



xanik®

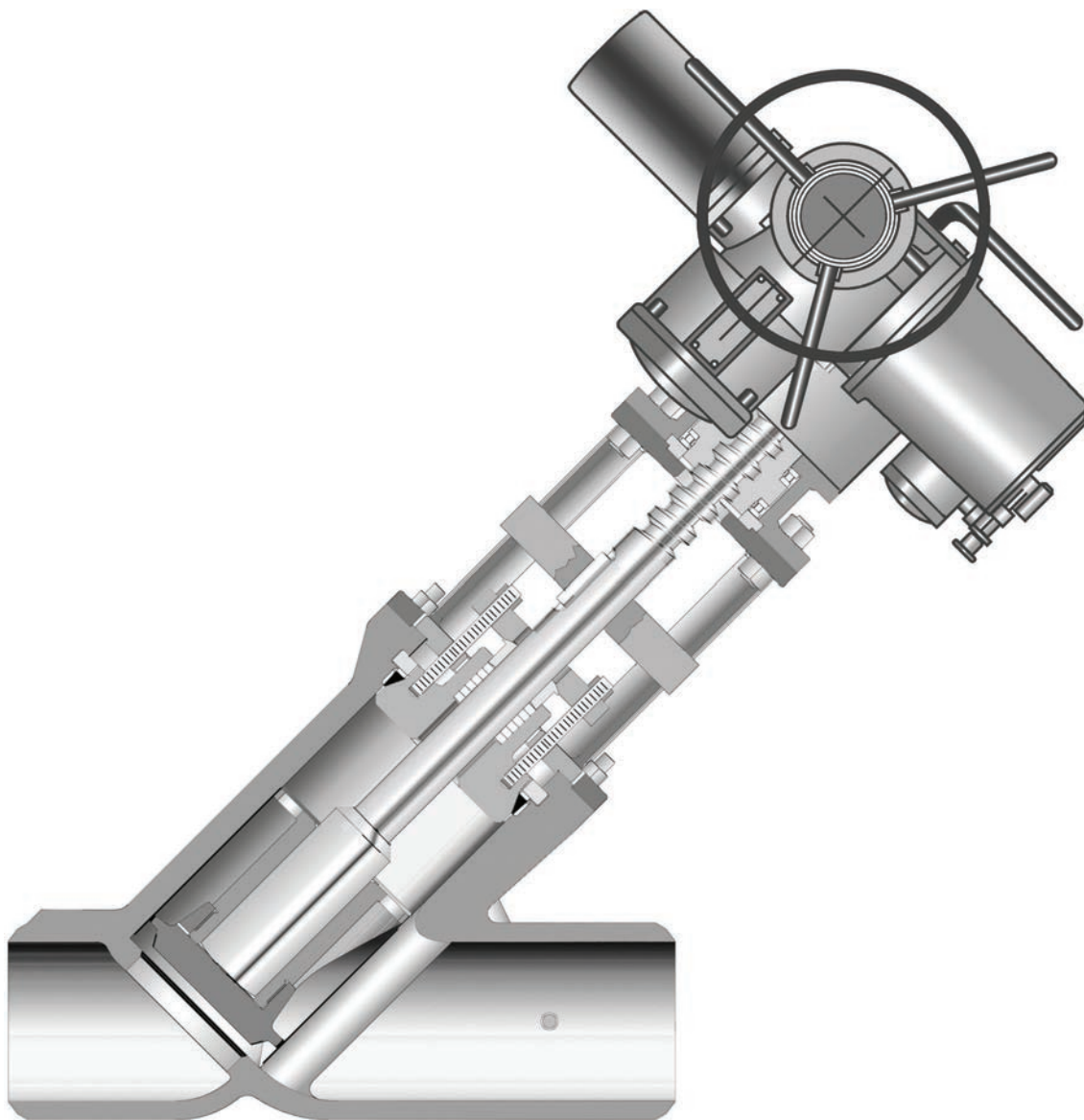


xanor de méxico, s.a. de c.v.

Pressure Seal Valves



Pressure Seal Valves



*The information on this catalog is for reference only,
for detailed information consult our sales department.*



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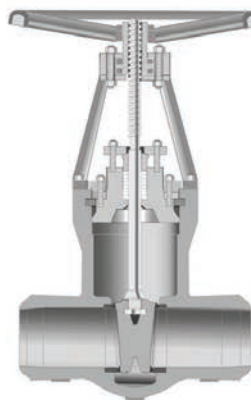
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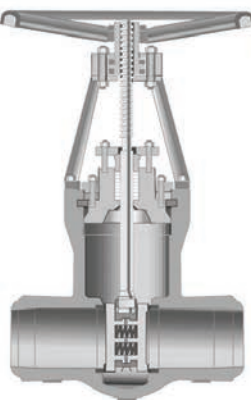
Product line

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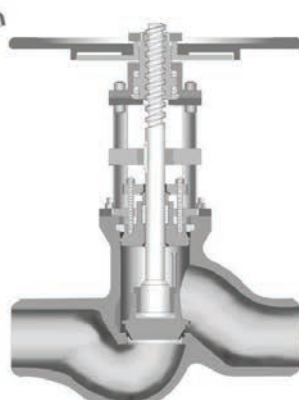
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Detail of pressure seal gate flexible wedge valve



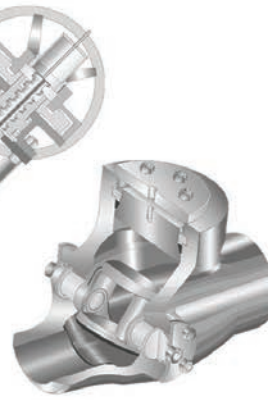
Detail of pressure seal gate parallel slide disc valve



Detail of pressure seal globe valve

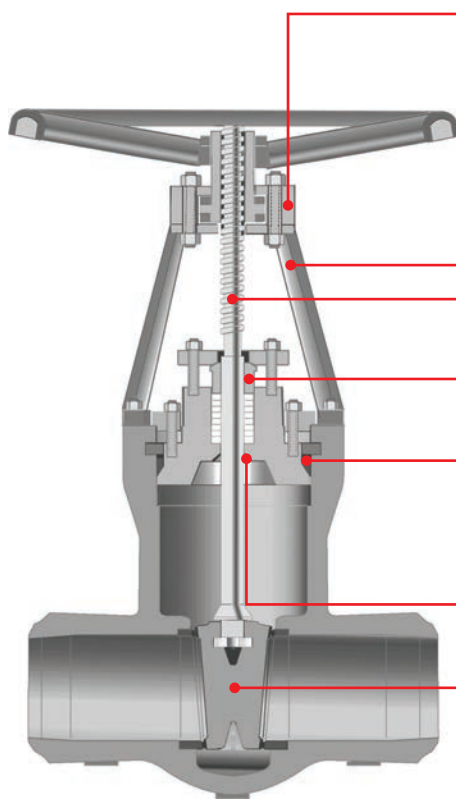


Detail of "Y" pattern globe & stop check pressure seal valve



Detail of pressure seal tilting disc check valve

Features of flexible wedge Pressure Seal Gate valves



Detail front view of pressure seal gate flexible wedge valve

- **Versatile adapting yoke**

With throughout bolts and nuts to facilitate maintenance. Actuators can easily be mounted

- **Detachable Yoke**

Without affecting the body-bonnet Joint.

- **Stem**

Integral "T" head construction for packing and discs auto aligning. Can be made in Alloy 660 material to eliminate corrosion by packing, galvanic corrosion and low fracture toughness found in F6a or common martensitic stainless steel stem materials.

- **Gland**

Two piece, self-aligning gland, "Live load" arrangement can be provided.

- **Seal Gasket**

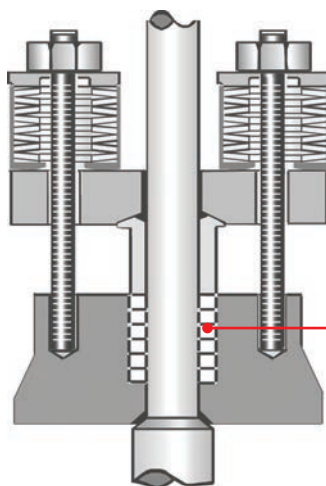
Load Ring with stand upward thrust of bonnet load; backing ring distributes pressure uniformly to load Ring; metallic silver plated seal gasket provides tight closure.

- **Integral Backseat**

Hardfaced Stellite® inlay provides tight closure between stem shoulder and bonnet.

- **Flexible Wedge**

Flexible wedge is fully guided, wedge and seats are hardfaced with Stellite® No. 6 or Tribaloy® T-900 for longer life.



Detail of packing chamber with live loading.

- **Live loading**
(Optional)

- **Stuffing box design**

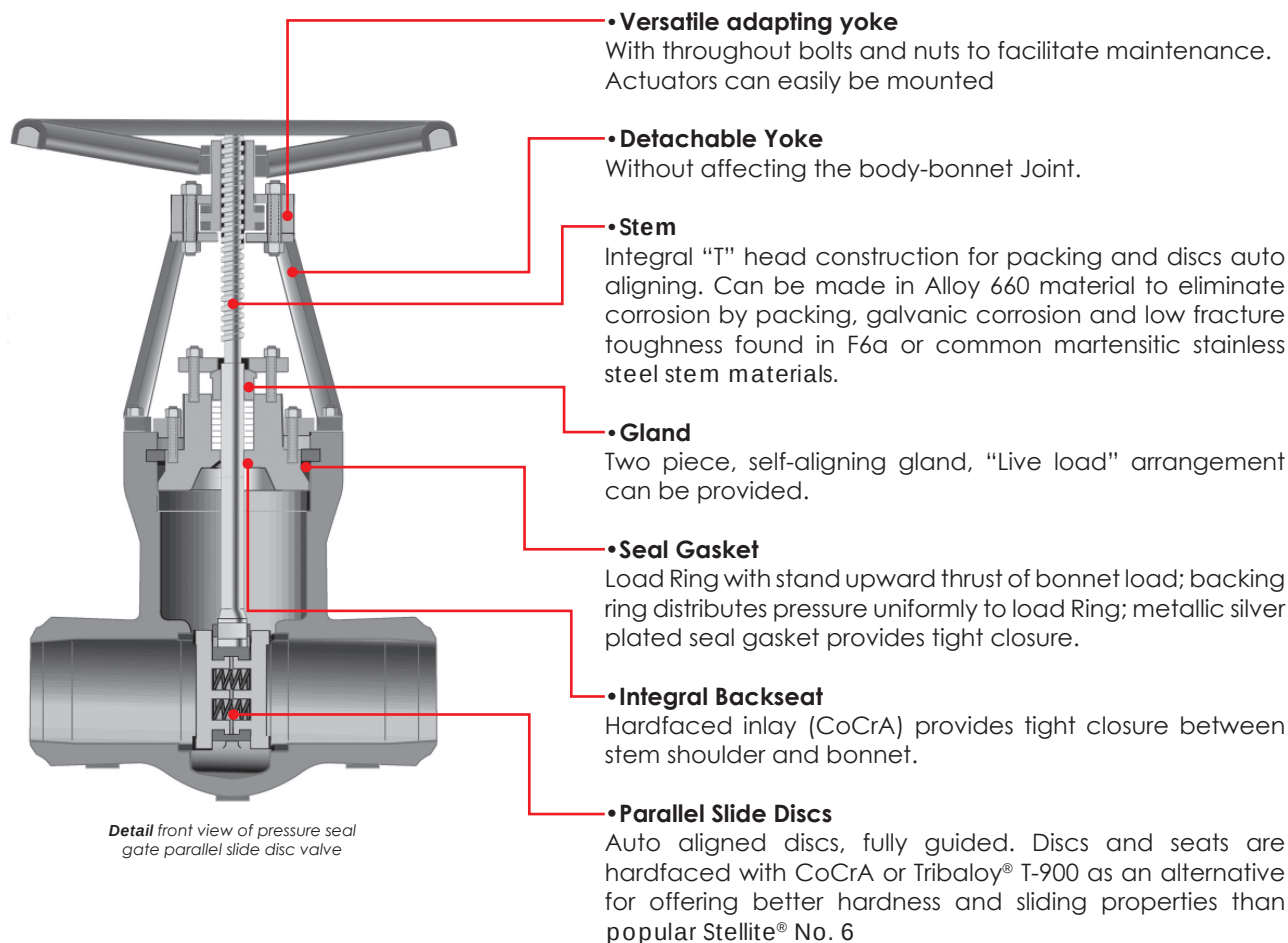
Short packing chamber with graphite packing at 4000 psi minimum compression in order to make a dense packing material. Live loading to compensate the packing relaxation for long periods of time.

- **Packing**

Flexible graphite packing material with anti-extrusion rings for optimum sealability and life.



Features of parallel slide disc Pressure Seal Gate valves



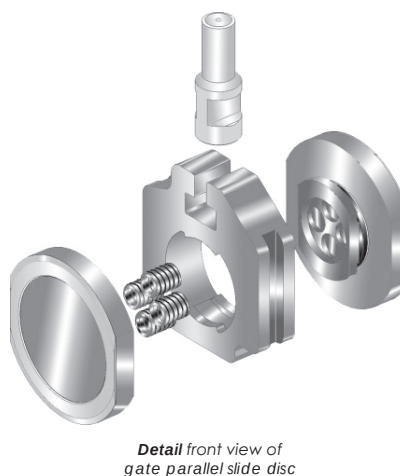
• Parallel Slide Disc

Parallel Slide Valves seat tightness is pressure assisted by the fluid acting on the downstream disc. This design is recommended when thermal expansion of stem may cause wedge binding. The position closure eliminates the wedging effect, providing lower operating unseating torques.

The seat wear due to the disc sliding, a common disadvantage of the parallel slide valves, can be minimized by using Tribaloy® T-900 on seating surfaces that has better hardness and sliding properties than Stellite® No. 6.

The Inconel® springs located at the center of the disc prevent vibrations due to fluid pressure variations and auto align the discs. The central carrier is self aligned due to "T" slot connection with the stem. No threads or pins are used to make a rigid connection that may introduce lateral forces on the stem.

Close fitting guiding system assure the proper centering of the discs into the seats.



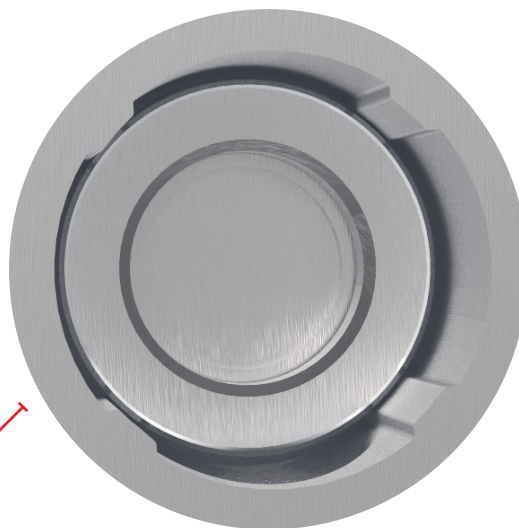
Features of fully body-guided design



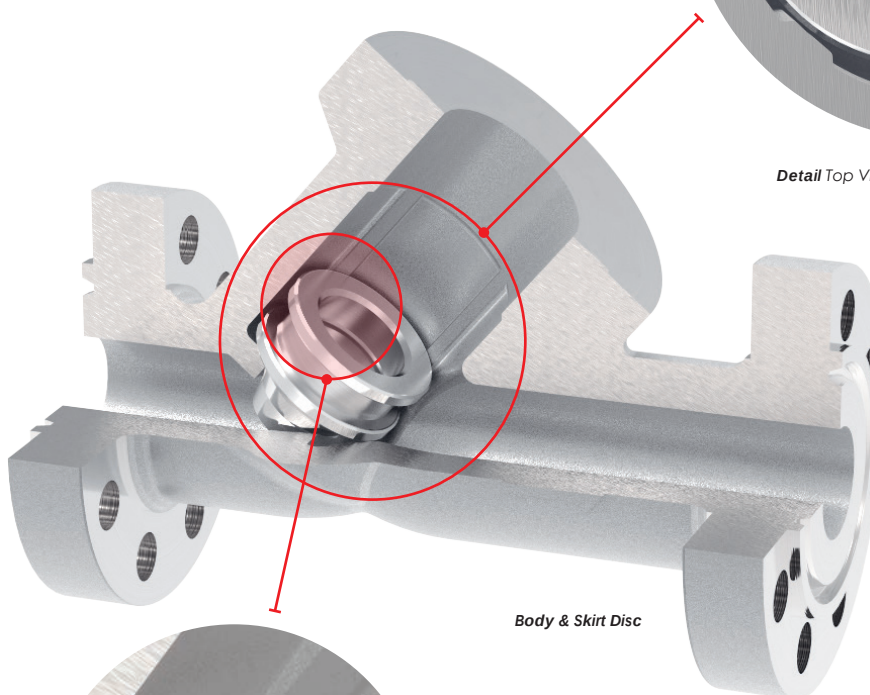
Fully body-guided design in globe & stop check valves ensures good alignment of the disc with the valve seat and eliminate all side-thrust problems.

Conventional body-guided designs may lead to sticking problems due to foreign material entrapment in some systems.

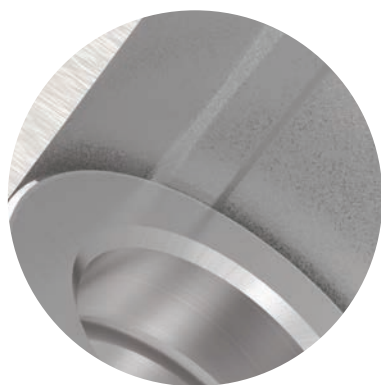
Xanik offers the disc guides normally hard faced and the body is designed with internal ribs to minimize contact surfaces and to allow the foreign materials pass through the disc.



Detail Top View of Skirt Disc & Internal Ribs



Body & Skirt Disc



Detail of Skirt Disc & Internal Ribs

The body ribs allow the flow to pass around the disc, permitting the **Xanik**® stop check or lift check valves respond rapidly to flow when it's opening.



Seat materials

Evolution of Stellite® No.6 to the Tribaloy® T-900

The metallurgic information and the experience in field from the late Eighties to the present, have proven that the Stellite® No. 6 is satisfactory for temperatures up to 800°F, however when the temperatures reach 900°F, the hardness of the Stellite® No. 6 begins to be rapidly deteriorated and its properties are reduced dramatically.

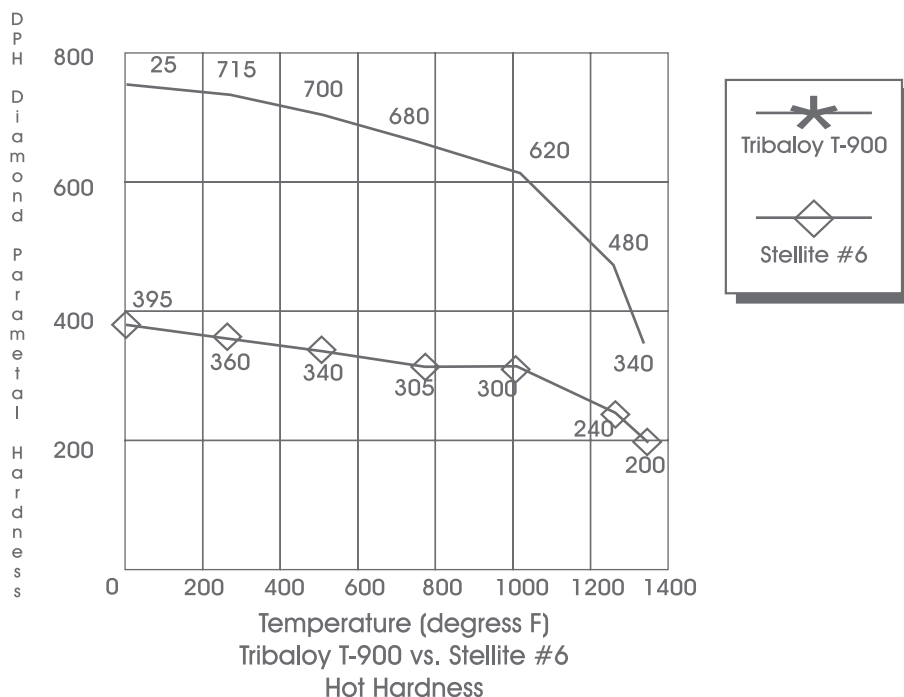
The valves that are used in steam can reach temperatures of 1200°F. The Stellite® No. 6 at those temperatures has only two-thirds of its original hardness at 100°F. The experiences demonstrate us that, in critical applications, the valves with Stellite® No. 6 overlay are worn to the degree that their seats have to be repaired every six months.

Under high bearing pressure, the wear of the valve seats is revealed by detached particles on the surface of the overlay; tears that then are converted into veins by where the steam leaks.

Investigations have been accomplished to find a material that could sustain temperatures over 1100°F under load cycles. "Stellite Corporation" developed the Tribaloy® T-900, which has a greater hardness than the double of the Stellite® No. 6 at 1000 °F and almost two times at 1200 °F. This permits us to accomplish continuous opening and closing cycles in high temperatures. The experience in field has shown a clear advantage for using Tribaloy®.

Also, Stellite® 6 after exposure to natural steam aging conditions, develops an oxide film that increase the friction coefficient in the seats surfaces, raising by 60% the required torques for opening the valves. The nickel content in Tribaloy® reduce dramatically the tendency of oxidation, maintaining the operational valve torques much lower than Stellite® 6.

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NACE Services when temperature does not exceed 1000 °F (538 °C)

Material 13Cr is recommended with a heat treatment of Quench and Double Temper (QDT) the minimum temperature is at 1,150 °F (621 °C) to preserve the mechanical properties at the service below 1000 °F (538 °C). This stem material is standard in CS and 1 1/4 Cr valve body material.

