

GUIDE VALVE LIMITED

GVS® Trunnion Mounted Soft Seated Ball Valves Series B2 & GB2-04 (Dual Seats c/w Lip Seals)



Distributors/Agents



**GLOBAL
SupplyLine**

Global Supply Line are Guide Valve stockists, distributing to Australia, NZ & PNG, and can automate, service & test in our Adelaide Lloyd's 9001 facility, approved by Guide Valve.

Contact us: sales@globalsupplyline.com.au

Stock lists at our website: www.globalsupplyline.com.au



FUGITIVE EMISSION CERTIFIED

www.gvs-vci.com

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.

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, API 6A and CSA Z245.15 and are available to API 608. Our standard product design of Series B2 & GB2 are the trunnion mounted, bolted body forged type ball valves of Double Piston Effect (DIB) with our unique Protector/Scraper double soft seated seal feature. This double seat feature was developed to assure a superior seat to ball soft shut-off performance and longevity of in-service life longevity of in-service life on valves up to 900# ANSI.



CANADA

ISO 9001: 2015: 0052985-01

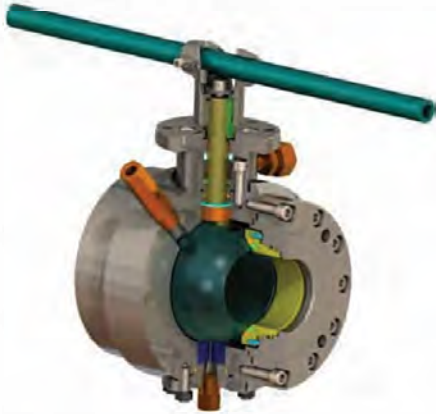


CHINA

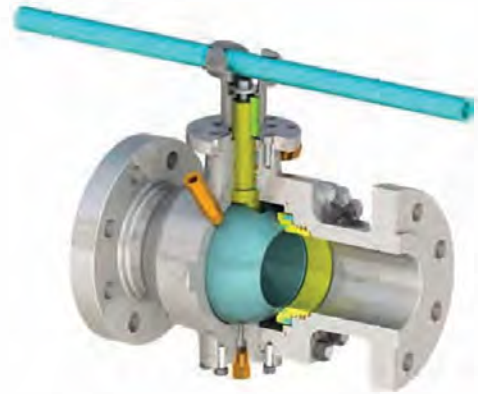
API 6D: 6D-1822
API 6A: 6A-2250
API Spec Q1: Q1-3641
ISO 9001: 2015: ISO-3983



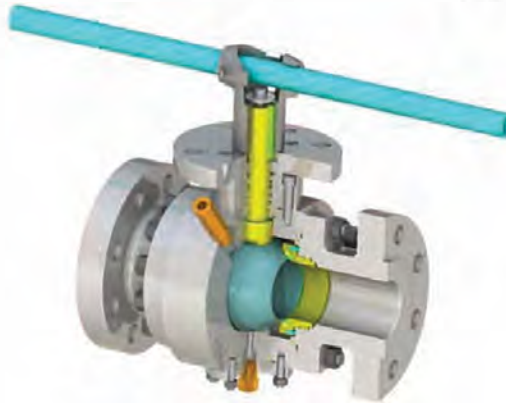
USA



Model B2
Sizes: 2" - 4"
ANSI Class 150#



Model B2
Sizes: 2" - 4"
ANSI Class 300 - 600#



Model B2
Sizes: 2" - 4"
ANSI Class 900 - 1500#

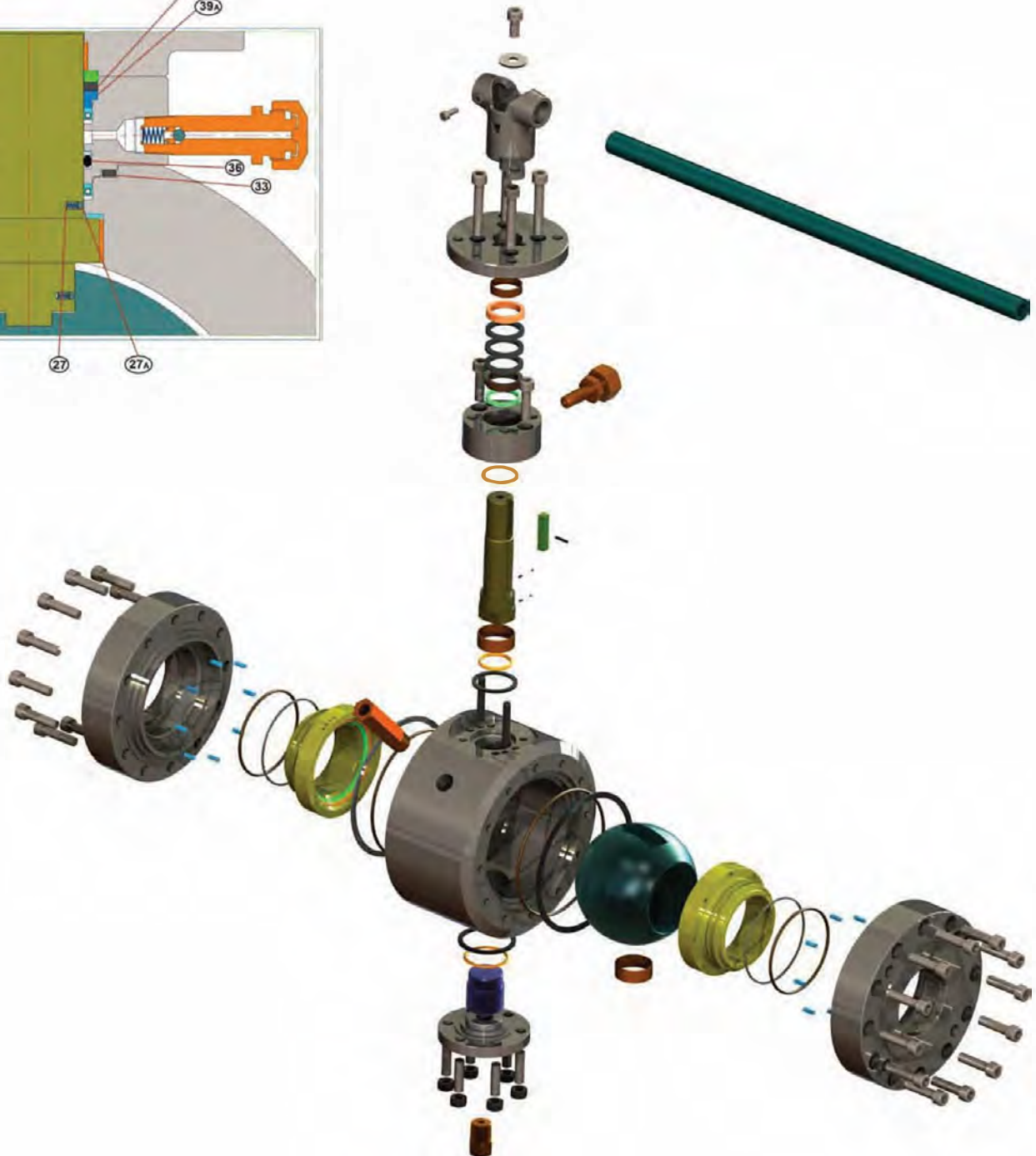
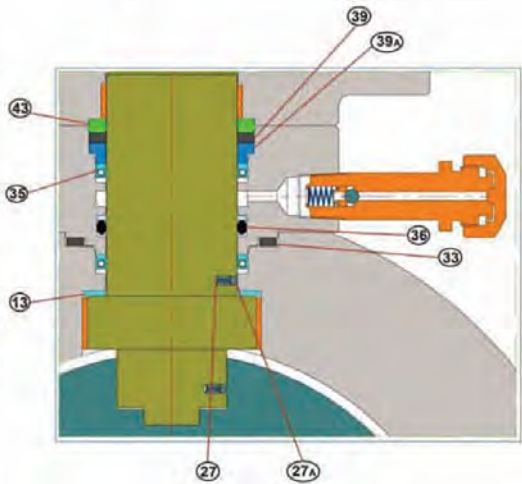


