

Guide Valve Limited



**GVS® Trunnion Mounted
Metal to Metal &
Triple Seated Ball Valves**



COMPANY PROFILE

Guide Valve Limited, established in 1980 with its headquarters in Ontario, Canada, specializes in the manufacturing of valves.

We are the manufacturer of the trademark brands such as, GVS®, VCI®, Lowe & GVS®-Malema. Our products are based on the most advanced technologies and are used in all sectors from petrochemical refining, process to transportation and distribution of the end product.

GVS® valves are designed, manufactured & tested according to API 6D & CSA Z245.15 and available to API 608. Our standard product design of Series B1 & GB1 are of the trunnion mounted, bolted body forged type ball valves.



CANADA



AP 6D: 6D-1342
ISO 9001:2015: 0052985-01



CHINA

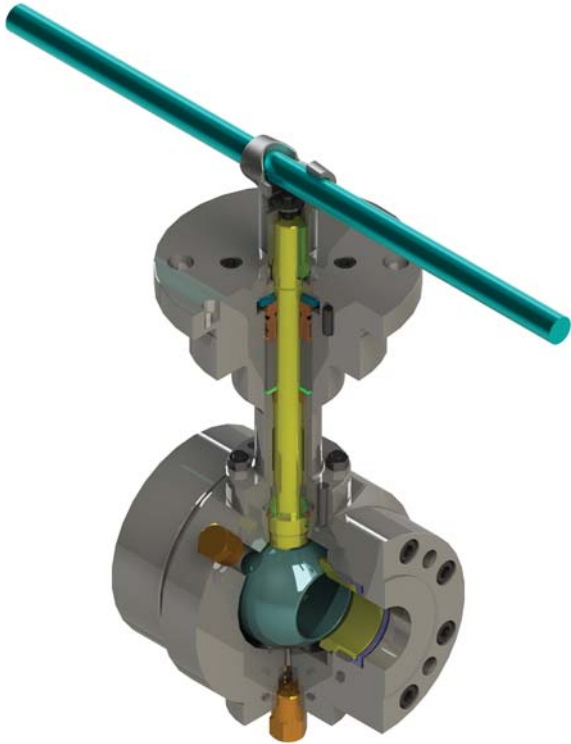


API 6D: 6D-1822
API Spec Q1: Q1-3641
ISO 9001:2015: ISO-3983

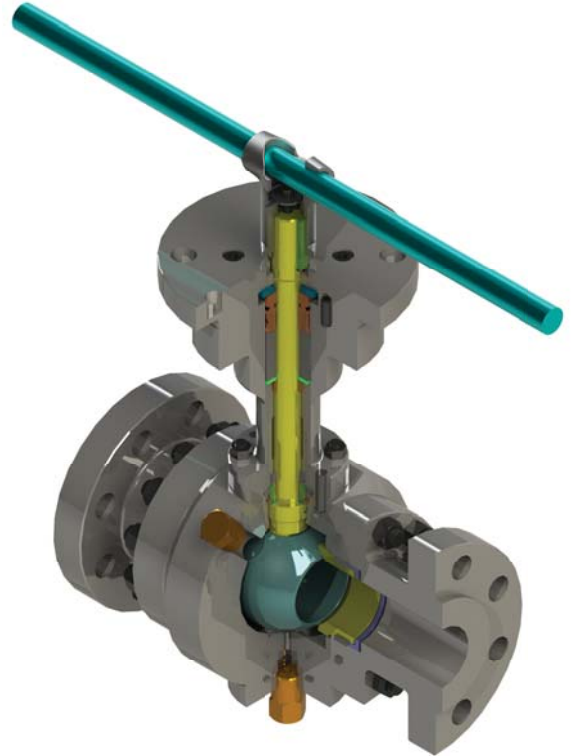


USA

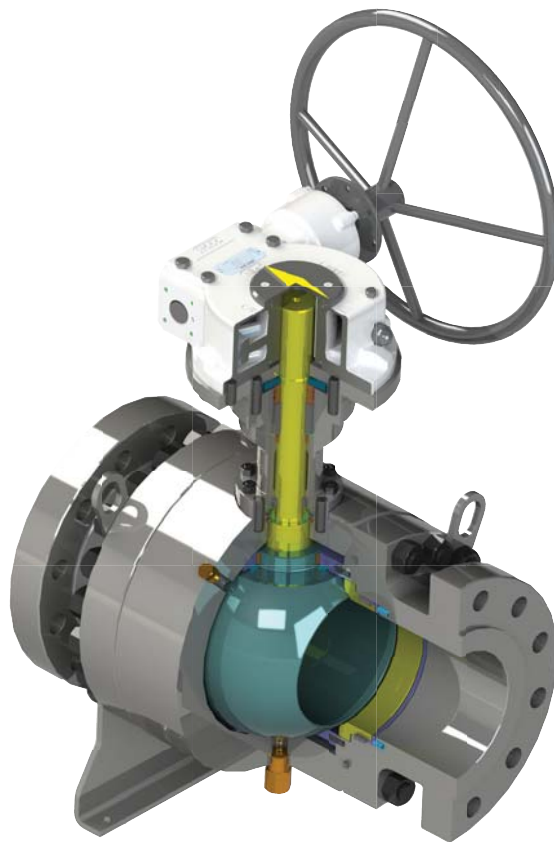
PRODUCT SERIES



Model B1
ANSI Class 150

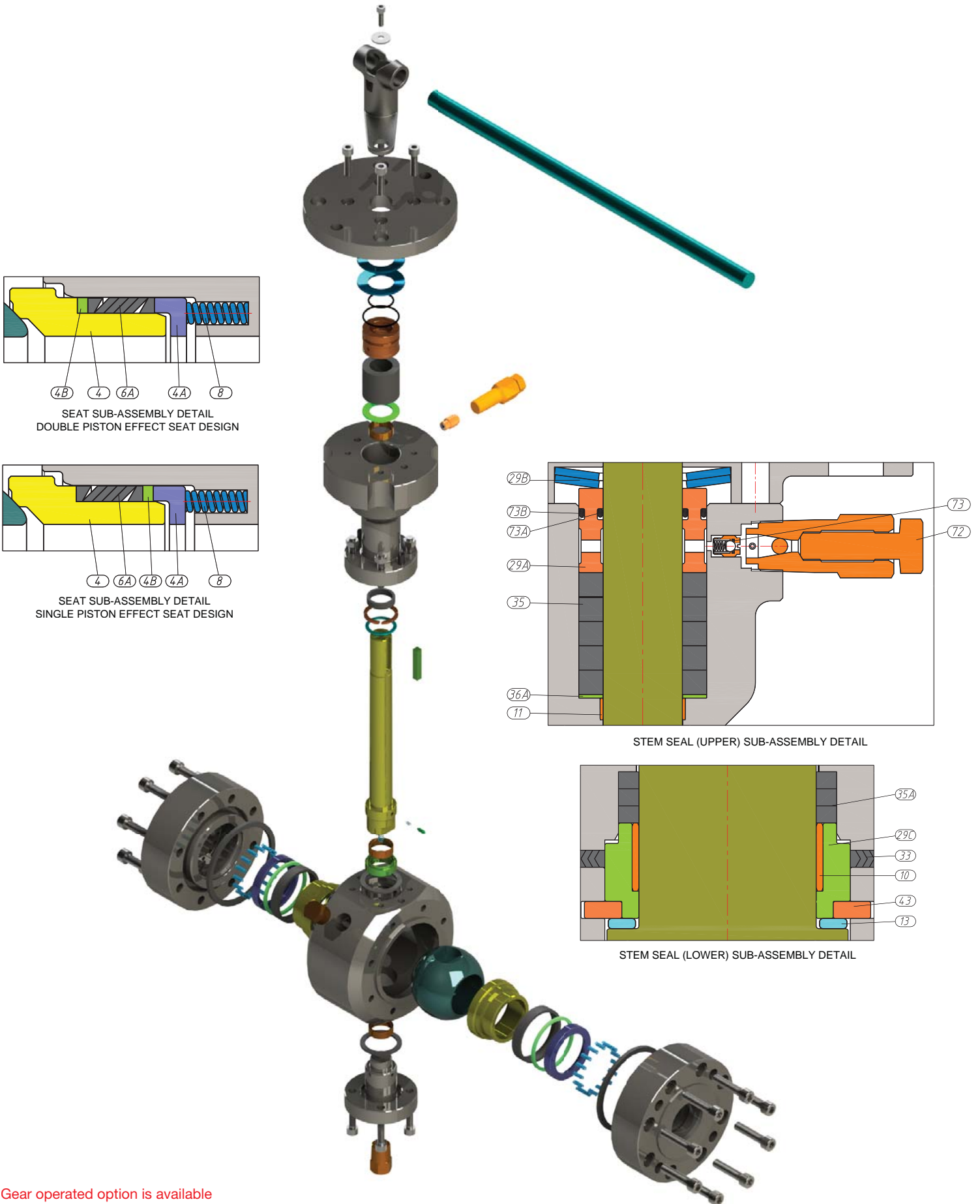


Model B1
ANSI Class 300 to 1500



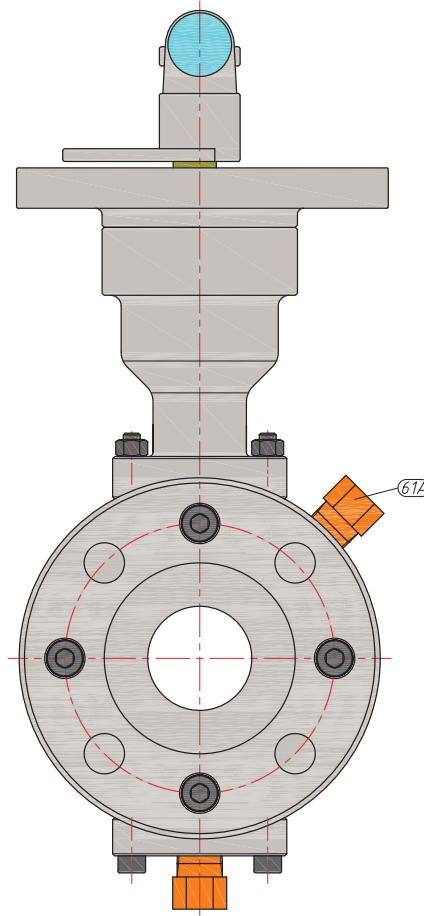
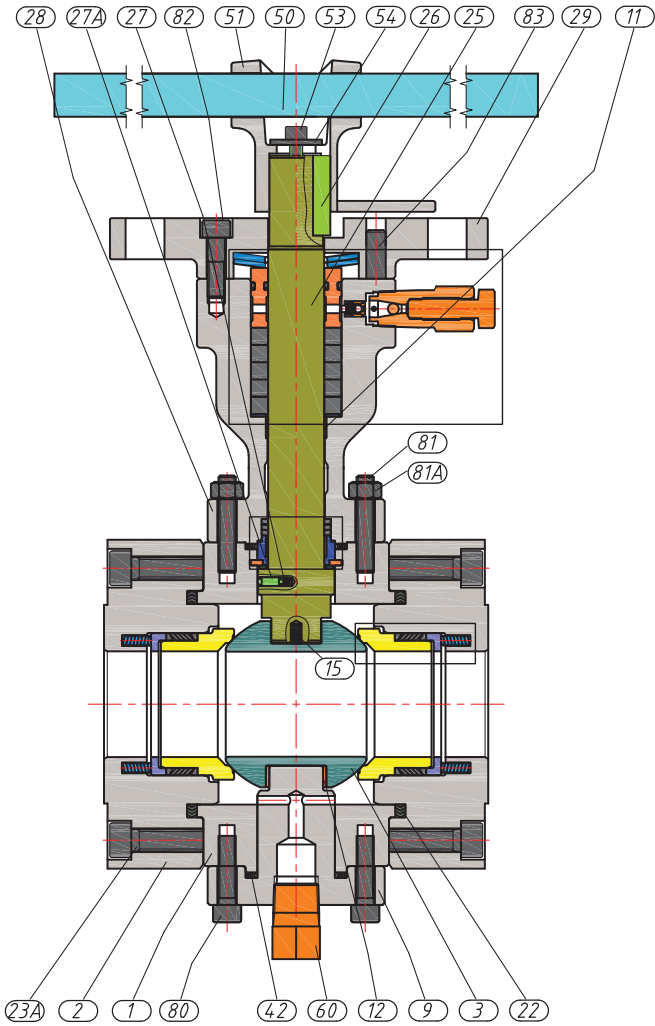
Model GB1
ANSI Class 150 to 1500

B1-EXPLODED VIEW-ANSI CLASS 150 WAFER BODY



Gear operated option is available

B1-SECTION VIEW-ANSI CLASS 150 WAFER BODY



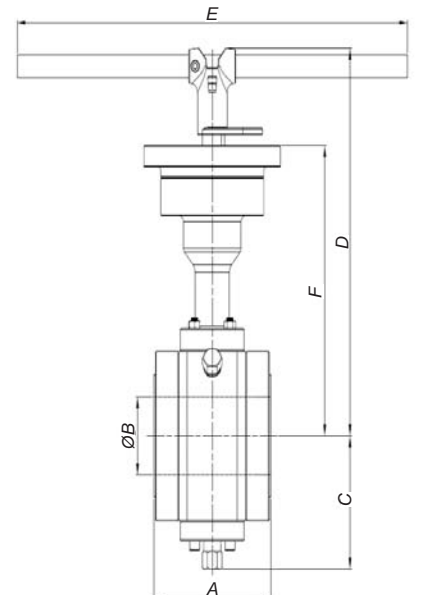
Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat
4A	Seat Retainer
4B	Metal Ring
6A	Seat seal
8	Seat springs
9	Lower Trunnion
10	Stem lower sleeve bearing
11	Stem upper sleeve bearing
12	Trunnion sleeve bearing
13	Stem thrust washer
15	Ball antistatic spring
22	Body seal
23A	Body/end adapter capscrews
25	Stem
26	Stem key
26A	Stem key pin
27	Stem antistatic spring
27A	Stem antistatic piston
28	Stem flange
29	Upper stem flange
29A	Lantern ring
29B	Disc spring
29C	Lower gland bushing
33	Stem flange seal
35	Stem upper seal
35A	Stem lower seal
36A	Washer
42	Lower trunnion seal
43	Split ring
50	Lever
51	Lever knuckle (locking type)
53	Lever knuckle - stem capscrew
54	Lever knuckle - stem washer
60	Drain valve
61A	Solid plug
72	Stem GBH grease fitting
73	Stem inner check valve
73A	Stem inner grease O-ring
73B	Stem outer grease O-ring
80	Lower trunnion capscrew
81	Stem flange studs
81A	Stem flange nuts
82	Upper stem flange capscrew
83	Upper stem flange dowel pin

VALVE SIZE	PIPELINE MOUNTING STUD	
	SIZE	LENGTH
NPS	UNC	inch
2	5/8-11	3
3	5/8-11	3 1/4
4	5/8-11	3 1/4

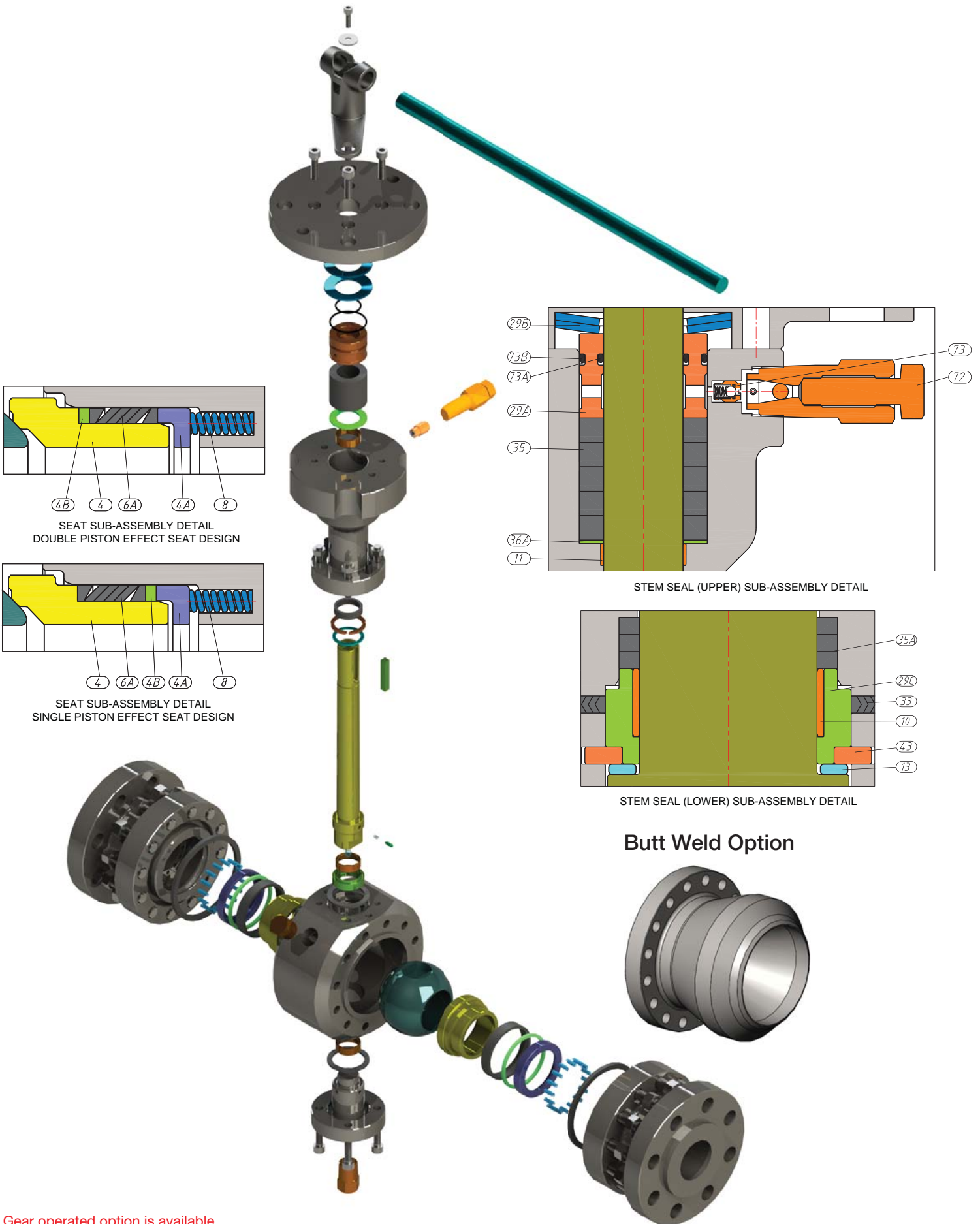
ANSI 150

VALVE SIZE	BORE SIZE	PIPELINE MOUNTING STUD			DIMENSIONS				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	51	178	191	216	123	332	355	262	36
3	76.2	203	216	283	158	390	405	289	54
4	102	229	241	305	180	446	455	332	90

For gear operated option please contact factory.