High Temperature services

When valves exceed a temperature of 1000 °F (538 °C) the common stem material of 13Cr, typically a 410 SS, exhibit a low resistance. In this case, the material ASTM A565 Grade 616HT is recommended for services when is required 2 1/4 Cr or 9 Cr body material, the material 616HT is supplied as standard.

Corrosive services

When the user needs a trim material that required a 316 SS stem, that is good for corrosion and temperature service but exhibit very low resistance. To overcome this problem a stem made of Nitronic 50, is good alternative for types 316, 316L, 317 and 317L austenitic stainless steel materials. The Nitronic 50 has corrosion resistance greater than those types, plus approximately twice the yield strength. The Nitronic 50 is included in the following specification: ASTM A479-Type XM-19 (UNS S20910).

Corrosive services at high temperature

When is required a resistance to hydrogen embrittlement, oxidation and corrosion the super-alloy 660 is required. ASTM A668 Grade 660 is used for elevated-temperature applications when hydrogen is present in the media. Stainless steel is 347 is normally specified when using hydrogen at high temperatures but this material exhibit very low hardness, low strength and wear out in service, for that reason steams grade 660 are recommended when the body material of the valve is SS347.



Pressure Seal Gate valve materials

Xanik® Pressure Seal valves can be supplied with the full variety of trims and body / bonnet materials available to suit your specific service.

The materials listed are the more popular for steam and high temperature services. Other alloys are also available.

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	347 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A217 Gr. WC9	ASTM A217 Gr. C12A	ASTM A351 Gr. CF8C
2	Bonnet	ASTM A216 Gr. WCB or ASTM A105	ASTM A217 Gr. WC6 or ASTM A182 Gr. F11	ASTM A217 Gr. WC9 or ASTM A182 Gr. F22	ASTM A217 Gr. C12 A or ASTM A182 Gr. F91	ASTM A351 Gr. CF8C or ASTM A182 Gr. F347
3	Wedge	ASTM A216 Gr. WCB w/Co-Cr-W Overlay ¹	ASTM A217 Gr. WC6 w/Co-Cr-W Overlay ¹	ASTM A217 Gr. WC9 w/Co-Cr-W Overlay ¹	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay ¹	ASTM A351 Gr. CF8C w/Co-Cr-W Overlay ¹
4	Stem	ASTM A182 Gr. F6A CL2 ²	ASTM A182 Gr. F6A CL2 ²	ASTM A565 Gr. 616 HT	ASTM A565 Gr. 616 HT	ASTM A638 Gr. 660 T2
5	Seat Ring	ASTM A216 Gr. WCB w/Co-Cr-W Overlay ¹	ASTM A217 Gr. WC6 w/Co-Cr-W Overlay ¹	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay ¹	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay ¹	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay ¹
6	Gasket	Mild Steel (100 HB) Silver Plated ³	Mild Steel (100 HB) Silver Plated ³	Mild Steel (100 HB) Silver Plated ³	Mild Steel (100 HB) Silver Plated ³	ASTM A182 Gr. F 347 Silver Plated ³
7	Thrust Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
8	Segment Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
9	Body Inlay	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	347 Stainless Steel
10	Bonnet Retainer	ASTM A-515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
11	Packing	Flexible graphite intermediate rings, with braided graphite anti-extrusion rings in top & bottom ⁴				
12	Gland	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 347
13	Gland Flange	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A240 Gr. 304
14	Gland Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 B8 SH
15	Gland Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8
16	Bonnet Back Seat	Integral Stellite® back seat				
17	Bonnet Studs	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B8Cl.2
18	Stud Nuts	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 8
19	Stem Nut	ASTM B148 C95600	ASTM B148 C95600	ASTM B148 C95600	ASTM B148 C95600	ASTM B148 C95600
20	Bearings	Alloy Steel (MFG-STD)	Alloy Steel (MFG-STD)	Alloy Steel (MFG-STD)	Alloy Steel (MFG-STD)	Alloy Steel (MFG-STD)
21	Bearing Cap	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
22	Yoke	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB
23	Bearing Cap Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7
24	Bearing Cap Stud Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H
25	Yoke Bolt	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7
26	Handwheel	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12
27	Handwheel Nut	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
28	Discs	ASTM A515 Gr. 70 w/Co-Cr-W Overlay ¹	ASTM A182 Gr. F11 w/Co-Cr-W Overlay ¹	ASTM A182 Gr. F22 w/Co-Cr-W Overlay ¹	ASTM A182 Gr. F316 w/Co-Cr-W Overlay ¹	ASTM A182 Gr. F316 w/Co-Cr-W Overlay ¹
29	Carrier	ASTM A515 Gr. 70	ASTM A-515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A240 Gr. 316
30	Springs	Inconel® X-750	Inconel® X-750	Inconel® X-750	Inconel® X-750	Inconel® X-750

1. For better hardness, heat resistance and sliding properties use Tribaloy® T-900.

2. For outstanding corrosion resistance (pitting, galvanic and packing corrosion) use ASTM A638 Gr. 660 T2 or ASTM A479 UNS S20910 (According to customer requirements).

3. Graphite pressure seal gaskets can also be provided per customer request.

4. Other graphite packing can be supplied as required.

Class 600

Pressure Seal Gate valves

Gate flexible wedge

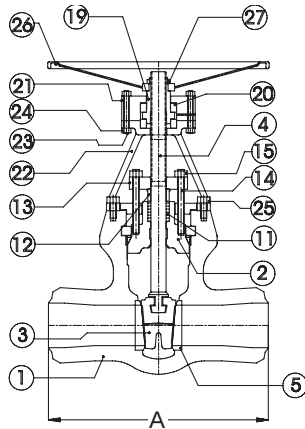
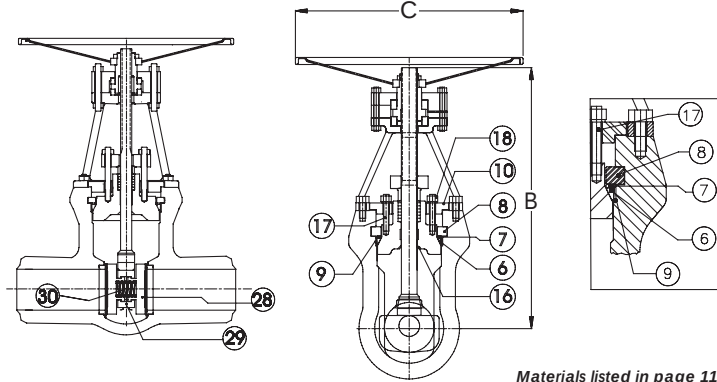


Fig. No. **GP06B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GP06R-F** Flex Wedge, Flanged Raised Face
Fig. No. **GP06J-F** Flex Wedge, Flanged, Ring Joint

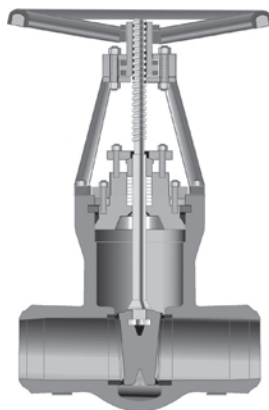
Gate parallel slide discs



Materials listed in page 11

Fig. No. **GP06B-S** Parallel Slide Disc, Butt Weld Ends
Fig. No. **GP06R-S** Parallel Slide Disc, Flanged Raised Face
Fig. No. **GP06J-S** Parallel Slide Disc, Flanged, Ring Joint

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24	30
A	End to End BW	in	7.00	8.50	10.00	12.00	18.00	23.00	28.00	32.00	35.00	39.00	43.00	47.00	55.00	65.00
		mm	178	216	254	305	458	585	712	813	889	991	1092	1194	1397	1651
A	Face to Face RF	in	11.5	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	65.00
		mm	292	330	356	432	559	661	788	839	889	991	1092	1194	1397	1651
A	Face to Face RTJ	in	11.63	13.13	14.13	17.13	22.13	26.13	31.33	33.13	35.13	39.13	43.13	47.25	55.37	66.00
		mm	295	333	359	436	563	664	791	842	892	994	1096	1200	1406	1676
B	Center to top	in	19.06	19.06	25.63	27.94	43.5	48.31	51.87	68.56	70.00	74.21	88.38	97.25	117.50	94.00
		mm	485	485	651	710	1105	1227	1318	1741	1778	1885	2245	2470	2984	2388
C	Handwheel	in	10	10	14	14	20	24	30	30	36	36	36	36	36	24
		mm	254	254	356	254	508	610	762	762	914	914	914	914	914	610
	Weight weld ends	lbs	81	81	81	167	372	667	1114	1623	2345	3303	4624	5865	7409	7100
		kg	37	37	37	76	169	303	506	738	1066	1498	2097	2660	3360	3227
	Weight flanged ends	lbs	93	93	185	302	511	903	1495	2157	3208	4022	5532	7080	9407	8550
		kg	42	42	84	137	230	407	673	971	1455	1824	2509	3211	4266	3886
Cv	Flow coefficient		311	390	680	1320	2730	4805	7473	11002	13309	17627	22237	27403	40360	46503



Detail front view of pressure seal gate flexible wedge valve

Venturi Gate valves

Fig. No. **GV06B-F** Flex Wedge - Butt Weld Ends
Fig. No. **GV06B-S** Parallel Slide Disc - Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14
A	End to End BW	in	18	23	28	32
		mm	458	585	712	813
B	Center to top	in	43.5	48.31	51.87	68.56
		mm	1105	1227	1318	1741
C	Handwheel	in	20	24	30	30
		mm	508	610	762	762
	Weight	lbs	409	734	1225	1785
		kg	186	334	557	812
Cv	Flow coefficient		2650	4500	7100	9900

NOTE: 1. As standard, valves are supplied with a handwheel through 12".
Bevel gear supplied on 14"-24"



Class 900 Pressure Seal Gate valves

Gate flexible wedge

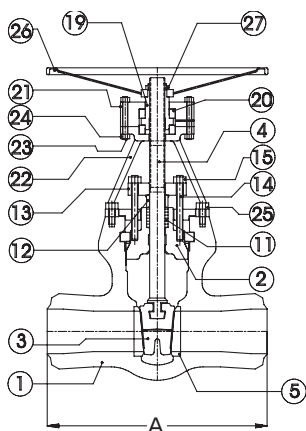


Fig. No. **GP09B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GP09R-F** Flex Wedge, Flanged Raised Face
Fig. No. **GP09J-F** Flex Wedge, Flanged, Ring Joint

Gate parallel slide discs

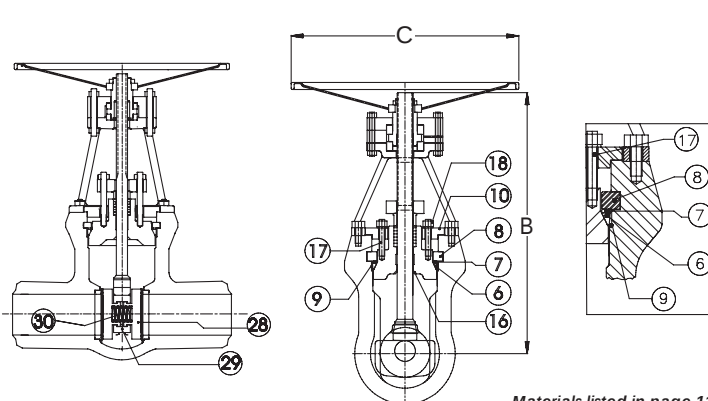
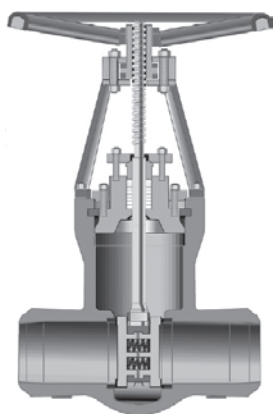


Fig. No. **GP09B-S** Parallel Slide Disc, Butt Weld Ends
Fig. No. **GP09R-S** Parallel Slide Disc, Flanged Raised Face
Fig. No. **GP09J-S** Parallel Slide Disc, Flanged, Ring Joint

Materials listed in page 11

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24	30
A	End to End BW	in	8.5	10	12	14	20	26	31	36	39	43	48	52	61	68
		mm	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1727
A	Face to Face RF	in	16.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	68
		mm	419	419	381	457	609	736	838	965	1028	1130	1219	1320	1549	1727
A	Face to Face RTJ	in	16.63	16.63	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.5	52.5	61.75	69.38
		mm	422	422	384	460	612	740	841	968	1039	1140	1231	1333	1568	1762
B	Center to top	in	17.25	17.25	19.06	22.44	32.25	37.31	45.13	51.06	59.00	69.00	75.00	81.00	91.00	98.00
		mm	438	438	485	570	820	948	1147	1297	1499	1758	1911	2044	2311	2489
C	Handwheel	in	14	14	14	14	18	24	28	34	34	30	30	30	20	24
		mm	356	356	356	254	457	609	711	863	863	762	762	762	508	610
	Weight weld ends	lbs	63	63	84	129	328	619	1048	1539	2177	3066	4600	5369	8603	7300
		kg	29	29	38	59	148	279	472	693	987	1390	2086	2434	3901	3318
	Weight flanged ends	lbs	130	130	137	224	537	930	1559	2250	3180	4300	6400	7500	12600	9200
		kg	59	59	62	101	243	419	702	1013	1442	1950	2902	3401	5714	4182
Cv	Flow coefficient		259	376	508	938	2111	3648	5782	8222	10016	13182	16796	20860	30346	42659



Detail front view of pressure seal gate parallel slide disc valve

Venturi Gate valves

Fig. No. **GV09B-F** Flex Wedge - Butt Weld Ends
Fig. No. **GV09B-S** Parallel Slide Disc, Butt Weld Ends

Dim	Valve size		8 × 6 × 8	10 × 8 × 10	12 × 10 × 12	14 × 12 × 14	16 × 14 × 16	18 × 16 × 18	20 × 18 × 20
A	End to End BW	in	20	26	31	36	39	43	48
		mm	508	660	787	914	991	1092	1219
B	Center to top	in	32.25	37.31	45.13	51.06	59	65	70
		mm	820	948	1147	1297	1499	1651	1778
C	Handwheel	in	18	24	28	34	34	30	30
		mm	457	609	71	863	863	762	762
	Weight	lbs	340	642	1083	1586	2238	3140	4700
		kg	153	289	488	714	1008	1413	2115
Cv	Flow coefficient		1998	3480	5200	7700	9500	12000	15000

NOTE: 1. As standard, valves are supplied with a handwheel through 12".
Bevel gear supplied on 14"-24"

Class 1500 Pressure Seal Gate valves

Gate flexible wedge

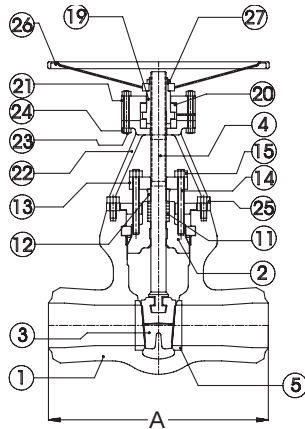


Fig. No. **GP15B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GP15R-F** Flex Wedge, Flanged Raised Face
Fig. No. **GP15J-F** Flex Wedge, Flanged, Ring Joint

Gate parallel slide discs

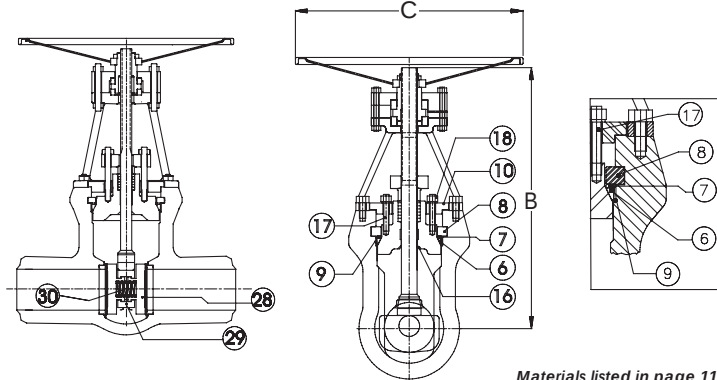
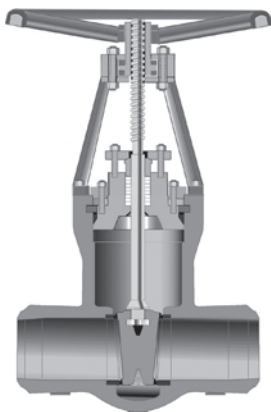


Fig. No. **GP15B-S** Parallel Slide Disc, Butt Weld Ends
Fig. No. **GP15R-S** Parallel Slide Disc, Flanged Raised Face
Fig. No. **GP15J-S** Parallel Slide Disc, Flanged, Ring Joint

Materials listed in page 11

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24	30
A	End to End BW	in	8.5	10	12	16	22	28	34	39	42	47	53	58	76.5	72
		mm	216	254	305	406	559	711	864	991	1067	1194	1346	1473	1943	1829
A	Face to Face RF	in	16.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	65.5	76.5	72
		mm	419	419	470	546	705	831	990	1130	1257	1384	1536	1663	1943	1829
A	Face to Face RTJ	in	16.63	16.63	18.63	21.63	28	33.13	39.38	45.13	50.25	55.38	61.38	66.38	77.63	73.38
		mm	422	422	473	549	711	841	1000	1146	1276	1406	1559	1685	1972	1864
B	Center to top	in	17.25	17.25	21.00	24.75	33.00	36.75	44.50	50.63	67	74	77	90	98	106
		mm	438	438	533	629	837	933	1130	1286	1695	1880	1962	2286	2489	2692
C	Handwheel	in	14	14	14	14	24	34	34	34	30	20	20	24	20	24
		mm	356	356	356	254	609	863	863	863	762	508	508	609	508	610
	Weight weld ends	lbs	63	63	110	200	524	905	1880	2536	3226	4211	5453	6322	9450	10950
		kg	29	29	50	90	236	408	846	1142	1452	1909	2454	2867	4286	4977
	Weight flanged ends	lbs	130	130	181	322	751	1330	2242	3610	4954	6516	8520	10157	14175	13800
		kg	59	59	82	145	338	599	1009	1625	2246	2955	3863	4606	6430	6272
Cv	Flow coefficient		237	303	450	838	1800	3159	5011	7123	8607	11318	14432	18907	26416	37443



Detail front view of
pressure seal gate
flexible wedge valve

Venturi Gate valves

Fig. No. **GV15B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GV15B-S** Parallel Slide Disc, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20
A	End to End BW	in	22	28	34	39	42	47	53
		mm	559	711	864	991	1067	1194	1346
B	Center to top	in	33	36.75	44.50	50.63	67	74	77
		mm	837	933	1130	1286	1689	1880	1962
C	Handwheel	in	24	34	34	34	30	20	20
		mm	609	863	863	863	762	508	508
	Weight	lbs	545	938	1943	2615	3316	4316	5573
		kg	246	423	875	1177	1493	1943	2508
Cv	Flow coefficient		1630	2890	4620	6950	8420	10900	13150

NOTE: 1. As standard, valves are supplied with a handwheel through 10".
Bevel gear supplied on 12"-24"



Class 2500 Pressure Seal Gate valves

Gate flexible wedge

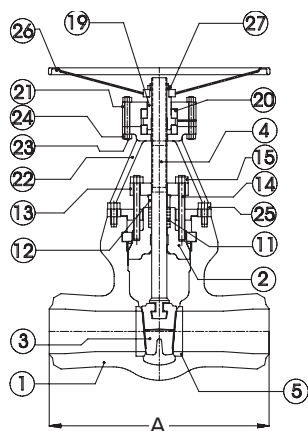


Fig. No. **GP25B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GP25R-F** Flex Wedge, Flanged Raised Face
Fig. No. **GP25J-F** Flex Wedge, Flanged, Ring Joint

Gate parallel slide discs

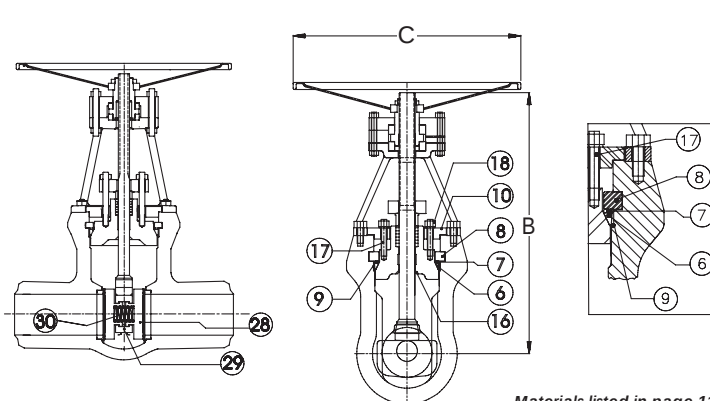
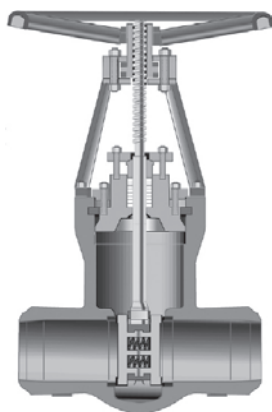


Fig. No. **GP25B-S** Parallel Slide Disc, Butt Weld Ends
Fig. No. **GP25R-S** Parallel Slide Disc, Flanged Raised Face
Fig. No. **GP25J-S** Parallel Slide Disc, Flanged, Ring Joint

