



API 6D TRUNNION MOUNTED BALL VALVE



Built with Integrity

Welcome to JAG flocomponents USA, Inc.



Built with Integrity

Since 2001, JAG flocomponents USA, Inc. (JAGflo) has delivered quality valves at exceptional value. JAGflo manufactures JAG trunnion mounted and floating ball valves and specialty valves for the Oil and Gas and related industries. Forged from industry veterans, JAGflo fills the need to supply flow control products with uncompromising quality at globally competitive values. Our commitment to quality drives everything we do to ensure our customers receive a reliable product on time and on budget.



The perfect combination of domestic manufacturing and global materials, JAG valves offer end-users an economical choice with proven reliability and on time delivery. JAGflo is API 6D, CE/PED and ISO 9001 certified with manufacturing facilities in Stafford, Texas and Dalian, China operating under strict quality guidelines. Every valve is carefully machined, assembled and tested before leaving our facility to ensure your project runs smoothly, on time and on budget. With hundreds of thousands of valves installed worldwide, JAGflo has earned a reputation that you can depend on.

Stafford, Texas USA



- 55,000 square feet
- ISO 9001:2008
- API 6D
- CE/PED
- ISO/TS 29001
- API Q1

Home to the JAG Valve trunnion, JAGflo's Stafford facility is operated under industry-leading quality guidelines to ensure lasting reliability. With extensive stock and a full service facility, JAGflo can deliver complete valve packages including valve automation, stem extensions, pipe pups, coatings and more. By building, testing and modifying valves in-house, JAGflo can provide reduced delivery and cost while maintaining high quality standards.



150#	2"	48"
300#	2"	48"
600#	2"	48"
900#	2"	36"
1500#	2"	36"
2500#	2"	12"

JAG Valve trunnions are built in Stafford, Texas from forged materials and offered in 3-piece bolted body configurations with RF, RTJ, BW or Hub ends.

JAG Valve trunnion mounted ball valves are developed from years of engineering experience backed by a worldwide quality program. Every step of JAGflo's process, from material sourcing to final assembly and testing, is carefully planned and implemented in order to ensure lasting reliability.



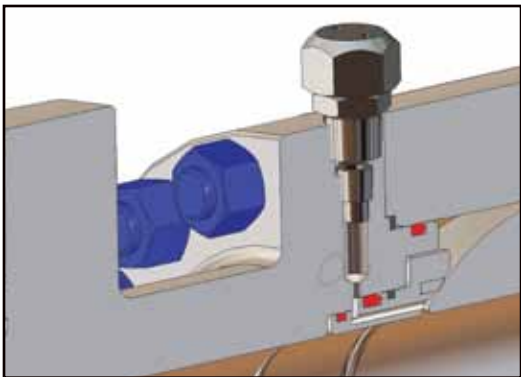
DESIGN

JAG trunnion mounted ball valves are designed and manufactured in accordance with the latest industry standards.

- 3-piece body design provides easy access for on-site maintenance.
- Special face to face dimensions can be supplied.
- Available in full or reduced bore with raised face, ring type joint, weld end or hub connections.
- Pressure ratings range from ASME 150 through ASME 2500.
- Internal stops as a standard to accommodate lever, gear or automated operation.

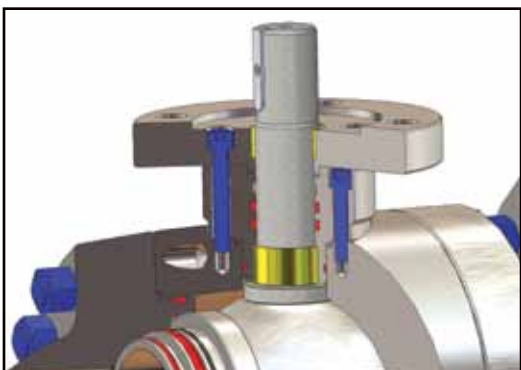
MATERIAL SELECTION

Valves are manufactured in a range of forged materials including A105, LF2, Stainless Steel, Duplex, Monel, Inconel and other special alloys. JAGflo uses forged materials, which ensures a high integrity material grain structure and improved sealing between the components. Sealing is by O-rings and graphite rings. The graphite ring continues to provide a seal in the event of a fire. O-rings can be supplied suitable for AED applications in a variety of materials.



SEAT

Independent seats with preloaded Inconel X750 springs are always in contact with the ball giving a perfect seal, even at low pressure. The replaceable seat rings and soft inserts can be supplied in materials to suit most service conditions. Most sizes and classes have a sealant injection system fitted as standard. This allows emergency sealing to be carried out in the event of damage to the soft seat. Seats are available in single or double piston effect configurations.



STEM

Stems are manufactured separately from the ball and feature an anti-blowout design. Stems are supported by RPTFE-lined bushings which reduce valve torque. Stem sealing is by O-rings and graphite rings. From 2" and above, stems are supplied with a sealant injection system.

ANTI STATIC DEVICE

Electrical conductivity is achieved by fitting a positive contact device between the stem, ball and bonnet.

DOUBLE BLOCK AND BLEED

JAG trunnion mounted valves are equipped with a vent and drain plug, which allow the cavity to be relieved when pressure is applied to both sides of the ball simultaneously. JAG valves are equipped with sealant injection fittings and vent and drain plug fittings in 316 SS as a standard.

TESTS

Valves are tested in accordance with API 6D, API 598, ASME B16.34 and other applicable standards.

FIRE TEST CERTIFICATION

Valves are designed and certified by an Independent Authority according to API 607 and API 6FA.

