



FLOWLINE PRODUCTS

**American
Block**



experience



quality

American Block provides a complete range of hammer unions, swivel joints, plug valves, integral fittings, pup joints, circulating and cementing hoses, manifolds, choke valves, check valves, safety relief valves and ring gaskets. The quality of our products surpasses the industry standard. Our products are manufactured from the highest grades of forged steel. While more expensive to manufacture, there is a unique benefit in this manufacturing method that includes superior strength and longevity. American Block unions are interchangeable with other major suppliers and designed to API and are DNV approved.

- ▶ Hammer unions range in size: 1" to 12"
- ▶ Maximum working pressure of 15,000 PSI
- ▶ Complete traceability
- ▶ Manufactured from forged steel
- ▶ ASTM A-105 for a working pressure less than 6000PSI
- ▶ AISI 4130 for a working pressure greater than or equal to 6000PSI
- ▶ Available with charpy testing



FIGURE NUMBER	ASSEMBLY KEY	PRESSURE RATING (PSI)				NORMAL PIPE SIZE													
		STANDARD SERVICE		SOUR SERVICE		(N)	1	1 1/2	1 1/2	2	2 1/2	3	4	5	6	8	10	12	
		COLD WORKING	TEST	COLD WORKING	TEST	(MM)	25	32	40	50	65	80	100	100	125	150	250	300	
40		400	600	400	600					T									
50		500	750	500	750									T					
100		1000	1500	1000	1500				T/W	T	T/W	T/W	T/W	T/W	T/W	T/W			
200		2000	3000	2000	3000		T	T	T/W	T/W	T	T/W	T/W	T/W	T/W	T/W	T/W		
201		2000	3000	2000	3000					T									
206		2000	3000	2000	3000		T	T	T/W	T/W	T	T/W	T/W	T/W	T/W	T/W	T/W		
207		2000	3000	2000	3000							T/W	T/W		T/W				
211		2000	3000	2000	3000					T									
300		2000	3000	N/A	N/A					●									
301		3000	3000	N/A	N/A					T									
400		4000	6000	4000	6000					T		T	T/W		●	●	●	●	
600		6000	9000	N/A	N/A					T									
602		6000	9000	6000	9000		T/W		T/W	T/W		T/W	T/W						
1002		10000	15000	7500	11250		T			T/W		T/W	T/W	●	●				
1003		10000	15000	7500	11250							W	●	●					
1004		10000	15000	7500	11250											W			
1502		15000	22500	10000	15000		T		T	T/W	T	T/W	T/W	W	W				
2202		N/A	N/A	15000	22500							W	W						
AG		6000	9000	6000	9000					T									

● INDICATES REDUCED CWP DUE TO PIPE SIZE OR OTHER DESIGN FACTORS:

FIGURE 300

2" THREADED CWP 2000/6000 PSI
2" BUTT-WELD CWP 6000 PSI

FIGURE 400 STANDARD SERVICE

6", 8", 10", & 12" CWP 2500 / 5000 PSI

FIGURE 1002 STANDARD SERVICE

5" THREADED CWP 5000 / 7500 PSI
5" & 6" BUTT-WELD CWP 7500 / 11250 PSI

FIGURE 1002 SOUR SERVICE

5" & 6" BUTT-WELD CWP 5000 / 7500 PSI

FIGURE 1003 STANDARD SERVICE

4" & 5" BUTT-WELD CWP 7500 / 11250 PSI

FIGURE 1003 SOUR SERVICE

4" & 5" BUTT-WELD CWP 5000 / 7500 PSI

T THREADED
W BUTT-WELD
T/W THREADED & BUTT-WELD

FIGURE 40

- ▶ Recommended for air, water, oil or gas service to 400 PSI
- ▶ Available in threaded

FIGURE 50

- ▶ Recommended for air, water, oil or gas service to 500 PSI
- ▶ Available in threaded
- ▶ Available in bronze, based on application

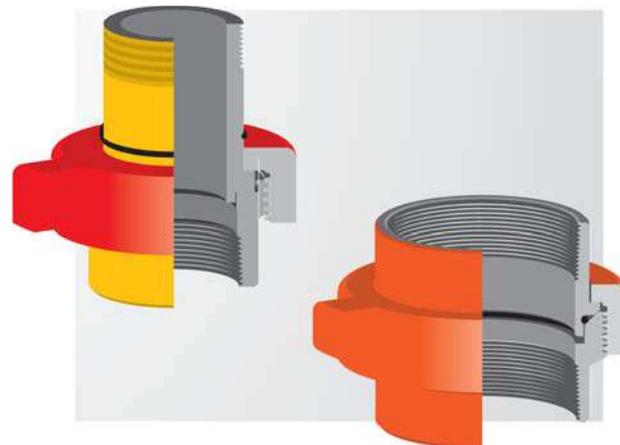


FIGURE 100

- ▶ Cold working pressure - 1,000 PSI
- ▶ Low pressure union
- ▶ Manifold & general service

FIGURE 200

- ▶ Cold working pressure - 2,000 PSI
- ▶ General purpose union
- ▶ Available in threaded & butt weld

FIGURE 206

- ▶ Cold working pressure - 2,000 PSI
- ▶ O-Ring in metal sub sealing extends life
- ▶ Cup and cone provide "zero clearance against extrusion"
- ▶ Available in threaded & butt weld
- ▶ All sizes available in sour service
- ▶ Available socketweld unions in 2", 3", 4" , & 6"