Materials listed in page 11

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.5	13	14.5	18	24	30	36	41	44	49	55	62	66
		mm	368	330	368	457	609	762	914	1041	1117	1244	1397	1574	1676
A	Face to Face RF	in	22.75	22.75	22.75	26.5	36	40.25	50	56	(2)	(2)	(2)	(2)	(2)
		mm	577	577	577	673	914	1028	1270	1422	(2)	(2)	(2)	(2)	(2)
A	Face to Face RTJ	in	23	23	23	26.88	36.5	40.88	50.88	56.88	(2)	(2)	(2)	(2)	(2)
		mm	584	584	584	683	957	1039	1293	1445	(2)	(2)	(2)	(2)	(2)
B	Center to top	in	22.00	22.00	22.00	25.88	32.50	37.50	40.75	56.00	72	81	89	97	115
		mm	559	559	559	658	826	953	1036	1423	1829	2057	2260	2464	2921
C	Handwheel	in	14	14	14	18	24	34	34	30	20	20	24	30	30
		mm	356	356	254	457	609	863	863	762	508	508	609	762	762
	Weight weld ends	lbs	268	268	268	304	805	1205	2113	3053	4107	5482	7653	10162	15900
		kg	121	121	121	137	363	543	951	1374	1862	2486	3470	4608	7210
	Weight flanged ends	lbs	428	428	428	532	1425	2090	4038	5890	(2)	(2)	(2)	(2)	(2)
		kg	193	193	193	240	642	941	1818	2651	(2)	(2)	(2)	(2)	(2)
Cv	Flow coefficient		170	230	230	340	900	1780	3000	4250	5360	7280	9016	12000	17911



Detail front view of
pressure seal gate
parallel slide disc valve

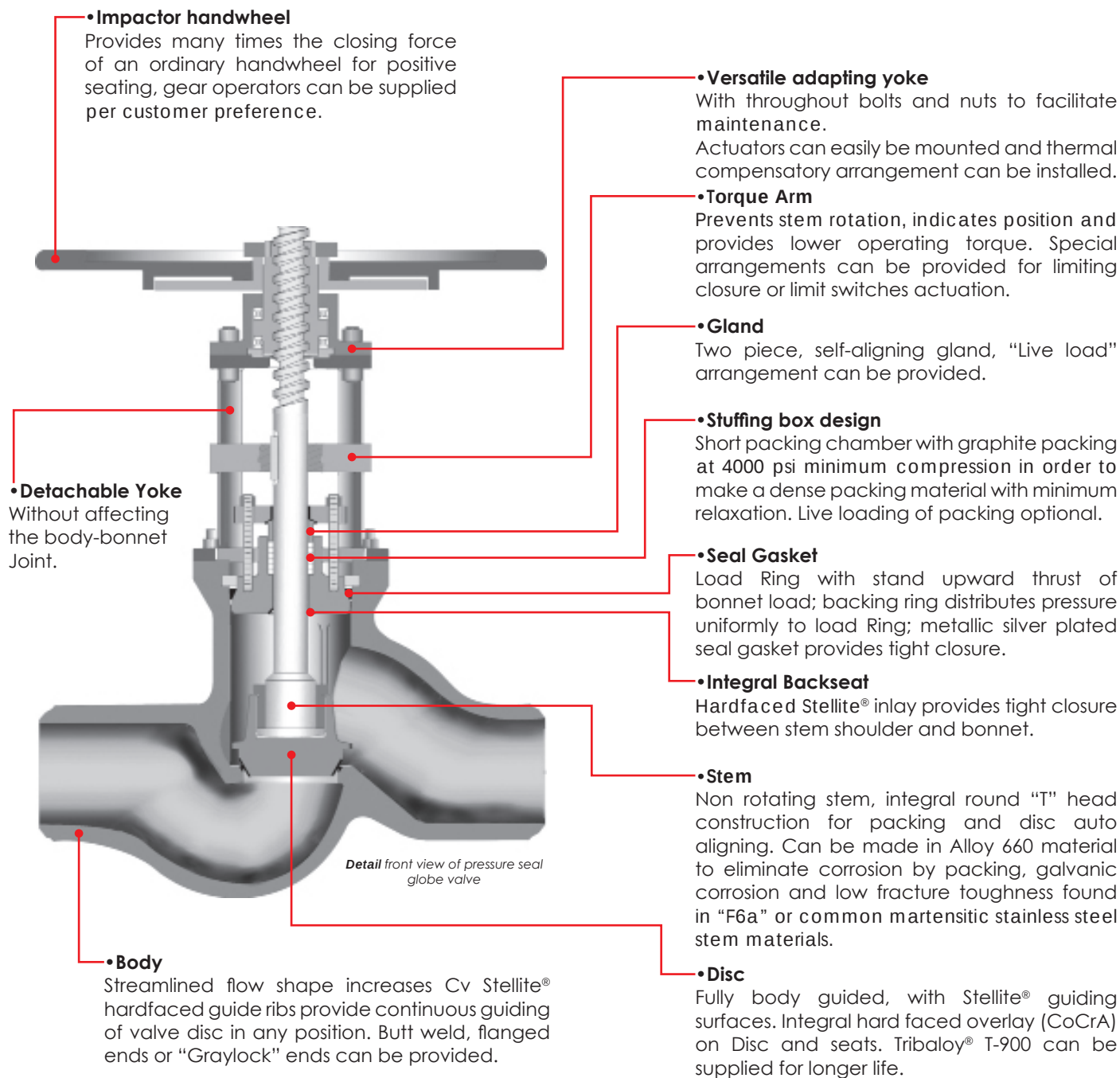
Venturi Gate valves

Fig. No. **GV25B-F** Flex Wedge, Butt Weld Ends
Fig. No. **GV25B-S** Parallel Slide Disc, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20
A	End to End BW	in	24	30	36	41	44	49	55
		mm	610	762	914	1041	1118	1245	1397
B	Center to top	in	32.50	37.50	40.75	56.00	72	81	89
		mm	826	953	1036	1423	1829	2057	2261
C	Handwheel	in	24	34	34	30	20	20	24
		mm	609	863	863	762	508	508	609
	Weight	lbs	837	1250	2185	3148	4222	5620	7760
		kg	377	563	984	1417	1900	2529	3527
Cv	Flow coefficient		900	1620	2600	3700	4800	6300	8100

NOTE: 1. As standard, valves are supplied with a handwheel through 8".
Bevel gear supplied on 10"-24"

Features of "T" pattern globe & stop check Pressure Seal valves





Pressure Seal Globe & Stop Check valves materials

Xanik® Pressure Seal valves can be supplied with the full variety of trims and body/bonnet materials available to suit your specific service.

The materials listed are the more popular for steam and high temperature services. Other alloys are also available.

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	347 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr.WC6	ASTM A217 Gr. WC9	ASTM A217 Gr.C12A	ASTM A351 Gr.CF8C
2	Bonnet	ASTM A216 Gr. WCB or ASTM A105	ASTM A217 Gr.WC6 or ASTM A182 - F11	ASTM A217 Gr. WC9 or ASTM A182 - F22	ASTM A217 Gr.C12 A or ASTM A182 - F91	ASTM A351 Gr.CF8C
3	Disc	ASTM A216 Gr. WCB or ASTM A105 w/Co-Cr-W Overlay ¹	ASTM A217 Gr.WC6 or ASTM A182 - F1 w/Co-Cr-W Overlay ¹	ASTM A217 Gr. WC9 or ASTM A182 - F22 w/Co-Cr-W Overlay ¹	ASTM A351 Gr.CF8M w/ Co-Cr-W Overlay ¹	ASTM A351 Gr.CF8C w/Co-Cr-W Overlay ¹
4	Stem	ASTM A182 Gr. F6A CL2 ²	ASTM A182 Gr. F6A CL2 ²	ASTM A567 Gr. 616HT	ASTM A567 Gr. 616HT	ASTM A638 Gr.660 T2
5	Seat Ring	ASTM A216 Gr. WCB w/Co-Cr-W Overlay	ASTM A217 Gr.WC6 w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay	ASTM A351 Gr.CF8C w/Co-Cr-W Overlay
6	Gasket	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	ASTM A182 Gr.F 347 Silver plated ³
7	Thrust Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
8	Segment Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
9	Body Inlay	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel
10	Bonnet Retainer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
11	Packing	Flexible graphite intermediate rings, with braided graphite anti-extrusion rings in top & bottom ⁴				
12	Gland	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 316
13	Gland Flange	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A240 Gr. 304
14	Gland Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 B8
15	Gland Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Cl.2
16	Bonnet Back Seat	Integral Stellite® back seat				
17	Retainer Bolts	ASTM A193 Gr.B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A-193 Gr. B16
18	Stem Nut	ASTM B148 C95600	ASTM B148 C95600	ASTM B148 C95600	ASTM B148 C95600	ASTM B-148 C95600
19	Bearings	Alloy steel (MFG-STD)	Alloy steel (MFG-STD)	Alloy steel (MFG-STD)	Alloy steel (MFG-STD)	Alloy steel (MFG-STD)
20	Bearing Cap	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
21	Yoke	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB
22	Bearing Cap Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7
23	Bearing Cap Stud Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H
24	Yoke Bolt	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B7
25	Handwheel	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12
26	Handwheel Nut	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
27	Stem Guide	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
28	Disc nut	ASTM A276-410	ASTM A 276-410	ASTM A 276-410	ASTM A 276-410	ASTM A 276-316
29	Thrust Washer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70

1. For better hardness, heat resistance and sliding properties use Tribaloy® T-900.

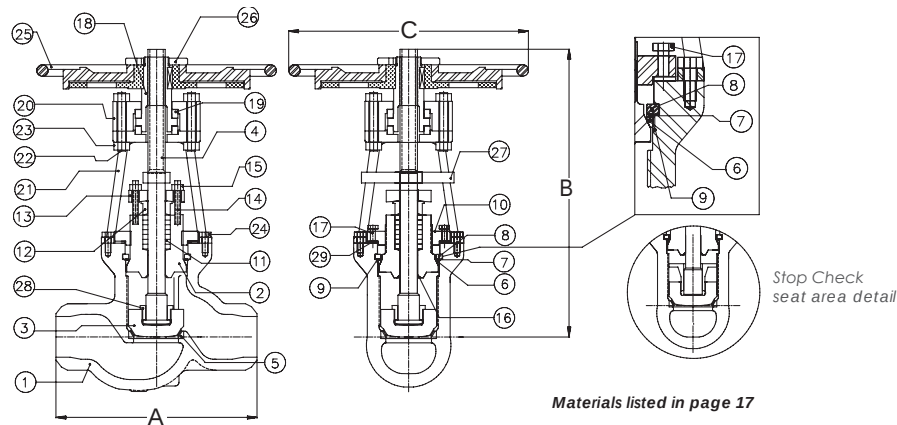
2. For outstanding corrosion resistance (pitting, galvanic and packing corrosion) use ASTM A638 Gr. 660 T2 or ASTM A479 UNS S20910 (According to customer requirements).

3. Graphite pressure seal gaskets can also be provided per customer request.

4. Other graphite packing can be supplied as required.

Class 600

"T" pattern globe & stop check Pressure Seal valves

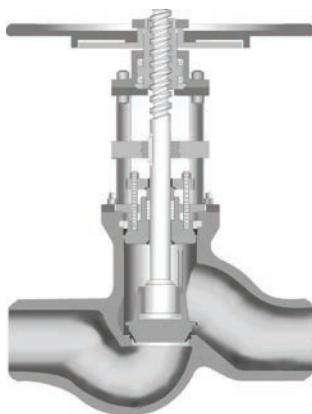


Materials listed in page 17

Fig. No. **BP06B** Globe, Butt Weld Ends
Fig. No. **BP06R** Globe, Flanged Raised Face
Fig. No. **BP06J** Globe, Flanged, Ring Joint

Fig. No. **SP06B** Stop-check, Butt Weld Ends
Fig. No. **SP06R** Stop-check, Flanged Raised Face
Fig. No. **SP06J** Stop-check, Flanged, Ring Joint

Dim	Valve size	2	2.5	3	4	6	8	10	12	14
A	End to End BW	in	7	8.5	10	12	18	23	28	35
		mm	178	216	254	305	457	584	711	889
A	Face to Face RF	in	11.5	13	14	17	22	26	31	35
		mm	292	330	356	432	559	660	787	889
A	Face to Face RTJ	in	11.63	13.13	14.13	17.13	22.13	26.13	31.13	35.13
		mm	295	333	359	435	562	664	791	892
B	Center to top	in	18	18	18	23	33	39	46	60
		mm	457	457	457	584	825	990	1186	1524
C	Handwheel	in	16	16	16	16	28	28	36	36
		mm	406	406	406	406	711	711	914	914
	Weight weld ends	lbs	90	90	90	198	576	965	1603	2272
		kg	41	41	41	90	261	437	727	1030
	Weight flanged ends	lbs	150	150	150	275	765	1325	2050	2920
		kg	68	68	68	124	346	600	929	1324
Cv	Flow coefficient		55	87	127	232	475	838	1305	1924



Detail front view of pressure seal globe valve

Venturi Globe valves

Fig. No. **BV06B** Globe, Butt Weld Ends
Fig. No. **SV06B** Stop-check, Butt Weld Ends

Dim	Valve size	8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16
A	End to End BW	in	24	29	33	40.5
		mm	609	736	838	1028
B	Center to top	in	33	39	46	60
		mm	825	990	1168	1524
C	Handwheel	in	28	28	36	36
		mm	711	711	914	914
	Weight	lbs	580	979	1628	2340
		kg	263	444	738	1061
Cv	Flow coefficient		460	800	1200	1800

NOTE: 1. As standard, valves are supplied with a handwheel through 4".
Bevel gear supplied on 6"-14"



Class 900

"T" pattern globe & stop check Pressure Seal valves

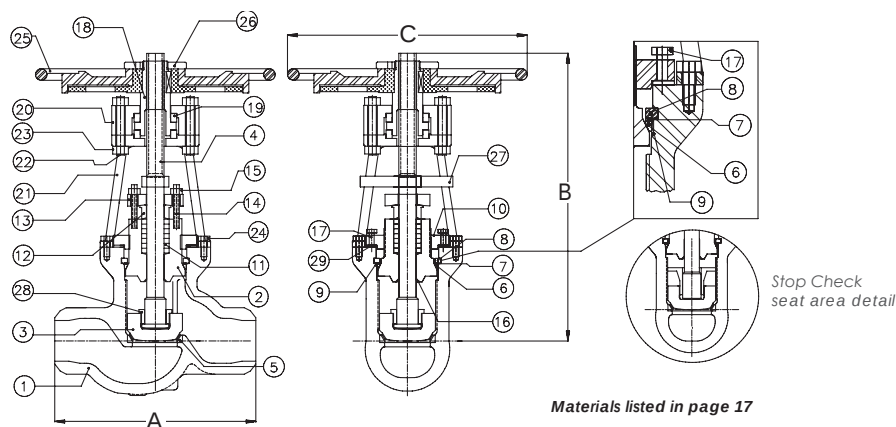
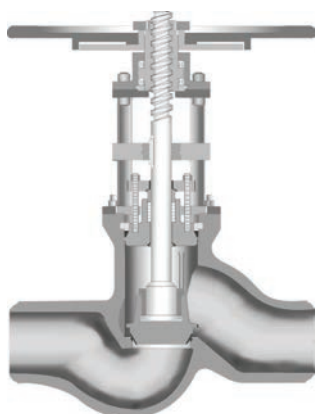


Fig. No. **BP09B** Globe, Butt Weld Ends
 Fig. No. **BP09R** Globe, Flanged Raised Face
 Fig. No. **BP09J** Globe, Flanged, Ring Joint

Fig. No. **SP09B** Stop-check, Butt Weld Ends
 Fig. No. **SP09R** Stop-check, Flanged Raised Face
 Fig. No. **SP09J** Stop-check, Flanged, Ring Joint

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16
A	End to End BW	in	8.5	10	12	14	20	26	31	36	39	43
		mm	216	254	304	355	508	660	787	914	990	1092
A	Face to Face RF	in	15	15	15	18	24	29	33	38	40.5	44.5
		mm	381	381	381	457	609	736	838	965	1028	1130
A	Face to Face RTJ	in	15.13	15.13	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88
		mm	384	384	384	460	612	739	841	968	1039	1140
B	Center to top	in	18	18	18	23	33	39	46	52	60	57
		mm	457	457	457	584	825	990	1186	1320	1524	1447
C	Handwheel	in	16	16	16	16	28	28	36	36	36	42
		mm	406	406	406	406	711	711	914	914	914	1066
	Weight weld ends	lbs	90	90	90	198	576	965	1603	2272	3384	4840
		kg	41	41	41	90	261	437	727	1030	1534	2200
	Weight flanged ends	lbs	150	150	150	275	765	1325	2050	2920	4430	6072
		kg	68	68	68	124	346	600	929	1324	2009	2760
Cv	Flow coefficient		45	70	103	192	435	756	1204	1719	2099	3150



Detail front view of pressure seal globe valve

Venturi Globe valves

Fig. No. **BV09B** Globe, Butt Weld Ends
 Fig. No. **SV09B** Stop-check, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16
A	End to End BW	in	24	29	33	38	40.5
		mm	609	736	838	965	1028
B	Center to top	in	33	39	46	52	60
		mm	825	990	1168	1320	1524
C	Handwheel	in	28	28	36	36	36
		mm	711	711	914	914	914
	Weight	lbs	580	979	1628	2340	3424
		kg	263	444	738	1061	1553
Cv	Flow coefficient		400	700	1100	1600	1900

NOTE: 1. As standard, valves are supplied with a handwheel through 4".
 Bevel gear supplied on 6"-14"

Class 1500

"T" pattern globe & stop check Pressure Seal valves

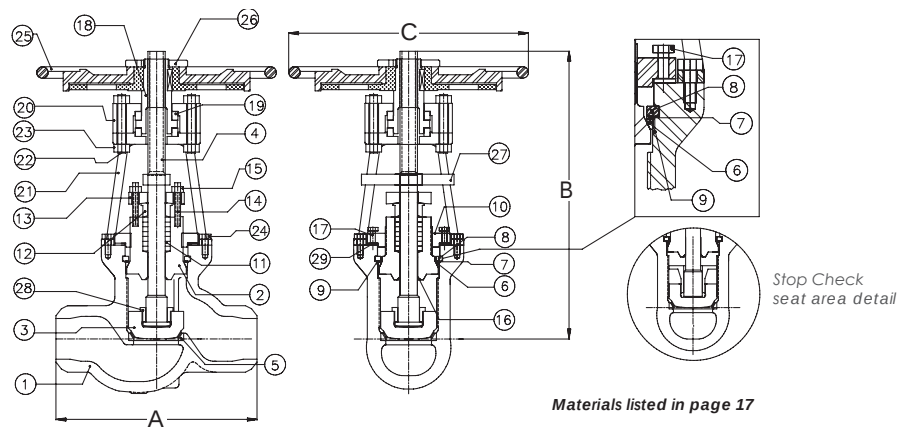
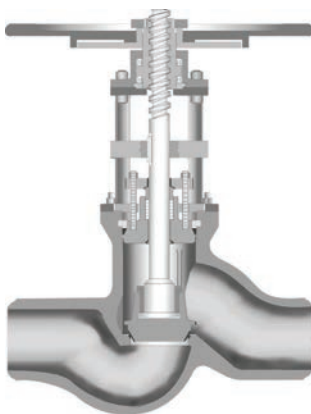


Fig. No. **BP15B** Globe, Butt Weld Ends
Fig. No. **BP15R** Globe, Flanged Raised Face
Fig. No. **BP15J** Globe, Flanged, Ring Joint

Fig. No. **SP15B** Stop-check, Butt Weld Ends
Fig. No. **SP15R** Stop-check, Flanged Raised Face
Fig. No. **SP15J** Stop-check, Flanged, Ring Joint

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16
A	End to End BW	in	8.5	10	12	16	22	28	34	39	42	47
		mm	216	254	305	406	559	711	864	991	1067	1194
A	Face to Face RF	in	16.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5
		mm	419	419	469	546	704	831	990	1130	1257	1384
A	Face to Face RTJ	in	16.63	16.63	18.63	21.63	28	33.13	39.38	45.13	50.25	55.38
		mm	422	422	473	549	711	841	1000	1146	1276	1407
B	Center to top	in	19	19	23	27	37	47	50	57	68	79
		mm	482	482	577	685	933	1193	1270	1447	1727	2007
C	Handwheel	in	16	16	16	16	28	36	36	42	GO	GO
		mm	406	406	406	406	711	914	914	1066	GO	GO
	Weight weld ends	lbs	105	105	175	333	810	1381	2565	4046	5170	6490
		kg	47	47	79	151	367	626	1163	1835	2380	2950
	Weight flanged ends	lbs	165	165	255	460	1110	1880	3380	5270	6983	8791
		kg	75	75	115	208	503	852	1533	2390	3174	3996
Cv	Flow coefficient		45	65	94	167	379	655	1042	1487	2046	2670



Detail front view of pressure seal globe valve

Venturi Globe valves

Fig. No. **BV15B** Globe, Butt Weld Ends
Fig. No. **SV15B** Stop-check, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14
A	End to End BW	in	27.75	32.75	39	44.5
		mm	705	831	990	1130
B	Center to top	in	37	47	50	57
		mm	933	1193	1270	1447
C	Handwheel	in	28	36	36	42
		mm	711	914	914	1066
	Weight	lbs	816	1396	2595	4082
		kg	370	633	1177	1851
Cv	Flow coefficient		320	600	950	1200

NOTE: 1. As standard, valves are supplied with a handwheel through 3".
Bevel gear supplied on 4"-12"



Class 2500

"T" pattern globe & stop check Pressure Seal valves

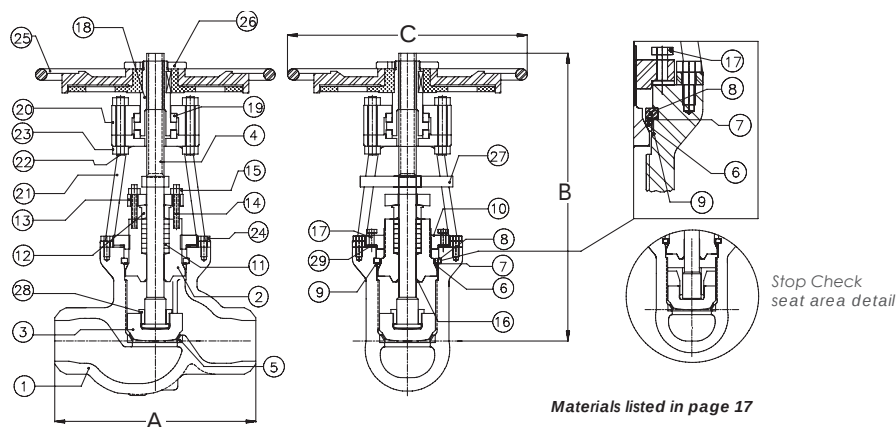
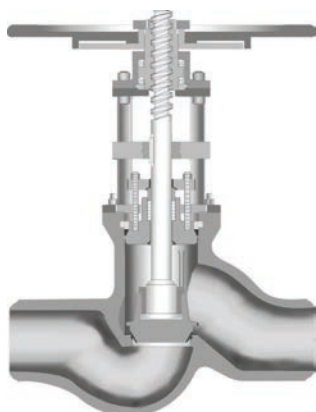