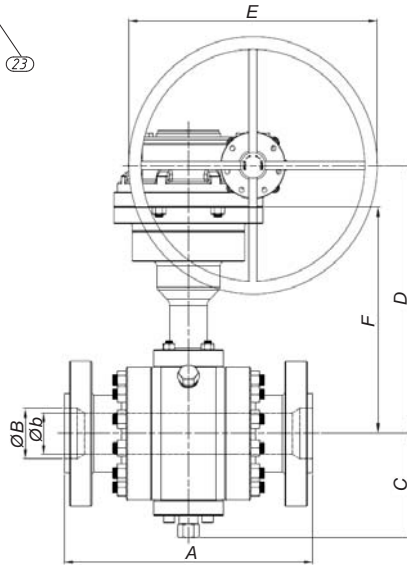
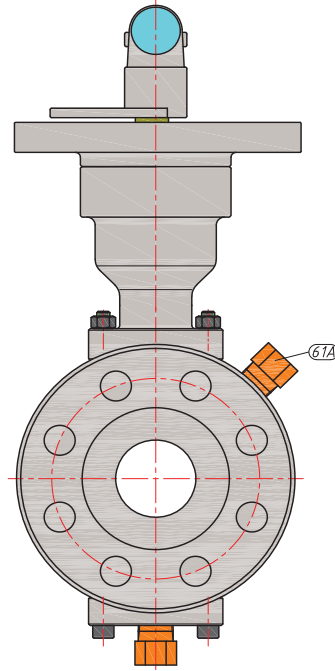
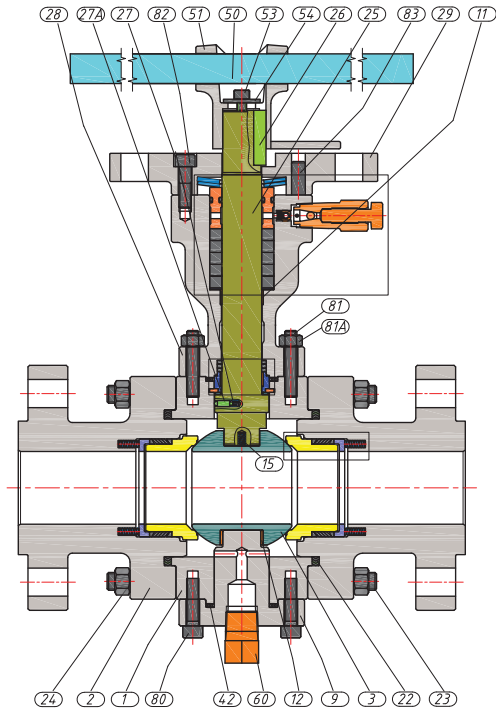


B1-EXPLODED VIEW-ANSI CLASS 300 TO 1500



Gear operated option is available

B1-SECTION VIEW-ANSI CLASS 300 TO 1500



Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat
4A	Seat Retainer
4B	Metal Ring
6A	Seat seal
8	Seat springs
9	Lower Trunnion
10	Stem lower sleeve bearing
11	Stem upper sleeve bearing
12	Trunnion sleeve bearing
13	Stem thrust washer
15	Ball antistatic spring
22	Body seal
23	Body/end adapter studs
24	Body/end adapter nuts
25	Stem
26	Stem key
26A	Stem key pin
27	Stem antistatic spring
27A	Stem antistatic piston
28	Stem flange
29	Upper stem flange
29A	Lantern ring
29B	Disc spring
29C	Lower gland bushing
33	Stem flange seal
35	Stem upper seal
35A	Stem lower seal
36A	Washer
42	Lower trunnion seal
43	Split ring
50	Lever
51	Lever knuckle (locking type)
53	Lever knuckle - stem capscrew
54	Lever knuckle - stem washer
60	Drain valve
61A	Solid plug
72	Stem GBH grease fitting
73	Stem inner check valve
73A	Stem inner grease O-ring
73B	Stem outer grease O-ring
80	Lower trunnion capscrew
81	Stem flange studs
81A	Stem flange nuts
82	Upper stem flange capscrew
83	Upper stem flange dowel pin

Lever Operated ANSI 300

VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E*	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
2	51	216	232	216	123	332	430	262	39		
3x2	76.2x51	283	298	283	123	332	430	262	43		
3	76.2	283	298	283	158	390	550	289	58		
4x3	102x76.2	305	321	305	158	390	550	289	68		
4	102	305	321	305	180	446	610	320	111		
6x4	152.4x102	403	419	457	180	446	610	320	148		

ANSI 600

VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E*	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
2	51	292	295	292	123	332	580	262	43		
3x2	76.2x51	356	359	356	123	332	580	262	48		
3	76.2	356	359	356	158	390	710	289	64		
4x3	102x76.2	432	435	432	158	390	710	289	86		

ANSI 900

VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E*	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
2	51	368	371	368	152	385	735	284	75		
3x2	76.2x51	381	384	381	152	385	735	284	89		

Gear Operated ANSI 600

VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
4	102	432	435	432	180	362	400	320	158		
6x4	152.4x102	559	562	559	180	362	400	320	226		

ANSI 900

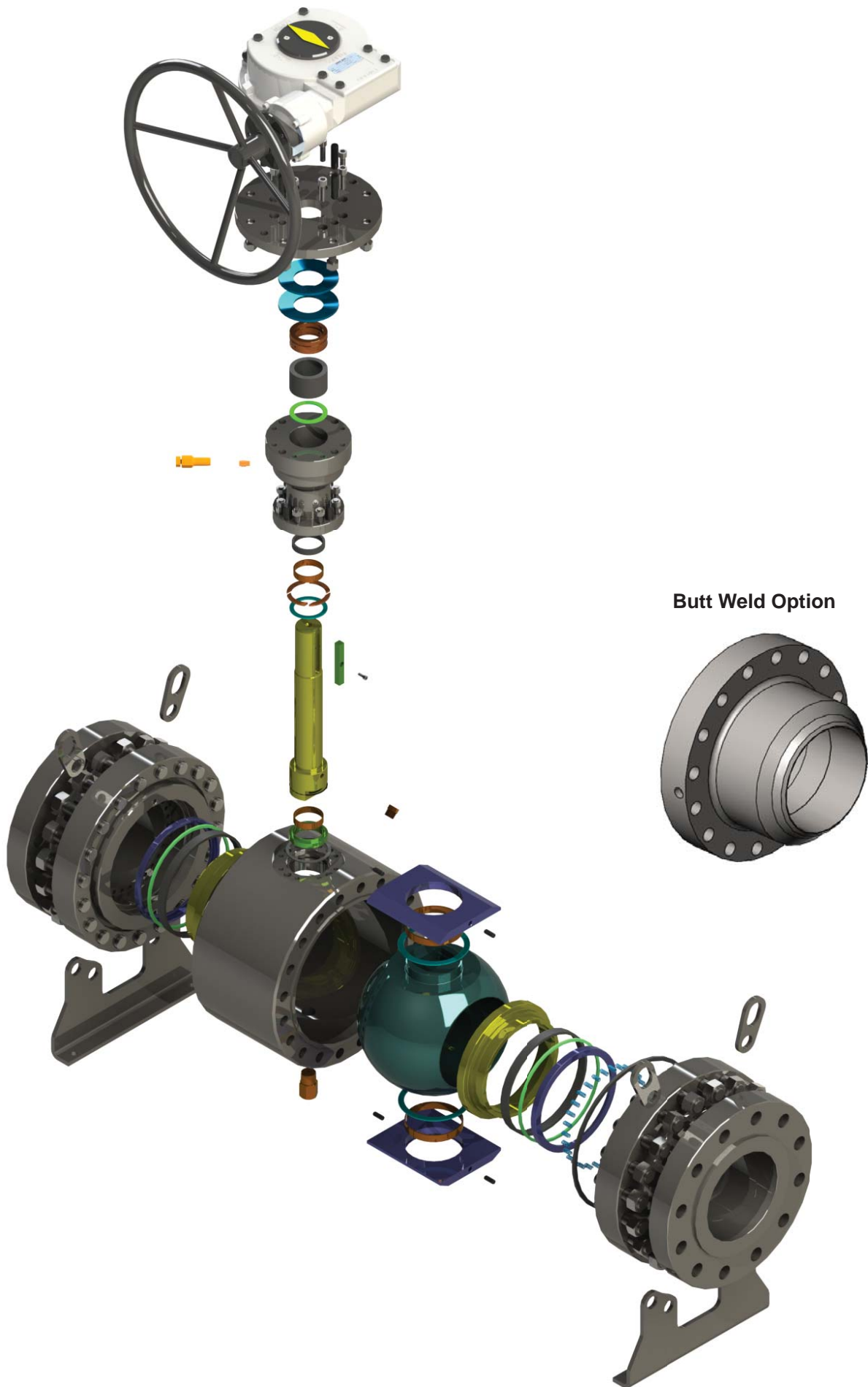
VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
3	76.2	381	384	381	193	368	400	326	135		
4x3	102x76.2	457	460	457	193	368	400	326	173		
4	102	457	460	457	201	387	400	345	264		
6x4	152.4x102	610	613	610	201	387	400	345	308		