FIGURE 207

- ▶ Cold working pressure - 2,000 PSI
- ▶ Manifold and blanking the end of line - 'O' ring cap provides leak-free seal
- ▶ Connection cap can be tapped for pressure gauge or valve
- ▶ Available in threaded & butt weld

FIGURE 300

- ▶ Cold working pressure - 2,000 PSI or 6000PSI
- ▶ 'Flat Face' design facilitates straight breakout of connected components such as valve or fittings for repair or inspection
- ▶ Moderate vacuum service insulated unions available

FIGURE 400

- ▶ 2" to 4" sizes CWP is 4,000PSI
- ▶ 6" to 12" sizes CWP is 2,500PSI
- ▶ Mainly used for manifold pumping and mud pumping

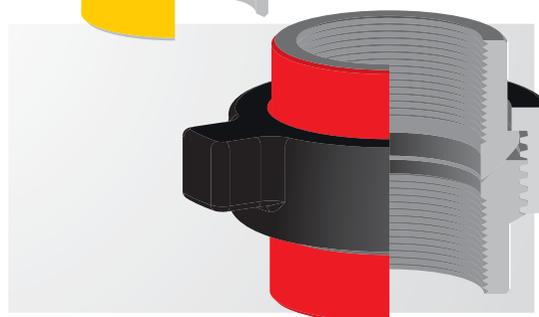
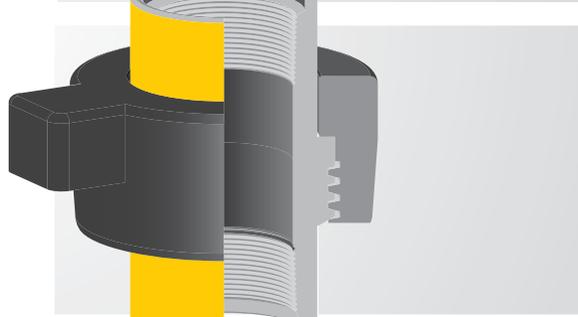
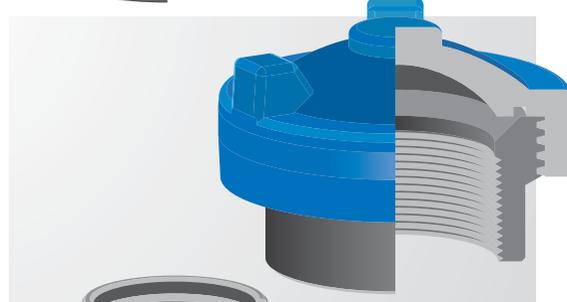
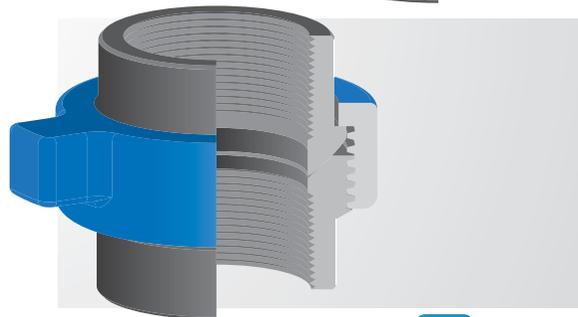
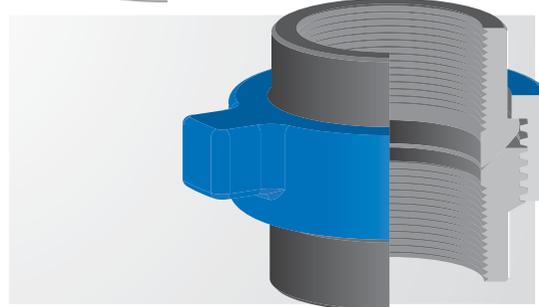
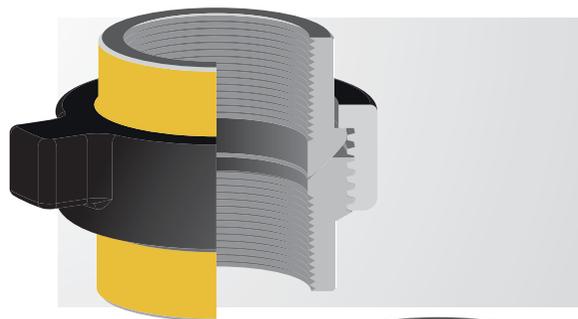


FIGURE 602

- ▶ Cold working pressure - 6,000 PSI
- ▶ Lip type elastomer seal protects metal-to-metal designed to reduce turbulence in the line
- ▶ Usage mainly in manifold and mud services
- ▶ Available with non-pressure thread sealing ends

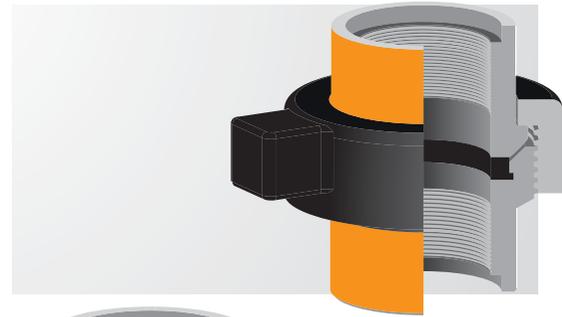


FIGURE 1002

- ▶ Cold working pressure - 10,000 PSI
- ▶ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- ▶ 5" and 6" butt-weld are 7,500 PSI for standard service
- ▶ 5" and 6" butt-weld are 5,000 PSI for sour service