Fig. No. **BP25B** Globe, Butt Weld Ends
Fig. No. **BP25R** Globe, Flanged Raised Face
Fig. No. **BP25J** Globe, Flanged, Ring Joint

Fig. No. **SP25B** Stop-check, Butt Weld Ends
Fig. No. **SP25R** Stop-check, Flanged Raised Face
Fig. No. **SP25J** Stop-check, Flanged, Ring Joint

Dim	Valve size	2	2.5	3	4	6	8	10	12
A	End to End BW	in	11	13	14.5	18	24	30	41
		mm	279	330	368	457	610	762	1041
A	Face to Face RF	in	20	20	22.75	26.5	36	40.25	56
		mm	508	508	578	673	914	1022	1422
A	Face to Face RTJ	in	20.25	20.25	23	26.88	36.5	40.88	56.88
		mm	514	514	584	683	927	1039	1445
B	Center to top	in	20	20	24	27	38	47	60
		mm	495	495	603	685	971	1200	1524
C	Handwheel	in	16	16	16	16	28	36	42
		mm	406	406	406	406	711	914	1066
	Weight weld ends	lbs	165	165	253	310	1013	1693	2911
		kg	74	74	114	140	459	767	1320
	Weight flanged ends	lbs	260	260	430	575	1700	2730	4900
		kg	117	117	195	260	770	1238	2222
Cv	Flow coefficient		27	45	62	102	246	435	1010



Detail front view of pressure seal globe valve

Venturi Globe valves

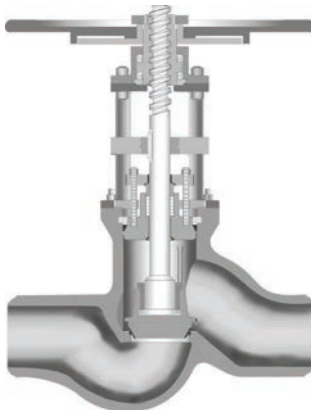
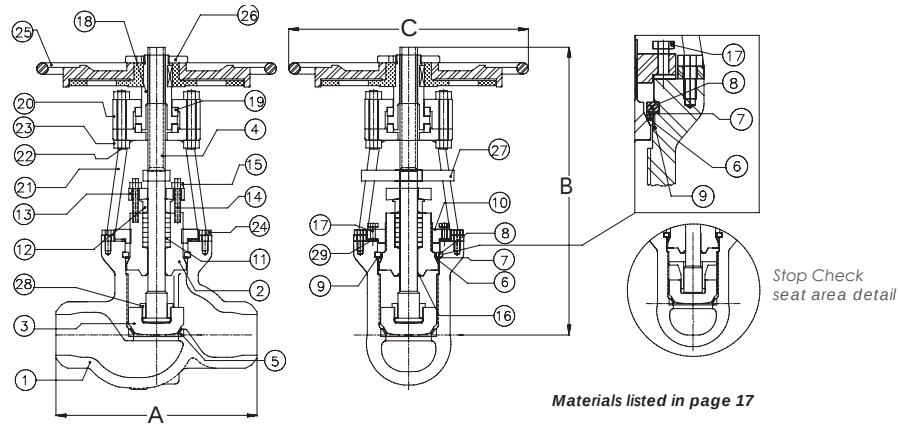
Fig. No. **BV25B** Globe, Butt Weld Ends
Fig. No. **SV25B** Stop-check, Butt Weld Ends

Dim	Valve size	8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14
A	End to End BW	in	31.25	36	40.25
		mm	914	1092	1244
B	Center to top	in	38	47	56
		mm	971	1200	1416
C	Handwheel	in	28	36	42
		mm	711	914	1066
	Weight	lbs	1063	1828	3125
		kg	482	829	1417
Cv	Flow coefficient		180	340	600

NOTE: 1. As standard, valves are supplied with a handwheel through 3".
Bevel gear supplied on 4"-12"

Class 4500

"T" pattern globe & stop check Pressure Seal valves



Detail front view of pressure seal globe valve

Venturi Globe valves

Fig. No. **BP45B** Globe, Butt Weld Ends

Fig. No. **SP45B** Stop-check, Butt Weld Ends

Dim	Valve size		2.5	3	4	6	8
A	End to End BW	in	18	18	18	24	30
		mm	457	457	457	609	762
B	Center to top	in	24	24	27	42	47
		mm	603	603	685	1067	1200
C	Handwheel	in	16	16	16	28	36
		mm	406	406	406	711	914
	Weight	lbs	245	253	325	1013	1750
		kg	111	114	147	459	794
Cv	Flow coefficient		29	42	69	179	292

NOTE: 1. As standard, valves are supplied with a handwheel through 3".
Bevel gear supplied on 4"-8"



Features of “Y” pattern globe & stop check Pressure Seal valves

•Stop Check valve applications

- Boiler Feedwater Pump non-return and stop Economizer inlet
- Boiler outlet stop & non-return (multiple boilers)
- Feedwater Heater Isolation
- Main Steam Stop Auxiliary Equipment

•Torque Arm

Prevents stem rotation, indicates position and provides lower operating torque. Special arrangements can be provided for limiting closure or limit switches actuation.

•Gland

Two piece, self-aligning gland, “Live load” arrangement can be provided.

•Seal Gasket

Load Ring with stand upward thrust of bonnet load; backing ring distributes pressure uniformly to load Ring; metallic silver plated seal gasket provides tight closure.

•Integral Backseat

Hardfaced Stellite® inlay provides tight closure between stem shoulder and bonnet.

•Disc

Fully body guided, with Stellite® guiding surfaces. Ample clearance between disc guide and stem for not inducing lateral load on packing.

•Center rib

Stream lined, with Stellite® hard faced inlay, guides and supports disc.

•Body

“Y” pattern shape for low pressure drop. Stellite® hardfaced guide ribs provide continuous guiding of valve disc in any position.

•Versatile adapting yoke

- With throughout bolts and nuts to facilitate maintenance.
- Actuators can easily be mounted.
- Thermal compensatory arrangement can be installed

•Detachable Yoke

Without affecting the body-bonnet joint.

•Stem

Non rotating stem, integral round “T” head construction for packing and disc auto aligning. Can be made in Alloy 660 material to eliminate corrosion by packing, galvanic corrosion and low fracture toughness found in “F6a” or common martensitic stainless steel stem materials.

•Stuffing box design

Short packing chamber with graphite packing at 4000 psi minimum compression in order to make a dense packing material with minimum relaxation. Live loading of packing optional.

Detail front view of pressure seal “Y” pattern globe valve

Integral hard faced overlay (CoCrA) on disc and seats.
Tribaloy® T-900 can be supplied for longer life.

"Y" pattern globe & stop check Pressure Seal valves materials

Xanik® Pressure Seal valves can be supplied with the full variety of trims and body/bonnet materials available to suit your specific service.

**The materials listed are the more popular for steam and high temperature services.
Other alloys are also available.**

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	316 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A217 Gr. WC9	ASTM A217 Gr. C12 A	ASTM A351 Gr. CF8M
2	Bonnet	ASTM A216 Gr. WCB or ASTM A105	ASTM A217 Gr. WC6 or ASTM A 182 - F11	ASTM A217 Gr. WC9 or ASTM A 182 - F22 w/Co-Cr-W Overlay	ASTM A217 Gr. C12 A or ASTM A182 - F91	ASTM A351 Gr. CF8M
3	Disc	ASTM A216 Gr. WCB or ASTM A105 w/Co-Cr-W Overlay	ASTM A217 Gr. WC6 or ASTM A 182 - F11 w/Co-Cr-W Overlay	ASTM A-351 Gr. CF8M w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay
4	Stem	ASTM A182 Gr. F6A CL2 ¹	ASTM A182 Gr. F6A CL2 ¹	ASTM A565 Gr. 616HT	ASTM A565 Gr. 616HT	ASTM A479 UNS S20910
5	Integral Hard Faced Seat	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay
6	Hard Faced Guide Ribs	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C
7	Disc Guide (Stop-Check) Disc Nut (Globe)	ASTM A276 Type 304	ASTM A276 Type 304	ASTM A276 Type 304	ASTM A276 Type 304	ASTM A276 Type 304
8	Pressure Seal Gasket	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	Mild Steel (100 HB) Silver plated ³	ASTM A182 Gr. F316 Silver plated ³
9	Packing	Flexible graphite john crane 237 intermediate rings, with john crane 1625 gf anti-extrusion rings in top & bottom				
10	Stem Nut	ASTM B148 C 95600	ASTM B148 C 95600	ASTM B148 C 95600	ASTM B148 C 95600	ASTM B148 C 95600
11	Hard Face Back Seat	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay
12	Spacer Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
13	Segment Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
14	Bonnet Retainer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
15	Yoke	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB
16	Gland	ASTM A217 Type 304				
17	Gland Flange	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A240 Gr. 304
18	Packing Bolts	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B8 SH
19	Packing Nuts	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 8
20	Stem Guide & Torque Limiter	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70	ASTM A515 Gr. 70
21	Gear Operator	Steel ³				
22	Handwheel	ASTM A536 Gr. 65-45-12	ASTM A536 Gr.65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12	ASTM A536 Gr. 65-45-12
23	Yoke Bolt & Nut	ASTM A193 Gr. B7 & ASTM A194 2H				
24	Retaining Bolt	ASTM A193 Gr. B16				
25	Retaining Nut	ASTM A194 -2H				
26	Gear Operator Stud	ASTM A193 Gr. B7				
27	Gear Operator Nut	ASTM A194 Gr. 2H				
28	18-8 INLAY	309 Stainless Steel				347 Stainless Steel
29	Grase Fitting	Steel				

1. For better hardness, heat resistance and sliding properties use Tribaloy® T-900.

2. For outstanding corrosion resistance (pitting, galvanic and packing corrosion) use ASTM A638 Gr. 660 T2 or ASTM A479 UNS S20910 (According to customer requirements).

3. Graphite pressure seal gaskets can also be provided per customer request.

4. Other graphite packing can be supplied as required.



Class 600

"Y" pattern globe & stop check Pressure Seal valves



Detail front view of "Y" pattern globe & stop check pressure seal valve

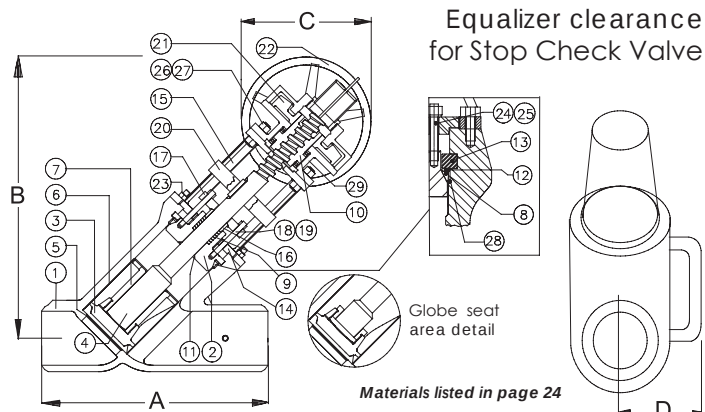


Fig. No. **BP06BY** Globe, Butt Weld Ends
Fig. No. **BP06RY** Globe, Flanged Raised Face
Fig. No. **BP06JY** Globe, Flanged, Ring Joint

Fig. No. **SP06BY** Stop-check, Butt Weld Ends
Fig. No. **SP06RY** Stop-check, Flanged Raised Face
Fig. No. **SP06JY** Stop-check, Flanged, Ring Joint

Dim	Valve size		6	8	10	12	14	16	18	20	24
A	End to End BW	in	20.00	23.00	28.00	32.00	36.25	41.00	58.00	55.00	59.50
		mm	508	584	711	813	921	1041	1473	1397	1511
A	Face to Face RF	in	29	33	39	43	43	52	*	*	*
		mm	737	838	991	1092	1092	1321	*	*	*
B	Center to top	in	33	41	50	58	75	82	90	103	110
		mm	838	1041	1270	1473	1905	2083	2286	2616	2794
C	Handwheel	in	20	26	26	30	48	48	48	48	48
		mm	508	660	660	762	1219	1219	1219	1219	1219
D	Equalizer clearance	in	10	12	13	14	16	22	24	28	31.75
		mm	254	305	330	356	406	559	600	711	806
	Weight weld ends	lbs	400	760	1400	2380	3950	5500	6015	7616	11385
		kg	181	345	635	1279	1795	2495	2734	3462	5175
	Weight flanged ends	lbs	570	1000	1800	2850	4570	6500	*	*	*
		kg	259	454	816	1293	2077	2948	*	*	*
Cv	Flow coefficient		890	1567	2439	3592	4346	5757	7265	8954	13194

Venturi Globe & Stop Check valves

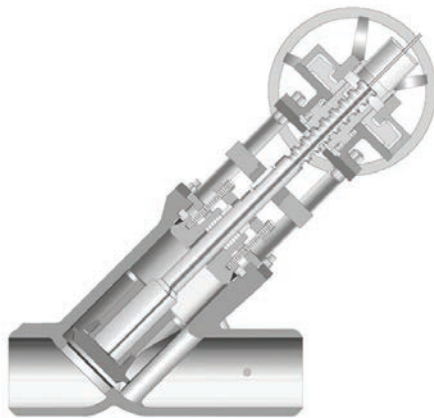
Fig. No. **BV06BY** Globe, Butt Weld Ends
Fig. No. **SV06BY** Stop-check, Butt Weld Ends

Dim	Valve size		10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	23.00	28.00	32.00	36.25	41.00	58.00	55.00	59.50
		mm	584	711	813	921	1041	1473	1397	1511
B	Center to top	in	41	50	58	77.84	89.62	98.11	110.97	110.83
		mm	1041	1270	1473	1977	2276	2492	2819	2815
C	Handwheel	in	26	26	30	48	48	72	72	72
		mm	660	660	762	1219	1219	1829	1829	1829
	Weight	lbs	940	1700	2780	4350	6200	6815	8616	12385
		kg	427	773	1264	1977	2818	3098	3916	5630
Cv	Flow coefficient		1500	2300	3400	4200	5600	7000	8700	12980

NOTE: 1. As standard, valves are supplied with bevel gear operator, as request can be supplied with impact handwheel.
* Information supplied upon request.

Class 900

"Y" pattern globe & stop check Pressure Seal valves



Detail front view of "Y" pattern globe & stop check pressure seal valve

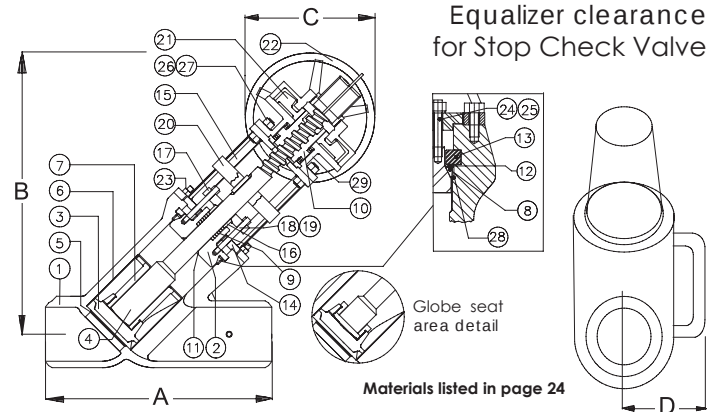


Fig. No. **BP09BY** Globe, Butt Weld Ends
Fig. No. **BP09RY** Globe, Flanged Raised Face
Fig. No. **BP09JY** Globe, Flanged, Ring Joint

Fig. No. **SP09BY** Stop-check, Butt Weld Ends
Fig. No. **SP09RY** Stop-check, Flanged Raised Face
Fig. No. **SP09JY** Stop-check, Flanged, Ring Joint

Dim	Valve size		2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.5	14.5	16.00	20.00	26.00	31.00	36.00	43.00	54.00	58.00	55.00	59.5
		mm	368	368	406	508	660	787	914	1042	1372	1473	1397	1511
A	Face to Face RF	in	17	18.5	22	30	38	44	50	51	58	*	*	*
		mm	432	470	559	762	965	1118	1270	1295	1473	*	*	*
B	Center to top	in	24.5	24.5	26	35	44	50	62	75	82	90	103	110
		mm	600	600	637	858	1078	1225	1519	1905	2083	2286	2616	2794
C	Handwheel	in	18	18	18	24	30	30	36	36	48	48	48	48
		mm	457	457	457	610	762	762	914	914	1219	1219	1219	1219
D	Equalizer clearance	in	7.5	7.5	7.63	10	12.5	13	15	16	25.75	28	31.75	36
		mm	190	190	194	254	318	330	381	406	654	711	806	914
	Weight weld ends	lbs	250	250	280	555	1150	2100	3400	3950	5550	6015	7616	11385
		kg	114	114	127	252	522	952	1541	1795	2517	2734	3462	5175
	Weight flanged ends	lbs	310	310	360	775	1550	2650	4150	5100	6950	*	*	*
		kg	141	141	164	351	703	1202	1882	2318	3152	*	*	*
Cv	Flow coefficient		130	190	360	815	1415	2250	3210	3916	5166	6596	8208	11981

Venturi Globe & Stop Check valves

Fig. No. **BV09BY** Globe, Butt Weld Ends
Fig. No. **SV09BY** Stop-check, Butt Weld Ends

Dim	Valve size		10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	26.00	31.00	36.00	43.00	54.00	58.00	55.00	59.50
		mm	660	787	914	1042	1372	1473	1397	1511
B	Center to top	in	44	50	62	75	82	90	103	110
		mm	1118	1270	1519	1905	2083	2286	2616	2794
C	Handwheel	in	30	30	39	36	48	48	48	48
		mm	762	762	914	914	1219	1219	1219	1219
	Weight	lbs	1310	2400	3800	4350	6250	6815	8616	12385
		kg	595	1091	1727	1977	2841	3098	3916	5630
Cv	Flow coefficient		1300	2000	3000	3600	4900	6200	7900	11600

NOTE: 1. As standard, valves are supplied with bevel gear operator, as request can be supplied with impact handwheel.
* Information supplied upon request.



Class 1500

"Y" pattern globe & stop check Pressure Seal valves



Detail front view of "Y" pattern globe & stop check pressure seal valve

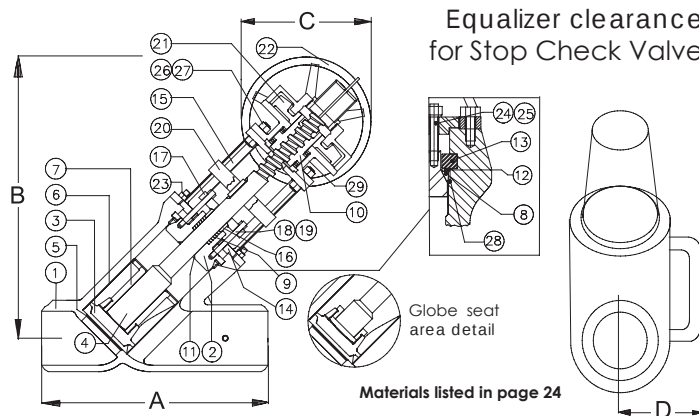


Fig. No. **BP15BY** Globe, Butt Weld End
Fig. No. **SP15BY** Stop-check, Butt Weld Ends

Dim	Valve size		2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.50	14.50	16.00	27.75	30.00	36.25	43.00	43.00	54.00	58.00	55.00	59.50
		mm	368	368	406	705	762	921	1092	1091	1372	1473	1397	1511
B	Center to top	in	26	26	26	38	50	58	63	77	85	89	97	115
		mm	660	660	660	965	1270	1473	1600	1956	2159	2261	2464	2921
C	Handwheel	in	18	18	18	24	30	36	42	48	48	48	48	48
		mm	457	457	457	610	762	914	1067	1219	1219	1219	1219	1219
D	Equalizer clearance	in	6.75	7.75	7.75	10	12	13	14	16	22	24	28	31.75
		mm	171	197	197	254	305	330	356	406	559	600	711	806
	Weight weld ends	lbs	250	250	280	800	1500	2000	3000	3950	6000	7500	10000	13600
		kg	114	114	127	363	680	907	1360	1795	2722	3402	4536	6169
Cv	Flow coefficient		130	176	313	710	1414	2250	3210	3880	5128	5660	7200	10416

Venturi Globe & Stop Check valves

Fig. No. **BV15BY** Globe, Butt Weld Ends
Fig. No. **SV15BY** Stop-check, Butt Weld Ends

Dim	Valve size		10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	30.00	36.25	43.00	43.00	54.00	58.00	55.00	59.50
		mm	762	921	1091	1091	1372	1473	1397	1511
B	Center to top	in	50	58	63	77	85	89	97	115
		mm	1270	1473	1600	1956	2159	2261	2464	2921
C	Handwheel	in	30	36	42	48	48	48	48	48
		mm	762	914	1067	1219	1219	1219	1219	1219
	Weight	lbs	1680	2300	3400	4350	6700	8300	11000	14600
		kg	764	1045	1545	1977	3045	3773	5000	6636
Cv	Flow coefficient		1300	2000	3000	3600	4900	5100	6900	9400

NOTE: 1. As standard, valves are supplied with bevel gear operator, as request can be supplied with impact handwheel.

