRAL FITTINGS



### 1502 Cross FFFM

15,000 PSI NSCWP  
Sizes: 2"



### 1502 Cross MFMM

15,000 PSI NSCWP  
Sizes: 2"



### 1502 Cross FFMM

15,000 PSI NSCWP  
Size: 2"



### Cushion Elbow FxF

15,000 PSI NSCWP  
Size: 2"



### Cushion Elbow FxM

15,000 PSI NSCWP  
Sizes: 2", 3"



### Double Cushion Elbow FxM

15,000 PSI NSCWP  
Size: 2"



### Cushion Elbow MxM

15,000 PSI NSCWP  
Sizes: 2", 3"



### 1502 Tee FFM

15,000 PSI NSCWP  
Sizes: 2", 3"



### 1502 Tee FMF

15,000 PSI NSCWP  
Size: 2", 3"



### 1502 Tee FMM

15,000 PSI NSCWP  
Sizes: 2", 3"



### 1502 Tee MFM

15,000 PSI NSCWP  
Size: 2"



### 1502 Tee MMM

15,000 PSI NSCWP  
Size: 2"



### 1502 Tee FFF

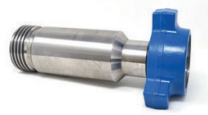
15,000 PSI NSCWP  
Size: 2"



### 1502 MXF 9.19" Spacer

15,000 PSI NSCWP  
Size: 2"

## INTEGRAL FITTINGS



### 1502 MXF 14" Spacer

15,000 PSI NSCWP  
Size: 2"

## MANIFOLDS



### 5 Valve Dual Adjustable Choke Manifold

2x2 1502 Plug Valves with dual  
1502 adjustable chokes.  
Skid Mounted



### 5 Valve Single Adjustable Choke Manifold

2x2 1502 Plug Valves with single  
1502 adjustable chokes.  
Skid Mounted

## PONY RODS



### Pony Rods

API 11B Grade D AISI 4130  
Sizes: 5/8", 3/4", 7/8", 1"  
Lengths: 2', 4', 6', 8'

## SUCKER ROD COUPLINGS



### Sucker Rod Couplings

API 11B Grade D AISI 5140  
Class T, Spray Metal & Combination Couplings  
Full Size & Slim Hole  
Sizes: 5/8", 3/4", 7/8", 1"

## 777Z HEAVY DUTY FLEXIBLE COUPLINGS



### 777Z Heavy Duty Flexible Couplings

Sizes: 1" thru 16"



Blank lined area for notes or calculations.

Lined area for notes or calculations.

**ZSPEC<sup>®</sup>**  
**FLOW CONTROL**  
VALVES & FITTINGS

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