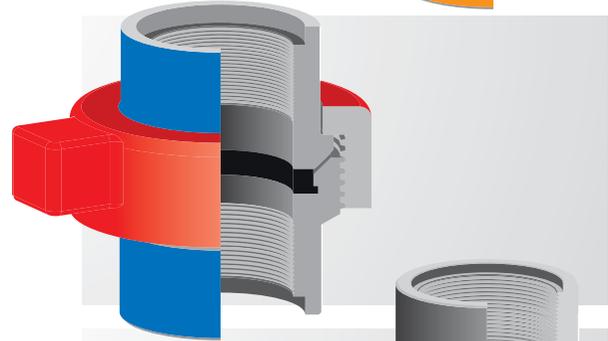


FIGURE 1003

- ▶ Cold working pressure - 10,000 PSI
- ▶ Misaligning unions are used in high pressure applications where the lines are not aligned
- ▶ 5" is 7,500 PSI for standard service
- ▶ 5" is 5,000 PSI for sour service

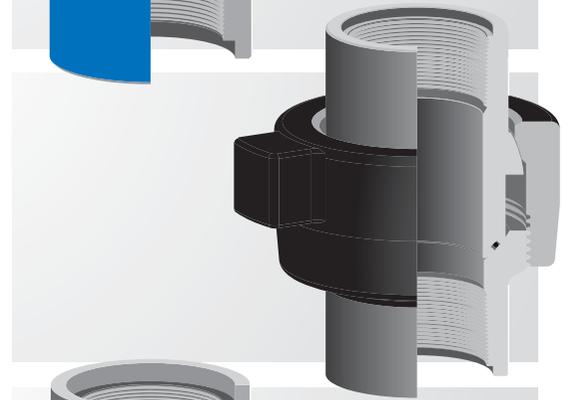


FIGURE 1004

- ▶ Cold working pressure - 10,000 PSI
- ▶ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- ▶ Available in forged steel for butt weld connections
- ▶ Schedule XXH

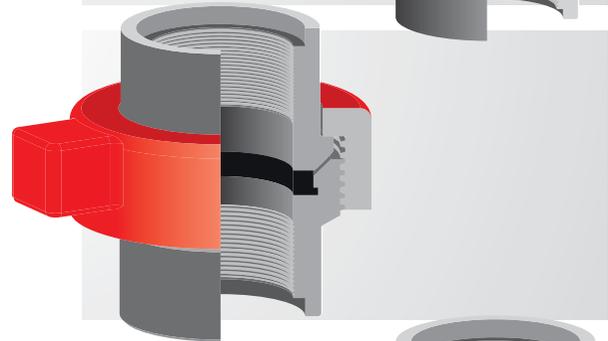


FIGURE 1502

- ▶ Cold working pressure - 15,000 PSI
- ▶ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- ▶ Used mainly in choke / kill lines, cementing, fracturing / testing
- ▶ Available in threaded, welded, butt weld and non-pressure thread sealing ends

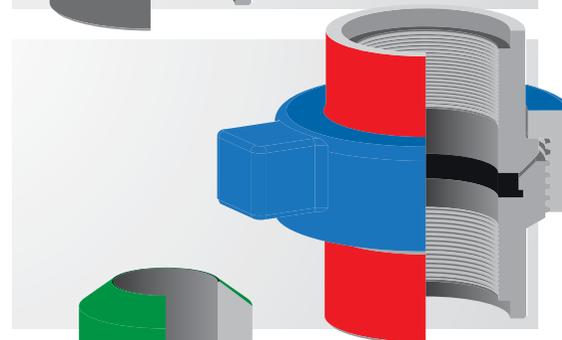
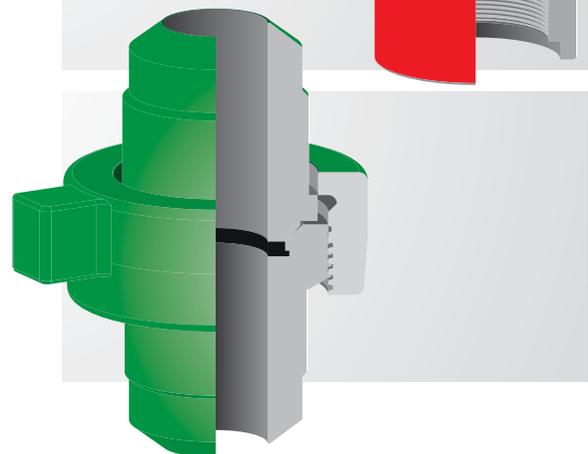


FIGURE 2202

- ▶ Cold working pressure - 15,000 PSI
- ▶ Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- ▶ Used in sour gas services
- ▶ Meets Nace MR-01-75 standards
- ▶ Butt-weld Schedule XXH only



- ▶ Sizes: 1" to 3"
- ▶ Maximum working pressure of 15,000 PSI
- ▶ Dual purpose packing with anti-extrusion ring & active seal packing
- ▶ Precision hardened bearing surfaces to ensure long life
- ▶ Smooth finished bores to ensure minimum pressure drop
- ▶ Various end connections including integral union