Class 2500

"Y" pattern globe & stop check Pressure Seal valves



Detail front view of "Y" pattern globe & stop check pressure seal valve

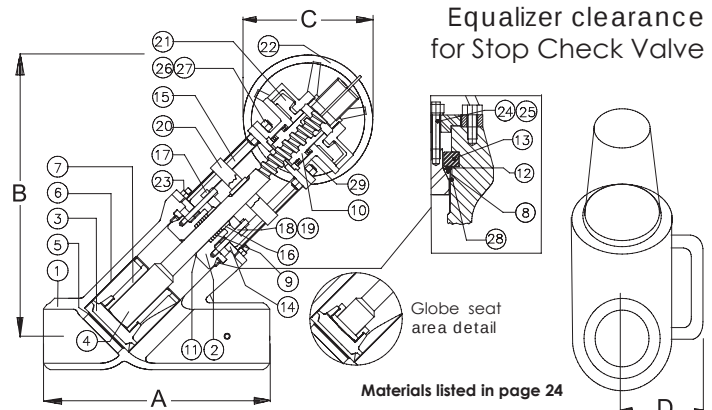


Fig. No. **BP25BY** Globe, Butt Weld Ends
Fig. No. **SP25BY** Stop-check, Butt Weld Ends

Dim	Valve size		2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.5	14.5	18.00	24.00	30.00	36.00	41.00	48.75	48.75	58.00	58.00	68.00
		mm	368	368	457	610	762	914	1041	1238	1238	1473	1473	1727
B	Center to top	in	26	26	26	38	50	58	63	77	85	89	97	115
		mm	660	660	660	965	1270	1473	1600	1956	2159	2261	2464	2921
C	Handwheel	in	18	18	18	24	30	36	36	48	48	48	48	48
		mm	457	457	457	610	762	914	914	1219	1219	1219	1219	1219
D	Equalizer clearance	in	7.25	8	8.5	11	12	15.75	17.5	20.25	22	24	28	32
		mm	184	203	216	279	305	400	445	514	559	600	711	813
	Weight weld ends	lbs	280	280	310	950	1550	2750	4600	6990	7010	12700	12790	16570
		kg	127	127	141	428	698	1238	2070	3146	3155	5715	5756	7457
Cv	Flow coefficient		104	152	252	575	1019	1652	2368	2901	3842	4929	5547	8158

Venturi Globe & Stop Check valves

Fig. No. **BV25BY** Globe, Butt Weld Ends
Fig. No. **SV25BY** Stop-check, Butt Weld Ends

Dim	Valve size		10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	30.00	36.00	41.00	48.75	48.75	58.00	58.00	68.00
		mm	762	914	1041	1238	1238	1473	1473	1727
B	Center to top	in	50	58	63	77	85	89	97	115
		mm	1270	1473	1600	1956	2159	2261	2464	2921
C	Handwheel	in	30	36	36	48	48	48	48	48
		mm	762	914	914	1219	1219	1219	1219	1219
	Weight	lbs	1765	3027	5125	7750	7770	13400	13490	18320
		kg	802	1376	2330	3523	3532	6091	6132	8327
Cv	Flow coefficient		990	1450	2069	2600	3640	4630	5200	7850

NOTE: 1. As standard, valves are supplied with bevel gear operator, as request can be supplied with impact handwheel.



Class 4500 “Y” pattern globe & stop check Pressure Seal valves



Detail front view of “Y” pattern globe & stop check pressure seal valve

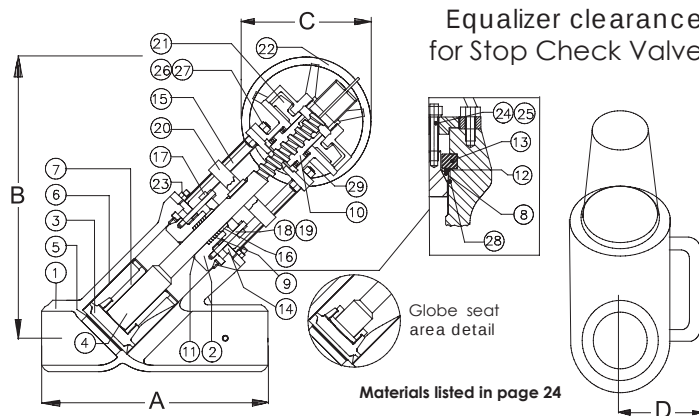


Fig. No. **BP45BY** Globe, Butt Weld Ends
Fig. No. **SP45BY** Stop-check, Butt Weld Ends

Dim	Valve size		4	6	8	10
A	End to End BW	in	28.00	31.00	31.00	39.75
		mm	711	787	787	1010
B	Center to top	in	30	38	50	55
		mm	735	931	1225	1348
C	Handwheel	in	24	30	36	36
		mm	600	735	914	914
D	Equalizer clearance	in	9.75	10.6	14.5	18.5
		mm	248	270	368	470
	Weight weld ends	lbs	630	1100	2510	4020
		kg	284	495	1130	1809
Cv	Flow coefficient		135	300	680	1100

NOTE: 1. As standard, valves are supplied with bevel gear operator, as request can be supplied with impact handwheel.

Features of Pressure Seal tilting disc check valves



Tilting disc check Characteristics

Piping equipment can be damaged by backflows. That is the reason for having a fast closure check valve. The damped check valves allow certain back flow during the controlled travel that many times can not be tolerated. The near to center pivot position reduce the travel to close, reducing the reverse flow velocity (slam velocity) more than ten times of that encountered in common swing check valves. Neither external counterweight is needed nor dashpot to prevent slamming.

•Seal Gasket

Load Ring with stand the pressure thrust of cap load; backing ring distributes pressure uniformly to load Ring; metallic silver plated seal gasket provides tight closure.

•Disc

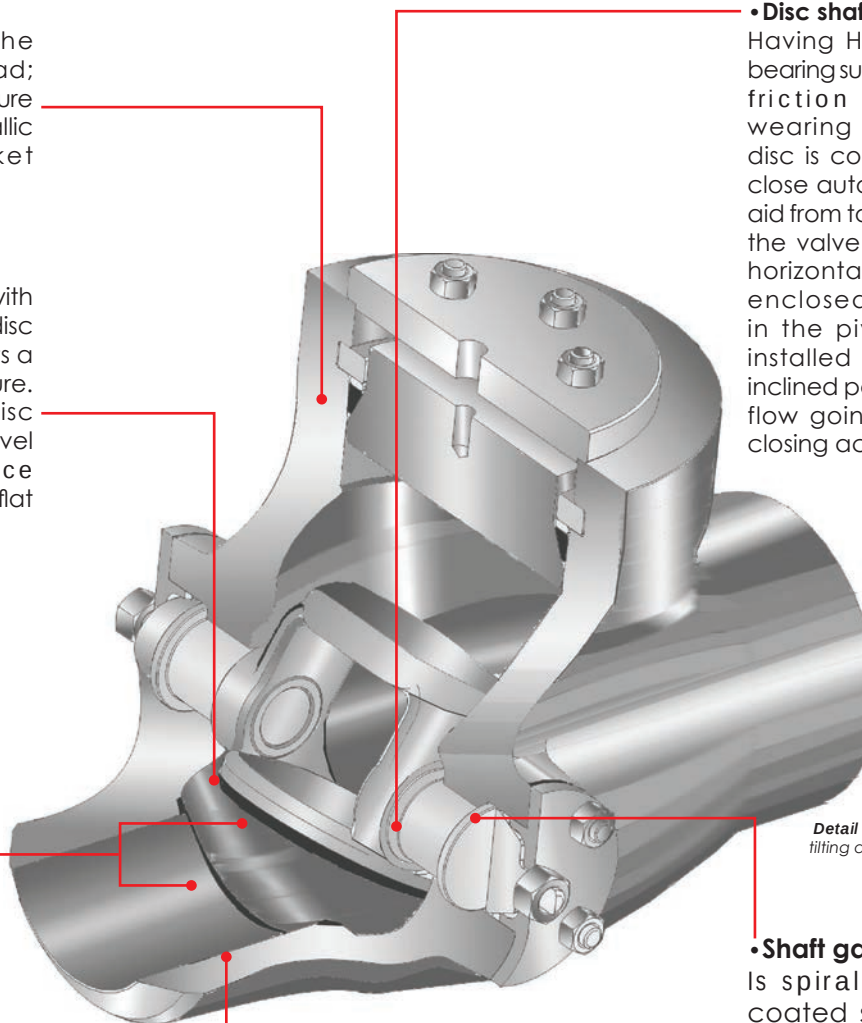
Double domed plate disc with proper impinging angle for disc stability. The back plate acts a counterweight for fast closure. The pivots are near to disc center reducing closure travel time. Conic seats produce better seal than common flat seats in swing check valves.

•Seats

Integral hard faced overlay (CoCrA) on disc and seats.

•Disc shafts

Having Hastelloy® overlay bearing surfaces for minimum friction and maximum wearing resistance. The disc is counterweighted to close automatically without aid from torsion springs when the valve is in a vertical or horizontal position. Totally enclosed torsion springs in the pivot pins can be installed when valve is in inclined position with normal flow going down, to help closing action.



Detail of pressure seal tilting disc check valve

•Shaft gasket

Is spiral wound, silver coated steel, or flexible graphite.

•Body

Straight thru construction for higher CV.

Note:

Normal Swing Check valve configuration also available.



Pressure Seal tilting disc check valves materials

Xanik® Pressure Seal valves can be supplied with the full variety of trims and body/cap materials available to suit your specific service.

The materials listed are the more popular for steam and high temperature services.

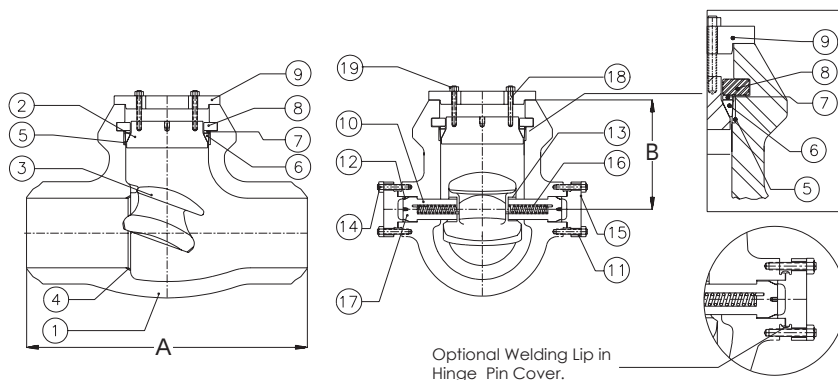
Other alloys are also available.

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	316 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A217 Gr. WC9	ASTM A217 Gr. C12 A	ASTM A351 Gr. CF8M
2	Cap	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6 or ASTM A182 - F11	ASTM A217 Gr. WC90R ASTM A182 - F22	ASTM A217 Gr. C12A or ASTM A182 - F91	ASTM A351 Gr. CF8M
3	Disc	ASTM A216 Gr. WCB w/Co-Cr-W Overlay	ASTM A217 Gr. WC6 w/Co-Cr-W Overlay	ASTM A217 Gr. WC9 w/Co-Cr-W Overlay	ASTM A-351 Gr.CF8M w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M w/Co-Cr-W Overlay
4	Integral Seat Ring	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay
5	Body Inlay	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel
6	Gasket	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	ASTM A182 Gr. F 316 Silver plated ¹
7	Thrust Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
8	Segment Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
9	Bonnet Retainer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
10	Hinge Pin	ASTM A276 Type 316	ASTM A 276 Type 316	ASTM A276 Type 316	ASTM A276 Type 316	ASTM A276 Type 316
11	Hinge Pin Cover	ASTM A515- Gr. 70	ASTM A276 Type 410	ASTM A276 Type 410	ASTM A276 Type 410	ASTM A276 Type 316
12	Hinge Pin Gasket	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	ASTM A276 Type 316 Silver plated ¹
13	Pin Bushing	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C
14	Cover Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16
15	Cover Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H
16	Torsion Spring (2)	Inconel® X-750	Inconel® X-750	Inconel® X-750	Inconel® X-750	Inconel® X-750
17	Hinge Pin Cap	ASTM A276 Type 316	ASTM A276 Type 316	ASTM A276 Type 316	ASTM A 276 Type 316	ASTM A276 Type 316
18	Cap Studs	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B8Cl.2
19	Cap Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 7	ASTM A194 Gr. 8

1. Graphite pressure seal gaskets can also be provided as a customer request. (4 in. and smaller use Spiral Wound Gasket SS 316 Graphite filled)

2. Hinge Pin Torsion Springs required in size 6 and larger valves only.

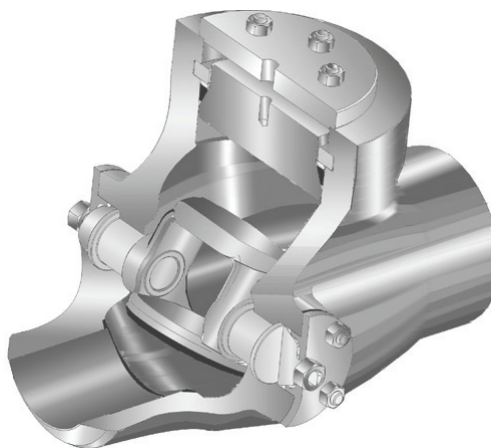
Class 600 Pressure Seal tilting disc check valves



Materials listed in page 31

Fig. No. **TP06B** Tilting Disc Check, Butt Weld Ends
Fig. No. **TP06R** Tilting Disc Check, Flanged Raised Face
Fig. No. **TP06J** Tilting Disc Check, Flanged, Ring Joint

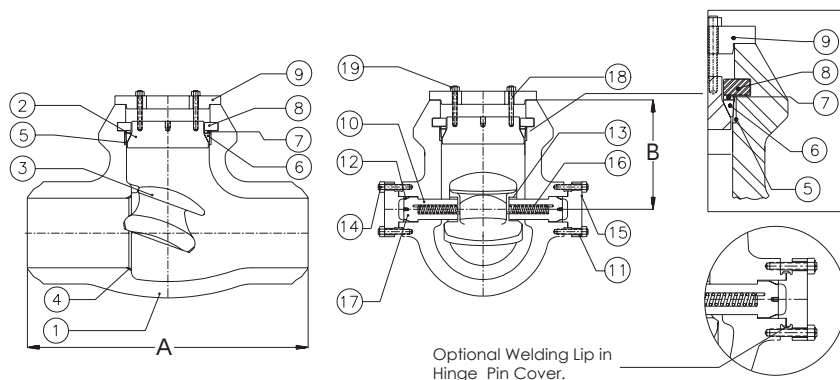
Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to end BW	in	8.50	8.50	10.00	12.00	18.00	23.00	28.00	32.00	35.00	39.00	43.00	47.00	55.00
		mm	216	216	254	305	457	584	711	813	889	991	1092	1194	1397
A	Face to face RF	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
		mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
A	Face to face RTJ	in	11.63	13.13	14.13	17.13	22.13	26.13	31.13	33.13	35.13	39.13	43.13	47.25	55.38
		mm	295	333	359	435	562	664	791	841	892	994	1096	1200	1407
B	Center to top	in	6.5	8.5	8.5	10.5	14.7	16.6	19.6	21.9	26.3	26.3	27.4	28.5	30
		mm	165	216	216	267	373	422	498	556	668	668	696	724	762
	Weight weld ends	lbs	108	108	128	136	232	487	781	1050	1417	1880	2200	3500	6600
		kg	49	49	58	62	105	221	354	476	643	853	998	1587	2993
	Weight flanged ends	lbs	137	175	181	236	479	745	1211	1530	1879	2950	3471	5200	7700
		kg	62	79	82	107	217	338	549	694	852	1338	1574	2358	3492
Cv	Flow coefficient		113	181	264	482	1079	1906	2973	4166	5045	6692	8455	9608	14177



Detail of pressure seal
tilting disc check valve



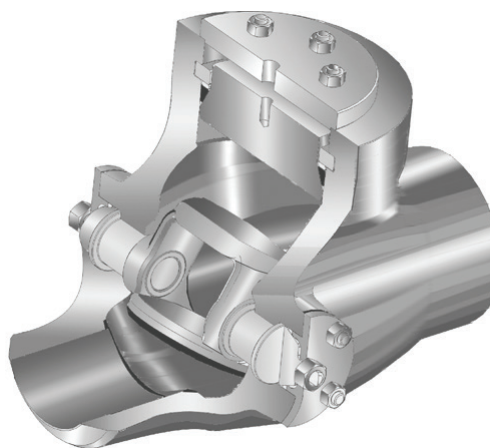
Class 900 Pressure Seal tilting disc check valves



Materials listed in page 31

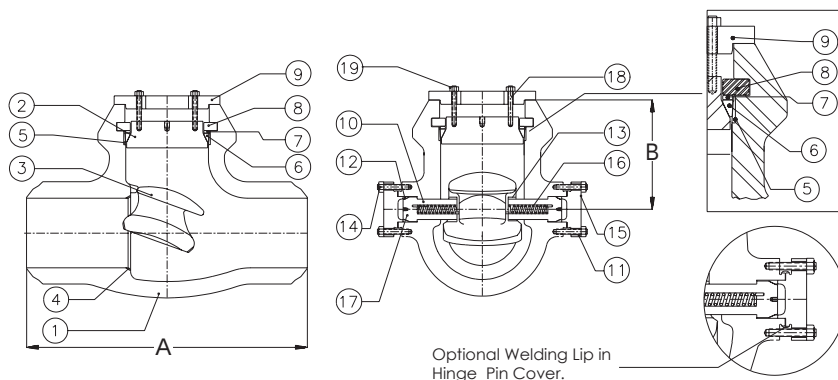
Fig. No. **TP09B** Tilting Disc Check, Butt Weld Ends
Fig. No. **TP09R** Tilting Disc Check, Flanged Raised Face
Fig. No. **TP09J** Tilting Disc Check, Flanged, Ring Joint

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to end BW	in	10.00	10.00	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00	48.00	52.00	61.00
		mm	254	254	305	356	508	660	787	914	991	1092	1219	1320	1549
A	Face to face RF	in	15.00	15.00	15.00	18.00	24.00	29.00	33.00	38.00	40.5	44.50	48.00	52.00	61.00
		mm	381	381	381	457	609	736	838	965	1028	1130	1219	1320	1549
A	Face to face RTJ	in	15.13	15.13	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.50	52.50	1568
		mm	384	384	384	460	612	739	841	968	1039	1140	1232	1333	1407
B	Center to top	in	6.5	8.5	8.5	10.5	14.7	16.6	19.6	21.9	26.3	26.3	27.4	28.5	30
		mm	165	216	216	267	373	422	498	556	668	668	696	724	762
	Weight weld ends	lbs	108	108	128	150	535	625	925	1420	1510	3000	3975	4510	7195
		kg	49	49	58	68	243	284	416	649	680	1361	1803	2030	3264
	Weight flanged ends	lbs	173	173	193	250	755	995	1455	2160	2610	4300	5785	6805	11395
		kg	79	79	88	114	343	452	661	982	1186	1955	2630	3093	5180
Cv	Flow coefficient		113	181	233	435	988	1719	2404	3432	4190	5533	7071	8805	11140



Detail of pressure seal
tilting disc check valve

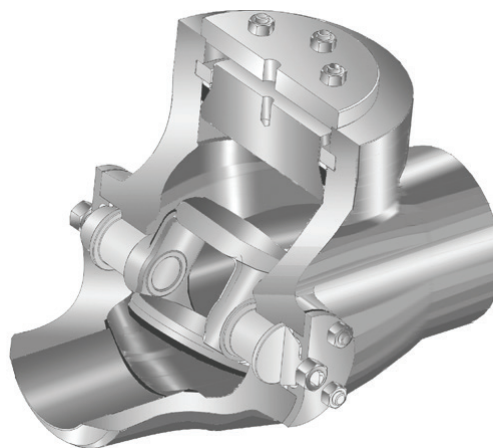
Class 1500 Pressure Seal tilting disc check valves



Materials listed in page 31

Fig. No. **TP15B** Tilting Disc Check, Butt Weld Ends
Fig. No. **TP15R** Tilting Disc Check, Flanged Raised Face
Fig. No. **TP15J** Tilting Disc Check, Flanged, Ring Joint

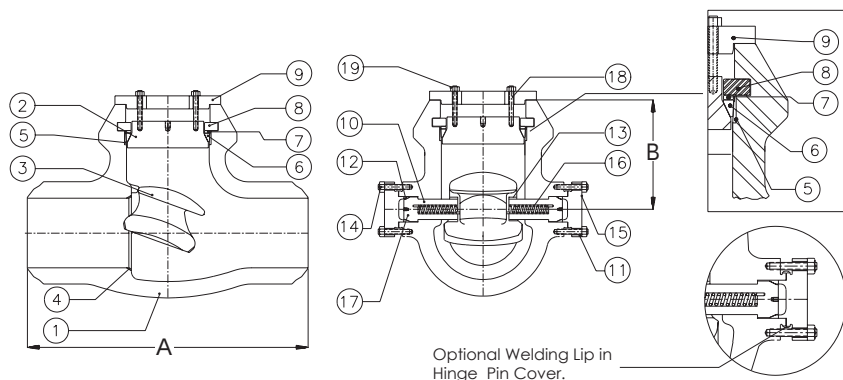
Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to end BW	in	12	12	12	16	22	28	34	39	42	47	52	56	58
		mm	254	254	304	406	558	711	863	990	1066	1193	1320	1422	1473
A	Face to face RF	in	18.5	18.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	65.5	76.5
		mm	469	469	469	546	704	831	990	1130	1257	1384	1536	1663	1943
A	Face to face RTJ	in	18.63	18.63	18.63	21.63	28	33.13	39.38	45.13	50.25	55.38	61.38	66.38	77.63
		mm	473	473	473	549	711	841	1000	1146	1276	1406	1559	1686	1972
B	Center to top	in	7.5	7.5	7.5	9.25	9.25	11	13	16	16	19	19	23	36
		mm	196	196	196	235	235	279	330	406	406	482	482	584	914
	Weight weld ends	lbs	120	120	120	120	535	625	960	1520	1550	3280	3320	4600	7195
		kg	54	54	54	54	243	284	432	684	698	1476	1494	2070	3264
	Weight flanged ends	lbs	215	215	215	260	855	1160	1840	2820	3216	6140	6650	9100	1365
		kg	98	98	98	118	389	527	836	1282	1462	2791	3023	4136	6075
Cv	Flow coefficient		113	181	233	435	988	1719	2404	3432	4190	5533	7071	8805	11140