ANSI 1500

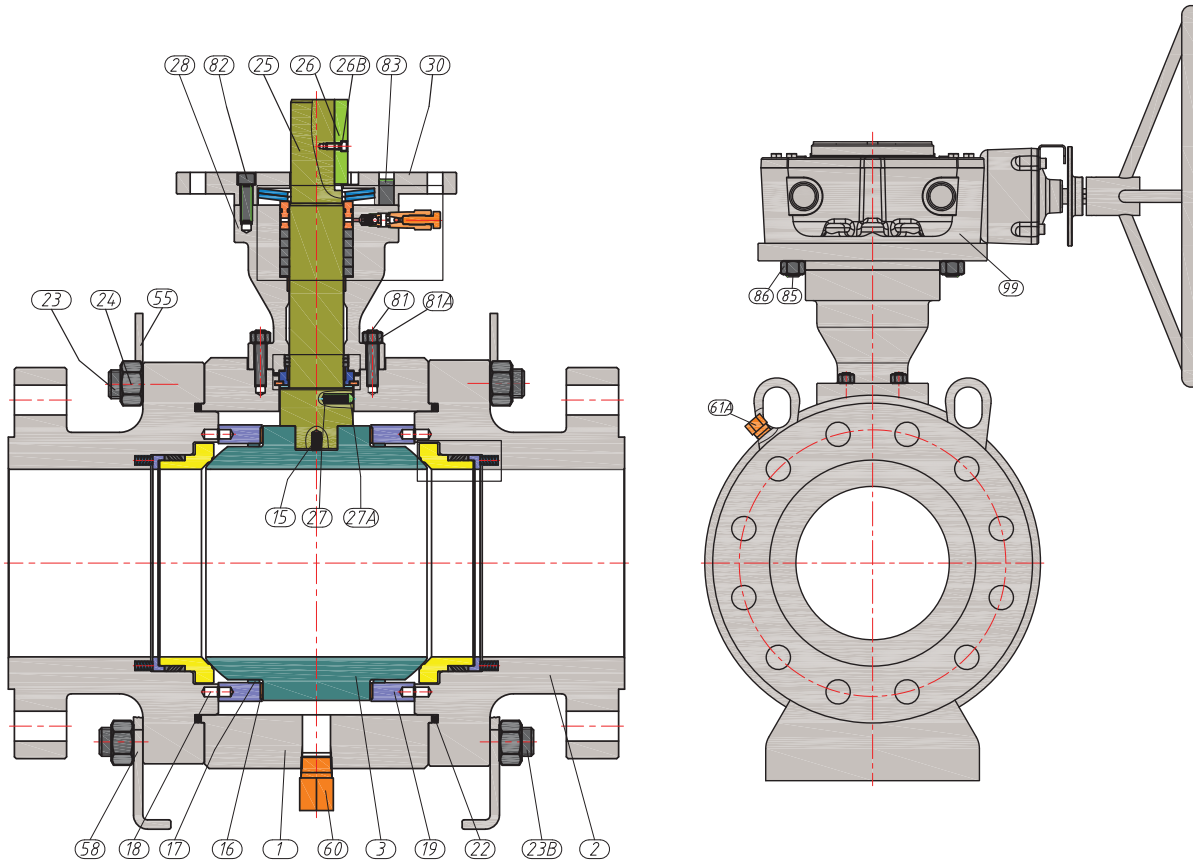
VALVE SIZE	BORE SIZE	RF			RTJ			BW			WEIGHT
		A	C	D	E	F	RF				
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg	
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
2	51	368	371	368	152	325	400	284	87		
3x2	76.2x51	470	473	470	152	325	400	284	101		
3	76.2	470	473	470	205	380	400	338	142		
4x3	102x76.2	546	549	546	205	380	400	338	180		
4	102	546	549	546	218	402	400	360	276		
6x4	152.4x102	705	711	705	218	402	400	360	320		

* Lever length. For gear operated option please contact factory.

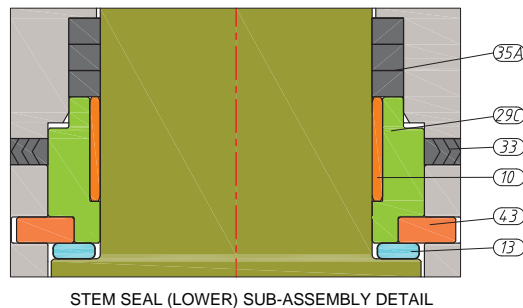
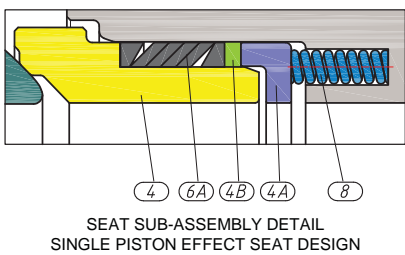
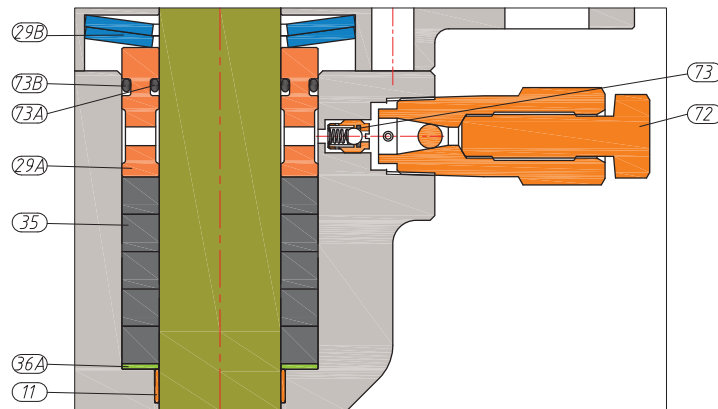
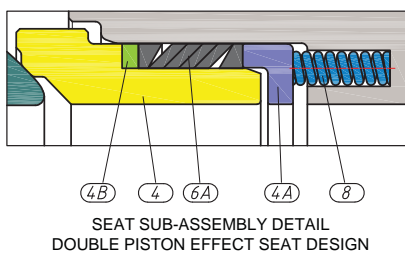
GB1-EXPLODED VIEW-ANSI CLASS 150 TO 1500



GB1-SECTION VIEW-ANSI CLASS 150 TO 1500



Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat
4A	Seat Retainer
4B	Metal Ring
6A	Seat seal
8	Seat springs
10	Stem lower sleeve bearing
11	Stem upper sleeve bearing
13	Stem thrust washer
15	Ball antistatic spring
16	Trunnion sleeve bearing
17	Ball thrust washer
18	Trunnion support pin
19	Trunnion support
22	Body seal
23	Body/end adapter Studs
23B	Body/end adapter studs(longer)
24	Body/end adapter nuts
25	Stem
26	Stem key
26B	Stem key capscrew
27	Stem antistatic spring
27A	Stem antistatic piston
28	Stem flange
29A	Lantern ring
29B	Disc spring
29C	Lower gland bushing
30	Top stop flange
33	Stem flange seal
35	Stem upper seal
35A	Stem lower seal
36A	Washer
43	Split ring
55	Lifting lugs
58	Valve support legs
60	Drain valve
61A	Solid plug
72	Stem GBH grease fitting
73	Stem inner check valve
73A	Stem inner grease O-ring
73B	Stem outer grease O-ring
76	Weather seal
81	Stem flange studs
81A	Stem flange nuts
82	Upper stem flange capscrew
83	Upper stem flange dowel pin
84	Stem flange/gearbox dowel pin
85	Stem flange/gearbox studs
86	Stem flange/gearbox nuts
99	Gearbox with handwheel(lockable)



GB1-DIMENSIONS-ANSI CLASS 150 TO 1500

ANSI 150

VALVE SIZE	BORE SIZE	RF			RTJ				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	152.4	394	406	457	325	437	400	395	229
8x6	203.2x152.4	457	470	521	325	437	400	395	266
8	203.2	457	470	521	360	480	400	438	365
10x8	254x203.2	533	546	559	360	480	400	438	426
10	254	533	546	559	420	551	400	495	540
12x10	305x254	610	622	635	420	551	400	495	630
12	305	610	622	635	457	623	600	572	828
14x10	337x305	686	699	762	420	551	400	495	812
14	337	686	699	762	510	703	600	652	1086
16x12	387.4x337	762	775	838	457	623	600	572	1044
16	387.4	762	775	838	534	754	600	699	1442
18	438.2	864	876	914	560	793	700	729	2053
20x16	438.2x387.4	914	927	991	534	754	600	699	1857
20	489	914	927	991	580	805	700	743	2700
24x20	591x489	1067	1080	1143	580	805	700	743	3465
24	591	1067	1080	1143	715	935	700	850	4053
30x24	737x591	1295	/	1397	715	935	700	850	4825

ANSI 300

VALVE SIZE	BORE SIZE	RF			RTJ				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	152.4	403	419	457	325	437	400	395	252
8x6	203.2x152.4	502	518	521	325	437	400	395	307
8	203.2	502	518	521	360	480	400	438	429
10x8	254x203.2	568	584	559	360	480	400	438	581
10	254	568	584	559	420	551	400	495	601
12x10	305x254	648	664	635	420	551	400	495	771
12	305	648	664	635	457	623	600	572	908
14x10	337x305	762	778	762	420	551	400	495	1020
14	337	762	778	762	510	703	600	652	1291
16x12	387.4x337	838	854	838	457	623	600	572	1145
16	387.4	838	854	838	534	754	600	699	1791
18	438.2	914	930	914	560	793	700	729	2370
20x16	438.2x387.4	991	1010	991	534	754	600	699	2140
20	489	991	1010	991	635	805	700	743	3000
24x20	591x489	1143	1165	1143	635	805	700	743	3849
24	591	1143	1165	1143	715	935	700	850	4503
30x24	737x591	1397	1422	1397	715	935	700	850	5361

ANSI 600

VALVE SIZE	BORE SIZE	RF			RTJ				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	152.4	559	562	559	325	437	400	395	390
8x6	203.2x152.4	660	664	660	325	437	400	395	414
8	203.2	660	664	660	360	480	400	438	559
10x8	254x203.2	787	791	787	360	480	400	438	654
10	254	787	791	787	420	551	600	495	850
12x10	305x254	838	841	838	420	551	600	495	905
12	305	838	841	838	457	623	600	572	1070
14x10	337x305	889	892	889	420	551	600	495	1247
14	337	889	892	889	510	703	600	652	1520
16x12	387.4x337	991	994	991	457	623	600	572	1349
16	387.4	991	994	991	534	754	700	699	2109
18	438.2	1092	1095	1092	560	793	700	729	2790
20x16	438.2x387.4	1194	1200	1194	534	754	700	699	2625
20	489	1194	1200	1194	650	868	700	783	3650
24x20	591x489	1397	1407	1397	650	868	700	783	4213
24	591	1397	1407	1397	730	935	700	850	5630
30x24	737x591	1651	1664	1651	730	935	700	850	6548