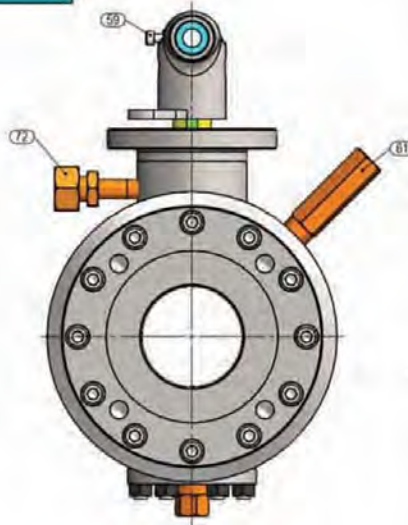
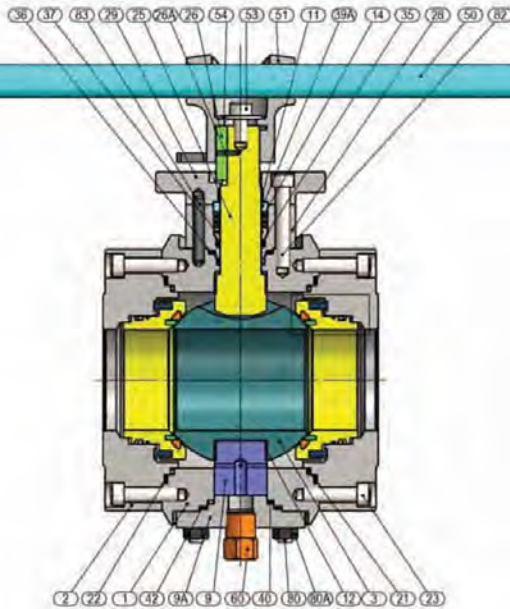
Model GB2
Sizes: 6" - 48"
ANSI Class 150 - 900#



Model GB2
Sizes: 6" - 36" ANSI Class 1500#
Sizes : 2" - 24" ANSI Class 2500#

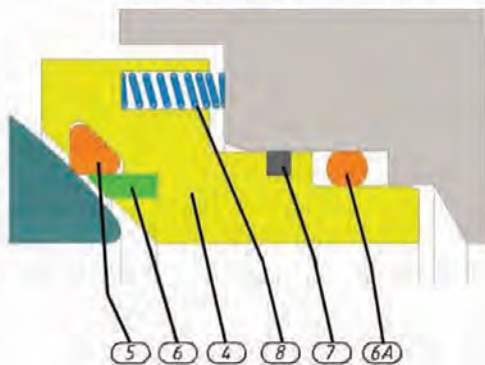
STEM SEAL SUB-ASSEMBLY DETAIL



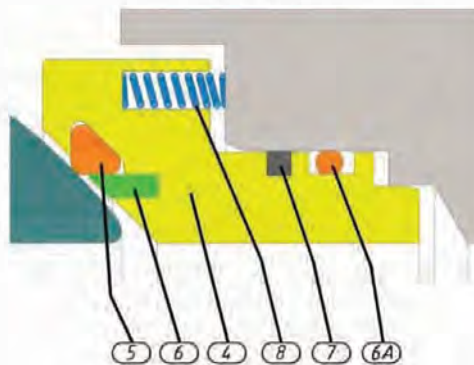


Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat Ring
5	Seat Delta Elastomeric
6	Seat resin
6A	Seat main o-ring
7	Seat fire-safe seal
8	Seat springs
9	Lower trunnion
9A	Cover plate
10	Stem lower sleeve bearing
11	Stem upper sleeve bearing
12	Trunnion sleeve bearing
13	Stem thrust washer
21	End adapter o-ring
22	Body fire-safe seal
23	Body/end adapter capscrew
25	Stem
26	Stem key
26A	Pin
27	Stem antistatic spring
27A	Stem antistatic piston
28	Lower stem flange
28	Upper stem flange
31	Stem flange o-ring
33	Stem flange metallic fire-safe seal
35	Stem lip seal
36	Stem o-ring
37	Lantern ring
38	Stem lip seal back-up ring
39	Stem top fire-safe seal
39A	Spacer ring
40	Lower trunnion o-ring
42	Lower trunnion fire-safe seal
43	Metallic ring
50	Level tube
51	Lever knuckle (locking type)
53	Lever knuckle - stem capscrew
54	Lever knuckle - stem washer
59	Lever knuckle - lever capscrew
60	Drain valve
61	Safety relief valve
72	Stem grease fitting
80	Lower trunnion stud
80a	Lower trunnion nut
81	Lower stem flange capscrew
82	Upper stem flange capscrew
83	Lower stem flange dowel pin

DOUBLE PISTON EFFECT



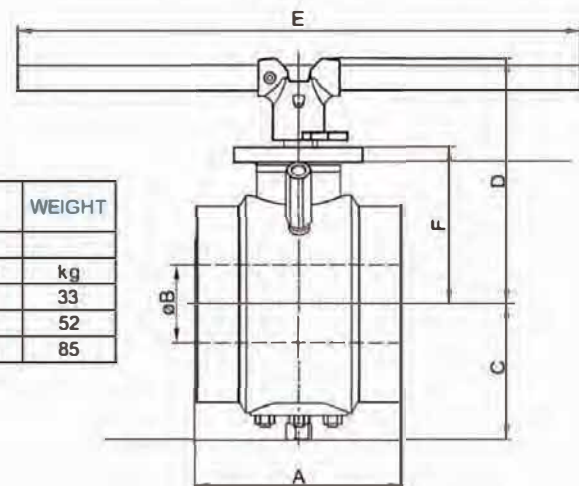
SELF RELIEVING

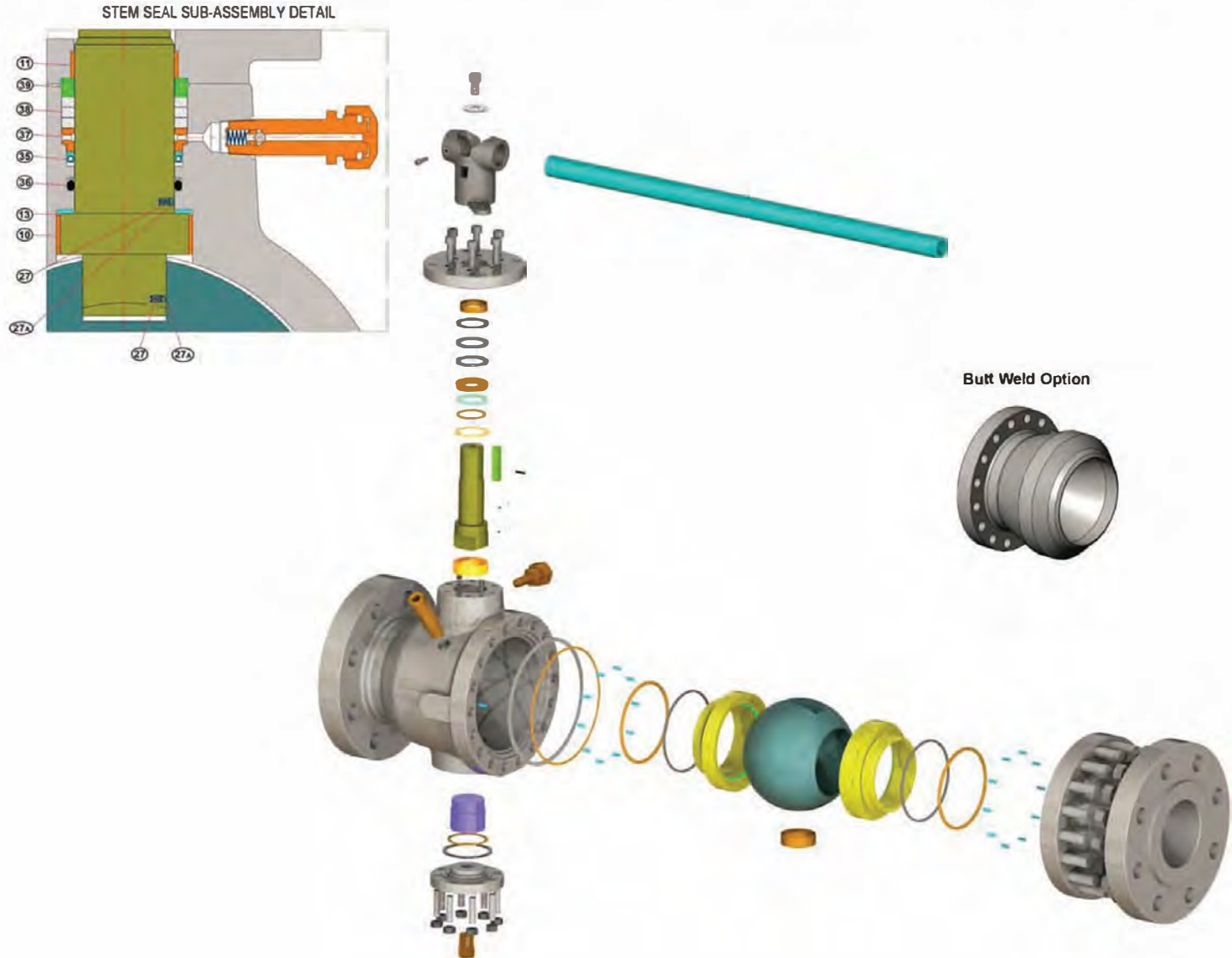


Items 81 is not shown

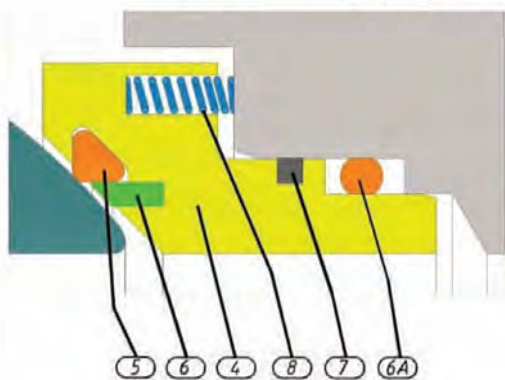
ANSI 150

VALVE SIZE	BORE SIZE	RF							WEIGHT
		A			C	D	E	F	
NPS	B	mm	mm	mm	mm	mm	mm	mm	kg
2"	49.2	178	191	216	114	196	450	129	33
3"	74.6	203	216	283	133	240	550	154	52
4"	101.6	229	241	305	159	291	700	179	85