Detail of pressure seal
tilting disc check valve



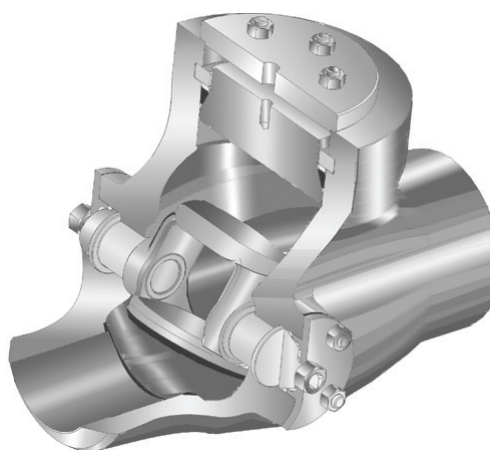
Class 2500 Pressure Seal tilting disc check valves



Materials listed in page 31

Fig. No. TP25B Tilting Disc Check, Butt Weld Ends

Dim	Valve size		2	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to end BW	in	13	13	14.5	18	24	30	36	41	44	48	53	57	66
		mm	330	330	368	457	610	762	914	1041	1117	1219	1346	1447	1676
B	Center to top	in	8	8	8	12	13	16	18	21	23	26	28	31	36
		mm	203	203	203	304	330	406	457	533	584	660	711	787	914
	Weight weld ends	lbs	120	120	120	120	435	800	1144	2250	3200	3200	5580	5690	13200
		kg	54	54	54	54	196	360	515	1013	1440	1440	2511	2561	5940
Cv	Flow coefficient		113	139	139	232	557	988	1602	2299	2816	3267	4190	5130	7546



Detail of pressure seal
tilting disc check valve

Features of “Y” pattern Pressure Seal lift check valves

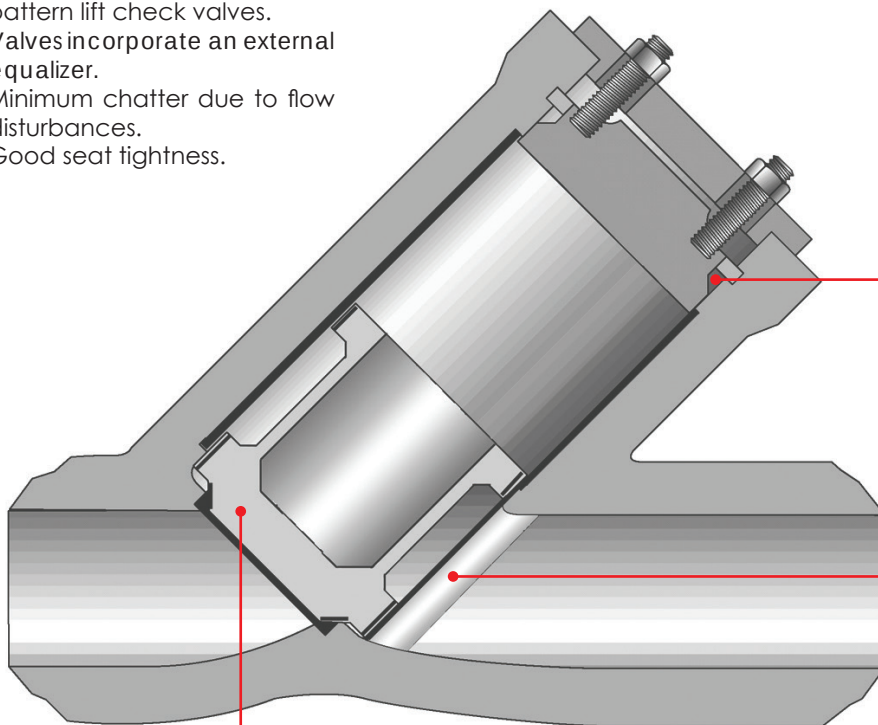


“Y” Pattern Lift check valves have the following design features:

- High Cv in comparison with “T” pattern Lift Check valves Boiler outlet stop & non-return (multiple boilers)
- Equalizers for full lift at lower flows
- Body guided disc-piston assemblies for seat alignment and stable operation
- Integral Stellite® seating surfaces for long life and tight sealing
- Body with streamlined flow shapes for higher Cv
- Main Steam Stop Auxiliary Equipment

“Y” Pattern body

- Very low pressure drop in “Y” pattern lift check valves.
- Valves incorporate an external equalizer.
- Minimum chatter due to flow disturbances.
- Good seat tightness.



Detail of “Y” pattern pressure seal lift check valve

• Seal Gasket

Load Ring with stand the pressure thrust of cap load; backing ring distributes pressure uniformly to load Ring; graphite or metallic silver plated seal gasket provides tight closure.

• Center rib

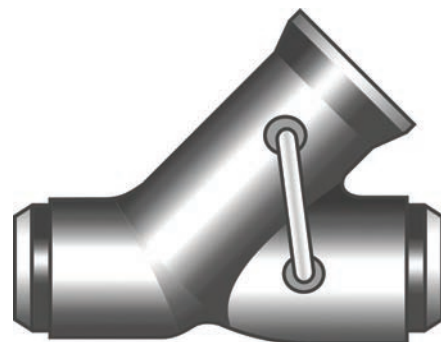
Stream lined, with Stellite® hard faced overlay, guides and supports disc.

• Disc

Fully guided, with Stellite® guiding surfaces. Integral hard faced overlay (CoCrA) on Disc and seats.

“Y” Lift Check Valves

Are provided with an equalizing pipe connecting the area above the disc to the valve outlet. The equalizing pipe eliminates any pressure build up over the disc allowing the higher pressure below to fully open the disc. This full disc lift reduces pressure drop and the required minimum flow to fully open the valve.



Detail of “Y” pattern pressure seal lift check valve



"Y" pattern Pressure Seal Lift Check valve materials

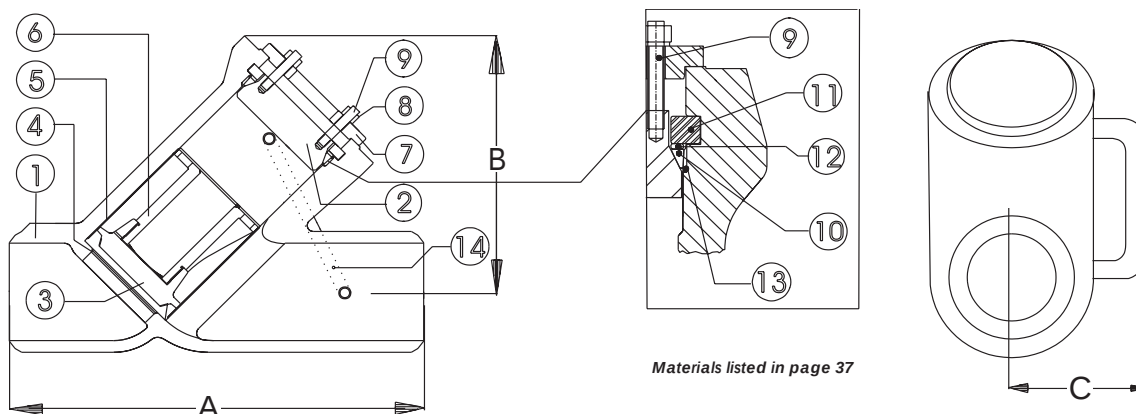
Xanik® Pressure Seal valves can be supplied with the full variety of trims and body/cap materials available to suit your specific service.

***The materials listed are the more popular for steam and high temperature services.
Other alloys are also available.***

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	316 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A217 Gr. WC9	ASTM A-217 Gr.C12 A	ASTM A-351 Gr. CF8M
2	Cap	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6 or ASTM A182-F11	ASTM A217 Gr. WC9 or ASTM A182-F22	ASTM A-217 Gr.C12 A or ASTM A182-F91	ASTM A351 Gr. CF8M or ASTM A182-F316
3	Disc	ASTM A216 Gr. WCB w/Co-Cr-W Overlay	ASTM A-217 Gr. WC6 or ASTM A182-F11 w/Co-Cr-W Overlay	ASTM A217 Gr. WC9 or ASTM A182-F22 w/Co-Cr-W Overlay	ASTM A-351 Gr.CF8M or ASTM A182-F316 w/Co-Cr-W Overlay	ASTM A-351 Gr. CF8M or ASTM A182-F316 w/Co-Cr-W Overlay
4	Integral Seat Ring	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay	Co-Cr-W Overlay
5	Hard Faced Guide Ribs	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C	Hastelloy® C
6	Disc Guide	ASTM A105	ASTM A182-F11	ASTM A182-F22	ASTM A182-F91	ASTM A 276 Gr.316
7	Cap Retainer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
8	Cap Nut	ASTM A194-2H	ASTM A194-7	ASTM A194-7	ASTM A194-7	ASTM A 194-8
9	Cap Bolt	ASTM A193-B7	ASTM A193-B16	ASTM A193-B16	ASTM A193-B16	ASTM A193-B8Cl.2
10	Gasket	Mild Steel (100BNH Max.) Silver coated ¹	Mild Steel (100BNH Max.) Silver coated ¹	Mild Steel (100BNH Max.) Silver coated ¹	Mild Steel (100BNH Max.) Silver coated ¹	SS 316 Silver coated ¹
11	Segmented Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
12	Thrust Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
13	Body Inlay	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	347 Stainless Steel
14	Equalizer Pipe	ASTM A672 Gr. B70	ASTM A335 Gr. P11	ASTM A335 Gr. P22	ASTM A335 Gr. P91	ASTM A312 Gr. TP 347

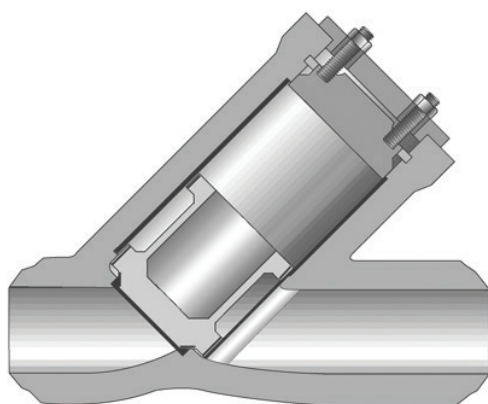
¹. Graphite pressure seal gaskets can also be provided as a customer request.

Class 600 "Y" pattern Pressure Seal Lift Check valves



Materials listed in page 37

Fig. No. LP06BY "Y" Pattern Stop-check, Butt Weld Ends
Fig. No. LP06RY "Y" Pattern Stop-check, Flanged Raised Face
Fig. No. LP06JY "Y" Pattern Stop-check, Flanged, Ring Joint



Detail of "Y" pattern pressure seal lift check valve

Dim	Valve size	6	8	10	12	14	16	18	20	24
A	End to End BW	in	20.00	23.00	28.00	32.00	36.25	41.00	58.00	59.50
		mm	508	584	711	813	921	1041	1473	1511
A	Face to Face RF	in	29	33	39	43	43	52	*	*
		mm	737	838	991	1092	1092	1321	*	*
B	Center to top	in	14	16.5	20	23	23	32	45	51
		mm	356	419	508	585	585	813	1113	1308
C	Handwheel	in	10	12	13	14	16	22	24	28
		mm	254	305	330	356	406	559	600	711
	Weight weld ends	lbs	240	450	840	1450	1450	3300	3300	3920
		kg	109	209	381	658	658	1497	1497	1782
	Weight flanged ends	lbs	400	700	1200	1900	2150	4300	*	*
		kg	181	318	544	862	975	1950	*	*
Cv	Flow coefficient		890	1567	2439	3592	4346	5757	7265	8954

Venturi "Y" pattern Stop Check valves

Fig. No. LV06BY
"Y" Pattern Stop-check, Butt Weld Ends

Dim	Valve size	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	23.00	28.00	32.00	36.25	41.00	58.00	59.50
		mm	584	711	813	921	1041	1473	1511
B	Center to top	in	16.5	20	23	23	32	45	51
		mm	419	508	585	585	813	1113	1308
C	Handwheel	in	12	13	14	16	22	24	28
		mm	305	330	356	406	559	600	711
	Weight	lbs	695	1280	1750	1750	3380	3440	4350
		kg	316	582	795	795	1534	1560	1977
Cv	Flow coefficient		1500	2300	3400	4200	5600	7000	8700

NOTE: * Information supplied upon request.



Class 900 "Y" pattern Pressure Seal Lift Check valves

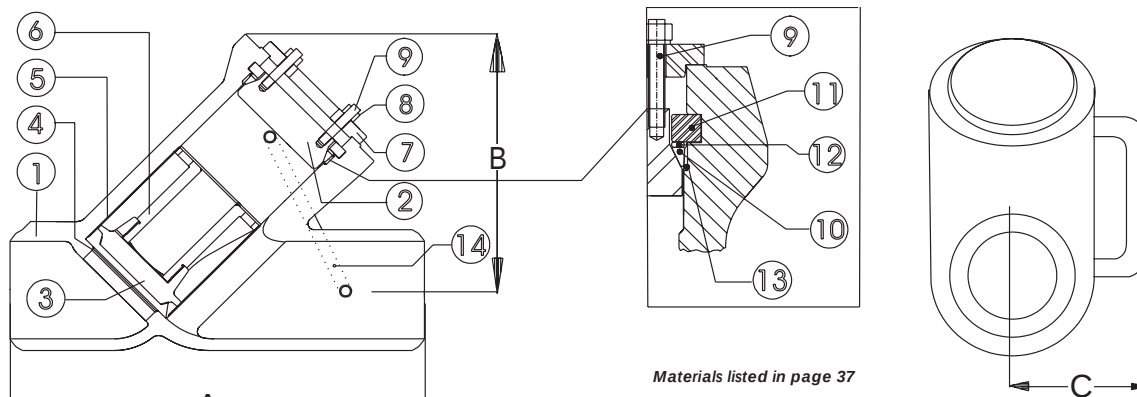
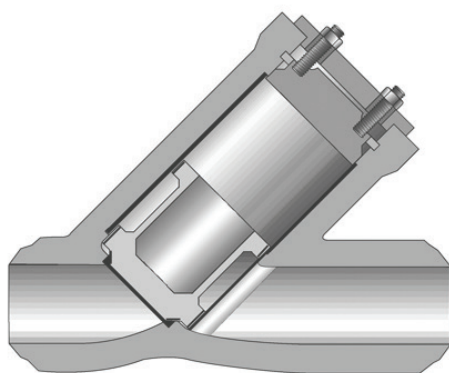


Fig. No. LP09BY "Y" Pattern Stop-check, Butt Weld Ends
Fig. No. LP09RY "Y" Pattern Stop-check, Flanged Raised Face
Fig. No. LP09JY "Y" Pattern Stop-check, Flanged, Ring Joint



Detail of "Y" pattern pressure seal lift check valve

Dim	Valve size	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.5	14.5	16.00	20.00	26.00	31.00	36.00	43.00	54.00	55.00	59.5
		mm	368	368	406	508	660	787	914	1042	1372	1473	1511
A	Face to Face RF	in	17	18.5	22	30	38	44	50	51	58	*	*
		mm	432	470	559	762	965	1118	1270	1295	1473	*	*
B	Center to top	in	12	12	12.5	14	18	22	26	26	33	45	51
		mm	300	300	313	356	464	552	647	647	838	1143	1308
C	Handwheel	in	7.5	7.5	7.63	10	12.5	13	15	16	25.75	28	31.75
		mm	190	190	194	254	318	330	381	406	654	711	806
	Weight weld ends	lbs	140	140	152	300	710	1300	2050	2050	3900	4210.5	5331
		kg	64	64	69	136	323	591	932	932	1773	1914	2423
	Weight flanged ends	lbs	210	210	232	520	1110	1850	2800	3200	5300	*	*
		kg	95	95	105	236	505	841	1273	1455	2409	*	*
Cv	Flow coefficient		130	190	360	815	1415	2250	3210	3916	5166	6596	11981

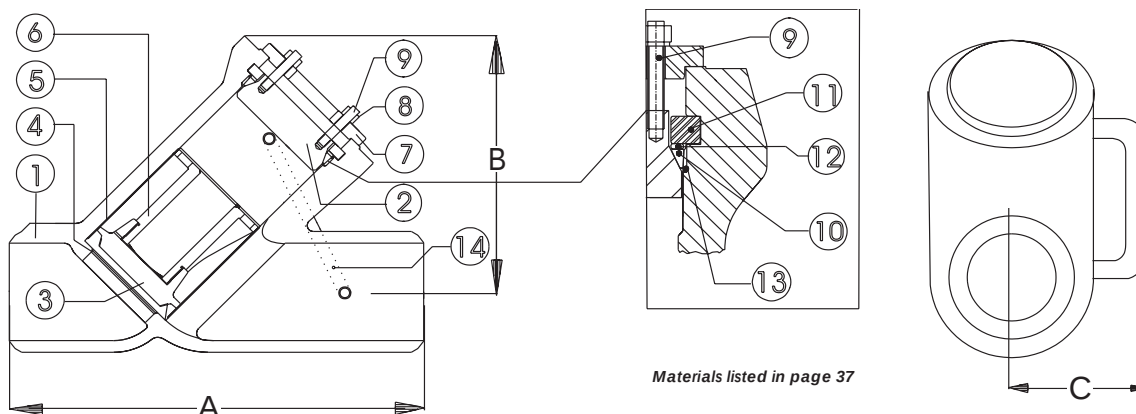
Venturi "Y" pattern Stop Check valves

Fig. No. LV09BY
"Y" Pattern Stop-check, Butt Weld Ends

Dim	Valve size	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	26.00	31.00	36.00	43.00	54.00	58.00	59.50
		mm	660	787	914	1042	1372	1473	1511
B	Center to top	in	18	22	26	26	33	45	51
		mm	464	552	647	647	838	1143	1308
C	Handwheel	in	12.5	13	15	16	25.75	28	31.75
		mm	318	330	381	406	654	711	806
	Weight	lbs	760	1391	2194	2194	4173	4505	5704
		kg	346	632	997	997	1897	2048	2593
Cv	Flow coefficient		1300	2000	3000	3600	4900	6200	7900

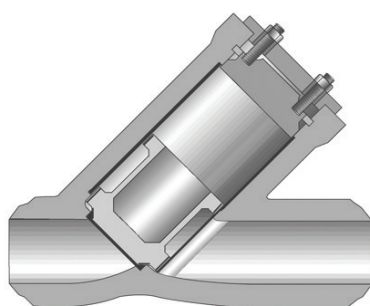
NOTE: * Information supplied upon request.

Class 1500 "Y" pattern Pressure Seal Lift Check valves



Materials listed in page 37

Fig. No. LP15BY "Y" Pattern Stop-check, Butt Weld Ends



Detail of "Y" pattern pressure seal lift check valve

Dim	Valve size	2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.50	14.50	16.00	27.75	30.00	36.25	43.00	54.00	58.00	55.00	59.50
		mm	368	368	406	705	762	921	1091	1372	1473	1397	1511
B	Center to top	in	13	13	13	16	21	26	29	34	34	43	43
		mm	330	330	330	406	527	648	743	864	864	1092	1092
C	Handwheel	in	6.75	7.75	7.75	10	12	13	14	16	22	24	31.75
		mm	171	197	197	254	305	330	356	406	559	600	806
	Weight weld ends	lbs	150	150	168	480	900	1640	2460	3239	4920	6150	8200
		kg	68	68	76	218	408	744	1115	1472	2232	2790	3720
Cv	Flow coefficient		130	176	313	710	1414	2250	3210	3880	5128	5660	7200

Venturi "Y" pattern Stop Check valves

Fig. No. LV15BY
"Y" Pattern Stop-check, Butt Weld Ends

Dim	Valve size	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	30.00	36.25	43.00	43.00	54.00	58.00	59.50
		mm	762	921	1091	1091	1372	1473	1511
B	Center to top	in	21	26	29	29	34	34	43
		mm	527	648	743	743	864	864	1092
C	Handwheel	in	12	13	14	16	22	24	32
		mm	305	330	356	406	559	600	806
	Weight	lbs	963	1755	2632	3466	5264	6581	11933
		kg	437	796	1193	1575	2388	2985	5413
Cv	Flow coefficient		1300	2000	3000	3600	4900	5100	9400

NOTE: * Information supplied upon request.