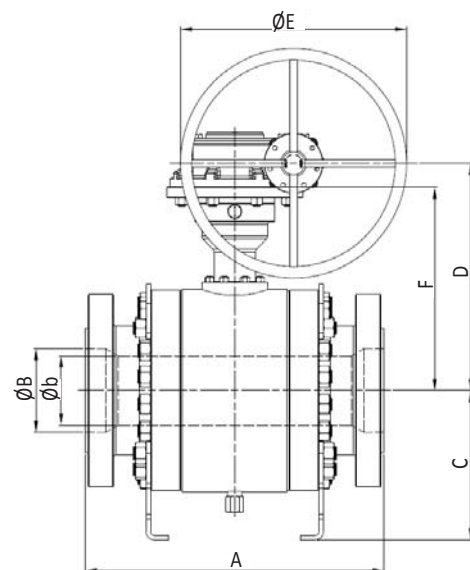
ANSI 900

VALVE SIZE	BORE SIZE	RF			RTJ				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	152.4	610	613	610	340	453	600	411	434
8x6	203.2x152.4	737	740	737	340	453	600	411	506
8	203.2	737	740	737	390	514	600	458	678
10x8	254x203.2	838	841	838	390	514	600	458	803
10	254	838	841	838	485	580	600	525	1206
12x10	305x254	965	968	965	485	580	600	525	1414
12	305	965	968	965	520	650	700	595	1594
14x10	324x305	1029	1038	1029	485	580	600	525	1518
14	324	1029	1038	1029	580	717	600	670	2060
16x12	375x324	1130	1140	1130	520	650	700	595	2009
16	375	1130	1140	1130	600	594	700	781	2420
18	425.5	1219	1232	1219	695	803	700	710	3346
20x16	425.5x375	1321	1334	1321	600	594	700	781	3081
20	473.1	1321	1334	1321	745	913	700	825	4238
24x20	571.5x473.1	1549	1568	1549	745	913	700	825	5336
24	571.5	1549	1568	1549	810	1012	700	910	6756
30x24	714.4x571.5	1880	1902	/	810	1012	700	910	7858

ANSI 1500

VALVE SIZE	BORE SIZE	RF			RTJ				WEIGHT
		RF	RTJ	BW	C	D	E	F	
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6	146.1	705	711	705	363	477	600	435	434
8x6	194x146.1	832	841	832	363	477	600	435	506
8	194	832	841	832	418	538	600	492	678
10x8	241x194	991	1000	991	418	538	600	492	803

Note: ANSI class 2500 is available upon request.



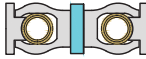







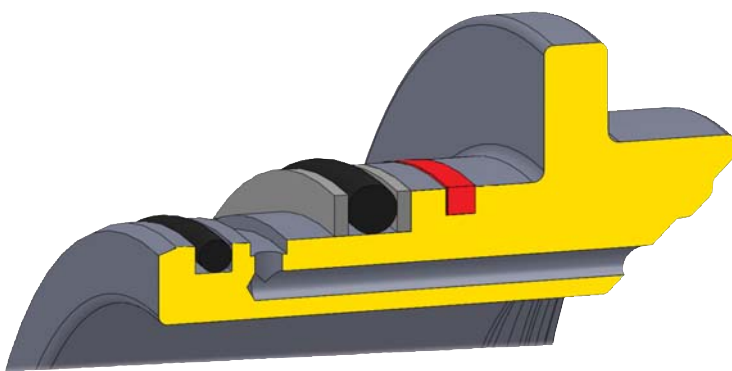
DESIGN FEATURES

FEATURES

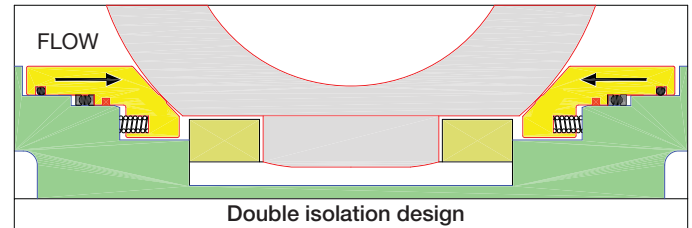
- Bolted body type
- Full and reduced bore
- All forged steel components
- Firesafe certified anti-static devices
- Trunnion mounted, double block and bleed
- Anti-blow out stem design per API 608
- Double piston effect, self relieving seats, or combination of the two seat designs
- Optional shut-off ratings
- Ball loads are distributed over large surface areas of two self lubricating bearings, enabling them to work under a low specific pressure thus reducing wear
- Very low bending loads are exerted on the trunnions

SEAT TO BODY SEALING OPTIONS:

- Graphite 
- O-ring with back-up rings 
- DPE spring energized lip-seal 
- SPE spring energized lip-seal 
- Chevron® V-ring packing 
- Elastomeric O-ring 
- DPE shuttle with elastomeric o-rings 
- Elastomeric O-ring loaded U-seal 



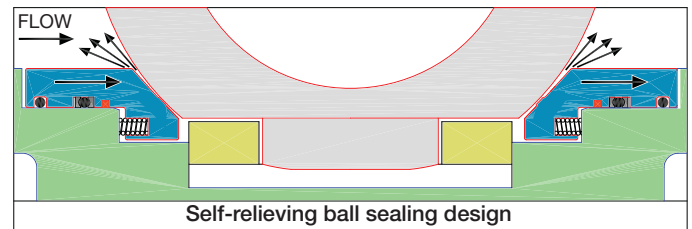
UP TO +240°C (464°F)



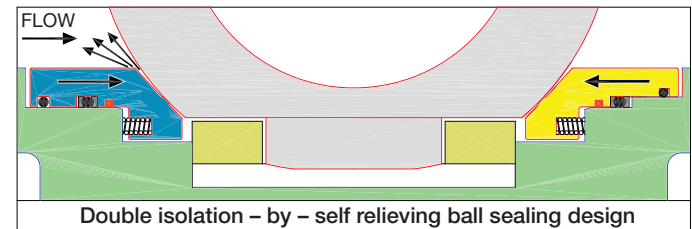
Double isolation design

API 6D - DIB-1

Optional Valve Seat Sealing Designs

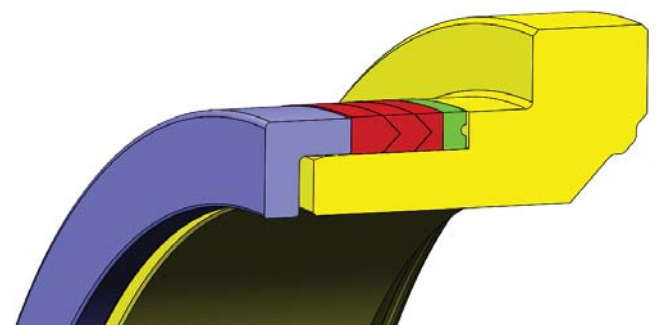


Self-relieving ball sealing design



Double isolation – by – self relieving ball sealing design

API 6D - DIB-2



UP TO +350°C (662°F)

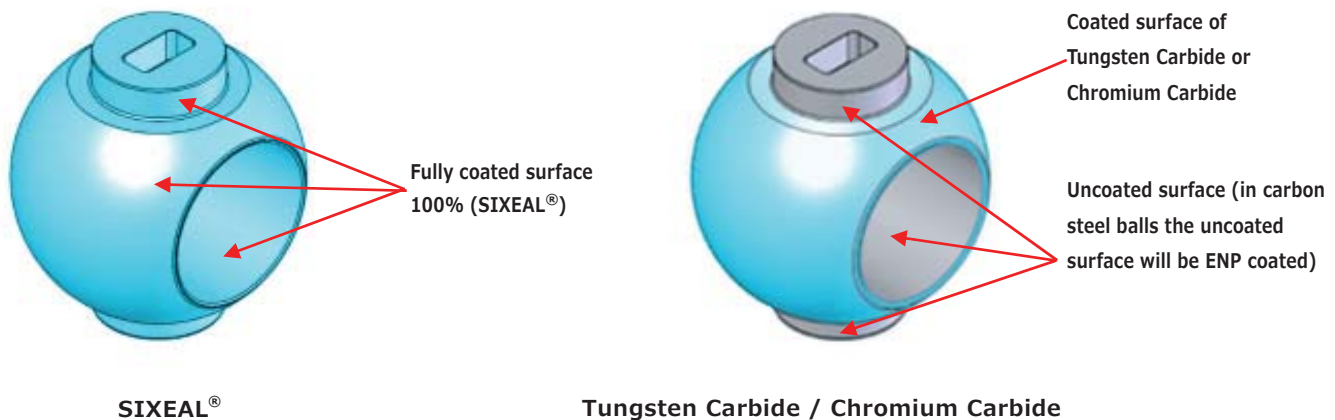
Note: Higher temperature design is available upon request.

COATING OPTIONS

SIXEAL® is recommended onto our GVS® Trunnion Mounted Metal to Metal Ball Valves where high resistance to abrasion, corrosion and wearing are required. For example, in slurry and sandy environments SIXEAL® is a viable alternative to HVOF coating.