ACCESSORIES

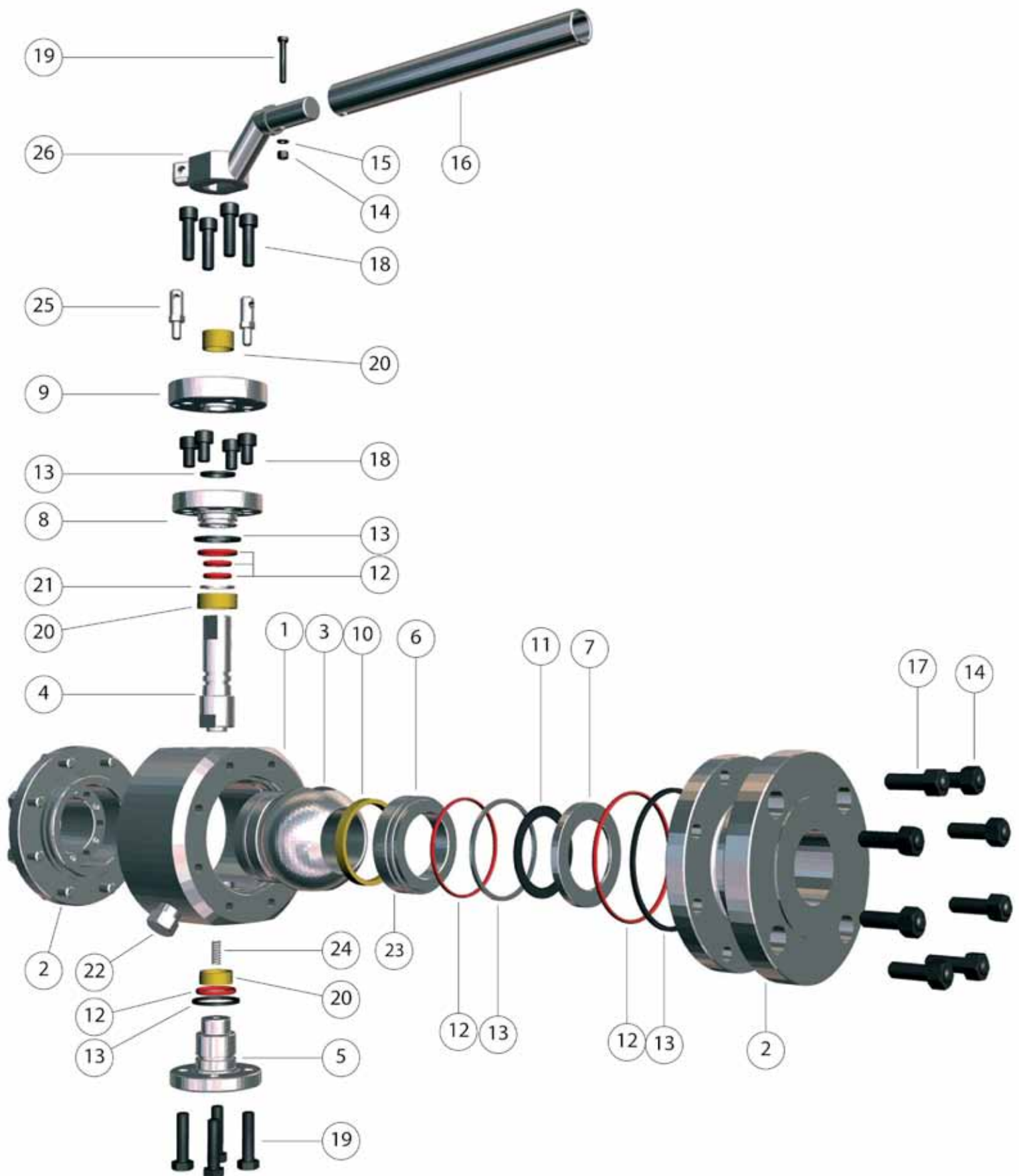
JAGflo provides locking devices, pipe pups, stem extensions coating and valve automation per customers' requirements. Suitable materials, components, seats and O-rings can be supplied for explosive decompression, cryogenic or marine applications.

EXTERNAL COATING

Carbon steel valves are normally supplied with JAG standard paint finish. Valves can also be unpainted or finished to customers' paint specification.

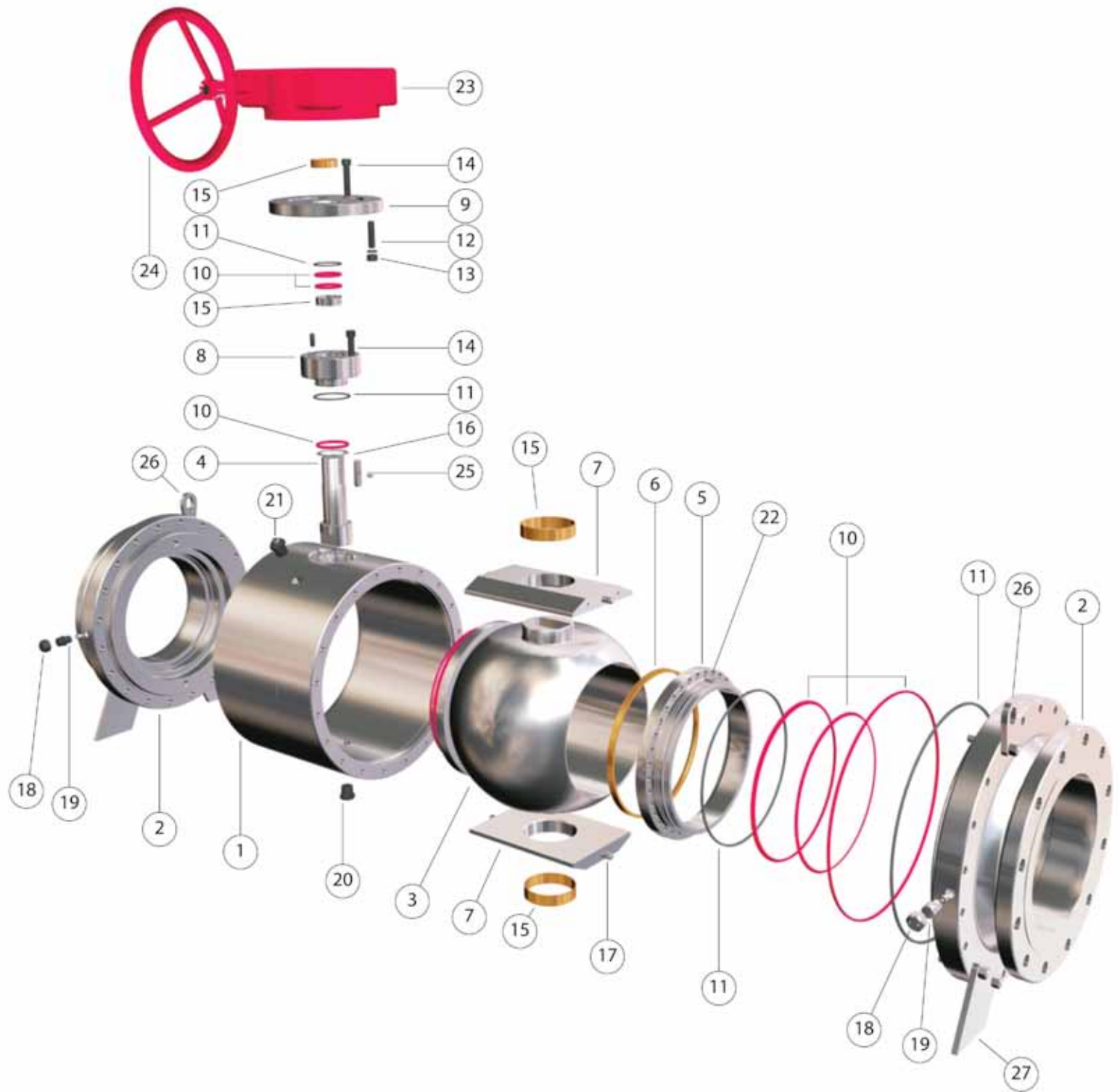
JAGflo offers a wide variety of materials and options to meet your project requirements