Class 2500 "Y" pattern Pressure Seal Lift Check valves

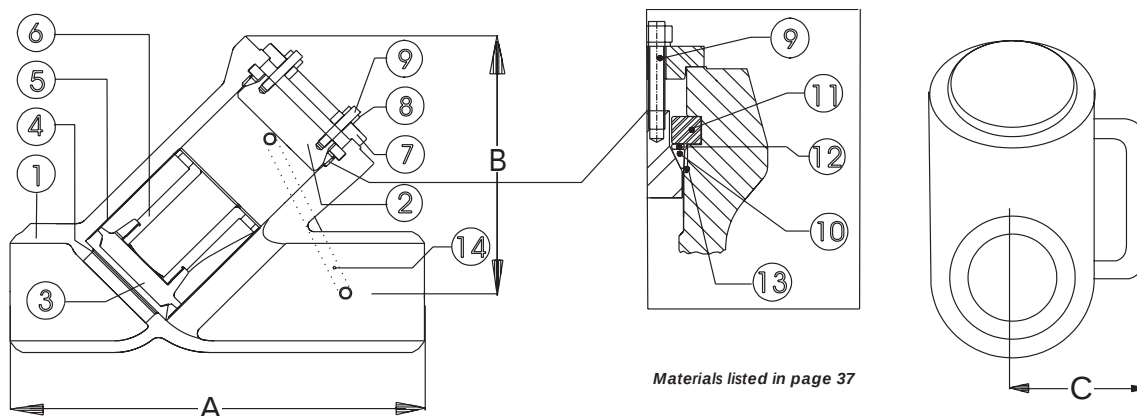
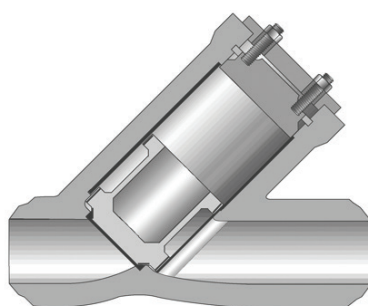


Fig. No. LP25BY "Y" Pattern Stop-check, Butt Weld Ends



Detail of "Y" pattern pressure seal lift check valve

Dim	Valve size		2.5	3	4	6	8	10	12	14	16	18	20	24
A	End to End BW	in	14.5	14.5	18.00	24.00	30.00	36.00	41.00	48.75	48.75	58.00	58.00	68.00
		mm	368	368	457	610	762	914	1041	1238	1238	1473	1473	1727
B	Center to top	in	13	13	13	14.5	19	22	27	29	29	37	37	54
		mm	330	330	330	362	476	565	679	724	724	927	927	1372
C	Equalizer clearance	in	7.25	8	8.5	11	12	15.75	17.5	20.25	22	24	28	32
		mm	184	203	216	279	305	400	445	514	559	600	711	813
	Weight weld ends	lbs	151	151	167	510	950	1950	2710	4280	4300	8100	8190	12620
		kg	69	69	76	230	428	878	1220	1926	1935	3645	3686	5679
Cv	Flow coefficient		104	152	252	575	1019	1652	2368	2901	3842	4929	5547	8158

Venturi "Y" pattern Stop Check valves

Fig. No. LV25BY
"Y" Pattern Stop-check, Butt Weld Ends

Dim	Valve size	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16	18 x 16 x 18	20 x 18 x 20	22 x 20 x 22	26 x 24 x 26
A	End to End BW	in	30.00	36.00	41.00	48.75	48.75	58.00	68.00
		mm	762	914	1041	1238	1238	1473	1727
B	Center to top	in	19	22	27	29	29	37	54
		mm	476	565	679	724	724	927	1372
C	Equalizer clearance	in	12	15.75	17.5	20.25	22	24	32
		mm	305	400	445	514	559	600	813
	Weight	lbs	1017	2087	2900	4580	4601	8667	13503
		kg	458	939	1305	2061	2071	3900	6077
Cv	Flow coefficient		990	1450	2069	2600	3640	4630	7850

NOTE: * Information supplied upon request.

Class 4500 "Y" pattern Pressure Seal Lift Check valves

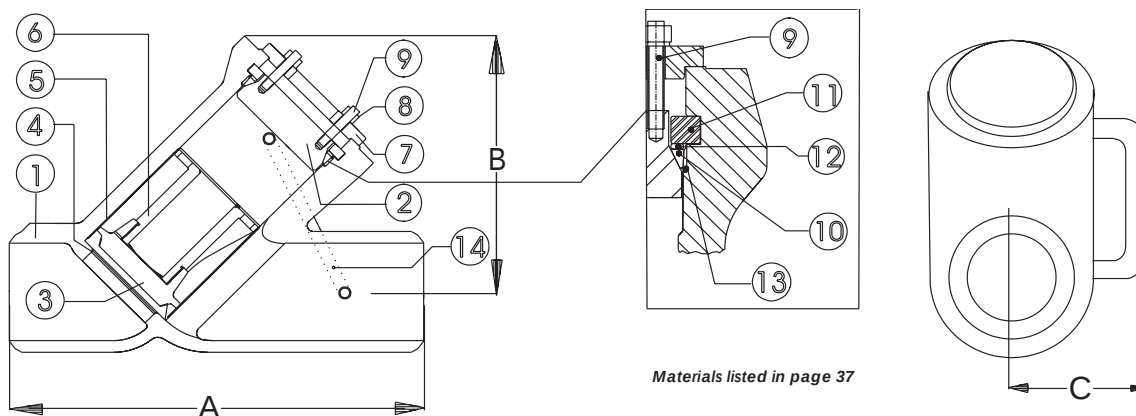
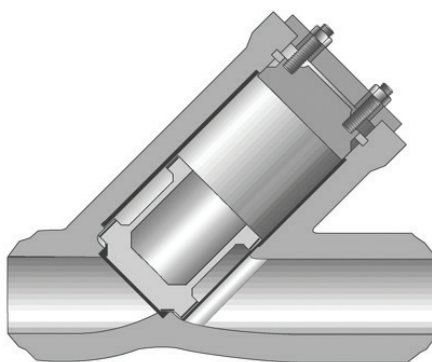


Fig. No. LP45BY "Y" Pattern Stop-check, Butt Weld Ends

Dim	Valve size		4	6	8	10
A	End to End BW	in	28.00	31.00	31.00	39.75
		mm	711	787	787	1010
B	Center to top	in	14	18	20	26
		mm	356	457	508	660
C	Equalizer clearance	in	9.75	10.6	14.5	18.5
		mm	248	270	368	470
	Weight weld ends	lbs	415	800	1500	2300
		kg	188	360	675	1035
Cv	Flow coefficient		135	300	680	1100



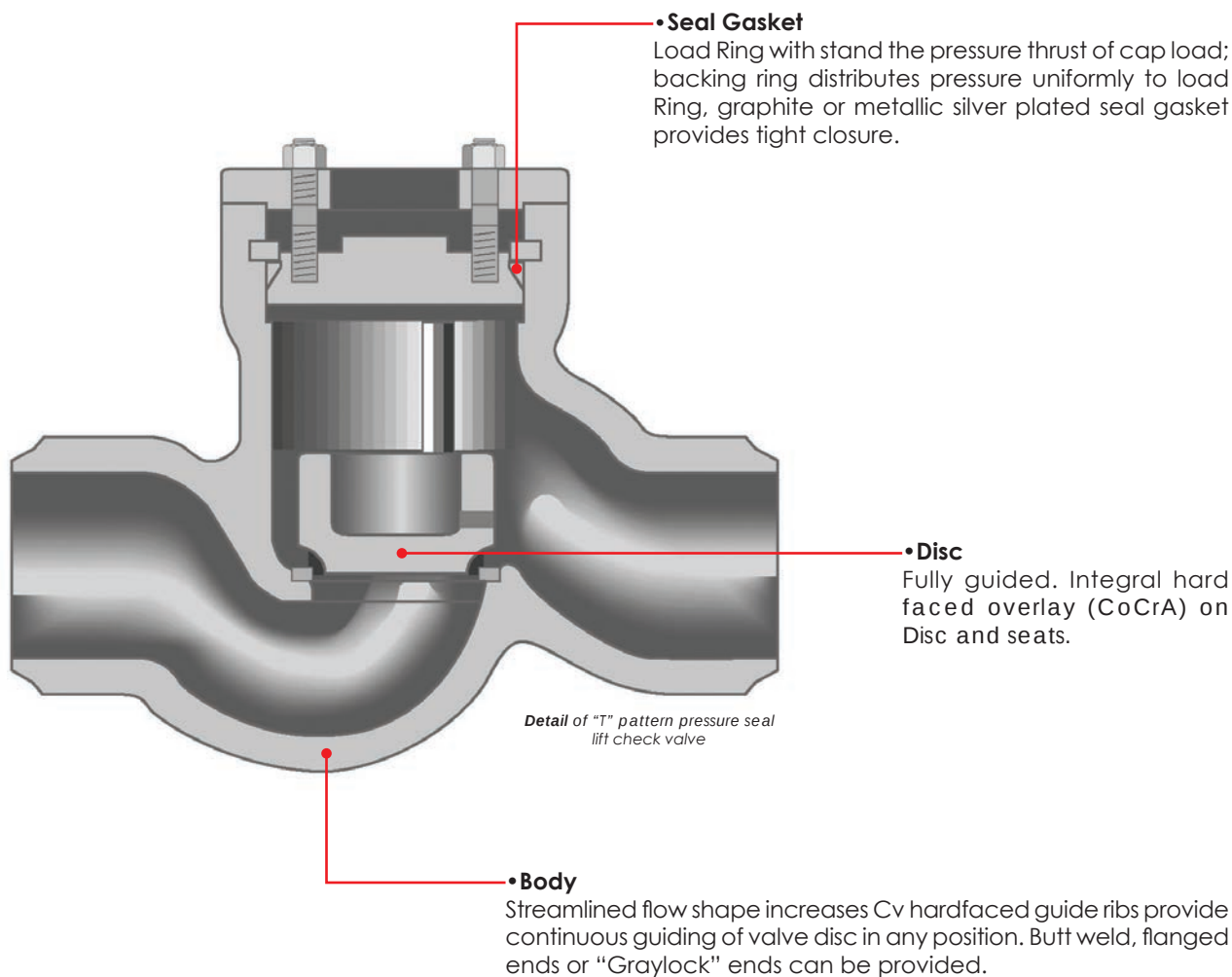
Detail of "Y" pattern pressure seal lift check valve



Features of “T” pattern Pressure Seal Lift Check valves

Lift check valves have the following design features:

- Body guided disc-piston assemblies for seat alignment and stable operation
- Integral Stellite® seating surfaces for long life and tight sealing
- Body with streamlined flow shapes for higher Cv
- Pressure drop similar to “T” pattern globe valves
- Minimum chatter due to flow disturbances
- Good seat tightness



"T" pattern Pressure Seal Lift Check valves materials



Xanik® Pressure Seal valves can be supplied with the full variety of trims and body/bonnet materials available to suit your specific service.

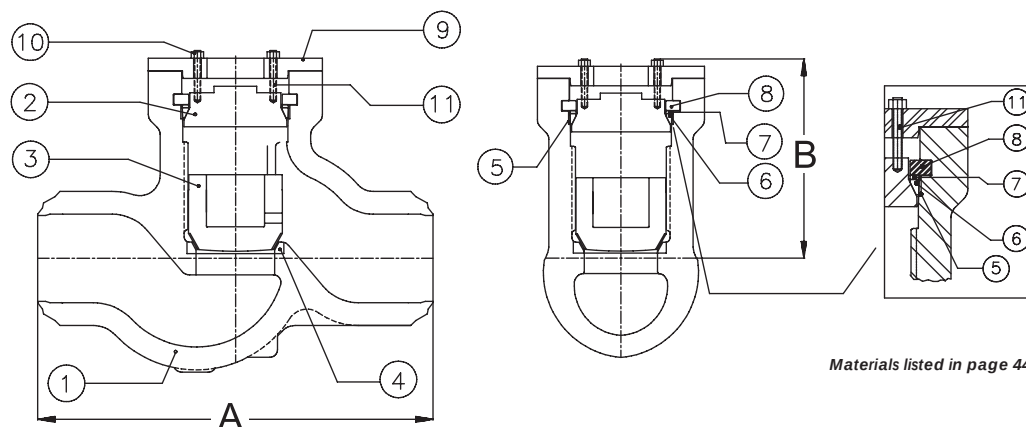
***The materials listed are the more popular for steam and high temperature services.
Other alloys are also available.***

No	Description	Carbon Steel	1 1/4 Chrome	2 1/4 Chrome	9Cr-1Mo-V	316 Stainless
1	Body	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A217 Gr. WC9	ASTM A217 Gr. C12 A	ASTM A-351 Gr. CF8M
2	Cap	ASTM A216 Gr. WCB or ASTM A105	ASTM A217 Gr. WC6 or ASTM A182-F11	ASTM A217 Gr. WC9 or ASTM A182-F22	ASTM A217 Gr. C12A or ASTM A182-F91	ASTM A351 Gr. CF8M or ASTM A182-F316
3	Disc	ASTM A216 Gr. WCB or ASTM A105 w/Co-Cr-W Overlay	ASTM A217 Gr. WC6 or ASTM A 182-F11 w/Co-Cr-W Overlay	ASTM A217 Gr. WC9 or ASTM A182-F22 w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M or ASTM A182-F316 w/Co-Cr-W Overlay	ASTM A-351 Gr.CF8M or ASTM A182-F316 w/Co-Cr-W Overlay
4	Seat Ring	ASTM A216 Gr. WCB or ASTM A515 Gr. 70 w/Co-Cr-W Overlay	ASTM A217 Gr. WC6 or ASTM A182-F11 w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M or ASTM A240 Gr. 316 w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M or ASTM A240 Gr. 316 w/Co-Cr-W Overlay	ASTM A351 Gr. CF8M or ASTM A240 Gr. 316 w/Co-Cr-W Overlay
5	Body Inlay	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel	309 Stainless Steel
6	Gasket	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	Mild Steel (100 HB) Silver plated ¹	ASTM A182 Gr. F 316 Silver plated ¹
7	Thrust Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
8	Segment Ring	AISI 4340	AISI 4340	AISI 4340	AISI 4340	AISI 4340
9	Bonnet Retainer	ASTM A515 Gr. 70	ASTM A515 Gr. 70	AISI 4140	AISI 4140	AISI 4140
10	Cap Stud Nut	ASTM A194 2H	ASTM A194 7	ASTM A194 7	ASTM A194 7	ASTM A194 8
11	Cap Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B16	ASTM A193 Gr. B8Cl.2

¹. Graphite pressure seal gaskets can also be provided as a customer request.

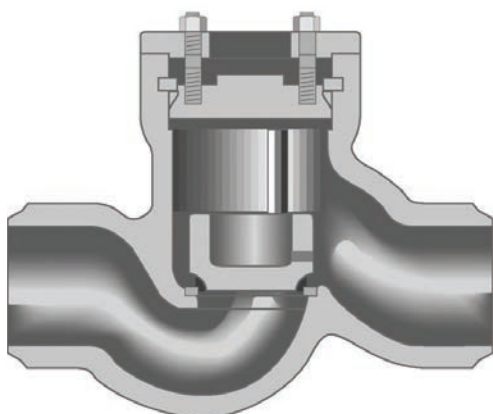


Class 600 "T" pattern Pressure Seal Lift Check valves



Materials listed in page 44

Fig. No. LP06B "T" Pattern Stop-check, Butt Weld Ends
Fig. No. LP06R "T" Pattern Stop-check, Flanged Raised Face
Fig. No. LP06J "T" Pattern Stop-check, Flanged, Ring Joint



Detail of "T" pattern pressure seal
lift check valve

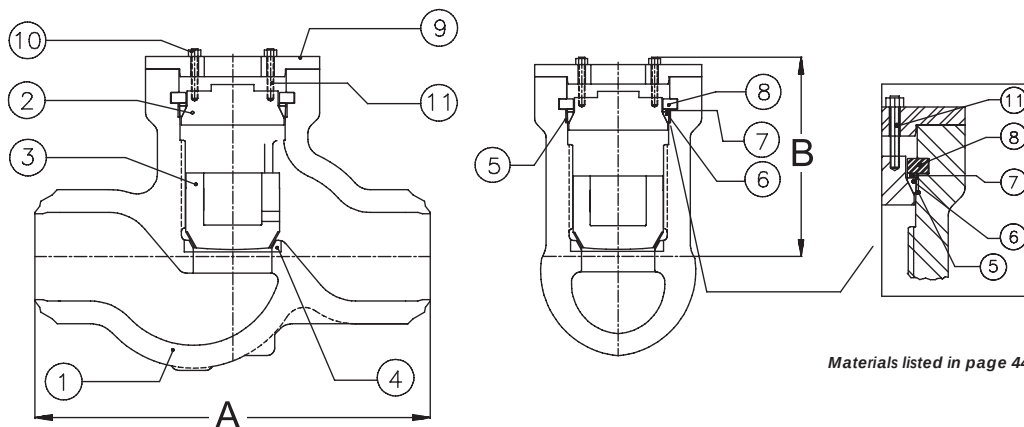
Dim	Valve size		2	2.5	3	4	6	8	10	12	14
A	End to End BW	in	10	10	10	12	18	26	28	33	35
		mm	254	254	254	305	457	660	711	838	889
A	Face to Face RF	in	11.50	13	14.00	17.00	22.00	26.00	31.00	33.00	35.00
		mm	292	356	356	432	559	736	838	965	1028
A	Face to Face RTJ	in	11.63	13.13	14.13	17.13	22.13	26.13	31.13	33.13	35.13
		mm	295	359	359	435	562	664	791	841	892
B	Center to top	in	6	6	6	7	12	15	17	21	24
		mm	152	152	152	184	292	381	425	533	603
	Weight weld ends	lbs	49	49	63	124	299	588	978	1517	1930
		kg	22	22	29	56	135	266	443	688	875
	Weight flanged ends	lbs	72	72	95	180	324	590	990	1490	1830
		kg	33	33	43	82	147	268	449	676	830
Cv	Flow coefficient		55	87	127	232	475	838	1305	1924	2329

Venturi "T" pattern Stop Check valves

Fig. No. LV06B
"T" Pattern Stop-check, Butt Weld Ends

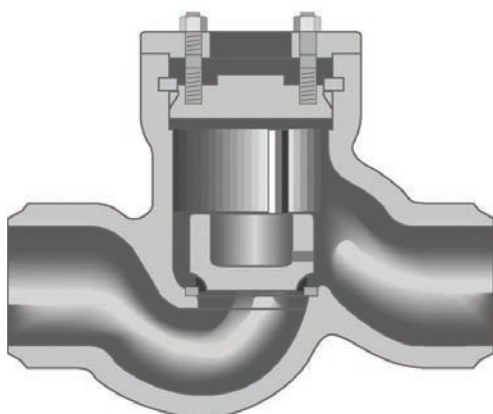
Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16
A	End to End BW	in	18	26	28	33	35
		mm	457	660	711	838	889
B	Center to top	in	12	15	17	21	24
		mm	292	381	425	533	603
	Weight weld ends	lbs	303	602	1003	1549	2076
		kg	137	373	455.7	02	941
Cv	Flow coefficient		460	800	1200	1800	2100

Class 900 "T" pattern Pressure Seal Lift Check valves



Materials listed in page 44

Fig. No. LP09B "T" Pattern Stop-check, Butt Weld Ends
Fig. No. LP09R "T" Pattern Stop-check, Flanged Raised Face
Fig. No. LP09J "T" Pattern Stop-check, Flanged, Ring Joint



Detail of "T" pattern pressure seal
lift check valve

Dim	Valve size		2	2.5	3	4	6	8	10	12	14
A	End to End BW	in	12	12	12	14	20	26	31	36	39
		mm	304	304	304	355	508	660	787	914	990
A	Face to Face RF	in	15	15	15	18	24	29	33	38	40.5
		mm	381	381	381	457	609	736	838	965	1028
A	Face to Face RTJ	in	15.13	15.13	15.13	18.13	24.13	29.13	33.13	38.13	40.88
		mm	384	384	384	460	612	739	841	968	1039
B	Center to top	in	6	6	6	7	12	15	17	21	24
		mm	152	152	152	184	292	381	425	533	603
	Weight weld ends	lbs	49	49	49	103	299	588	978	1517	2036
		kg	22	22	22	46	135	266	443	688	923
	Weight flanged ends	lbs	109	109	109	180	324	948	1425	2165	3082
		kg	49	49	49	82	147	430	646	982	1398
Cv	Flow coefficient		45	70	103	192	435	756	1204	1719	2099

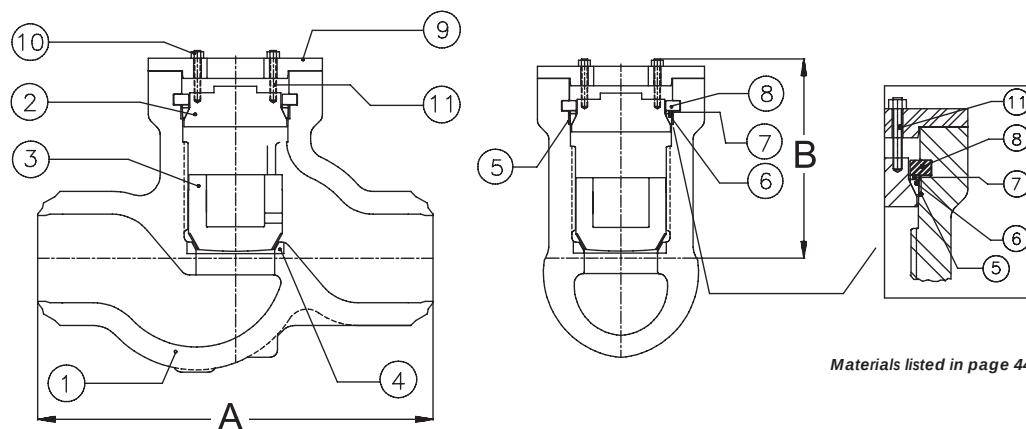
Venturi "T" pattern Stop Check valves

Fig. No. LV09B
"T" Pattern Stop-check, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14	16 x 14 x 16
A	End to End BW	in	24	29	33	38	40.5
		mm	609	736	838	965	1028
B	Center to top	in	12	15	17	21	24
		mm	292	381	425	533	603
	Weight weld ends	lbs	303	602	1003	1549	2076
		kg	137	373	455	702	941
Cv	Flow coefficient		400	700	1100	1600	1900

