



OILFIELD | MARINE | INDUSTRIAL | AGRICULTURE

ZSPEC° CATALOG





# **VALVES & FITTINGS**

OILFIELD | MARINE | INDUSTRIAL | AGRICULTURE

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ZSPEC FLOW CONTROL
VALVES & FITTINGS
OILFIELD | MARINE | INDUSTRIAL | AGRICULTURE

# **COMPANY OVERVIEW**

**ZSPEC® FLOW CONTROL** - VALVES & FITTINGS

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.



You can learn more about our **ZSPEC®** product offerings in the corresponding product catalog and at our website, www.zspec.com.



# **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)



**RL Series Butterfly Valve** 

Lug Style Valve, 2-pc Stem 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 Teflon Series Butterfly Valve

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



RNW6BT Series Butterfly Valve

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



T Series Threaded End Butterfly Valve

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



G Series Grooved End Butterfly Valve

200 PSI NSCWP Sizes: 2" thru 12"



### **BL Series Butterfly Valve**

Lug Style Valve, Long Neck Design 200 PSI NSCWP Sizes: 2" thru 24"

(larger diameters are available)



**RRW Series Butterfly Valve** 

Round Wafer Style, Long Neck Design 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"



# Stem Extension for Butterfly Valves

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



#### **Gear Op for Butterfly Valves**

Gear Operators are available for all butterfly valves.



#### **Pneumatic Actuators**

Direct Mount Pneumatic Actuators are available for all butterfly valves.

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"



# **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 & 5000 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"



VALVES & FITTINGS

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# **BALL VALVES**



### **BBV Series Brass Ball Valve**

Full Port,





# **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 Fnds. 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 MR0175, 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



# CS2K Series Seal Welded WCB Ball Valve

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



# CS1K Series Seal Welded WCB Ball Valve

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



# SS1K Series Seal Welded CF8M Ball Valve

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



### SSR1K Series Reduced Port CF8M Ball Valve

Reduced Port, FNPT Ends, Locking Device Handle 1,000 PSI NSCWP 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 NSCWP 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 NSCWP

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 NSCWP 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 NSCWP

Sizes: 1/4" thru 2"



# SS2K Series Seal Welded CF8M Ball Valve

NACE MR0175, Full Port, FNPT Ends Locking Device Handle 2,000 PSI NSCWP

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 NSCWP

Sizes: 1". 2"



# SS2K Series Seal Welded CF8M (MXF)

NACE MR0175, Full Port, MNPT X FNPT Ends Locking Device Handle 2,000 PSI NSCWP

Sizes: 1/4", 1/2"



# BVICS Series WCB Isolator Ball Valve

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



#### **GVB Series Grooved End Ball Valve**

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



# **FLANGED END BALL VALVES**



**WCB Flanged End Ball Valve** 

NACE MR0175, Firesafe to API607, B16.34, 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, 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 × FNPT or MNPT × 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 × 1/4" FNPT 6.000 PSI NSCWP Material: 316SS



### **M Series Multiport Gauge Needle Valve**

NACE MR0175 MNPT × 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 × 19, 5/8 x 27

Gaskets: 1" thru 16" available in

Nitrile Rubber

# **CHOKES**



**1502 Adjustable Choke** 

15,000 PSI NSCWP Size: 2"



**ZN60 Positive Choke** 

5.000 PSI NSCWP

Size: 2"



Trim Materials: Hardened Steel

**ZN60 Adjustable Choke** 

5,000 PSI NSCWP

Trims: 3/4" or 1"

Size: 2"

or SS + Tungsten Carbide



**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





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 x2" 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



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

6" Fig. 206 Male x 150 Pattern Flange

# **BULLDOG TANK UNIONS**



**Air Grip Unions** 

Sizes: 4" thru 16"



**ZSPEC**<sup>®</sup> 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** <sup>®</sup> 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	ID CONNECTION NSCWP	
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** <sup>®</sup> 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 O	Nominal Pipe Size (in inches)    .5"   1"   1.25"   1.5"   2"   2.5"   3"   4"   5"   6"   8"   10"   12"													
			STANDARD SERVICE  NSCWP TEST														
100	_	Yellow/Black	1000	1500					•								
110		Burnt Orange/	2500	3750													
110		Burnt Orange Brown/Brown	4000	6000							•						
200		Gray/Blue	2000	3000													
201	Ξ	Gray/Beige	3000	4000					•								
206	Ξ	Gray/Blue	2000	3000													
	Ξ	,															
206H		Gray/Blue	400	600													
207		Gray/Blue	2000	3000					•			•		•			
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	Ē	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:



#### 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.

<sup>12&</sup>quot; Fig 400: NSCWP = 2500 psi (3750 psi test) 5" Fig 1002 Threaded: NSCWP = 5000psi (7500 psi test)

<sup>5&</sup>quot; Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test) 6" Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test)

# **INTEGRAL FITTINGS**



**1502 Cross FFFM** 15,000 PSI NSCWP Sizes: 2"



15,000 PSI NSCWP Sizes: 2"

1502 Cross MFMF



**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"

Zspec<sup>o</sup> Flow Control 21