2" - 6" Trunnion Mounted Ball Valve

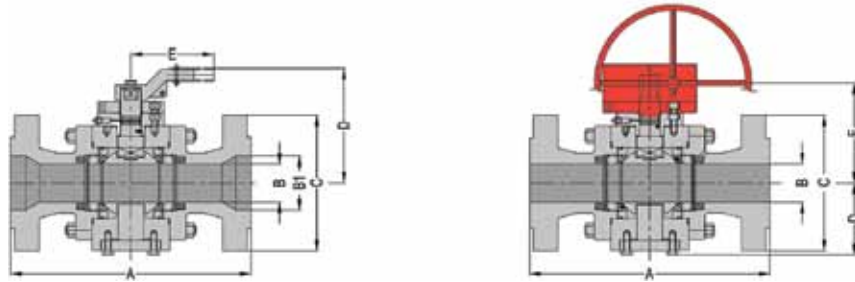


ITEM (TRIM)	PART	STANDARD NACE	LOW-TEMP NACE	STAINLESS STEEL NACE
1	BODY	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
2	CAP	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
3 (ENP)	BALL	ASTM A105N + ENP	ASTM A350 LF2 + ENP	-
3 (F316)	BALL	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
4 (ENP)	STEM	ASTM A29 4140 + ENP	ASTM A29 4140 + ENP	-
4 (F316)	STEM	ASTM A705 S17400	ASTM A705 S17400	ASTM A705 S17400
5 (ENP)	TRUNNION	ASTM A29 4140 + ENP	ASTM A29 4140 + ENP	-
5 (F316)	TRUNNION	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
6 (ENP)	SEAT CARRIER	ASTM A105N / 3 ENP	ASTM A350 LF2 + ENP	-
6 (F316)	SEAT CARRIER	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
7 (ENP)	SEAT FOLLOWER	ASTM A105N / 3 ENP	ASTM A350 LF2 + ENP	-
7 (F316)	SEAT FOLLOWER	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
8	BONNET	ASTM A 105N	ASTM A350 LF2	ASTM A182 F316
9	BONNET FLANGE	ASTM A 105N	ASTM A 350 LF2	ASTM A182 F316
10	SEAT INSERT (CL 150/300)	RPTFE	RPTFE	RPTFE
10	SEAT INSERT (CL 600 & UP)	NYLON	NYLON	NYLON
11	SEAT SPACER	NYLON	NYLON	NYLON
12	O-RINGS	VITON - 90 DUROMETER	VITON - 90 DUROMETER	VITON - 90 DUROMETER
13	GASKETS	GRAPHITE	GRAPHITE	GRAPHITE
14	NUTS	ASTM A194 2HM	ASTM A194 7M	ASTM A194 GR8
15	WASHER	CARBON STEEL	CARBON STEEL	CARBON STEEL
16	LEVER TUBE	CARBON STEEL	CARBON STEEL	CARBON STEEL
17	STUDS	ASTM A193 B7M	ASTM A320 L7M	ASTM A193 B8M
18	SOCKET HEAD CAP SCREWS	ASTM A193 B7M	ASTM A320 L7M	ASTM A 193 B8M
19	HEX HEAD SCREWS	ASTM A193 B7M	ASTM A320 L7M	ASTM A193 B8M
20	DU BEARING	STEEL + PTFE	STEEL + PTFE	STEEL + PTFE
21	THRUST WASHER	STEEL + PTFE	STEEL + PTFE	STEEL + PTFE
22	DRAIN PLUG	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
23	SPRING	INCONEL X750	INCONEL X750	INCONEL X750
24	SPRING - ANTISTATIC	INCONEL X750	INCONEL X750	INCONEL X750
25	STOP PINS	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
26	LEVER HANDLE	CARBON STEEL	CARBON STEEL	CARBON STEEL
27	SEALANT FITTING (NOT SHOWN)	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
28	STEM SEALANT FITTING (NOT SHOWN)	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
29	CHECK VALVE (NOT SHOWN)	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316

6" and up Trunnion Mounted Ball Valve



ITEM (TRIM)	PART	STANDARD NACE	LOW-TEMP NACE	STAINLESS STEEL NACE
1	BODY	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
2	CAP	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
3 (ENP)	BALL	ASTM A105N / 3 ENP	ASTM A350 LF2 / 3 ENP	-
3 (F316)	BALL	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
4 (ENP)	STEM	ASTM A29 4140 / 3 ENP	ASTM A29 4140 / 3 ENP	-
4 (F316)	STEM	ASTM A705 S17400	ASTM A705 S17400	ASTM A705 S17400
5 (ENP)	SEAT CARRIER	ASTM A105N / 3 ENP	ASTM A350 LF2 / 3 ENP	-
5 (F316)	SEAT CARRIER	ASTM A183 F316	ASTM A182 F316	ASTM A182 F316
6	SEAT INSERT (CL 150 - 300)	RPTFE	RPTFE	RPTFE
6	SEAT INSERT (CL 600 - 2500)	NYLON	NYLON	NYLON
7	BEARING PLATE	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
8	BONNET	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
9	BONNET FLANGE	ASTM A105N	ASTM A350 LF2	ASTM A182 F316
10	O-RINGS	VITON - 90 DUROMETER	VITON - 90 DUROMETER	VITON - 90 DUROMETER
11	GASKETS	GRAPHITE	GRAPHITE	GRAPHITE
12	STUDS	ASTM A193 B7M	ASTM A320 L7M	ASTM A193 B8M
13	NUTS	ASTM A194 2HM	ASTM A194 7M	ASTM A194 GR8
14	SOCKET HEAD CAP SCREWS	ASTM A194 2HM	ASTM A194 7M	ASTM A194 GR8
15	DU BEARING	STEEL + PTFE	STEEL + PTFE	STEEL + PTFE
16	THRUST WASHER	STEEL + PTFE	STEEL + PTFE	STEEL + PTFE
17	DOWEL PIN	CARBON STEEL	CARBON STEEL	CARBON STEEL
18	SEALANT FITTING	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
19	CHECK VALVE	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
20	DRAIN PLUG	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
21	VENT PLUG	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316
22	SPRING	INCONEL X750	INCONEL X750	INCONEL X750
23	GEAR BOX	CARBON STEEL	CARBON STEEL	CARBON STEEL
24	HAND WHEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
25	KEY	CARBON STEEL	CARBON STEEL	CARBON STEEL
26	LIFTING LUGS	CARBON STEEL	CARBON STEEL	CARBON STEEL
27	SUPPORT FEET	CARBON STEEL	CARBON STEEL	CARBON STEEL
28	STEM SEALANT FITTING (NOT SHOWN)	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316



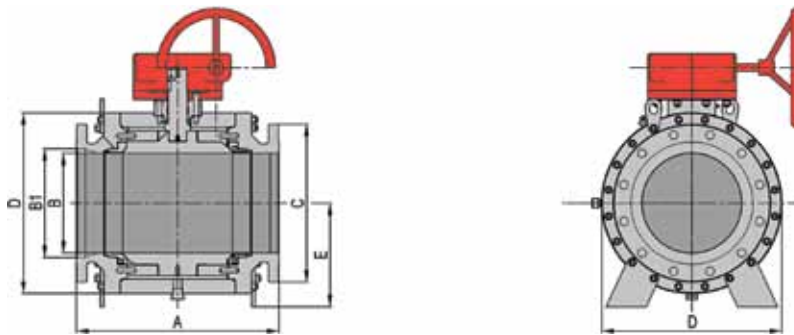
ASME 150 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	178	7.0	191	7.5	216	8.5	50	2.0	152.4	6.0	161	6.3	320	12.6	28	62
3*	203	8.0	216	8.5	283	11.1	77	3.0	190.5	7.5	189.5	7.5	340	13.4	52	115
4*	229	9.0	241	9.5	305	12.0	102	4.0	228.6	9.0	218	8.6	490	19.3	92	203

ASME 150 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	178	7.0	191	7.5	216	8.5	38	1.5	50	2.0	152.4	6.0	161	6.3	330	13.0	29	64
3 x 2*	203	8.0	216	8.5	283	11.1	50	2.0	76	3.0	190.5	7.5	161	6.3	330	13.0	32	71
4 x 3*	229	9.0	241	9.5	305	12.0	77	3.0	102	4.0	228.6	9.0	189.5	7.5	340	13.4	61	134
6 x 4*	394	15.5	406	16.0	457	18.0	102	4.0	152	6.0	279.4	11.0	218	8.6	490	19.3	100	220