LONG SWEEP SWIVEL JOINTS CODE RED

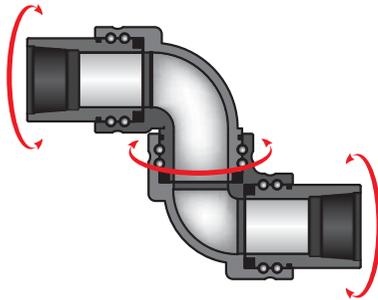
- ▶ Cold working pressure - 15,000 PSI
- ▶ Sour gas service - 10,000 PSI
- ▶ Applications: fracturing, choke and kill, testing

SHORT SWEEP SWIVEL JOINTS CODE SILVER

- ▶ Cold working pressure - 6,000 PSI
- ▶ Applications: rotary, choke and kill, mud cementing & circulating

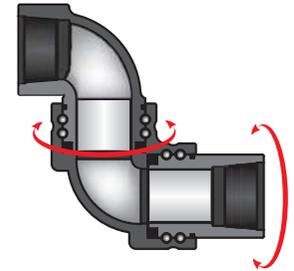
STYLE 10

3 swivels + 2 elbows



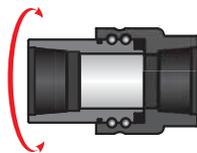
STYLE 50

2 swivels + 2 elbows



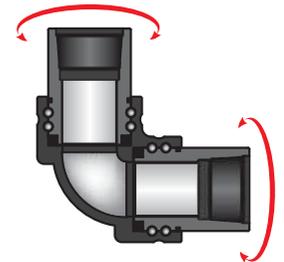
STYLE 20

single swivel coupling



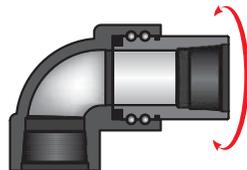
STYLE 60

2 swivel + 1 elbows



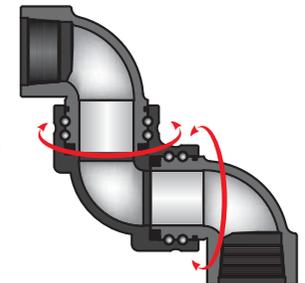
STYLE 30

swivel coupling + 1 elbow



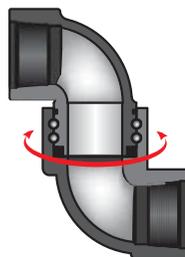
STYLE 70

2 swivels + 3 elbows



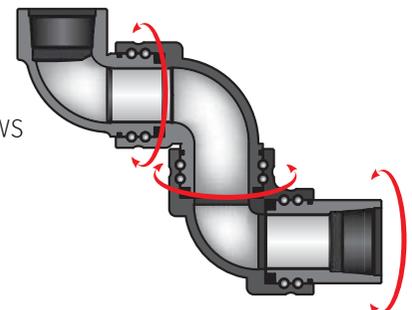
STYLE 40

swivel coupling + 2 elbow



STYLE 80

3 swivels + 3 elbows



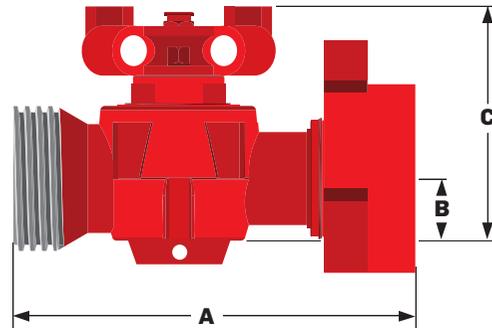
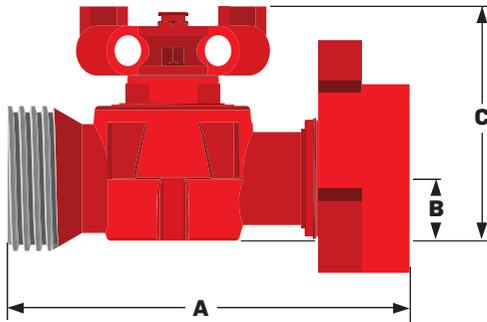


TOP ENTRY PLUG VALVE

- ▶ Sizes: 1" to 3" 1502
- ▶ Maximum working pressure 15,000 PSI
- ▶ Easy operation
- ▶ Inline serviceable
- ▶ Positive seal design
- ▶ Extended service life
- ▶ Forged steel body

BOTTOM ENTRY PLUG VALVE

- ▶ Sizes: 1" to 3" 1502
- ▶ Maximum working pressure 15,000 PSI
- ▶ 3"x3" handle or gear option available
- ▶ Inline serviceable
- ▶ Reduces maintenance costs
- ▶ Offers installation versatility
- ▶ Forged steel body



DESCRIPTION	CWP TEST	DIMENSIONS (IN.)		
		A	B	C
1" X 2" 1502 UNION	15,000 22,500	10 ⁹ / ₁₆	4 ⁹ / ₁₆	9 ¹ / ₄
1" X 2" 1502 UNION (SOUR SERVICE)	10,000 15,000	10 ⁹ / ₁₆	4 ⁹ / ₁₆	9 ¹ / ₄
2" X 2" 1502 UNION	15,000 22,500	13 ⁷ / ₈	5 ¹ / ₂	10 ⁵ / ₈
2" X 2" 1502 UNION (SOUR SERVICE)	10,000 15,000	13 ⁷ / ₈	5 ¹ / ₂	10 ⁵ / ₈
3" X 3" 1502 UNION	15,000 22,500	17	8 ¹ / ₈	13
3" X 3" 1502 UNION (SOUR SERVICE)	10,000 15,000	17	8 ¹ / ₈	13