SIXEAL® Technology:

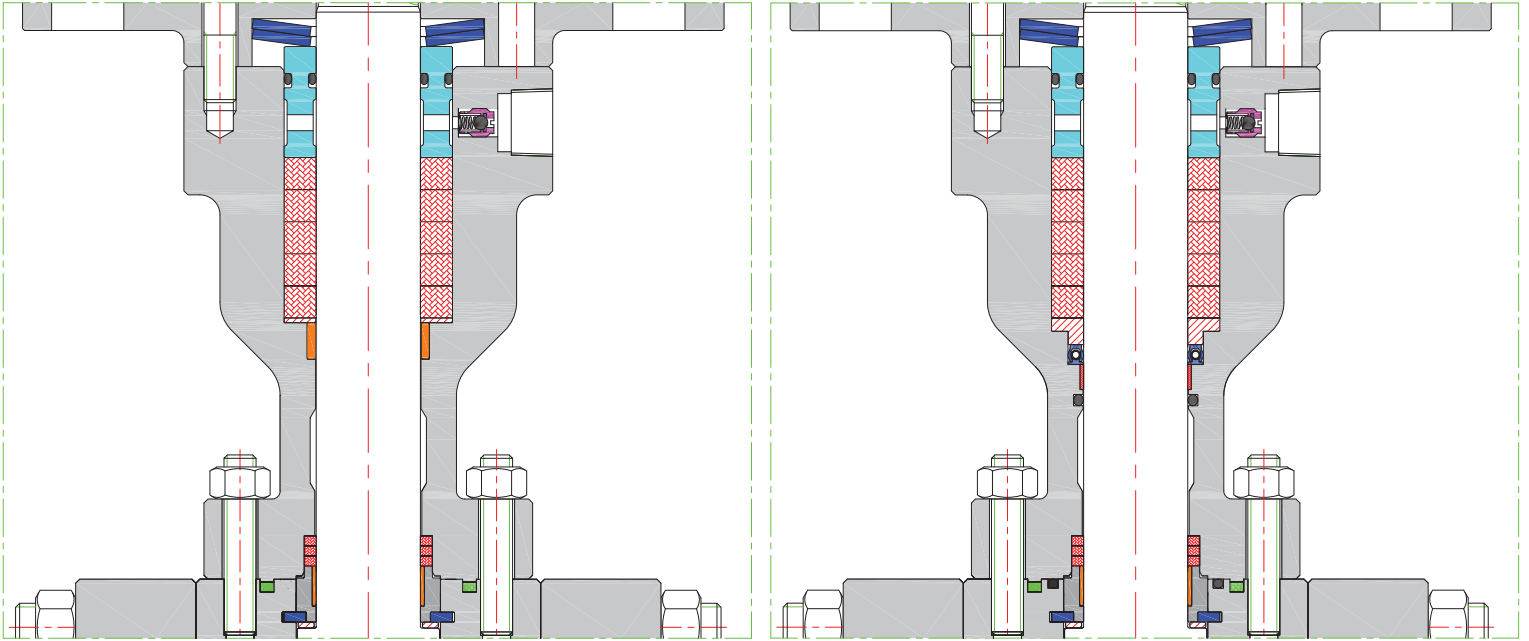
Micro-particles of silicon carbide are added into the ENP bath to obtain a final plating in which incorporated sub-particles are evenly distributed all over the treated surfaces. The result is a homogeneous hard-faced element strongly incorporated in a nickel matrix, matching the hardness properties of silicon and the chemical resistance of ENP. This uniquely developed process is based on electroless nickel plating procedure. SIXEAL® coating thickness is maintained equally all over the coated surfaces, “complete ball”. This process eliminates any further grinding or machining of the ball’s outer surface.



Coatings	ENP	Tungsten Carbide	Chromium Carbide	SIXEAL®
Typical Hardness (Hv)	1000	1050	850	1200
Recommended Operating Temperature (°C)	-196 up to 240	-196 up to 230	-146 up to 550	-196 up to 550
Thickness (µm)	10 - 75	150 - 400	150 - 400	15 - 75
STD Roughness (Ra)	0.20	0.25	0.25	0.20
Superfinishing (Ra)	0.10	0.15	0.15	0.10
Perfect Fit	Excellent	Excellent	Excellent	Excellent
Hardness	Excellent	Excellent	Fair	Excellent
Coating Uniformity On All Surfaces	Yes	No	No	Yes
Constant Torque Performance	Good	Good	Fair	Good
Wearing, Abrasion and Erosion Resistance	Good	Good	Fair	Excellent

Note: Higher temperature coating is available upon request.

FUGITIVE EMISSION / FIRESAFE



UP TO + 350°C (662°F) DESIGN

UP TO + 240°C (464°F) DESIGN

Note: Higher temperature design is available upon request.



FIRESAFE CERTIFICATION

GVS® ball valves are "FIRESAFE" certified to meet international standards.

API 607
API 6FA
BS 6755 Part 2



FUGITIVE EMISSION CERTIFICATION

ISO 15848-2:2006
ANSI/ISA S93.00.01

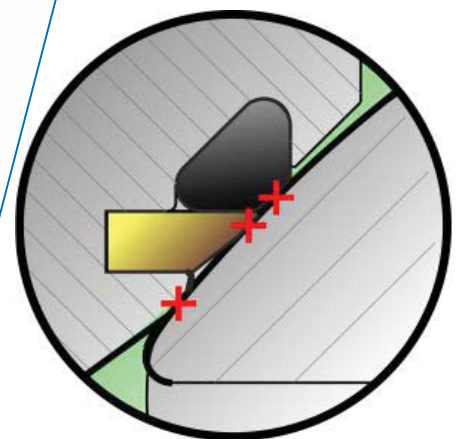
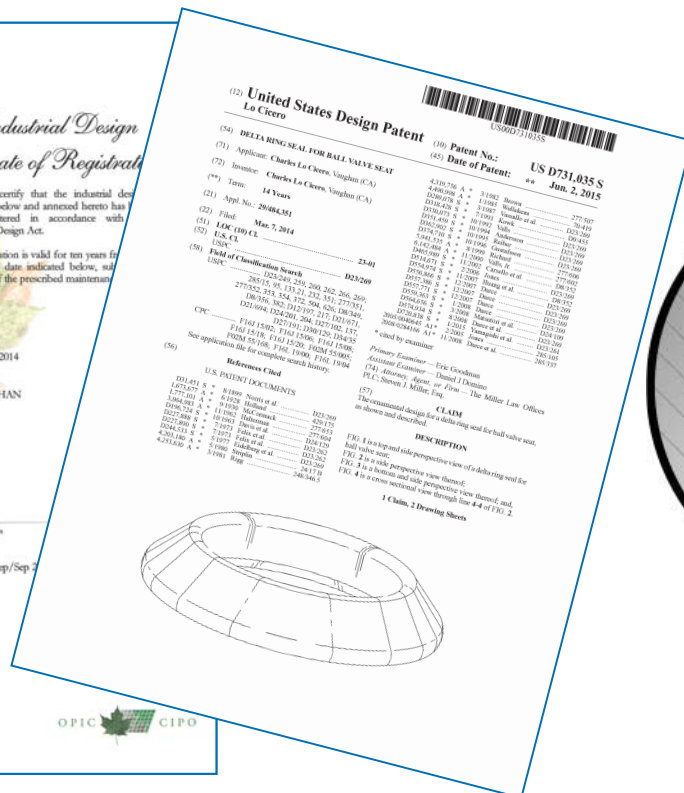
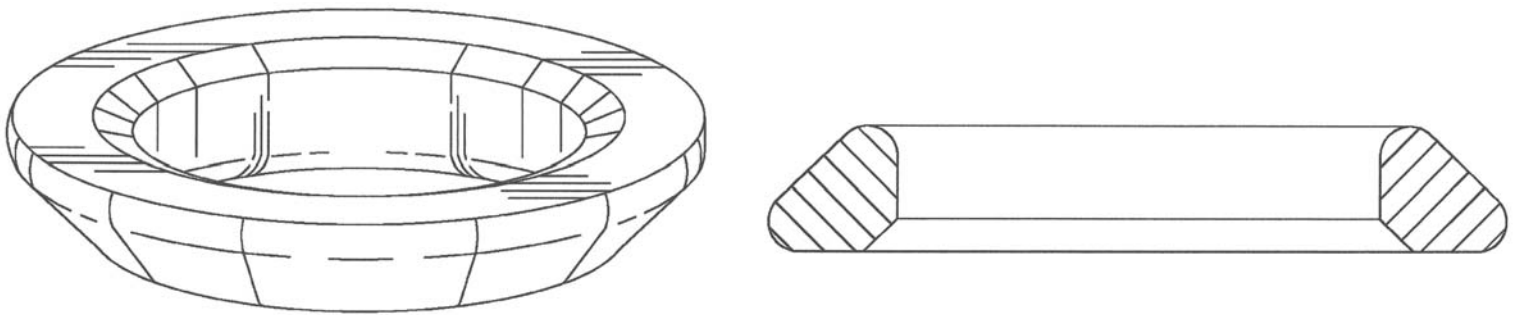
TRIPLE SEATED TRUNNION MOUNTED BALL VALVES

Triple Seat Seal Feature

Triple seat feature is offered by Guide Valve Limited to assure tight sealing in both low pressure and high pressure operation points. Triple sealing is suitable for many applications; in particular for critical condition to guarantee tight sealing in every pressure condition. This is achieved by means of combining Guide Valve's unique seat to ball design which is incorporating our patented special shaped Delta seat with the Protector / Scraper seat and metal seat design.

Triple seat to ball sealing design allows to have three different type of seals: resin, elastomeric (Delta) and metal sealing.