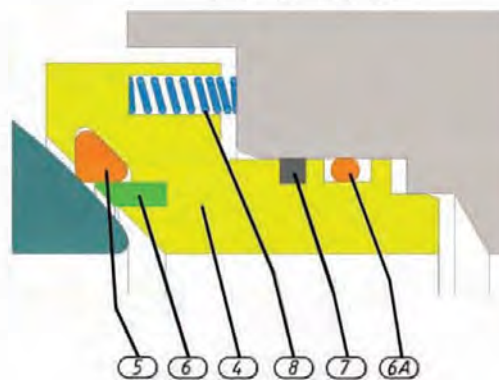


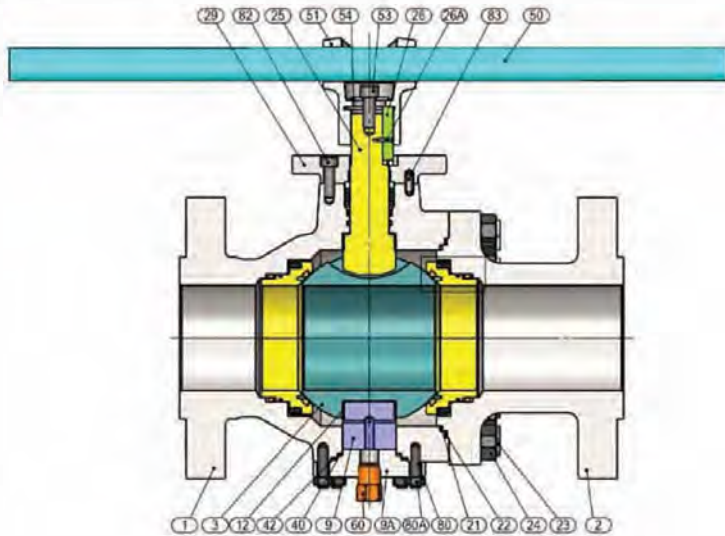


DOUBLE PISTON EFFECT



SELF RELIEVING





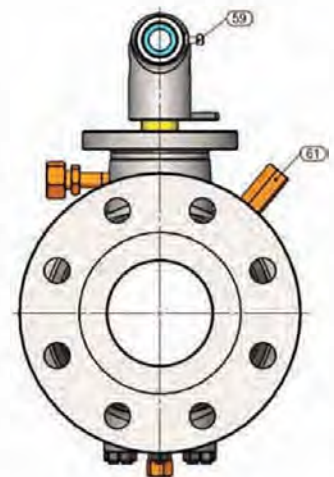
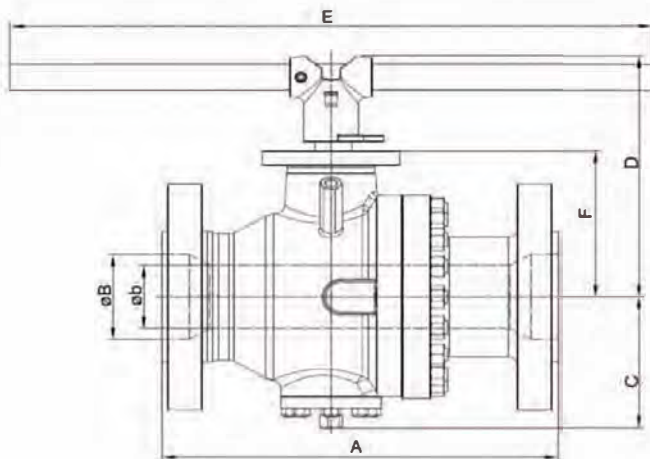
Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat Ring
5	Seat Delta Elastomeric
6	Seat resin
6A	Seat main o-ring
7	Seat fire-safe seal
8	Seat springs
9	Lower trunnion
9A	Cover plate
10	Stem lower sleeve bearing
11	Stem upper sleeve bearing
12	Trunnion sleeve bearing
13	Stem thrust washer
21	End adapter o-ring
22	Body metallic fire-safe seal
23	Body/end adapter stud
24	Body/end adapter nut
25	Stem
26	Stem key
26A	Pin
27	Stem antistatic spring
27A	Stem antistatic ball
29	Upper stem flange
35	Stem lip seal
36	Stem o-ring
37	Lantern ring
38	Stem packing
39	Gland ring
40	Lower trunnion o-ring
42	Lower trunnion fire-safe seal
50	Level tube
51	Lever knuckle (locking type)
53	Lever knuckle - stem capscrew
54	Lever knuckle - stem washer
59	Lever knuckle - lever capscrew
60	Drain valve
61	Safety relief valve
72	Stem grease fitting
80	Lower trunnion stud
80A	Lower trunnion nut
82	Upper stem flange capscrew
83	Lower stem flange dowel pin