*Lever Operated

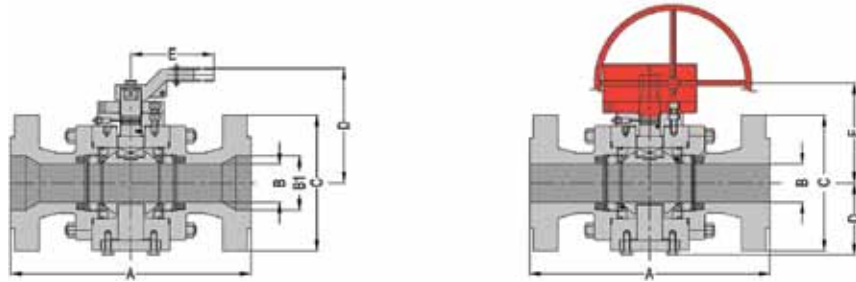


ASME 150 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	394	15.5	406	16.0	457	18.0	152	6.0	325	12.8	200	7.9	282	11.1	168	370
8	457	18.0	470	18.5	521	20.5	203	8.0	400	15.7	240	9.4	322	12.7	265	584
10	533	21.0	546	21.5	559	22.0	254	10.0	490	19.3	290	11.4	372	14.6	496	1,093
12	610	24.0	622	24.5	635	25.0	305	12.0	560	22.0	320	12.6	409	16.1	710	1,565
14	686	27.0	699	27.5	762	30.0	337	13.3	610	24.0	350	13.8	434	17.1	912	2,011
16	762	30.0	775	30.5	838	33.0	387	15.2	680	26.8	390	15.4	493	19.4	1,253	2,762
18	864	34.0	876	34.5	914	36.0	438	17.2	753	29.6	430	16.9	530	20.9	1,603	3,534
20	914	36.0	927	36.5	991	39.0	489	19.3	830	32.7	465	18.3	569	22.4	1,969	4,341
24	1,067	42.0	1,080	42.5	1,143	45.0	591	23.2	1,000	39.4	550	21.7	659	25.9	2,389	5,267

ASME 150 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	457	18.0	470	18.5	521	20.5	152	6.0	203	8	325	12.8	200	7.9	282	11.1	195	430
10 x 8	533	21.0	546	21.5	559	22.0	203	8.0	254	10.0	400	15.7	240	9.4	322	12.7	305	672
12 x 10	610	24.0	622	24.5	635	25.0	254	10.0	305	12.0	490	19.3	290	11.4	372	14.6	560	1,235
14 x 12	686	27.0	699	27.5	762	30.0	305	12.0	337	13.3	560	22.0	320	12.6	409	16.1	774	1,706
16 x 14	762	30.0	775	30.5	838	33.0	337	13.3	387	15.2	610	24.0	350	13.8	434	17.1	990	2,183
18 x 16	864	34.0	876	34.5	914	36.0	387	15.2	438	17.2	680	26.8	390	15.4	493	19.4	1,355	2,987
20 x 18	914	36.0	927	36.5	991	39.0	438	17.2	489	19.3	753	29.6	430	16.9	530	20.9	1,763	3,887
24 x 20	1,067	42.0	1,080	42.5	1,143	45.0	591	23.3	489	19.3	830	32.7	465	18.3	569	22.4	2,166	4,775



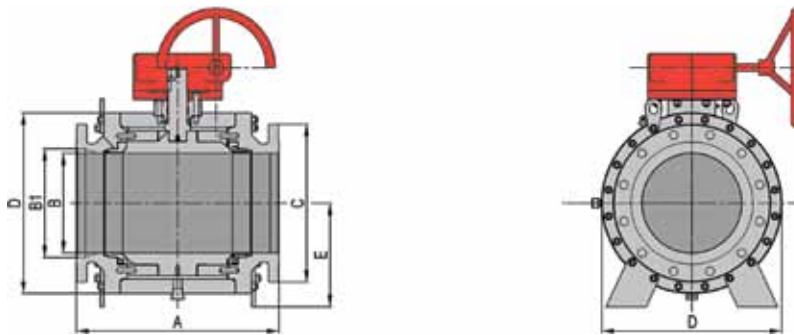
ASME 300 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	216	8.5	232	9.1	216	8.5	50	2.0	165.1	6.5	161	6.3	320	12.6	34	75
3*	283	11.1	298	11.7	283	11.1	77	3.0	209.6	8.3	189.5	7.5	490	19.3	56	123
4*	305	12.0	321	12.6	305	12.0	102	4.0	254	10.0	218	8.6	890	35.0	98	216

ASME 300 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	216	8.5	232	9.1	216	8.5	38	1.5	50	2.0	165.1	6.5	161	6.3	330	13.0	35	77
3 x 2*	283	11.1	298	11.7	283	11.1	50	2.0	76	3.0	209.6	8.3	161	6.3	330	13.0	37	82
4 x 3*	305	12.0	321	12.6	305	12.0	77	3.0	102	4.0	254	10.0	189.5	7.5	490	19.3	64	141
6 x 4*	403	15.9	419	16.5	457	18.0	102	4.0	152	6.0	317.5	12.5	218	8.6	890	35.0	120	265

*Lever Operated

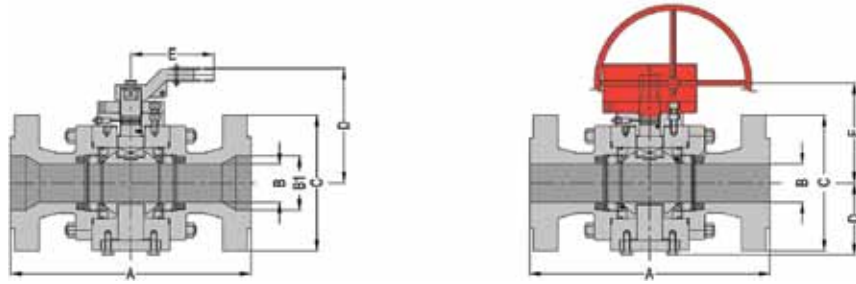


ASME 300 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	403	15.9	419	16.5	457	18.0	152	6.0	325	12.8	200	7.9	282	11.1	184	406
8	502	19.8	518	20.4	521	20.5	203	8.0	400	15.7	240	9.4	322	12.7	298	657
10	568	22.4	584	23.0	559	22.0	254	10.0	490	19.3	290	11.4	372	14.6	507	1,118
12	648	25.5	664	26.1	635	25.0	305	12.0	560	22.0	320	12.6	409	16.1	777	1,713
14	762	30.0	778	30.6	762	30.0	337	13.3	610	24.0	350	13.8	409	16.1	1,059	2,335
16	838	33.0	854	33.6	838	33.0	387	15.2	680	26.8	390	15.4	493	19.4	1,369	3,018
18	914	36.0	930	36.6	914	36.0	438	17.2	760	29.9	430	16.9	533	21.0	1,793	3,953
20	991	39.0	1,010	39.8	991	39.0	489	19.3	845	33.3	475	18.7	577	22.7	2,433	5,364
24	1,143	45.0	1,165	45.9	1,143	45.0	591	23.3	1,015	40.0	558	21.9	678	26.7	3,416	7,531