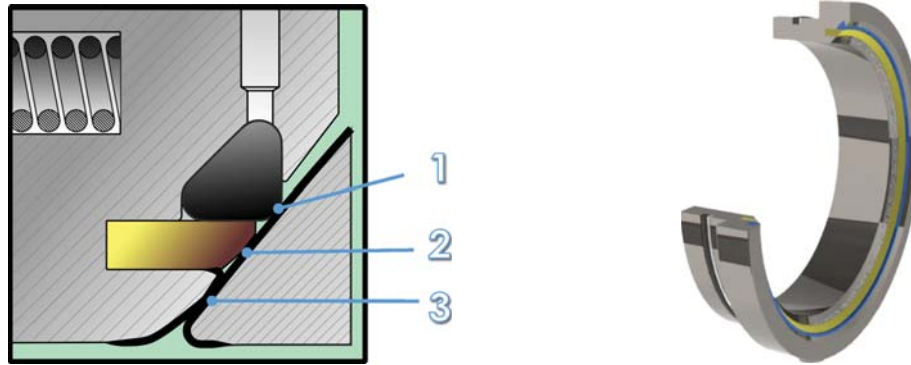
The special shaped Delta seat ([US design patent#: US 731, 035S](#) and [Canadian design patent#: 155048](#)) ensures zero leakage at very low pressure and continues to provide shut-off at higher pressures.



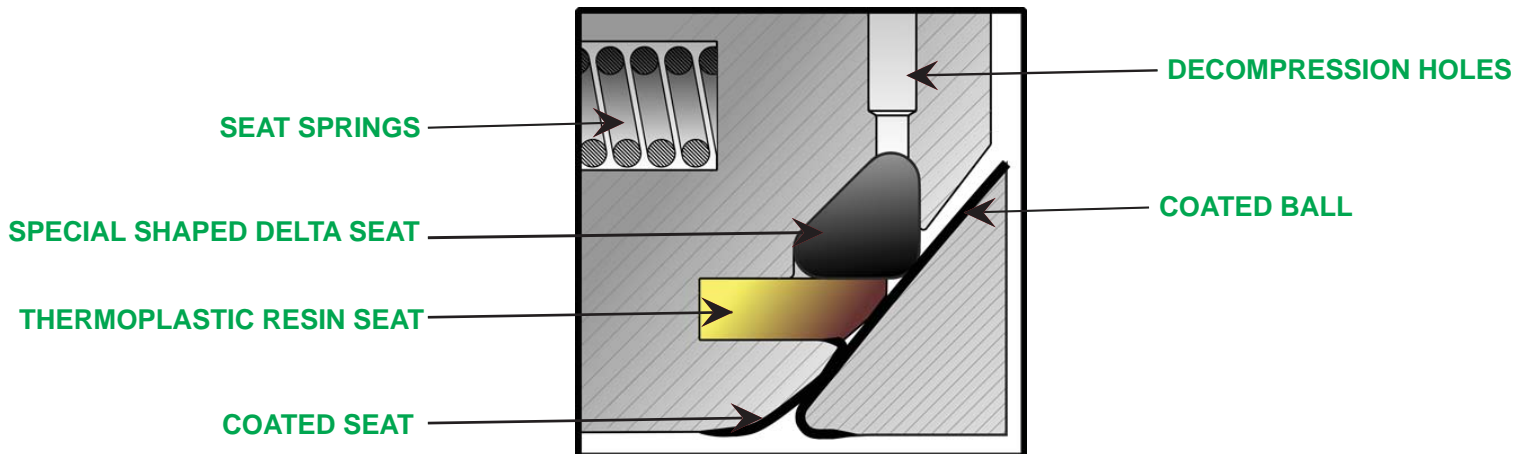
Resin seat insert provides seat to ball shut-off performance as well as protecting the special shaped Delta seat.

Furthermore, the metal contact face of the seat to the ball provides ball to seat shut-off sealing and protects the resin and elastomeric seats from wearing and scraping.

TRIPLE SEATED TRUNNION MOUNTED BALL VALVES



	1	2	3
ANSI Valve Class	Elastomeric (Delta) sealing working from:	Resin sealing working from:	Metal sealing working from:
150	0 psi	0 psi	0 psi
300			
600			
900			
1500			
2500			



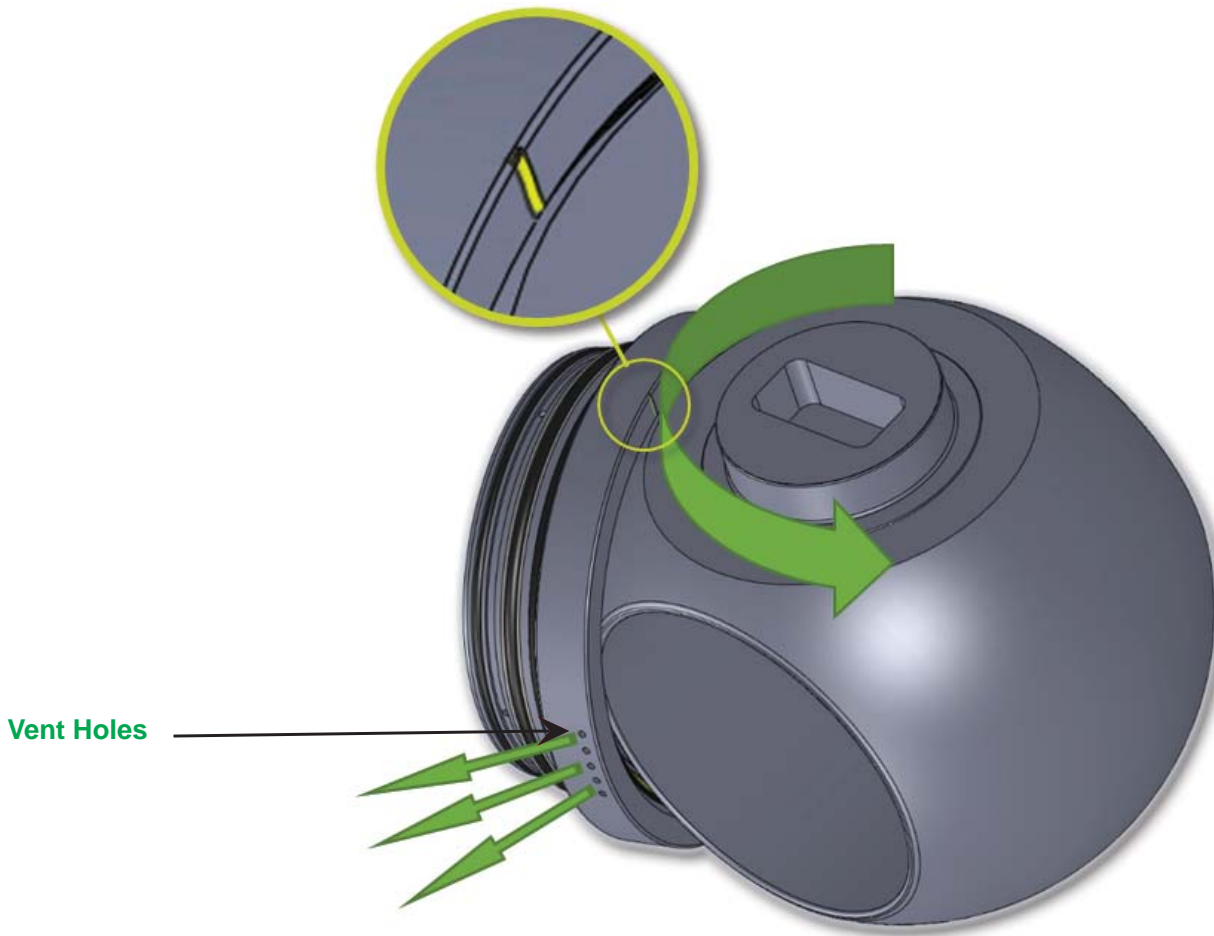
ANTI-EXPLOSIVE DECOMPRESSION SEALS

All of the elastic compounds present a permeability to gases at different levels. The pressured gas penetrates below the O-ring surface forming air pockets in the intermolecular spaces. The quantity of absorbed gas depends on the type of the compound, the gas in contact with it, the temperature and pressure of the gas.

The instance described previous can be the cause of damage to the O-ring, if it is followed by an abrupt reduction in pressure and the consequent dilation of the ring, the gas included in the compound has an explosive behavior. The explosion of the air pockets contained in the compound causes the laceration of the O-ring surfaces. All GVS® Triple Seated Trunnion Mounted Ball valves have AED, “Anti-Explosive Decompression” O-ring. Therefore the above “Explosive Decompression” can not occur.

TRIPLE SEATED TRUNNION MOUNTED BALL VALVES

Seat Vent Holes (Decompression Holes)



Vent holes are a feature of elastomeric soft sealing, which is strictly dimensioned as per size of the seats to avoid Delta extrusion during valve cycles.

Following example describes the functionality of vent holes; consider a plugged toothpaste tube, squeezing it by sliding the fingers from the bottom of the tube to top will result in accumulation of all contained toothpaste on the top part of the tube and swelling of the tube.

Imagine the toothpaste scenario where the special shaped Delta seat in its metal groove is acting like toothpaste and the ball is acting like the squeezing fingers. The rotation of the ball, sliding from position 3 o'clock to 9 o'clock will squeeze the Delta shaped seal and will cause a rubber swelling at 9 o'clock position of the seat. Without the vent holes, radius on ball will probably pinch / damage the extruding Delta shaped seal.