DESCRIPTION	CWP TEST	DIMENSIONS (IN.)		
		A	B	C
1" X 2" 1502 UNION	15,000 22,500	10 ⁹ / ₁₆	4 ⁹ / ₁₆	9 ¹ / ₄
1" X 2" 1502 UNION (SOUR SERVICE)	10,000 15,000	10 ⁹ / ₁₆	4 ⁹ / ₁₆	9 ¹ / ₄
2" X 2" 1502 UNION	15,000 22,500	13 ⁷ / ₈	5 ¹ / ₂	10 ⁵ / ₈
2" X 2" 1502 UNION (SOUR SERVICE)	10,000 15,000	13 ⁷ / ₈	5 ¹ / ₂	10 ⁵ / ₈
3" X 3" 1502 UNION	15,000 22,500	17	8 ¹ / ₈	13
3" X 3" 1502 UNION (SOUR SERVICE)	10,000 15,000	17	8 ¹ / ₈	13

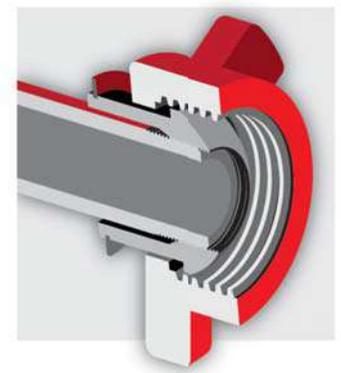
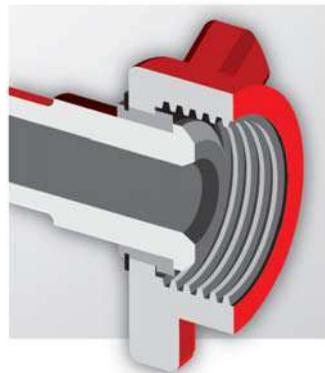
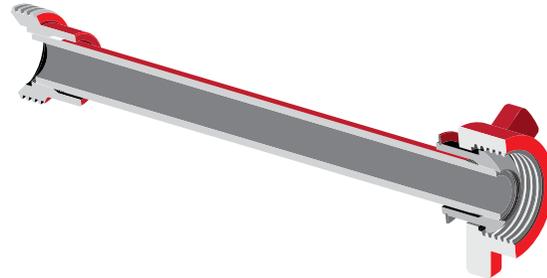
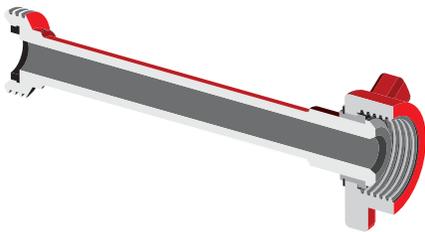


INTEGRAL PUP JOINTS

- ▶ Sizes: 2" & 3"
- ▶ Manufactured from 1ft – 15ft in length
- ▶ Forged from alloy steel using one piece construction
- ▶ Available in 15,000 cwp standard service
- ▶ Available in 10,000 cwp sour gas service

NON-PRESSURE SEAL THREAD (NPST) PUP JOINTS

- ▶ Sizes: 2" & 3"
- ▶ Manufactured from 1ft – 20ft in length
- ▶ Available in 15,000 cwp standard service
- ▶ Available in 10,000 cwp sour gas service



FLOW IRON RECERTIFICATION

American Block Mobile Recertification team provides flowline and valve maintenance. We perform a visual inspection, magnetic particle inspection, and ultrasonic thickness inspection. We also provide I.D. banding on all parts inspected. If needed, we repair or replace wing nuts, replace any bad seals, rebuild valves and repaint items accordingly. We measure test iron to 6K-10K-15K PSI.



- ▶ Sizes: 2" and 3" 602 and 1502
- ▶ Available in sizes 10 FT or 12 FT
- ▶ Maximum working pressure of 15,000 PSI
- ▶ Flexibility and easy operation
- ▶ Disassembles easily for storage and transportation

HIGH PRESSURE FLEXIBLE SR-1-6

- ▶ Maximum cold working pressure 6,000 CWP PSI
- ▶ One ABCO union and two (style 50 or Style 10) swivel joints with threaded connection