ASME 300 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	502	19.8	518	20.4	521	20.5	152	6.0	203	8.0	325	12.8	200	7.9	282	11.1	220	485
10 x 8	568	22.4	584	23.0	559	22.0	203	8.0	254	10.0	400	15.7	240	9.4	322	12.7	345	761
12 x 10	648	25.5	664	26.1	635	25.0	254	10.0	305	12.0	490	19.3	290	11.4	372	14.6	590	1,301
14 x 12	762	30.0	778	30.6	762	30.0	305	12.0	337	13.3	560	22.0	320	12.6	409	16.1	883	1,947
16 x 14	838	33.0	854	33.6	838	33.0	337	13.3	387	15.2	610	24.0	350	13.8	457	18.0	1,185	2,612
18 x 16	914	36.0	930	36.6	914	36.0	387	15.2	438	17.2	680	26.8	390	15.4	493	19.4	1,525	3,362
20 x 18	991	39.0	1,010	39.8	991	39.0	438	17.2	489	19.3	760	29.9	430	16.9	533	21.0	1,948	4,295
24 x 20	1,143	45.0	1,165	45.9	1,143	45.0	489	19.3	591	23.3	845	33.3	475	18.7	577	22.7	2,972	6,552



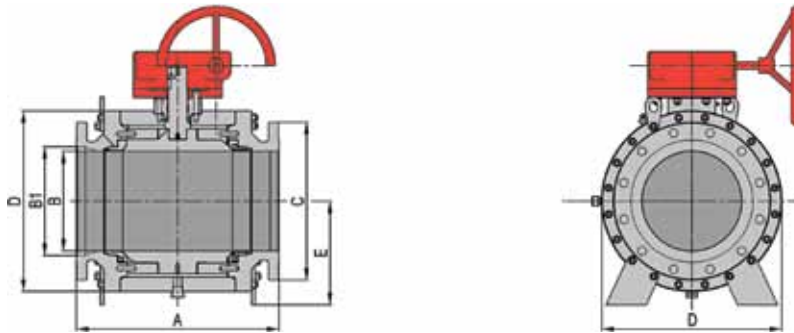
ASME 600 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	292	11.5	295	11.6	292	11.5	51	2.0	165.1	6.5	192	7.6	492	19.4	54	119
3*	356	14.0	359	14.1	356	14.0	76	3.0	209.6	8.3	223	8.8	752	29.6	72	159
4	432	17.0	435	17.1	432	17.0	102	4.0	273.1	10.8	260	10.2	147	5.8	130	287

ASME 600 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	292	11.5	295	11.6	292	11.5	38.1	1.5	51	2.0	165.1	6.5	192	7.6	492	19.4	49	108
3 x 2*	356	14.0	359	14.1	356	14.0	51	2.0	76	3.0	209.6	8.3	192	7.6	492	19.4	69	152
4 x 3*	432	17.0	435	17.1	432	17.0	76	3.0	102	4.0	273	10.7	223	8.8	752	29.6	115	254
6 x 4	562	22.1	562	22.1	559	22.0	102	4.0	152	6.0	355.6	14.0	154.5	6.1	236.5	9.3	240	529

*Lever Operated

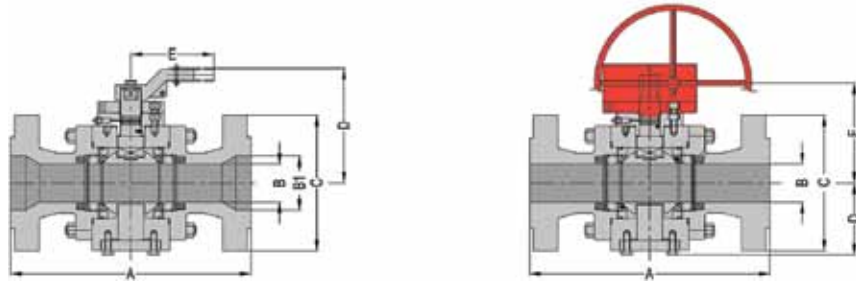


ASME 600 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	559	22.0	562	22.1	559	22.0	152	6.0	325	12.8	220	8.7	282	11.1	259	571
8	660	26.0	664	26.1	660	26.0	203	8.0	415	16.3	260	10.2	336	13.2	478	1,054
10	787	31.0	791	31.1	787	31.0	254	10.0	490	19.3	300	11.8	395	15.6	770	1,698
12	838	33.0	841	33.1	838	33.0	305	12.0	580	22.8	345	13.6	442	17.4	1,070	2,359
14	889	35.0	892	35.1	889	35.0	337	13.3	640	25.2	370	14.6	471	18.5	1,218	2,685
16	991	39.0	994	39.1	991	39.0	387	15.2	725	28.5	413	16.3	515	20.3	1,942	4,281
18	1,092	43.0	1,095	43.1	1,092	43.0	438	17.2	790	31.1	445	17.5	562	22.1	2,426	5,348
20	1,194	47.0	1,200	47.2	1,194	47.0	489	19.3	890	35.0	490	19.3	613	24.1	3,260	7,187
24	1,397	55.0	1,407	55.4	1,397	55.0	591	23.3	1,060	41.7	580	22.8	732	28.8	5,173	11,405

ASME 600 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	660	26.0	664	26.1	660	26.0	152	6.0	203	8.0	325	12.8	220	8.7	282	11.1	312	688
10 x 8	787	31.0	791	31.1	787	31.0	203	8.0	254	10.0	415	16.3	260	10.2	336	13.2	591	1,303
12 x 10	838	33.0	841	33.1	838	33.0	254	10.0	305	12.0	490	19.3	300	11.8	395	15.6	843	1,858
14 x 12	889	35.0	892	35.1	889	35.0	305	12.0	337	13.3	580	22.8	345	13.6	442	17.4	1,152	2,540
16 x 14	991	39.0	994	39.1	991	39.0	337	13.3	387	15.2	640	25.2	370	14.6	471	18.5	1,486	3,276
18 x 16	1,092	43.0	1,095	43.1	1,092	43.0	387	15.2	438	17.2	725	28.5	413	16.3	515	20.3	2,050	4,519
20 x 18	1,194	47.0	1,200	47.2	1,194	47.0	438	17.2	489	19.3	790	31.1	445	17.5	562	22.1	2,935	6,471
24 x 20	1,397	55.0	1,407	55.4	1,397	55.0	489	19.3	591	23.3	890	35.0	490	19.3	613	24.1	3,802	8,382



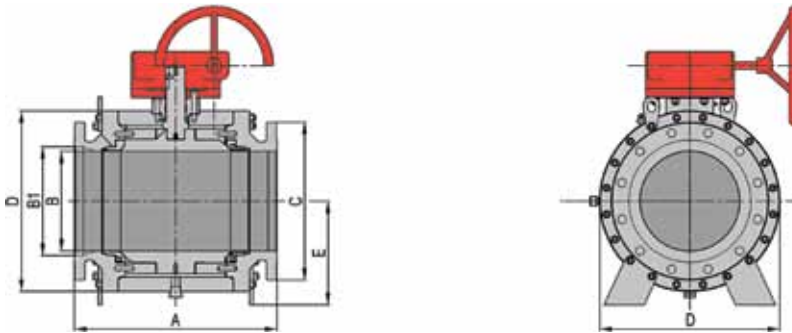
ASME 900 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	368	14.5	371	14.6	368	14.5	51	2.0	215.9	8.5	192	7.6	742	29.2	65	143
3*	381	15.0	384	15.1	381	15.0	76	3.0	241.3	9.5	225	8.9	840	33.1	95	209
4	457	18.0	460	18.1	457	18.0	102	4.0	273.1	10.8	205	8.1	154.5	6.1	194	428