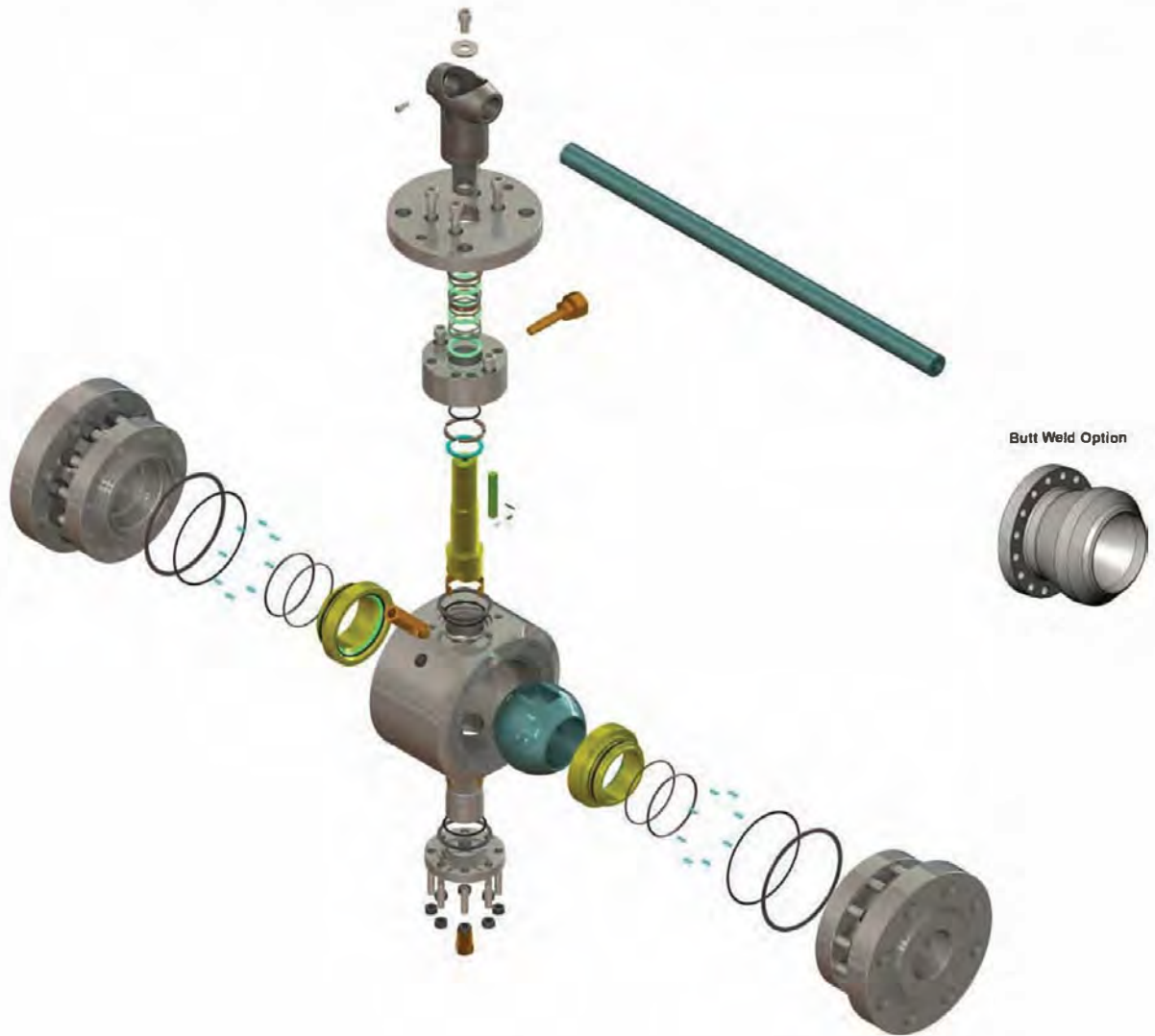
ANSI 300

VALVE SIZE	BORE SIZE								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
2"	49.2	216	232	216	114	196	450	126	28
3"x2"	76.2x49.2	283	298	283	114	196	450	126	40
3"	74.6	283	298	283	133	237	550	152	51
4"x3"	101.6x74.6	305	321	305	133	237	550	152	81
4"	101.6	305	321	305	159	291	700	177	85
6"x4"	151.6x101.6	403	419	457	159	291	700	177	130

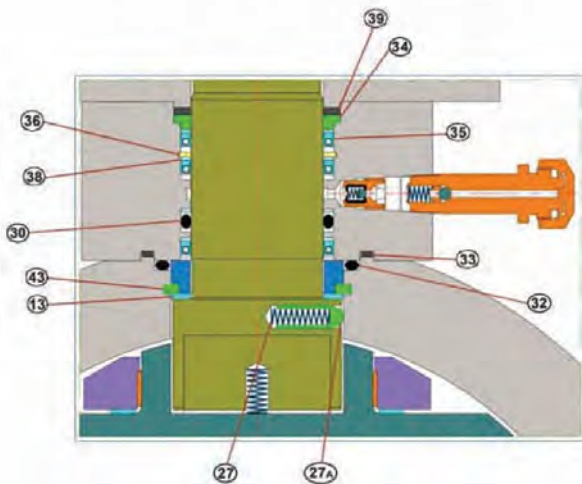
ANSI 600

VALVE SIZE	BORE SIZE								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
2"	49.2	292	295	292	114	196	450	126	34
3"x2"	74.6x49.2	356	359	356	114	196	450	126	55
3"	74.6	356	359	356	133	237	550	152	58
4"x3"	101.6x74.6	432	435	432	133	237	550	152	91
4"	101.6	432	435	432	159	291	700	177	104
6"x4"	151.6x101.6	559	562	559	159	291	700	177	175

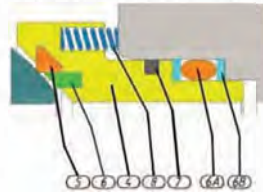




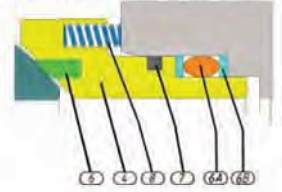
STEM SEAL SUB-ASSEMBLY DETAIL



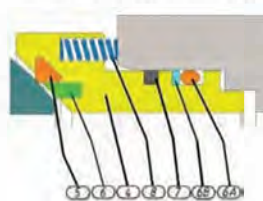
ANSI 900: DOUBLE PISTON EFFECT



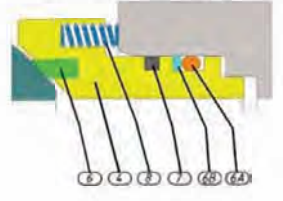
ANSI 1500: DOUBLE PISTON EFFECT

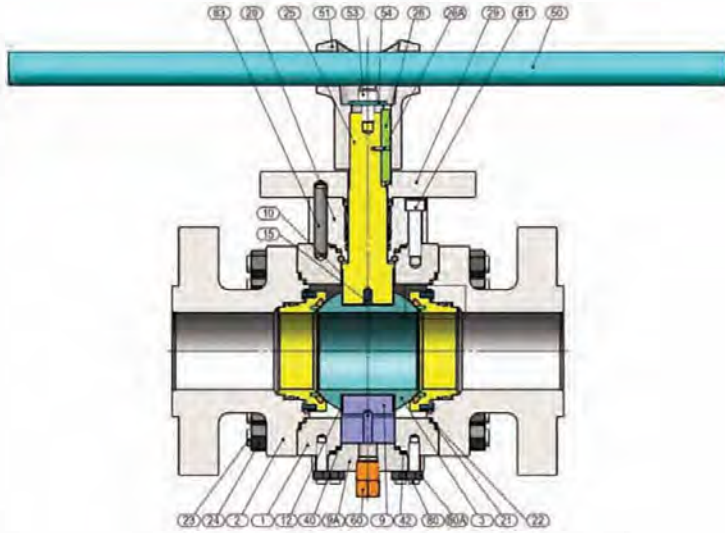


ANSI 900: SELF RELIEVING



ANSI 1500: SELF RELIEVING





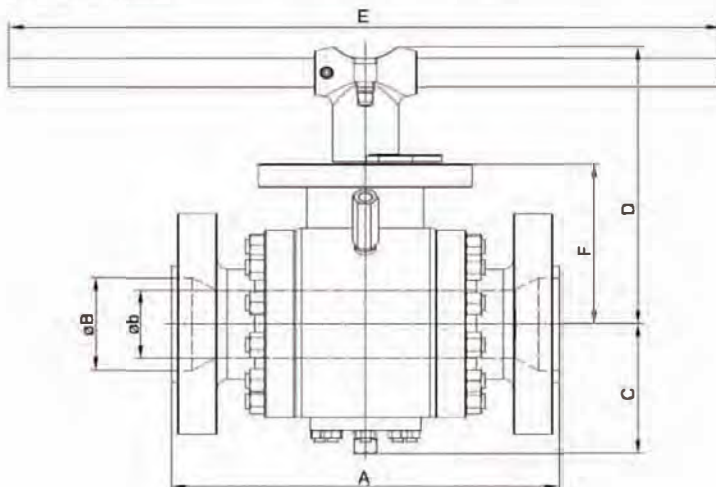
ANSI 900

VALVE SIZE	BORE SIZE								WEIGHT
		RF	RTJ	BW					
NPS	B(xb)	A			C	D	E	F	RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
2"	49.2	368	371	368	121	235	500	139	67
3"x2"	74.6x49.2	381	384	381	121	235	500	139	80
3"	74.6	381	384	381	142	303	700	175	102
4"x3"	101.6x74.6	457	460	457	142	303	700	175	140
4"	101.6	457	460	457	187	356	960	214	220
6"x4"	151.6x101.6	610	613	610	190	356	960	214	264

ANSI 1500

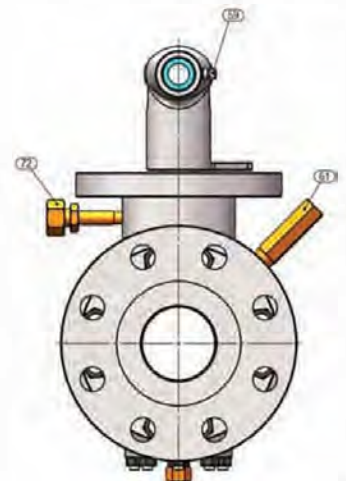
VALVE SIZE	BORE SIZE	RF	RTJ	BW	A	C	D	E	F	WEIGHT
NPS	B(xb)	mm	mm	mm	mm	mm	mm	mm	mm	kg
inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
2"	49.2	368	371	368	121	235	500	139	67	
3" x 2"	74.6x49.2	470	473	470	132.5	235	500	139	80	