LONG SWEEP FLEXIBLE LR-4-10

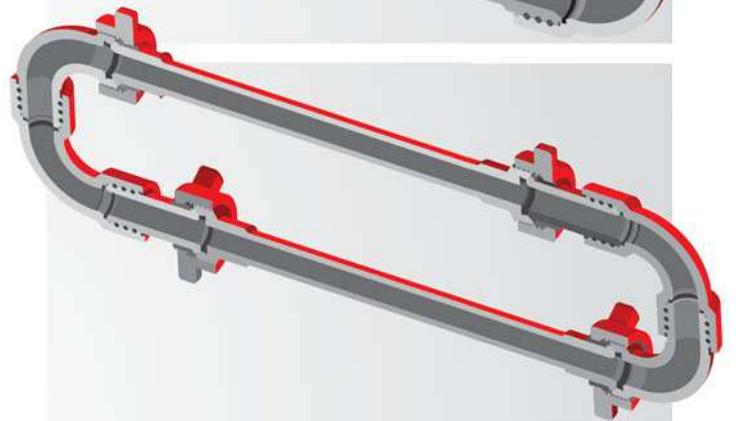
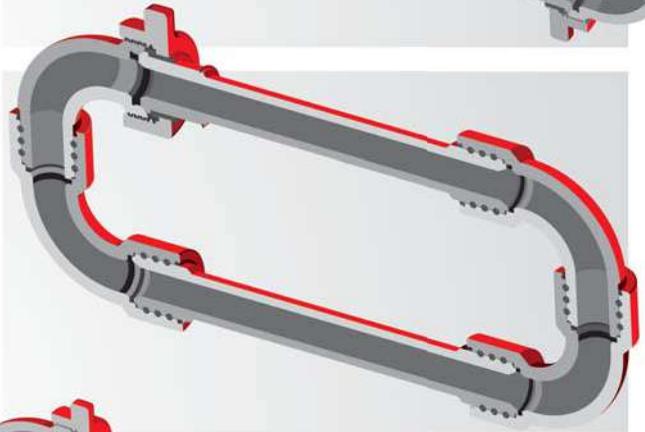
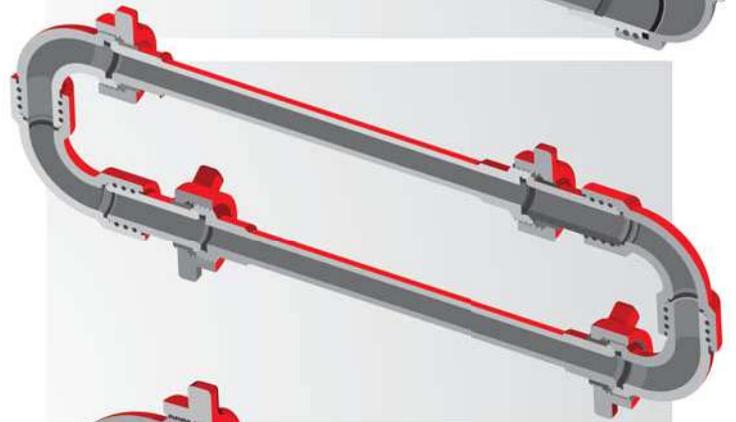
- ▶ Maximum cold working pressure is 10,000 PSI
- ▶ 4 unions and 2 (Style 50 or Style 10) long sweep swivel joints with integral union ends
- ▶ Available in sour service

LONG SWEEP FLEXIBLE LR-1-15 & LR-2-15

- ▶ Maximum cold working pressure is 15,000 PSI
- ▶ 1 or 2 unions and two (Style 50 or Style 10) long sweep swivel joints with integral ABCO union ends
- ▶ Available in sour service

LONG SWEEP FLEXIBLE LR-4-15

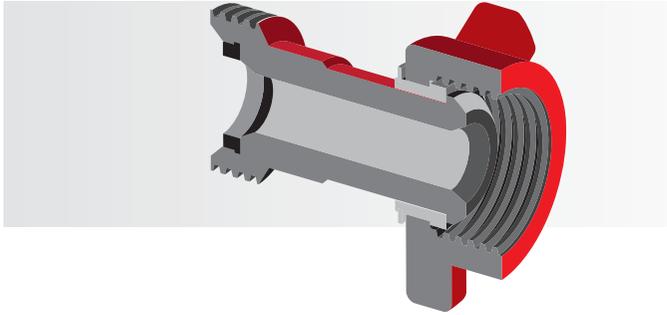
- ▶ Maximum cold working pressure is 15,000 PSI
- ▶ 4 unions and 2 (Style 50 or Style 10) long sweep swivel joints with integral union ends
- ▶ Available in sour service



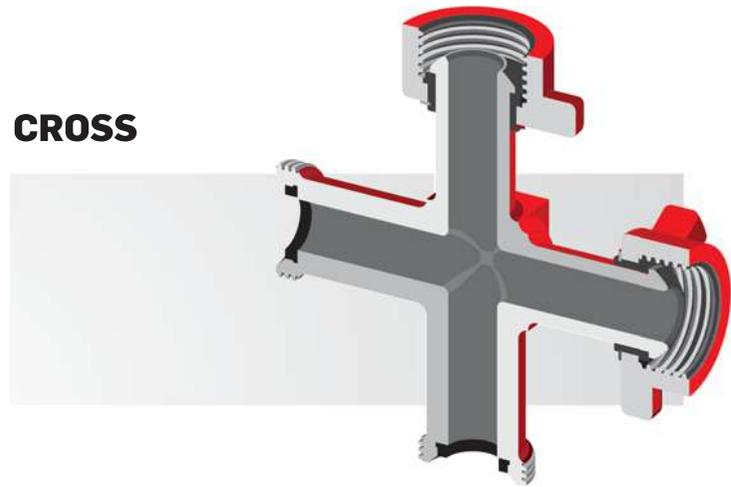
- ▶ Sizes: 2" and 3" 1502
- ▶ Figure 602 can be made to order
- ▶ Available in both standard and sour service
- ▶ Forged from alloy steel, using one piece construction
- ▶ Uniform bore for greater flow capacity and improved flow characteristics
- ▶ Maximum working pressure 15,000 CWP PSI
- ▶ Various configurations available