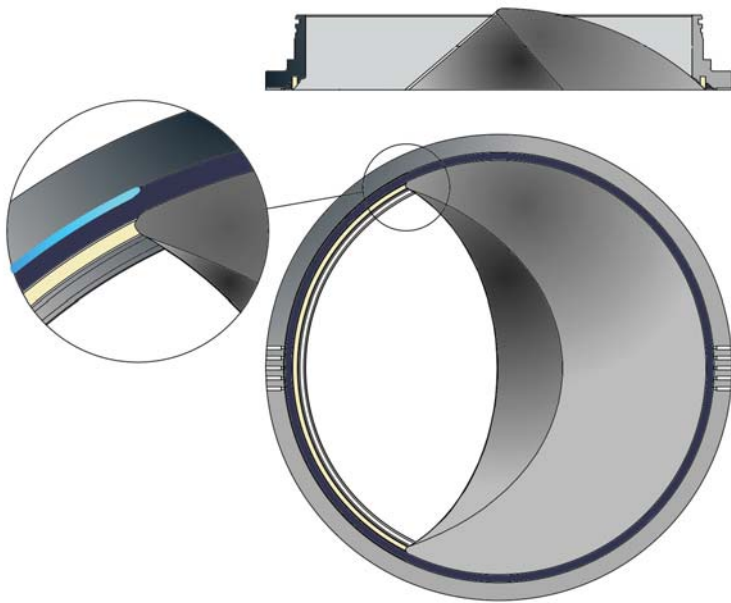
With the vent holes, Delta shaped seal will easily get back into its specially shaped metal groove letting the thermoplastic seat protect it. Illustrations on next page will help to better understanding of the function of vent holes.

TRIPLE SEATED TRUNNION MOUNTED BALL VALVES

How Vent Hole Works

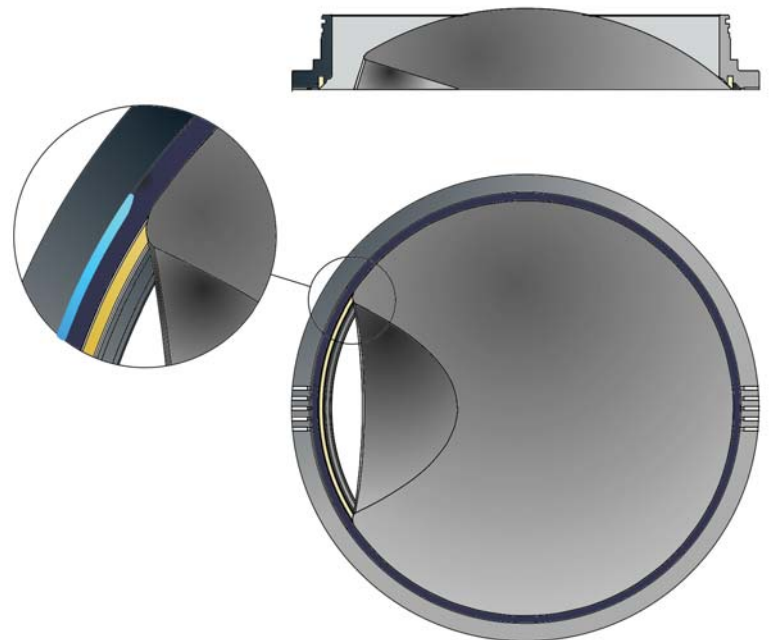
Phase 1-Valve is being closed at 45°:

Delta seat is being compressed gradually by ball, creating a very thin pressure chamber.



Phase 2-Valve is being closed at 70°:

Delta seat continues pushing any fluid in the groove from the top of the seat to the radial holes.



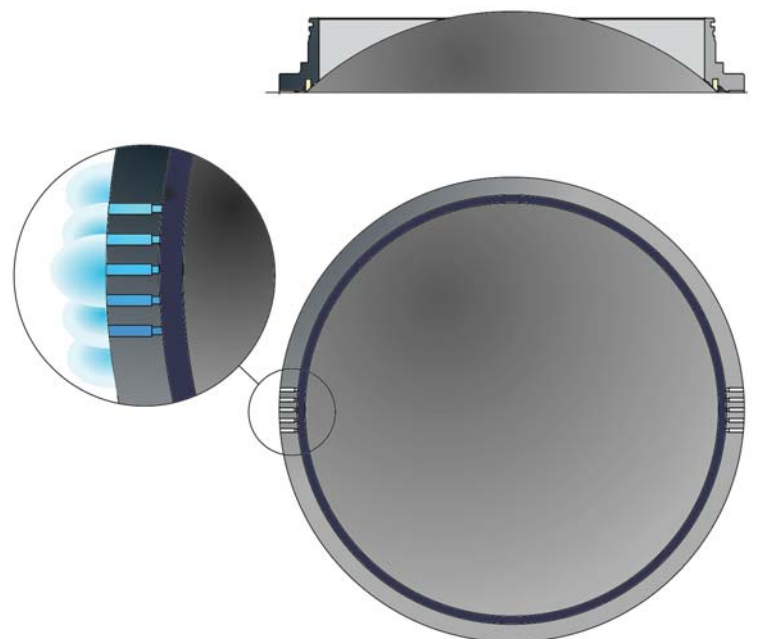
Phase 3-Valve is being closed at 85°:

Delta seat detaches from radial hole but in this condition the pressure difference does not permit any fluid injection into groove and the trapped pressure is relieved from the relief holes.



Phase 4-Valve is closed at 90°:

Delta seat goes back into its initial condition and the elastomeric Delta shaped seat naturally and hermetically plugs the radial relief holes.



RECESSED BALL FEATURE

TWO COMMON PROBLEMS WITH BALL VALVES THAT HANDLE CORROSIVE AND EROSIVE MEDIA

BALL PITTING

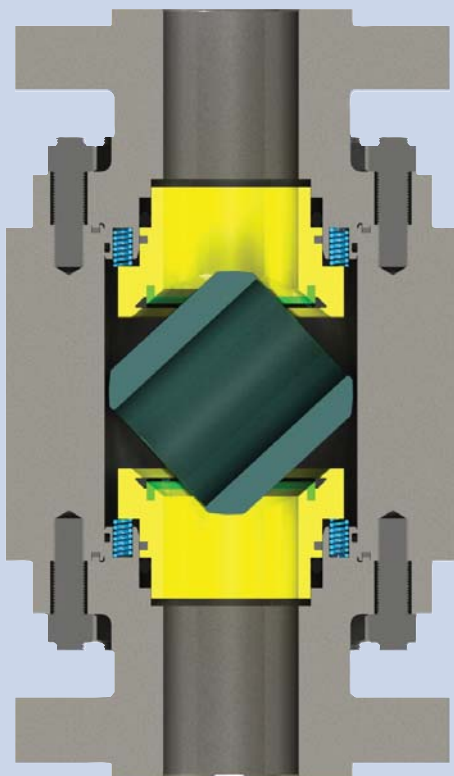
With the valve in the close position, the face which is exposed upstream to the corrosive gasses and fluids tends to pit within the area of the ball bounded by the valve seat, causing the critical smooth surface finish to become rough. Because the ball is fitted with zero clearance to the seats, any roughness or protrusions caused by corrosive or erosive attack will damage the valve seats when the ball is rotated. Once the seats are damaged, effective sealing is lost. Continued cycling increases seat damage.

FLUID DEPOSITS

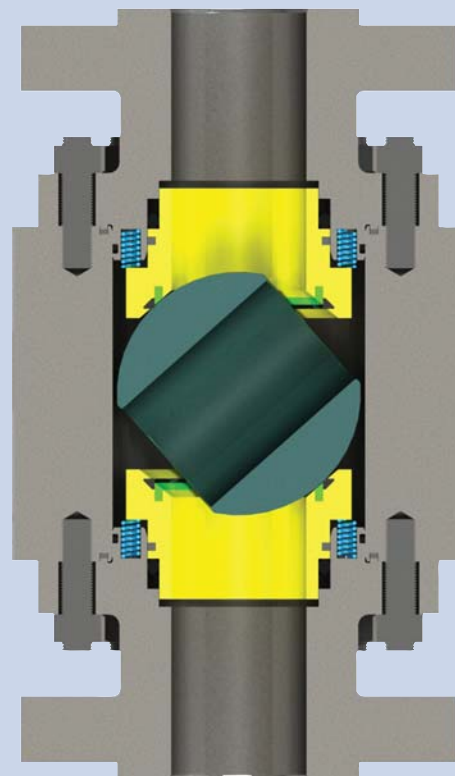
Valves that handle fluids and gases that tend to deposit crustations, or leave residue on the inner valve surfaces, will become hard to operate. With the ball valve in the closed position for lengthy time periods, the build-up of deposits adheres to the ball face within the seat boundaries, causing interference with the valve seats during attempts to cycle the valve. Only a few thousandths deposit on the ball face will increase turning torque and damage seats. Excessive crustations or residue on the ball face will make the valve inoperative.

ADVANTAGES OF A VALVE WITH THE RECESSED BALL FEATURE

- Build-up does not contact the seat surface
- Valve longer life in extreme conditions
- Less contact area between ball and seats



Recessed Ball Valve



Typical Ball Valve

OTHER METAL TO METAL PRODUCTS WE MANUFACTURE

VCI®-201M Series

Metal to Metal seated, 3 pieces bolted body ball valve in 1/2" to 4", in NPT, SW, BW & RF flanges with temperature range up to +350°C (+662°F).



VCI®-F200M Series

Metal to Metal seated ball valve in 1/2" to 12" of ANSI Class 150 to 2500, RF Flanged, Full Ported, Bolted Body style with temperature to +350°C (+662°F).

Lowe Valve Series

The Lowe valve design offers an unique quarter turn rotary wedge action, Metal to Metal seated valve which provides bubble tight shut-off performance. Features such as non-lubricated, low torque, quarter turn operation, multiple wear compensation adjustments, back seating and economical quarter turn actuator compatibility are an integral part of this valve. The Lowe valve is a proven high pressure, high temperature valve to +649°C (+1,200°F). Available in Carbon Steel and Stainless Steel construction with Threaded, Socket-Weld, Butt-Weld or Flanged Ends to ANSI class 900 and to sizes of 2".





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