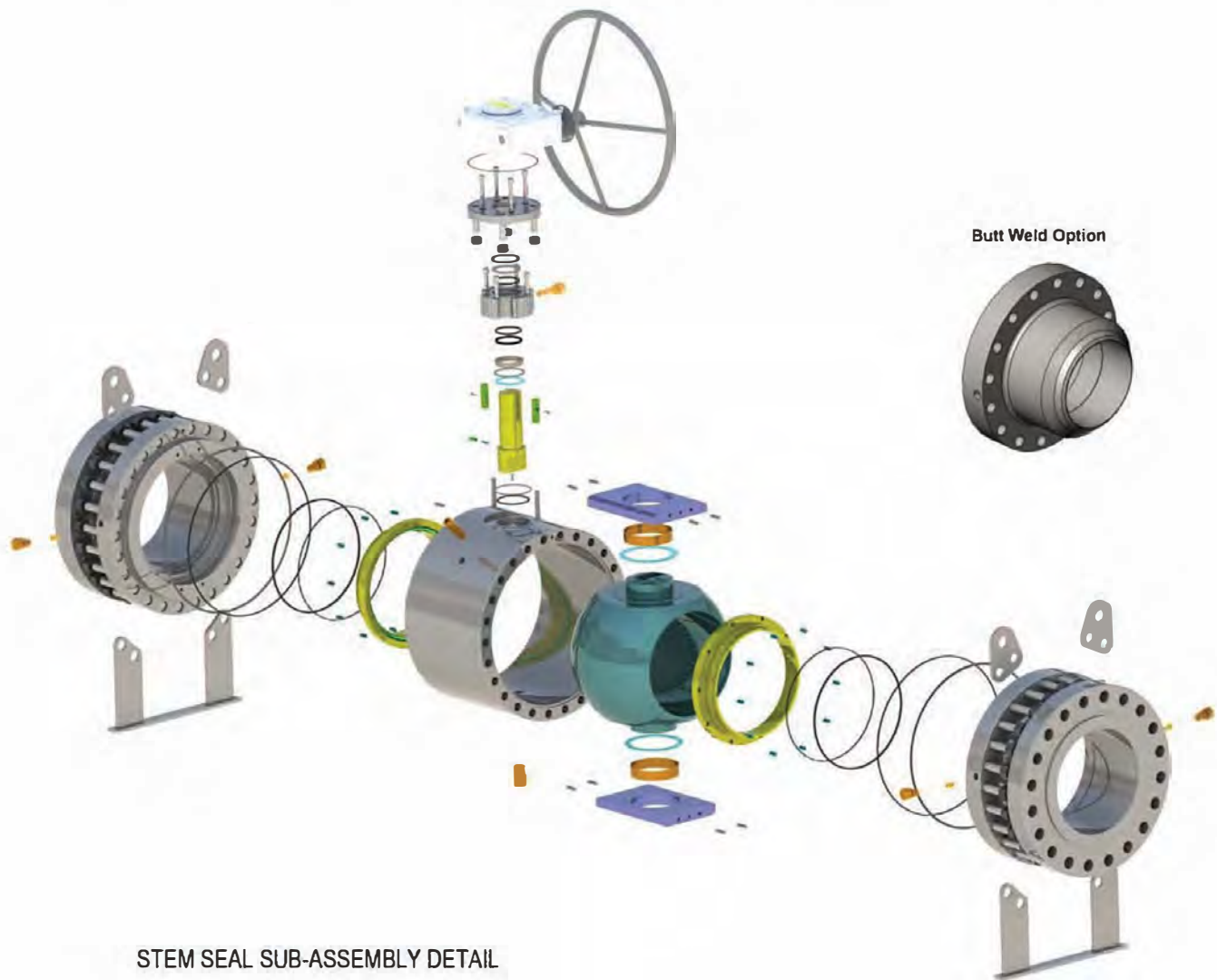
Dual seat design only available in 1500 class up to 50NB & 65x50NB



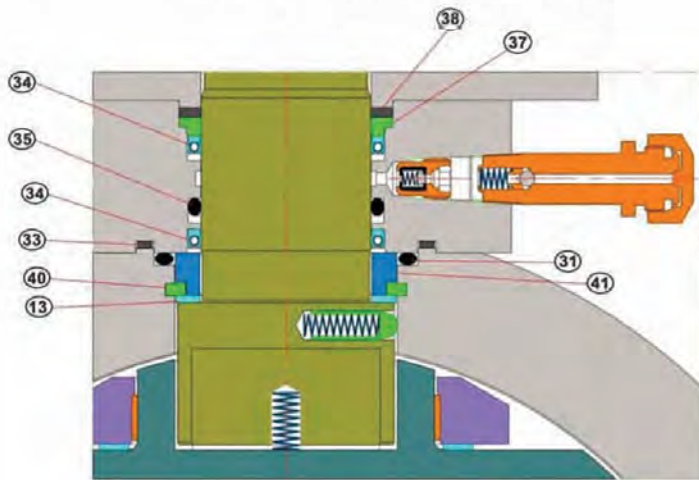
Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seating
5	Seat Delta Elastomeric
6	Seat resin
6A	Seat main o-ring
6B	Seat back-up ring
7	Seat fire-safe seal
8	Seat springs
9	Lower trunnion
9A	Cover plate
10	Stem lower sleeve bearing
12	Trunnion sleeve bearing
13	Stem thrust washer
15	Ball antistatic spring
21	End adapter o-ring
22	Body fire-safe seal
23	Body / end adapter studs
24	Body / end adapter nuts
25	Stem
26	Stem key
26A	Pin
27	Stem antistatic spring
27A	Stem antistatic piston
28	Lower stem flange
29	Upper stem flange
30	Stem o-ring
31	Stem flange o-ring
32	Bonnet to body o-ring
33	Stem flange metallic fire-safe seal
34	Spacer ring
35	Stem lip seal
35B	Stem lower back-up ring
36	Stem back-up ring
37	Lantern ring
38	Stem lip seal back-up ring
39	Stem top fire-safe seal
40	Lower trunnion o-ring
42	Lower trunnion fire-safe seal
43	Stem anti-blowout split ring
50	Lever tube
51	Lever knuckle (locking type)
53	Lever knuckle - stem capcrew
54	Lever knuckle - stem washer
59	Lever knuckle - lever capcrew
60	Drain valve
61	Safety relief valve
72	Stem grease fitting
80	Lower trunnion stud
80A	Lower trunnion nut
81	Lower stem flange capcrew
82	Upper stem flange capcrew
83	Lower stem flange dowel pin

item 82 is not shown

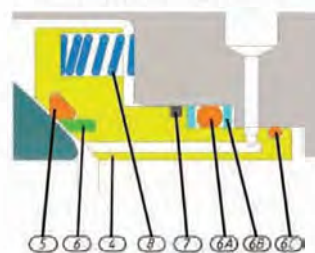




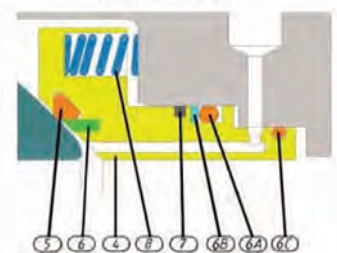
STEM SEAL SUB-ASSEMBLY DETAIL

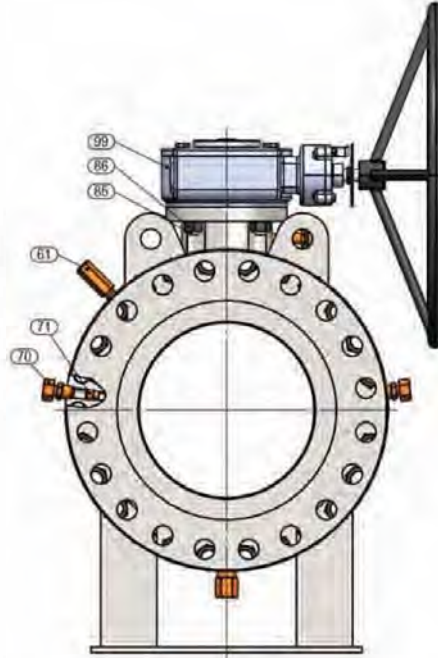
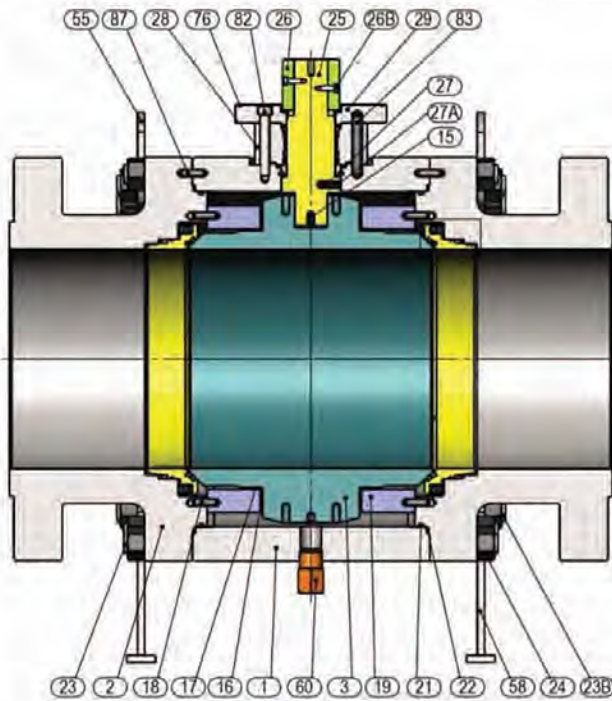