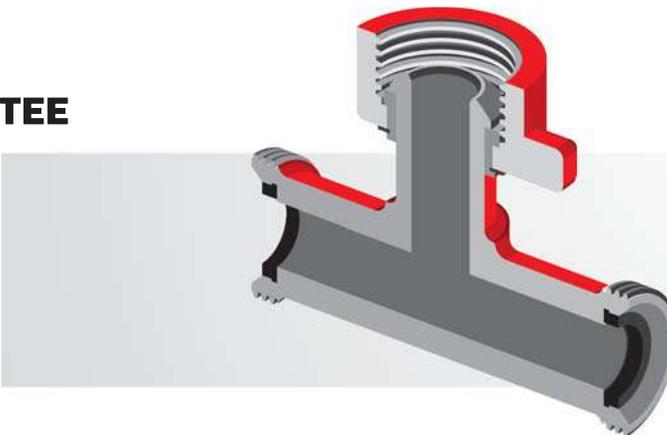
X-OVER



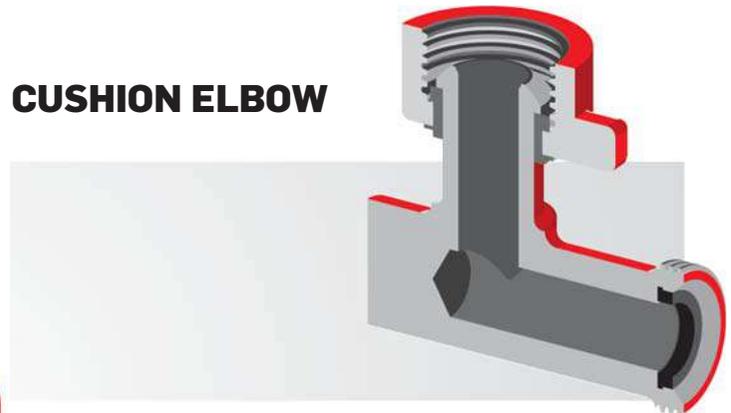
CROSS



TEE



CUSHION ELBOW



LONG RADIUS





2 INCH DART CHECK VALVE

- ▶ Available in 2" and 3" 1502 standard service
- ▶ NSCWP 15,000 PSI for standard service
- ▶ Prevents feedback pressure from pumping and for flow back purposes
- ▶ Application: well servicing



2 INCH CHOKE VALVE WITH ADJUSTABLE BONNET

- ▶ Available in 2" and 3" 1502 standard service
- ▶ NSCWP 15,000 PSI for standard service
- ▶ Provides control in fracturing and flowback applications
- ▶ Suitable for many types of manifold
- ▶ Applications serialized and pressure tested to 22,500 PSI



2 INCH HIGH PRESSURE SAFETY RELIEF VALVE

- ▶ Available in 2" 1502 standard service
- ▶ NSCWP 15,000 PSI for standard service
- ▶ Relieves static pressure in both gas and liquid
- ▶ Prevents damage to equipment by relieving high pressure build up
- ▶ Valve includes an o-ring seat that provides a leak tight shut off
- ▶ Application: pumping services



- ▶ (4", 6", 8", 10", 12", 14")
- ▶ Maximum Pressure 500 PSI
- ▶ Application: Mud Tanks & Line Connections
- ▶ Accepts minor misalignments of pipes with a tight leak proof seal

HAMMER SEAL UNIONS

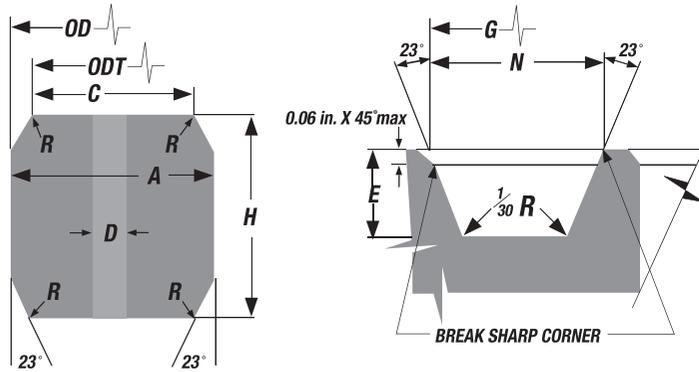
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 d]p]g]h]Y'" 5a Yf]M]b]6]c]W]a Ubi Z]M]f]Y]g]\Ua a Yf]g]U]i b]cbg]Z]ca X]U]a Y]Yf'
 g]h]Y]g] ("!% "' hY]g]c]X]d]f]b] [c]W]g]X]c]k]b]c]b]h]Y]C]8]"c]Z]h]Y]d]p]Y]U]g]h]Y]\Ua a Yf]bi h]g]h] \]M]b]Y]X]" 5" c]Z'
 h]Y]\Ua a Yf]g]U]i b]cbg]U]Y]f]U]Y]X]Z]f] \$\$\$DG=" Mi' W]b]U]W]Y]j]Y]U]a]g]U]I]b]Y]X]g]U]Y]X]W]b]W]b]k]h'
 5a Yf]M]b]6]c]W] <Ua a Yf]GYU i b]cbg]Á