ASME 900 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	368	14.5	371	14.6	368	14.5	38.1	1.5	51	2.0	215.9	8.5	192	7.6	742	29.2	65	143
3 x 2*	381	15.0	384	15.1	381	15.0	51	2.0	76	3.0	241.3	9.5	192	7.6	742	29.2	73	161
4 x 3*	457	18.0	460	18.1	457	18.0	76	3.0	102	4.0	292.1	11.5	225	8.9	840	33.1	120	265
6 x 4	610	24.0	613	24.1	610	24.0	102	4.0	152	6.0	381	15.0	154.5	6.1	236.5	9.3	262	578

*Lever Operated

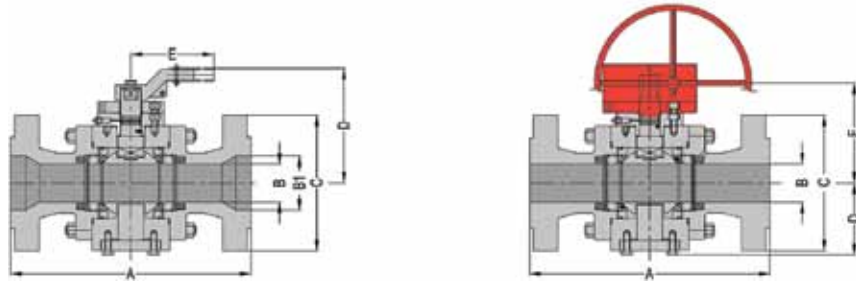


ASME 900 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	610	24.0	613	24.1	610	24.0	152	6.0	325	12.8	245	9.6	282	11.1	311	686
8	737	29.0	740	29.1	737	29.0	203	8.0	415	16.3	280	11.0	358	14.1	601	1,325
10	838	33.0	841	33.1	838	33.0	254	10.0	515	20.3	315	12.4	407	16.0	915	2,017
12	965	38.0	968	38.1	965	38.0	305	12.0	605	23.8	345	13.6	454	17.9	1,348	2,972
14	1,029	40.5	1,038	40.9	1,029	40.5	324	12.8	670	26.4	385	15.2	489	19.3	1,889	4,165
16	1,130	44.5	1,140	44.9	1,130	44.5	375	14.8	740	29.1	420	16.5	536	21.1	2,359	5,201
18	1,219	48.0	1,232	48.5	1,219	48.0	425	16.7	840	33.1	470	18.5	618	24.3	3,217	7,092
20	1,321	52.0	1,334	52.5	1,321	52.0	473	18.6	935	36.8	550	21.7	672	26.4	4,193	9,244
24	1,549	61.0	1,568	61.7	1,549	61.0	572	22.5	1,135	44.7	640	25.2	788	31.0	7,263	16,012

ASME 900 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	737	29.0	740	29.1	737	29.0	152	6.0	203	8.0	325	12.8	245	9.6	282	11.1	410	904
10 x 8	838	33.0	841	33.1	838	33.0	203	8.0	254	10.0	415	16.3	280	11.0	358	14.1	710	1,565
12 x 10	965	38.0	968	38.1	965	38.0	254	10.0	305	12.0	515	20.3	315	12.4	407	16.0	1,053	2,321
14 x 12	1,029	40.5	1,038	40.9	1,029	40.5	305	12.0	324	12.8	605	23.8	345	13.6	454	17.9	1,435	3,164
16 x 14	1,130	44.5	1,140	44.9	1,130	44.5	324	12.8	375	14.8	670	26.4	385	15.2	489	19.3	2,031	4,478
18 x 16	1,219	48.0	1,232	48.5	1,219	48.0	375	14.8	425	16.7	740	29.1	420	16.5	536	21.1	2,659	5,862
20 x 18	1,321	52.0	1,334	52.5	1,321	52.0	425	16.7	473	18.6	840	33.1	470	18.5	618	24.3	3,865	8,521
24 x 20	1,549	61.0	1,568	61.7	1,549	61.0	473	18.6	572	22.5	935	36.8	550	21.7	672	26.4	6,278	13,841



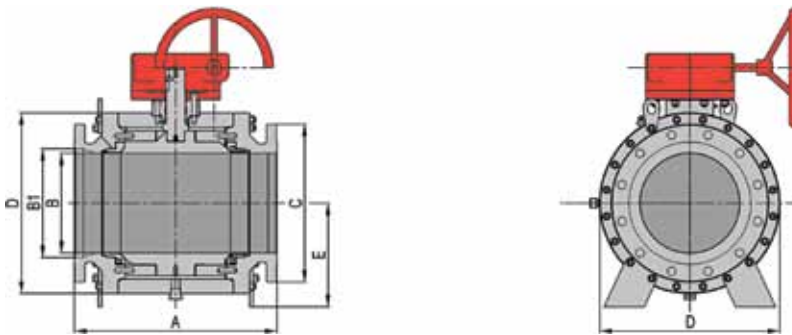
ASME 1500 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	368	14.5	371	14.6	368	14.5	51	2.0	215.9	8.5	192	7.6	742	29.2	65	143
3	470	18.5	473	18.6	470	18.5	76	3.0	266.7	10.5	168	6.6	130	5.1	130	287
4	546	21.5	549	21.6	546	21.5	102	4.0	311.2	12.3	205	8.1	154.5	6.1	245	540

ASME 1500 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	368	14.5	371	14.6	368	14.5	38.1	1.5	51	2.0	215.9	8.5	195	7.7	740	29.1	66	146
3 x 2*	470	18.5	473	18.6	470	18.5	50	2.0	76	3.0	266.7	10.5	142	5.6	105	4.1	102	225
4 x 3	546	21.5	549	21.6	546	21.5	76	3.0	100	4.0	311.2	12.3	168	6.6	130	5.1	144	317
6 x 4	705	27.8	711	28.0	705	27.8	102	4.0	152	6.0	393.7	15.5	205	8.1	154.5	6.1	326	719

*Lever Operated

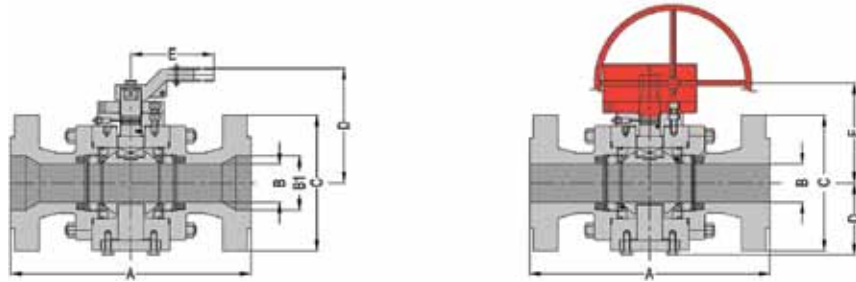


ASME 1500 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	705	27.8	711	28.0	705	27.8	146	5.7	380	15.0	250	9.8	317	12.5	473	1,043
8	832	32.8	841	33.1	832	32.8	194	7.6	485	19.1	300	11.8	392	15.4	877	1,933
10	991	39.0	1,000	39.4	991	39.0	241	9.5	590	23.2	350	13.8	450	17.7	1,473	3,247
12	1,130	44.5	1,146	45.1	1,130	44.5	289	11.4	700	27.6	400	15.7	525	20.7	2,409	5,311
14	1,257	49.5	1,276	50.2	1,257	49.5	318	13.5	770	30.3	440	17.3	585	23.0	3,145	6,934
16	1,384	54.5	1,407	55.4	1,384	54.5	362	14.3	860	33.9	480	18.9	629	24.8	4,140	9,127
18	1,537	60.5	1,559	61.4	1,537	60.5	410	16.1	980	38.6	540	21.3	710	28.0	5,800	12,787
20	1,664	65.5	1,686	66.4	1,664	65.5	456	18.0	1,080	42.5	650	25.6	765	30.1	8,120	17,902
24	1,972	77.6	1,972	77.6	1,972	77.6	544	21.4	1,260	49.6	705	27.8	780	30.7	11,300	24,912