DOUBLE PISTON EFFECT



SELF RELIEVING





Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat ring
5	Seat Delta Elastomeric
6	Seat resin
6A	Seat maino-ring
6C	Seat grease o-ring
7	Seat fire-safe seal
8	Seat springs
13	Stem thrust washer
15	Ball antistatic spring
16	Trunnion sleeve bearing
17	Ball thrust washer
18	Trunnion support pin
19	Trunnion support
21	End adapter o-ring
22	Body metallic fire-safe seal
23	Body/end adapter studs
24	Body/end adapter nuts
25	Stem
26	Stem key
26B	Stem key cap screw
27	Stem antistatic spring
27A	Stem antistatic piston
28	Lower stem flange
29	Upper stem flange
31	Stem flange o-ring
33	Stem flange fire-safe seal
34	Stem lip seal
35	Stem o-ring
37	Spacer ring
38	Stem top fire-safe seal
40	Stem anti-blowout split ring
41	Stem anti-blowout spacer
55	Lifting lugs
58	Valve support legs
60	Drain valve
61	Safety relief valve
71	Seat grease fitting
71	Seat inner check valve
72	Stem grease fitting
73	Stem inner check valve
76	Weather seal
81	Lower stem flange cap screw
82	Upper stem flange cap screw
83	Lower stem flange dowel pin
84	Stem flange/gearbox dowel pin
85	Stem flange/gearbox studs
86	Stem flange/gearbox nuts
87	Body/end adapter dowel pin
99	Gearbox with handwheel (lockable)

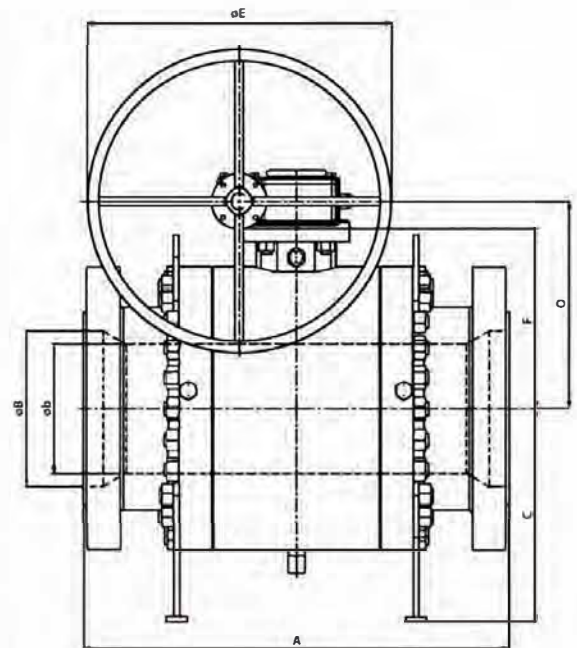
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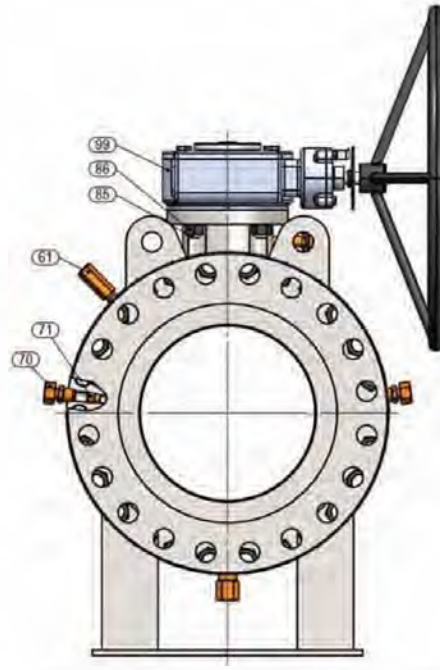
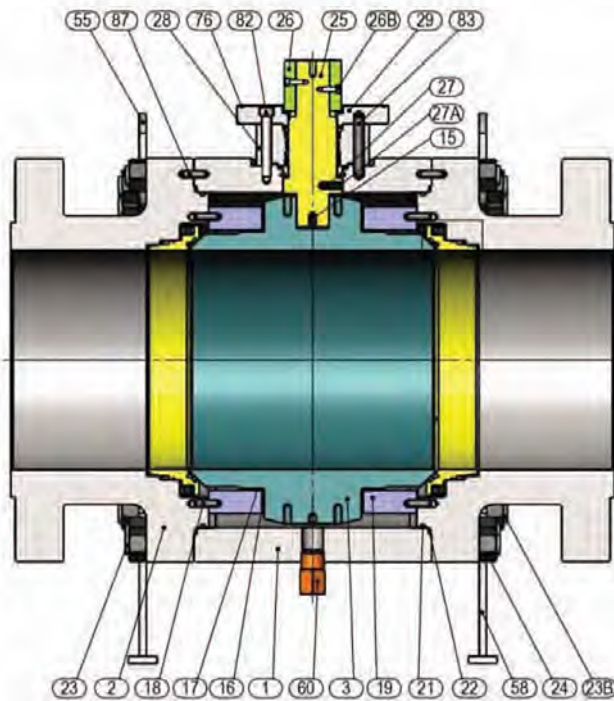
ANSI 150

VALVE SIZE	BORE SIZE	RF	RTJ	BW	C	D	E	F	WEIGHT
NPS	NPS	A							RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6"	151.6	394	408	457	205	287	400	245	190
8"x8"	202.3x151.6	457	470	521	205	287	400	245	228
8"	202.3	457	470	521	278.5	325.5	400	283.5	305
10"x8"	252.4x202.3	533	548	559	278.5	325.5	400	283.5	366
10"	252.4	533	548	559	361	360	400	318.5	453
12"x10"	303.2x252.4	610	622	635	361	360	400	318.5	543
12"	303.2	610	622	635	411	407	600	359	720
14"x10"	336x303.2	686	699	762	364	360	400	318.5	706
14"	336	686	699	762	451	444	600	393	987
16"x15"	387x336	762	775	838	411	407	600	359	936
16"	387	762	775	838	495	481	600	425	1254
18"	438	864	876	941	530	557	600	477	1801
20"x16"	438x387	914	927	991	495	481	600	425	1630
20"	489	914	927	991	580	581.5	600	518	2548
24"x20"	590x489	1067	1080	1143	580	581.5	600	518	3313
24"	590	1067	1080	1143	715	690	700	605	3860
30"x24"	737x590	1295	/	1397	715	690	700	605	4632
30"	737	1295	/	1397	873	826	700	727	6225
32"	781	1372	/	1524	950	900	700	800	7470
36"x30"	876x781	1524	/	1727	873	826	700	727	8093
36"	876	1524	/	1727	1035	1036	800	936	10637

ANSI 300

VALVE SIZE	BORE SIZE	RF	RTJ	BW	C	D	E	F	WEIGHT
NPS	NPS	A							RF
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6"	151.6	403	419	457	205	287	400	245	210
8"x8"	202.3x151.6	502	518	521	205	287	400	245	265
8"	202.3	502	518	521	330	325.5	600	283.5	358
10"x8"	252.4x202.3	568	584	559	330	325.5	600	283.5	510
10"	252.4	568	584	559	361	360	600	318.5	510
12"x10"	303.2x252.4	648	664	635	361	360	600	318.5	681
12"	303.2	648	664	635	401	407	600	359	790
14"x10"	336x303.2	762	778	762	361	360	600	318.5	886
14"	336	762	778	762	451	444	600	393	1174
16"x15"	387x336	838	854	838	481	407	600	359	1027
16"	387	838	854	838	494	480	600	425	1558
18"	438	914	930	941	540	541	700	477	2195
20"x16"	438x387	991	1010	991	494	480	700	425	1907
20"	489	991	1010	991	634	582	700	518	2632
22"	540	1092	1114	1092	680	610	700	580	3256
24"x20"	590x489	1143	1165	1143	634	582	700	518	3681
24"	590	1143	1165	1143	715	690	700	605	4289
30"x24"	737x590	1397	1422	1397	715	690	700	605	5187
30"	737	1397	1422	1397	873	826	700	727	6917
32"	781	1524	1553	1524	950	900	700	800	8300
36"x30"	876x781	1727	1758	1727	873	826	700	727	8992
36"	876	1727	1758	1727	1035	1036	800	936	12750