SIZE (IN)	PART NUMBER	WEIGHT (LBS)	O RING PART NO.
4"	HSUNION - 4.0	22	HSUNION - 4.0 ORING
6"	HSUNION - 6.0	34	HSUNION - 6.0 ORING
8"	HSUNION - 8.0	47	HSUNION - 8.0 ORING
10"	HSUNION - 10.0	58	HSUNION - 10.0 ORING
12"	HSUNION - 12.0	64	HSUNION - 12.0 ORING
14"	HSUNION - 14.0	73	HSUNION - 14.0 ORING

- ▶ Precision finish
- ▶ Material: 316 stainless steel or low carbon steel
- ▶ Dual certification for 316 stainless steel
- ▶ Full traceability
- ▶ Types: BX - Octagonal, R- Oval, RX- Octagonal

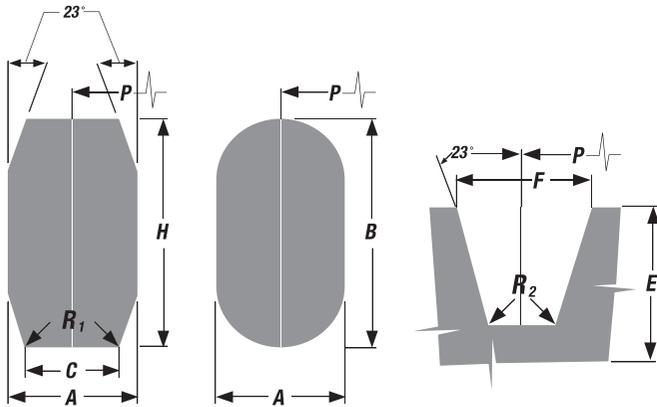


▶ **TYPE BX**



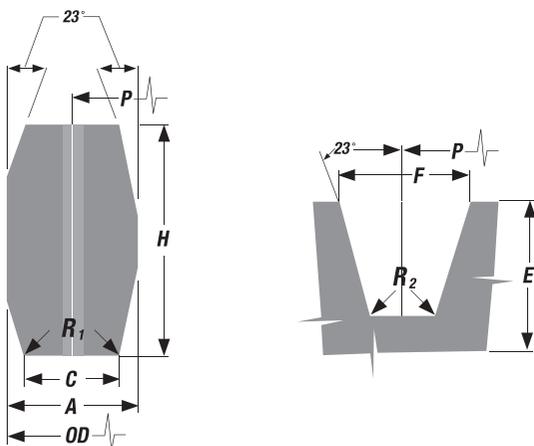
TOLERANCES		
A^a	width of ring	+ 0.008, -0.000
C	width of flat	+ 0.006, -0.000
D	hole size	± 0.02
E	depth of groove	+ 0.02, -0
G	OD of groove	+ 0.004, -0.000
H*	height of ring	+ 0.008, -0.000
N	width of groove	+ 0.004, -0.000
OD	OD of ring	+ 0.000, -0.006
ODT	OD of flat	± 0.002
R	radius in ring	see note
23°	angle	± 1/4°

▶ **TYPE R**



TOLERANCES		
A	width of ring	± 0.008
B&H	width of ring	± 0.02
C	width of flat on octagonal ring	± 0.008
E	depth of groove	± 0.02 / -0
F	width of groove	± 0.008
P {	average pitch diameter of ring	± 0.007
	average pitch diameter of groove	± 0.005
R₁	radius in rings	± 0.02
R₂	radius in groove	max
23°	angle	± 1/2°

▶ **TYPE RX**



TOLERANCES		
A*	width of ring	+ 0.008, -0.000
C	width of flat	+ 0.006, -0.000
D	height of chamfer	+ 0.000, -0.03
E	depth of groove	+ 0.02, -0
F	width of groove	± 0.008
H*	height of ring	+ 0.008, -0.000
OD	OD of ring	+ 0.020, -0.000
P	average pitch diameter of groove	± 0.005
R₁	radius in rings	± 0.02
R₂	radius in groove	max
23°	angle	± 1/2°



DRILLING SYSTEMS

- ▶ Mud Pumps
- ▶ AC Drawworks
- ▶ Rotary Tables
- ▶ Traveling Blocks
- ▶ Block Hook Combo
- ▶ Hooks
- ▶ Swivels
- ▶ Sheaves
- ▶ Pulsation Dampners
- ▶ Deadline Anchors
- ▶ Oilfield Transmission
- ▶ Crown Blocks

FLOWLINE PRODUCTS

- ▶ Hammer Unions
- ▶ Swivel Joints
- ▶ Plug Valves
- ▶ Integral Fittings & Pup Joints
- ▶ Cementing & Circulating Hoses
- ▶ Ring Gaskets
- ▶ Choke Valve
- ▶ Choke Manifold
- ▶ Safety Relief Valve
- ▶ Reset Relief Valve
- ▶ Shear Valve
- ▶ Check Valve

SERVICE

- ▶ Repair & Refurbishment
- ▶ Field Services

PARTS

- ▶ Drawworks
- ▶ Mud Pump (Power End)
- ▶ Mud Pump (Fluid End)
- ▶ Swivels
- ▶ Clutches

A

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LICENSE & CERTIFICATION

American Petroleum Institute



**American
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DNV TYPE APPROVAL - HAMMER UNIONS

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