ASME 1500 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	832	32.8	841	33.1	832	32.8	146	5.7	194	7.6	380	15.0	250	9.8	317	12.5	647	1,426
10 x 8	991	39.0	1,000	39.4	991	39.0	194	7.6	241	9.5	485	19.1	300	11.8	392	15.4	1,095	2,414
12 x 10	1,130	44.5	1,146	45.1	1,130	44.5	241	9.5	289	11.4	590	23.2	350	13.8	450	17.7	1,759	3,878
14 x 12	1,257	49.5	1,276	50.2	1,257	49.5	318	12.5	289	11.4	700	27.6	400	15.7	525	20.7	2,757	6,078
16 x 14	1,384	54.5	1,407	55.4	1,384	54.5	362	14.3	318	13.5	770	30.3	440	17.3	585	23.0	3,565	7,859
18 x 16	1,537	60.5	1,559	61.4	1,537	60.5	410	16.1	362	14.3	860	33.9	480	18.9	629	24.8	4,605	10,152
20 x 18	1,664	65.5	1,686	66.4	1,664	65.5	456	18.0	410	16.1	980	38.6	540	21.3	710	28.0	6,500	14,330
24 x 20	1,972	77.6	1,972	77.6	1,972	77.6	544	21.4	456	18.0	1,080	42.5	650	25.6	765	30.1	9,055	19,963



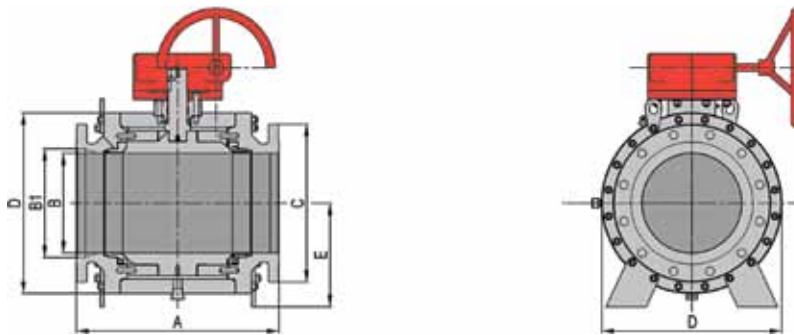
ASME 2500 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2*	451	17.8	454	17.9	451	17.8	42	1.7	234.9	9.2	199	7.8	890	35.0	102	225
3	578	22.8	584	23.0	578	22.8	64	2.5	304.8	12.0	158	6.2	257	10.1	245	540
4	673	26.5	683	26.9	673	26.5	89	3.5	355.6	14.0	169	6.7	259	10.2	450	992

ASME 2500 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2 x 1.5*	451	17.8	454	17.9	451	17.8	30	1.2	42	1.7	234.9	9.2	197	7.8	890	35.0	66	146
3 x 2*	578	22.8	584	23.0	578	22.8	42	1.7	64	2.5	304.8	12.0	199	7.8	890	35.0	200	441
4 x 3	673	26.5	683	26.9	673	26.5	64	2.5	89	3.5	355.6	14.0	158	6.2	257	10.1	310	683
6 x 4	914	36.0	927	36.5	914	36.0	89	3.5	133.1	5.2	483	19.0	169	6.7	259	10.2	540	1,190

*Lever Operated



ASME 2500 - Full Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
6	914	36.0	927	36.5	914	36.0	133	5.2	450	17.7	290	11.4	382	15.0	932	2,055
8	1,022	40.2	1,038	40.9	1,022	40.2	181	7.1	620	24.4	360	14.2	474	18.7	1,665	3,671
10	1,270	50.0	1,292	50.9	1,270	50.0	223	8.8	771	30.4	426	16.8	577	22.7	2,850	6,283
12	1,422	56.0	1,445	56.9	1,422	56.0	267	10.5	900	35.4	500	19.7	652	25.6	4,528	9,983

ASME 2500 - Reduced Bore

NOMINAL SIZE	A - RF		A - RTJ		A - BW		B		B1		C		D		E		WEIGHT	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
8 x 6	1,022	40.2	1,038	40.9	1,022	40.2	133	5.2	181	7.1	450	17.7	290	11.4	382	15.0	1,101	2,427
10 x 8	1,270	50.0	1,292	50.9	1,270	50.0	181	7.1	225	8.9	620	24.4	360	14.2	474	18.7	2,165	4,773
12 x 10	1,422	56.0	1,445	56.9	1,422	56.0	223	8.8	267	10.5	771	30.4	426	16.8	577	22.7	3,605	7,948

For sizes above 24" please consult JAGflo
Dimensions subject to change

Built with Integrity

Soft Material Specifications

Material	PTFE	RPTFE	Molon (Nylon + MoS2)	PEEK
Tensile Strength (Mpa)	24.8	25.4	75-100	91
Compressive Strength (Mpa)	35	52	100-140	137
Elongation (%)	250	120	10-30	50
Hardness (SH A)	56	60	78	82
Water Absorption (%)	<0.01	<0.01	0.7	0.12
Specific Gravity (G/cm3)	2.2	2.2	1.2	1.35
Temperature Range (°F)	-300°—400°	-150°—600°	-40°—300°	-150°—500°
Pressure Rating (Class)	150—600	150—600	150—1500	150—2500
Service Application	Chemicals & Cryogenic	Chemicals & Cryogenic	High Pressure & Low Temperature	High Pressure & High Temperature

Material	Nylon 1010	Nylon 12	Devlon V	Delrin
Tensile Strength (Mpa)	55	60	80	68
Compressive Strength (Mpa)	70	79	140	110
Elongation (%)	150	200	5.37	220
Hardness (SH A)	70	75	78	78
Water Absorption (%)	0.3	0.2	0.1	0.2
Specific Gravity (G/cm3)	1.04	1.01	1.14	1.41
Temperature Range (°F)	-40°—200°	-58°—250°	-150°—300°	-58°—230°
Pressure Rating (Class)	600—1500	600—1500	150—1500	150—1500
Service Application	High Pressure & Low Temperature	High Pressure & Low Temperature	High Pressure & Low Temperature	High Pressure & Low Temperature

Material	Viton A	NBR	Viton B	HNBR (HSN)	Viton AED
Temperature Range (°F)	-20°—400°	-50°—250°	-20°—400°	-40°—320°	-40°—480°
Hardness (SH A)	70	70	70	80	90
Specific Gravity (G/cm3)	1.85	1.2	1.85	1.33	1.9
Service Application	Petroleum Oils, Gasoline, Transmission Fluid	Petroleum Oils, Water, Hydraulic Oils	Mineral Acid, Steam MTBE	Petroleum Oils, H2S & CO2 Anti-explosive Decompression	Petroleum Oils, H2S & CO2 Anti-explosive Decompression