Position	Part Description
1	Body
2	End adapter
3	Ball
4	Seat ring
5	Seat Delta Elastomeric
6	Seat resin
6A	Seat maino-ring
6C	Seat grease o-ring
7	Seat fire-safe seal
8	Seat springs
13	Stem thrust washer
15	Ball antistatic spring
16	Trunnion sleeve bearing
17	Ball thrust washer
18	Trunnion support pin
19	Trunnion support
21	End adapter o-ring
22	Body metallic fire-safe seal
23	Body/end adapter studs
24	Body/end adapter nuts
25	Stem
26	Stem key
26B	Stem key capscrew
27	Stem antistatic spring
27A	Stem antistatic piston
28	Lower stem flange
29	Upper stem glange
31	Stem flange o-ring
33	Stem flange fire-safe seal
34	Stem lip seal
35	Stem o-ring
37	Spacer ring
38	Stem top firesafe seal
40	Stem anti-blowout split ring
41	Stem anti-blowout spacer
55	Lifting lugs
58	Valve support legs
60	Drain valve
61	Safety relief valve
71	Seal grease fitting
71	Seal inner check valve
72	Stem grease fitting
73	Stem inner check valve
76	Weather seal
81	Lower stem flange capscrew
82	Upper stem flange capscrew
83	Lower stem flange dowel pin
84	Stem flange/gearbox dowel pin
85	Stem flange/gearbox studs
86	Stem flange/gearbox nuts
87	Body/end adapter dowel pin
99	Gearbox with handwheel (lockable)

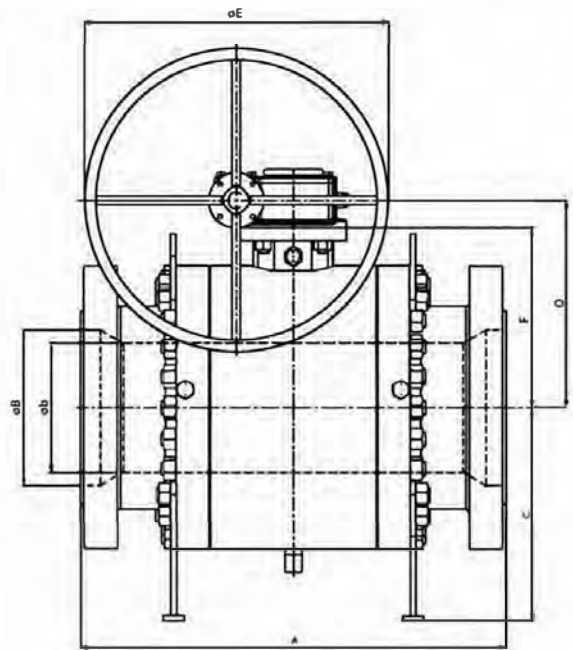
Item 81 not shown

ANSI 600

VALVE SIZE	BORE SIZE	RF	RTJ	EW	C	D	E	F	RF
NPS	B(xb)	A	A	A	A	A	A	A	A
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6"	152.4	559	562	559	291.5	287	600	245	263
8"	203.2x152.4	680	684	680	291.5	287	800	245	275
10"	254x203.2	787	791	787	340	325.5	800	283.5	377
12"	305x254	838	841	838	370	374.5	800	318.5	454
14"	357x305	889	892	889	421	415	800	359	575
16"	408x357	941	944	941	471	465	800	393	620
18"	459x408	991	994	991	521	515	800	427	697
20"	510x459	1041	1044	1041	571	565	800	461	919
22"	562x510	1091	1094	1091	621	615	800	495	1119
24"	613x562	1141	1144	1141	671	665	800	529	1259
26"	665x613	1191	1194	1191	721	715	800	563	1359
28"	717x665	1241	1244	1241	771	765	800	597	1459
30"	769x717	1291	1294	1291	821	815	800	631	1559
32"	821x769	1341	1344	1341	871	865	800	665	1659
34"	873x821	1391	1394	1391	921	915	800	699	1759
36"	925x873	1441	1444	1441	971	965	800	733	1859
38"	977x925	1491	1494	1491	1021	1015	800	767	1959
40"	1029x977	1541	1544	1541	1071	1065	800	801	2059
42"	1081x1029	1591	1594	1591	1121	1115	800	835	2159
44"	1133x1081	1641	1644	1641	1171	1165	800	869	2259
46"	1185x1133	1691	1694	1691	1221	1215	800	903	2359
48"	1237x1185	1741	1744	1741	1271	1265	800	937	2459

ANSI 900

VALVE SIZE	BORE SIZE	RF	RTJ	EW	C	D	E	F	RF
NPS	B(xb)	A	A	A	A	A	A	A	A
inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
6"	152.4	610	613	610	294	287	800	245	362
8"	203.2x152.4	737	740	737	294	287	800	245	434
10"	254x203.2	838	841	838	400	393.5	800	283.5	573
12"	305x254	891	894	891	450	443.5	800	318.5	690
14"	357x305	941	944	941	500	493.5	800	353	840
16"	408x357	991	994	991	550	543.5	800	387	990
18"	459x408	1041	1044	1041	600	593.5	800	421	1140
20"	510x459	1091	1094	1091	650	643.5	800	455	1290
22"	562x510	1141	1144	1141	700	693.5	800	489	1440
24"	613x562	1191	1194	1191	750	743.5	800	523	1590
26"	665x613	1241	1244	1241	800	793.5	800	557	1740
28"	717x665	1291	1294	1291	850	843.5	800	591	1890
30"	769x717	1341	1344	1341	900	893.5	800	625	2040
32"	821x769	1391	1394	1391	950	943.5	800	659	2190
34"	873x821	1441	1444	1441	1000	993.5	800	693	2340
36"	925x873	1491	1494	1491	1050	1043.5	800	727	2490
38"	977x925	1541	1544	1541	1100	1093.5	800	761	2640
40"	1029x977	1591	1594	1591	1150	1143.5	800	795	2790
42"	1081x1029	1641	1644	1641	1200	1193.5	800	829	2940
44"	1133x1081	1691	1694	1691	1250	1243.5	800	863	3090
46"	1185x1133	1741	1744	1741	1300	1293.5	800	897	3240
48"	1237x1185	1791	1794	1791	1350	1343.5	800	931	3390



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 design
- Bubble tight seat seals
- Emergency stem and seat sealing
- NACE MR0175 SOUR
- Interchangeable seats with no machining requirements
- Tested to 80 PSI for seat-to-ball shut-off

Fugitive Emission Certified to:

API STANDARD 641

ISO 15848-1: ENDURANCE CLASS CO3

TIGHTNESS CLASS AM

ISO 15848-1: ENDURANCE CLASS CO2

TIGHTNESS CLASS CH

Firesafe Certified to:

API STANDARD 607

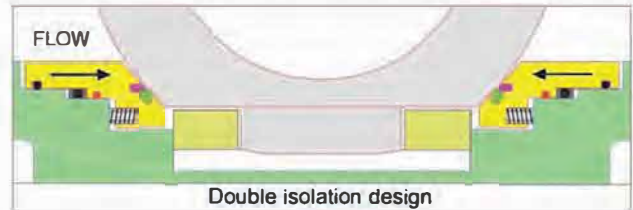
API STANDARD 6FA

B.S. 6755 PART 2

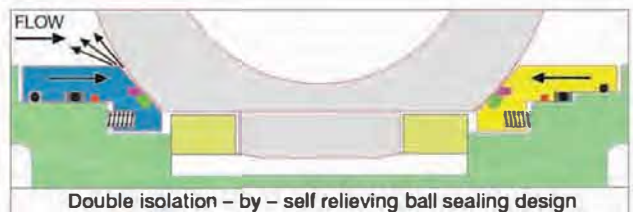
ISO 10497: 2010



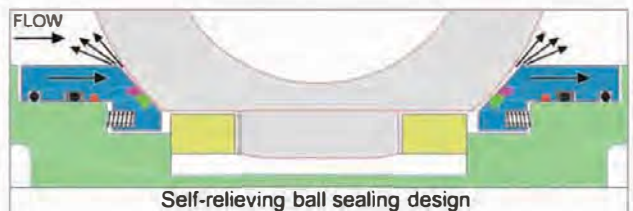
Optional Valve Seat Sealing Designs



DIB-1



DIB-2

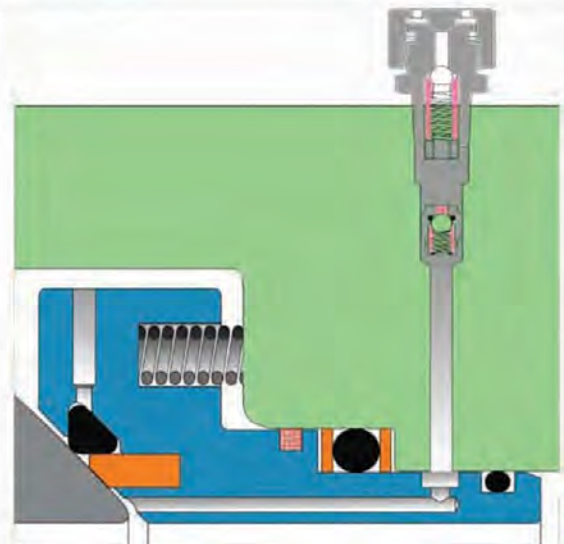


EMERGENCY SEAT SEALING

As an excess of impurities in fluids may have a harmful effect on seat ring seals, GVS® valves are equipped for emergency restoration of sealing.