Material	Flexible Graphite	Spiral Wound 316 + Graphite	PTFE	Spiral Wound Monel + PTFE
Temperature Range (°F)	-300°—200°	-300°—900°	-300°—400°	-300°—400°
pH	0-14	0-14	0-14	0-14
Service Application	Firesafe	Firesafe	Cryogenic, Highly Corrosive	Highly Corrosive

ASME Pressure Temperature Charts

ASME 150

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
A105 ²	285	260	230	200	170	140	125	110	95	80	65	50	35	20	/	/	/	/	/	/	/	/	/	/	/
LF2 ²	285	260	230	200	170	140	125	110	95	80	65	50	35	20	/	/	/	/	/	/	/	/	/	/	/
SS 316	275	235	215	195	170	140	125	110	95	80	65	50	35	20	20	20	20	20	20	20	20	20	20	20	15
F51	290	260	230	200	170	140	125	110	95	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	290	260	230	200	170	140	125	110	95	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

ASME 300

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
A105 ²	740	680	655	635	605	570	550	530	505	410	320	230	135	85	/	/	/	/	/	/	/	/	/	/	/
LF2 ²	740	680	655	635	605	570	550	530	505	410	320	230	135	85	/	/	/	/	/	/	/	/	/	/	/
SS 316	720	620	560	515	480	450	440	435	425	420	420	415	385	365	160	305	235	185	145	115	95	75	60	40	
F51	750	745	665	615	580	555	545	540	530	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	750	745	665	615	580	555	545	540	530	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

ASME 600

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
A105 ²	1,480	1,360	1,310	1,265	1,205	1,135	1,100	1,060	1,015	825	640	460	275	170	/	/	/	/	/	/	/	/	/	/
LF2 ²	1,480	1,360	1,310	1,265	1,205	1,135	1,100	1,060	1,015	825	640	460	275	170	/	/	/	/	/	/	/	/	/	/
SS 316	1,440	1,240	1,120	1,025	995	900	885	870	855	845	835	830	775	725	720	610	475	370	295	235	190	150	115	85
F51	1,500	1,490	1,335	1,230	1,160	1,115	1,095	1,085	1,065	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	1,500	1,490	1,335	1,230	1,160	1,115	1,095	1,085	1,065	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

ASME 900

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
A105 ²	2,220	2,035	1,965	1,900	1,810	1,705	1,650	1,590	1,520	1,235	955	690	410	255	/	/	/	/	/	/	/	/	/	/
LF2 ²	2,220	2,035	1,965	1,900	1,810	1,705	1,650	1,590	1,520	1,235	955	690	410	255	/	/	/	/	/	/	/	/	/	/
SS 316	2,160	1,860	1,680	1,540	1,435	1,355	1,325	1,305	1,280	1,265	1,255	1,245	1,160	1,090	1,080	915	710	555	440	350	290	225	175	125
F51	2,250	2,230	2,000	1,845	1,740	1,670	1,640	1,625	1,595	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	2,250	2,230	2,000	1,845	1,740	1,670	1,640	1,625	1,595	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

ASME 1500

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
A105 ²	3,705	3,395	3,270	3,170	3,015	2,840	2,745	2,665	2,535	2,055	1,595	1,150	685	430	/	/	/	/	/	/	/	/	/	/
LF2 ²	3,705	3,395	3,270	3,170	3,015	2,840	2,745	2,665	2,535	2,055	1,595	1,150	685	430	/	/	/	/	/	/	/	/	/	/
SS 316	3,600	3,095	2,795	2,570	2,390	2,255	2,210	2,170	2,135	2,110	2,090	2,075	1,930	1,820	1,800	1,525	1,185	925	735	585	480	380	290	205
F51	3,750	3,720	3,335	3,070	2,905	2,785	2,735	2,710	2,660	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	3,750	3,720	3,335	3,070	2,905	2,785	2,735	2,710	2,660	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

ASME 2500

TEMP (F)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
A105 ²	6,170	5,655	5,450	5,280	5,025	4,730	4,575	4,425	4,230	3,430	2,655	1,915	1,145	715	/	/	/	/	/	/	/	/	/	/
LF2 ²	6,170	5,655	5,450	5,280	5,025	4,730	4,575	4,425	4,230	3,430	2,655	1,915	1,145	715	/	/	/	/	/	/	/	/	/	/
SS 316	6,000	5,160	4,660	4,280	3,980	3,760	3,680	3,620	3,560	3,520	3,480	3,460	3,220	3,030	3,000	2,545	1,970	1,545	1,230	970	800	630	485	345
F51	6,250	6,200	5,560	5,120	4,840	4,640	4,560	4,520	4,430	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F53	6,250	6,200	5,560	5,120	4,840	4,640	4,560	4,520	4,430	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

- 1) Data in Table are maximum fluid pressures at temperatures shown in top columns per ASME B16.34 - 2004. Please reference specification for confirmation of accuracy.
- 2) Permissible, but not recommended, for prolonged use above 800°F / 427°C.
- 3) For other materials, refer to ASME B16.34.

Part Number Configuration

T	B3	-	F	60	R	06	N	G	-	S2	-	01
1	2		3	4	5	6	7	8		9		10

1-Type	2-Construction	3-Port
T - Trunnion F - Floating	E1 - End Entry (1 pc) B2 - Bolted (2 pc) B3 - Bolted (3 pc) W3 - Welded (3 pc)	F - Full Port R - Reduced Port

4-Nominal Size			
05 - 1/2"	30 - 3"	140 - 14"	280 - 28"
07 - 3/4"	40 - 4"	160 - 16"	300 - 30"
10 - 1"	60 - 6"	180 - 18"	320 - 32"
15 - 1.5"	80 - 8"	200 - 20"	360 - 36"
20 - 2"	100 - 10"	240 - 24"	420 - 42"
25 - 2.5"	120 - 12"	260 - 26"	480 - 48"

5-Connection	6-Pressure	7-Body / Service
A - RF Smooth B - BW Sch 40 C - BW Sch 80 E - BW Sch XXH J - RTJ R - Raised Face X - Special	01 - ASME 150 03 - ASME 300 06 - ASME 600 09 - ASME 900 15 - ASME 1500 25 - ASME 2500	L - LF2 / NACE N - A105 / NACE X - Special

8-Operator	9-Soft Goods	10-Trim
G - Gear H - Handle B - Bare Stem	S1 - HNBR / PTFE Seats S2 - HNBR / Nylon Seats S3 - HNBR / PEEK Seats S4 - Viton / RPTFE Seats S5 - Viton / Nylon Seats S6 - Viton / PEEK Seats	01 - A105 + 3 mil ENP 02 - 316 SS 03 - 316 SS Ball/Seats, 17-4 PH Stem 04 - 17-4 PH 05 - Monel 06 - Duplex (F51)

For additional configurations, please consult JAGflo



JAGflo's commitment to quality begins with world class engineering and is the driving force behind every step of the process. We inspect and certify mills and foundries that supply our raw materials to ensure top quality products. Every component is machined using state of the art equipment in factories that adhere to our strict quality guidelines. Every single valve we build is tested to today's rigorous standards so every valve we ship is guaranteed to deliver lasting reliability, operational safety and uncompromised long-term value. JAGflo's culture is a hands-on approach to quality and a dedication to putting the customers' needs first in manufacturing, sales and service. *Our company and products are....*

Built with Integrity



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