This consists of special holes and grooves in the seat rings and valve body through which sealants are injected.

Each body injection port is equipped with an inner check valve and a grease button head fitting.

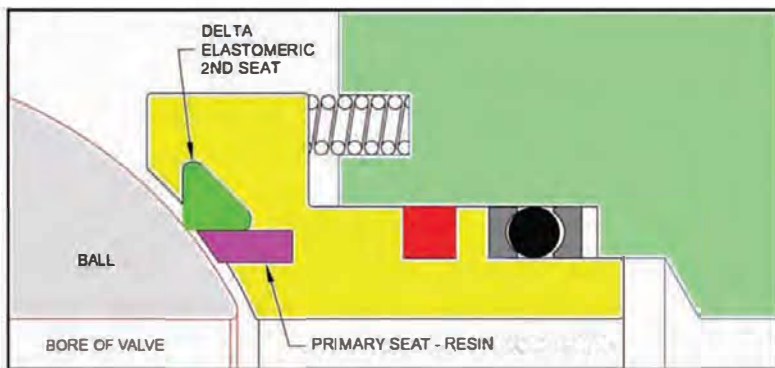
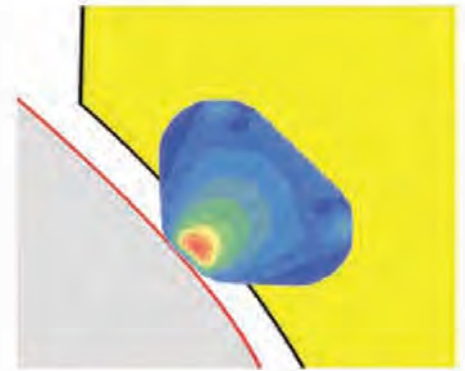


DUAL SEATS, DELTA SEAT BACK UP SEAL

This seat insert is shaped like a triangle "Delta" with rounded corners, which is housed by means of the metal seat. This unique geometry offers several advantages:

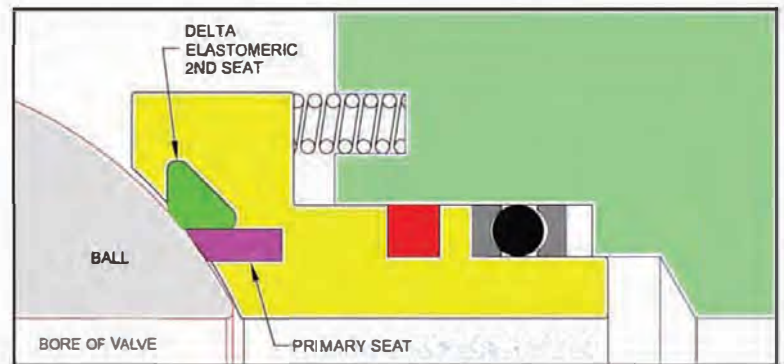
Due to high elasticity of the seat insert, it may ensure sealing even on partly damaged ball surfaces.

The dual seat design is recommended for buried service, welded body, dirty service, large diameter, and for customers willing to pay a very small extra charge to guarantee an extremely long life, even on clean service in 150 - 900 class (and 1500 class 50NB only).



At low pressure, the resin seat is more of a "Protector," for it does not touch the ball's outer surface. This is why we state that the insert seat is a protector. The "Delta" elastomeric-shaped seat is always in full contact with the ball at low & high pressure, providing a seat-to-ball shut-off at all times.

At higher pressure, the complete seat assembly is being pushed against the ball, and the insert resin seat "Protector" eventually does come into contact with the ball's outer surface. At this elevated pressure, the protector acts as a seat seal in addition to being a protector and also acting as a scraper, thus wiping off any debris that may be against the ball's outer surface.



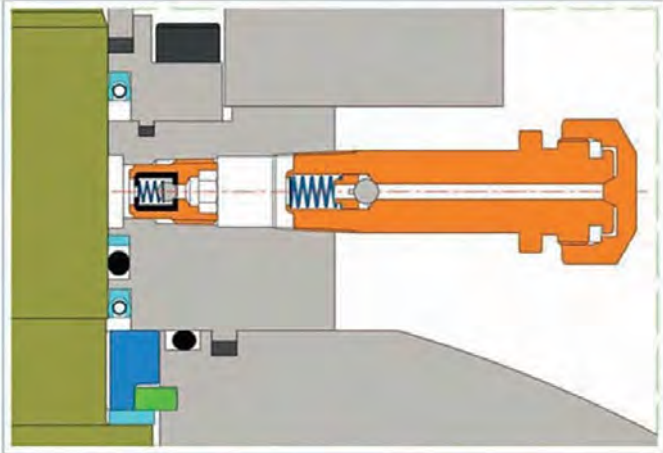
ANTI-EXPLOSIVE DECOMPRESSION SEAL (AED)

All of the elastic compounds present 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 gas absorbed depends on the type of compound and the gas in contact with it, from the temperature and the exercised pressure.

The instance described previously 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.

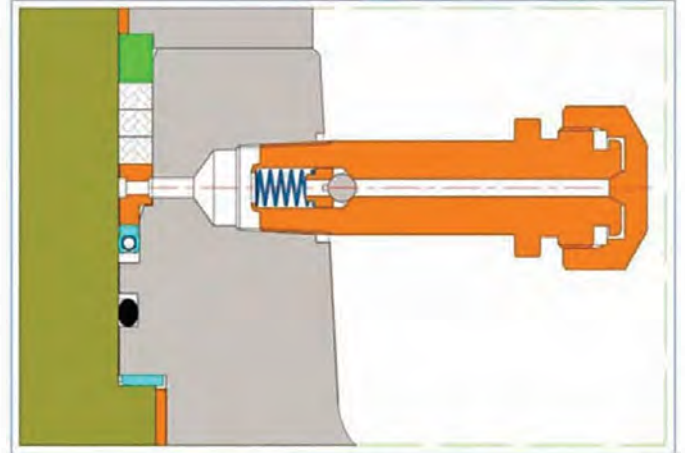
All o-rings in our GVS Series **B2** & **GB2** are of the **AED** type and possess an Anti-Explosive Decompression Feature that prevents the above from occurring.

**ISO 15848-1
ENDURANCE CLASS CO3 TIGHTNESS CLASS AM**



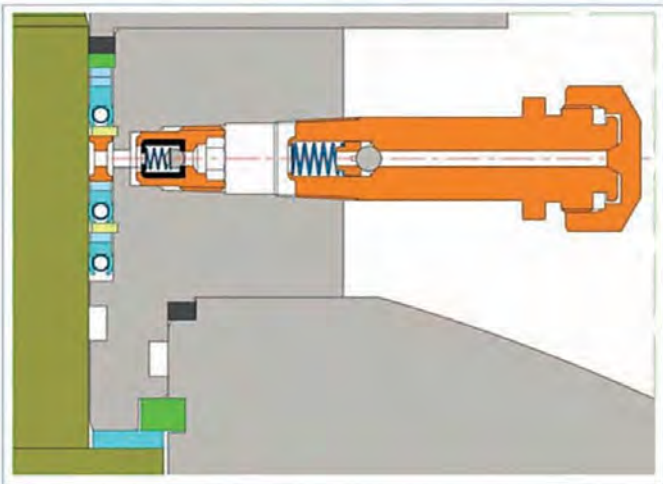
+ 200°C

CERTIFICATION IN PROCESS



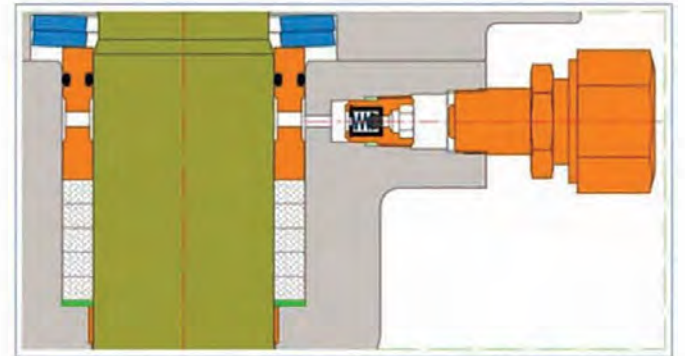
+ 240°C

API STANDARD 641



+ 240°C

**API STANDARD 641
ISO 15848-1
ENDURANCE CLASS CO2 TIGHTNESS CLASS CH**



+ 350°C



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People's Republic of China

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Total Quality Assured.

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Guide V

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ISO 90

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The design and



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1 Institute.

1, PSL 2, PSL 3, PSL 4

Inchul Liddar
The President

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