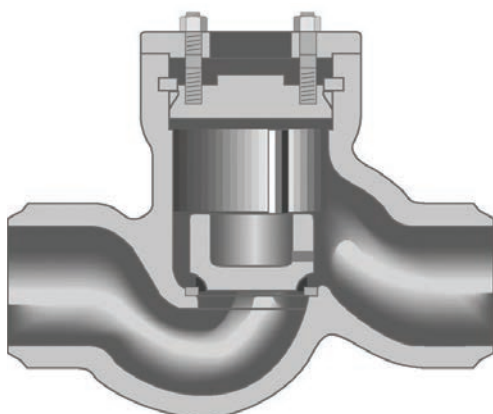


Class 1500 "T" pattern Pressure Seal Lift Check valves



Materials listed in page 44

Fig. No. **LP15B** "T" Pattern Stop-check, Butt Weld Ends
Fig. No. **LP15R** "T" Pattern Stop-check, Flanged Raised Face
Fig. No. **LP15J** "T" Pattern Stop-check, Flanged, Ring Joint



Detail of "T" pattern pressure seal lift check valve

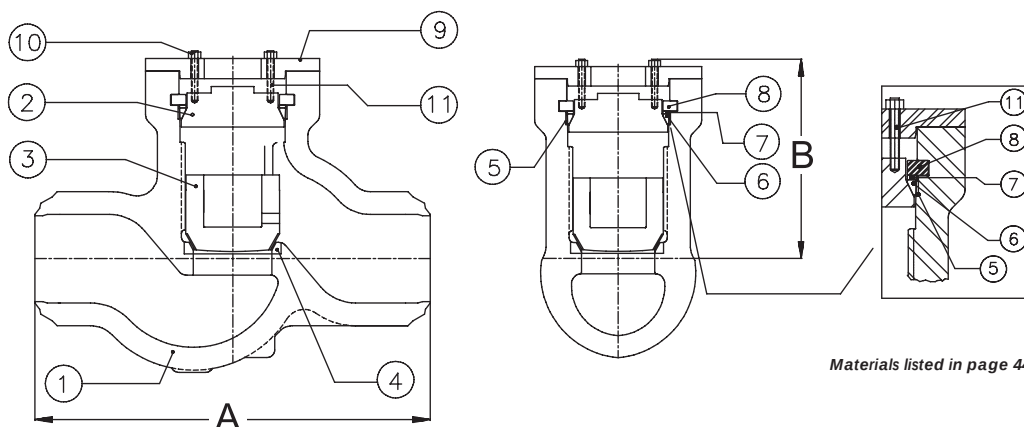
Dim	Valve size		2	2.5	3	4	6	8	10	12
A	End to End BW	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5
		mm	368	419	469	546	705	831	990	1130
A	Face to Face RF	in	16.5	16.5	18.5	21.5	27.75	32.75	39	44.5
		mm	419	419	470	546	705	832	991	1130
A	Face to Face RTJ	in	16.63	16.63	18.63	21.63	28	33.13	39.38	45.13
		mm	422	422	473	549	711	841	100	1146
B	End to top	in	6	6	7	8	12	16	19	21
		mm	152	152	177	203	311	400	488	533
	Weight weld ends	lbs	53	53	87	141	424	824	1414	2246
		kg	24	24	39	63	192	373	641	1018
	Weight flanged ends	lbs	113	113	167	268	724	1323	2229	3470
		kg	51	51	75	121	328	600	1011	1574
Cv	Flow coefficient		45	65	94	167	379	655	1042	1487

Venturi "T" pattern Stop Check valves

Fig. No. **LV15B**
"T" Pattern Stop-check, Butt Weld Ends

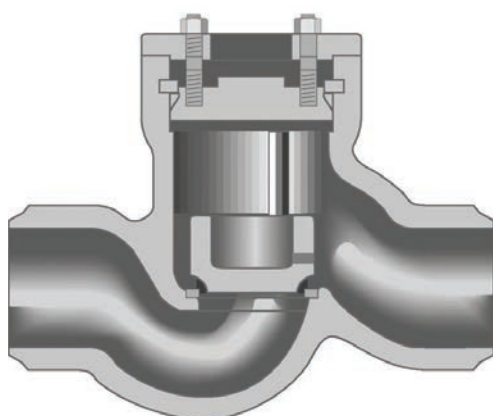
Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14
A	End to End BW	in	27.75	32.75	39	44.5
		mm	705	831	990	1130
B	Center to top	in	12	16	19	21
		mm	311	400	488	533
	Weight weld ends	lbs	430	840	1444	2282
		kg	195	381	855	1036
Cv	Flow coefficient		320	600	950	1200

Class 2500 "T" pattern Pressure Seal Lift Check valves



Materials listed in page 44

Fig. No. **LP25B** "T" Pattern Stop-check, Butt Weld Ends
Fig. No. **LP25R** "T" Pattern Stop-check, Flanged Raised Face
Fig. No. **LP25J** "T" Pattern Stop-check, Flanged, Ring Joint



Detail of "T" pattern pressure seal
lift check valve

Dim	Valve size		2	2.5	3	4	6	8	10	12
A	End to End BW	in	13	13	15	18	24	29	33	38
		mm	330	330	381	457	609	736	838	965
A	Face to Face RF	in	20	20	22.75	26.5	36	40.25	50	56
		mm	508	508	578	673	914	1022	1270	1422
A	Face to Face RTJ	in	20.25	20.25	23	26.88	36.5	40.88	50.88	56.88
		mm	514	514	584	683	927	1039	1293	1445
B	Center to top	in	7	7	8	10	13	17	20	22
		mm	171	171	196	241	323	425	508	552
	Weight weld ends	lbs	78	78	121	151	527	900	1700	2801
		kg	35	35	55	68	239	408	771	1270
	Weight flanged ends	lbs	173	173	298	416	1214	1937	3689	5901
		kg	78	78	135	189	550	878	1673	2676
Cv	Flow coefficient		27	45	62	102	246	435	705	1010

Venturi "T" pattern Stop Check valves

Fig. No. **LV25B**
"T" Pattern Stop-check, Butt Weld Ends

Dim	Valve size		8 x 6 x 8	10 x 8 x 10	12 x 10 x 12	14 x 12 x 14
A	End to End BW	in	36	43	49	64
		mm	914	1092	1244	1625
B	Center to top	in	13	17	20	22
		mm	323	425	508	552
	Weight weld ends	lbs	577	1035	1914	3061
		kg	261	469	868	1388
Cv	Flow coefficient		180	340	600	900



Accessories

Equalizing Devices

In double seated gate valves it is necessary to provide a means in design to prevent over pressurization due to thermal expansion of trapped fluids inside the valve body. This expansion can cause pressures that exceed the valve materials' strength causing excessive leakage or actuator failure. The over pressurization can be avoided with an internal hole or an external equalizing pipe which makes the valve unidirectional.

Other solutions are as follows:

•Equalizing by pass

The equalizing pipe connects the valve's center cavity to the inlet or the outlet end of the valve, depending what valve is open in the by pass. Normally the high pressure side is connected with the center cavity; this valve is kept open during normal operation and is closed for stopping the reverse flow, when required for hydrostatic testing or for other reasons.

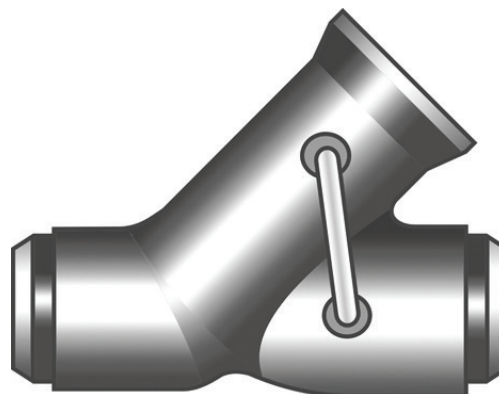
When the two valves are open the system is converted in a normal by pass



Equalizing by pass

•“Y” Stop Check Valves & “Y” Lift Check Valves

Are provided with an equalizing pipe connecting the area above the disc to the valve outlet. The equalizing pipe eliminates any pressure build up over the disc allowing the higher pressure below to fully open the disc. This full disc lift reduces pressure drop and the required minimum flow to fully open the valve.



Equalizing pipe

Actuators

•Gear Operators

Depending on the valve size and class it is required a valve with gearing for allowing one man to manually operate the valve.

Standard gear actuators are sized to seat or unseat the valve with a maximum rimpull requirement of 200 lbs. Unless otherwise specified the maximum differential pressure is assumed to 70% of the ASME B16.34 cold working pressure for the rated class.

•Electric Actuators

The Electric Actuators are available for AC or DC current. Most commonly specified NEMA classifications for Electrical Enclosures on Valve Actuator

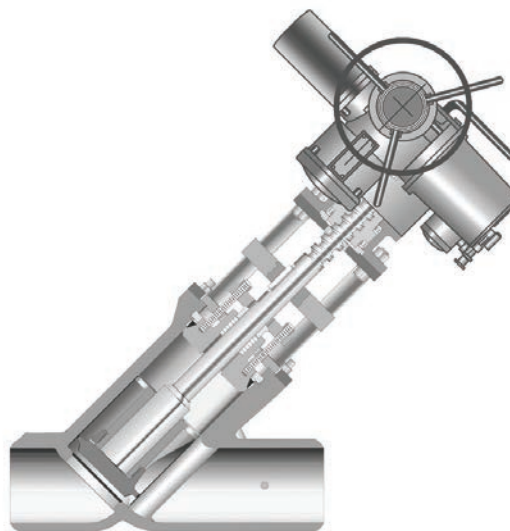
Requirements can be meet, including fire safe & explosion proof. All units can be manually operated in case of power failure. Communication boards can be installed for Supervisory Control.

•Hydraulic or Gas Actuator

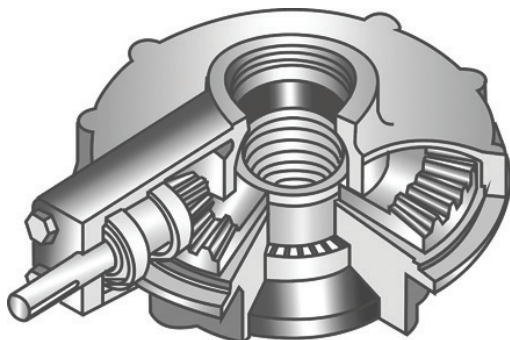
Hydraulic or Gas pressure is applied directly to the valve stem through the piston/rod assembly providing full, direct power to the valve stem.

These Actuators provide speed adjustable shock free operation. Materials of construction to suit process and ambient conditions.

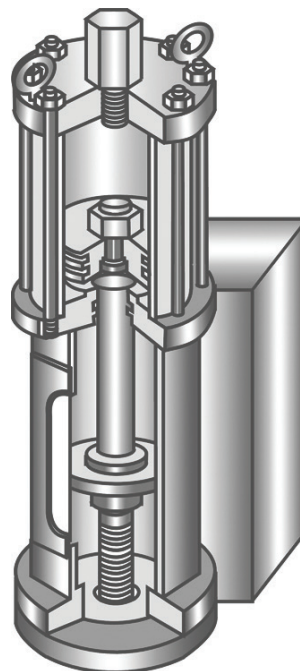
Manual pumps for emergency operation, special valve position locking, thermal relief protection and thrust limiting devices available.



"Y" pattern valve with electric actuator



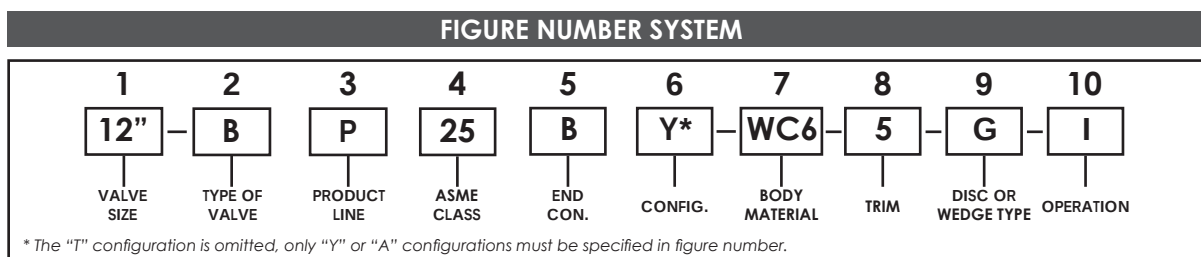
Gear Operator



Hydraulic or Gas Actuator



How to order Pressure Seal valves



1. - Valve size

[1"]	[3"]	[12"]	[24"]
[3/4"]	[4"]	[14"]	[30"]
[1 1/2"]	[6"]	[16"]	
[2"]	[8"]	[18"]	
[2 1/2"]	[10"]	[20"]	

2. - Valve Type

[G]	Gate
[B]	Globe
[W]	Swing Check
[S]	Stop Check
[L]	Lift Check
[T]	Tilting Disc Check

3. - Product Line

[P]	Pressure Seal
[V]	Pressure Seal Venturi

4. - ASME Class

[06]	600	[25]	2500
[09]	900	[45]	4500
[15]	1500		

5. - End Connections

[R]	Flanged Raised Face
[J]	Flanged Ring Type Joint
[B]	Butt Weld
[SW]	Socket Weld

6. - Configuration

[T]	"T" Pattern
[Y]	"Y" Pattern
[A]	Angle Pattern

7. - Body material

*For more materials view p. 52-53.

[WCB]	ASTM A216 Gr. WCB
[WC6]	ASTM A217 Gr. WC6
[WC9]	ASTM A217 Gr. WC9
[12A]	ASTM A217 Gr. C12A
[F8M]	ASTM A351 Gr. CF8M
[F8C]	ASTM A351 Gr. CF8C

8. - Trim material

*For more materials view p. 54-55.

[8]	410SS Wedge/Disc faces, Stellite® 6 Seats overlay, 410SS Stem
[5]	Stellite® 6 Wedge/Disc & Seats overlay, 410SS Stem
[66H]	Stellite® 6 Wedge/Disc & Seats overlay, Alloy 660 Stem
[T9H]	Tribaloy® T-900 Wedge/Disc & Seats overlay, 410SS Stem
[66T]	Tribaloy® T-900 Wedge/Disc & Seats overlay, Alloy 660 Stem
[N5T]	Stellite® 6 Wedge/Disc & Seats overlay, Nitronic stem
[N5H]	Stellite® 6 Wedge/Disc & Seats overlay, Nitronic stem

9. - Disc or wedge type

[F]	Flexible Wedge
[R]	Solid Wedge
[S]	Parallel Slide Discs Spring Loaded
[G]	Guided Plug Disc (Globe)
[T]	Tilting Disc
[P]	Piston Disc (Stop or Lift Check)
[W]	Swing Check Disc (Swing Check)
[C]	Split Wedge (Double Disc)

10. - Operation

[H]	Handwheel
[I]	Impact Handwheel
[W]	Chain Wheel
[E]	Enclosed Bevel Gear
[B]	Bevel Gear with Impact Handwheel
[U]	Bevel Gear with Nut for Air Gun
[C]	Bevel Gear with Chain Wheel
[M]	Electric Motor Actuator
[P]	Pneumatic Cylinder Linear Actuator
[Y]	Hydraulic Cylinder Linear Actuator
[S]	Check with outside Snubber (Damped check)
[T]	Bare Stem (For customer actuator installation)
[N]	Without Operator (Check Valves)

11. - Accessories

[YP]	By Pass arrangement
[VB]	Bleeder arrangement
[N1]	NACE MR0103 or MR0175
[Z]	Other special requirements

Body materials

Body materials										
Material		Product form								
		Forgins			Castings			Bars		
Comercial name	Nominal designation	Material No.	Specification No.	Grade	Material No.	Specification No.	Grade	Material No.	Specification No.	Grade
Carbon steel	C-Mn-Si	105	A105		WCB	A216	WCB	105	A105	
Cold temperature service	C-Mn-Si	LF2	A350	LF2				LF2	A350	LF2
Carbon steel	C-Mn-Si				WCC	A216	WCC			
Cold temperature service					LCC	A352	LCC			
Low temperature service	21/2Ni				LC2	A352	LC2			
Low temperature service	31/2Ni	LF3	A 350	LF3	LC3	A352	LC3	LF3	A350	LF3
Cold temperature service	C-Si				LCB	A352	LCB			
Low temperature service	21/2Ni									
Low temperature service	31/2Ni									
Low temperature service	C-Mn-Si	LF1	A350	LF1				LF1	A350	LF1
High temp. - 1/2 Moly St.	C-1/2Mo	2F1	A182	F1	WC1	A217	WC1	2F1	A182	F1
Cold temp. - 1/2 Moly St.	1/2 Moly				LC1	A352	LC1			
1/2 Chrome - 1/2 Moly St.	1/2Cr-1/2Mo	2F2	A182	F2				2F2	A182	F2
1/2 Cr - 1/2 Mo - 1Ni St.	Ni-1/2Cr-1/2Mo				WC4	A217	WC4			
3/4 Cr - 1Mo - 3/4 Ni St.	3/4Ni-Mo-3/4Cr				WC5	A217	WC5			
1Chrome - 1/2 Moly St.	1Cr-1/2Mo	F12	A182	F12 CL.2				F12	A182	F12 CL.2
1 1/4 Chrome - 1/2 Moly St.	1 1/4Cr-1/2Mo-Si	F11	A182	F11 CL.2				F11	A182	F11 CL.2
1 1/4 Chrome - 1/2 Moly St.	1 1/4Cr-1/2Mo				WC6	A217	WC6	B11	A739	B11
2 1/4 Chrome - 1 Moly St.	2 1/4Cr-1Mo	F22	A182	F22 CL.3	WC9	A217	WC9	F22	A182	F22 CL.3
2 1/4 Chrome - 1 Moly St.	2 1/4Cr-1Mo							B22	A739	B22
3 Chrome - 1 Moly St.	3Cr-1Mo	F21	A182	F21				F21	A182	F21
5 Chrome - 1/2 Moly St.	5Cr-1/2Mo									
5Chrome - 1/2 Moly St.	5Cr-1/2Mo	F5A	A182	F5A	OC5	A217	C5	F5A	A182	F5A
5Chrome - 1/2 Moly St.	5Cr-1/2Mo	2F5	A182	F5				2F5	A182	F5
9Chrome - 1 Moly St.	9Cr-1Mo	2F9	A182	F9	C12	A217	C12	2F9	A182	F9
9 Cr-1Mo-V-N	9Cr-1Mo-V-N	F91	A182	F91	12A	A217	C12A	F91	A182	F91
Type 304 Standard	18Cr-8Ni	304	A182	F304	CF8	A351	CF8	304 304	A182 A479	F304 304
304 High temp. service	18Cr-8Ni	04H	A182	F304H	F10	A351	CF10	04H 04H	A182 A479	F304H 304H
Type 316 Standard	16Cr-12Ni-2Mo 18Cr-12Ni-2Mo	316	A182	F316	F8M	A351	CF8M	316 316	A182 A479	F316 316
316 High temp. service	16Cr-12Ni-2Mo 18Cr-12Ni-2Mo	16H	A182	F316H	10M	A351	CF10M	16H 16H	A182 A479	F316H 316H
Type 317	19Cr-10Ni-3Mo 18Cr-13Ni-2Mo	317	A182	F317	G8M	A351	CG8M	317	A182	F317
304L (low carbon S. S.)	18Cr-8Ni	04L	A182	F304L	CF3	A351	CF3	04L 04L	A182 A479	F304L 304L
316L (low carbon S. S.)	16Cr-12Ni-2Mo 18Cr-12Ni-2Mo	16L	A182	F316L	F3M	A351	CF3M	16L 16L	A182 A479	F316L 316L
Type 317L	19Cr-10Ni-3Mo 18Cr-13Ni-2Mo	17L	A182	F317L	G3M	A351	CG3M	17L	A182	F317L
Type 321 standard	18Cr-10Ni-Ti	321	A182	F321				321 321	A182 A479	F321 321
321 High temp. service	18Cr-10Ni-Ti	21H	A182	F321H				21H 21H	A182 A479	F321H 321H
Type 347 standard	18Cr-10Ni-Cb	347	A182	F347	F8C	A351	CF8C	347 347	A182 A479	F347 347
347 High temp. service	18Cr-10Ni-Cb	47H	A182	F347H	F8C	A351	CF8C	47H 47H	A182 A479	F347H 347H
Type 348 standard	18Cr-10Ni-Cb	348	A182	F348				348 348	A182 A479	F348 348
348 High temp. service	18Cr-10Ni-Cb	48H	A182	F348H				48H 48H	A182 A479	F348H 348H



Body materials

Body materials										
Material		Product form								
		Forgins			Castings			Bars		
Comercial name	Nominal designation	Material No.	Spec. No.	Grade	Material No.	Spec. No.	Grade	Material No.	Spec. No.	Grade
309 (Heat resistant S.S.)	25Cr-12Ni	09H	A182	F309H	CH8 H20	A351 A351	CH8 CH20	09H	A182	F309H
310 (Heat resistant S.S.)	25Cr-20Ni	10H	A182	F310H	K20	A351	CK20	10H 10H	A182 A479	F310H 310H
"Super-austenitic SS (S31254)"	20Cr-18Ni-6Mo	F44	A182	F44	CK3	A351	CK3MCuN	F44 254	A182 A479	F44 S31254
"Duplex S31803 super Duplex S32750"	22Cr-5Ni-3Mo-N 25Cr-7Ni-4Mo-N	F51 F53	A182 A182	F51 F53	3MN CE3	A995 A995"	4A (CD3MN) 5A (CE3MN)	F51 F53	A182 A182	F51 F53
Super Duplex S32760	25Cr-7Ni-4Mo-N 25Cr-7.5Ni-4Mo-N-Cu-W	F55	A182	F55	CUN CUN	A995 A351	6A (CD3MWCuN) CD3MWCuN	F55 750	A182 A479	F55 S32750
Alloy 20	35Ni-35Fe-20Cr-Cb	020	B462	N08020				020	B473	N08020
Old cast alloy 20	28Ni-19Cr-Cu-Mo				A20	A351	CN7M			
New cast alloy 20 (carpenter 20)	28Ni-19Cr-Cu-Mo				C20	A990	CN3MCU			
Nickel	99Ni 95Ni	200	B160	N02200	CZC	A494	CZ100	200	B160	N02200
Nickel low c	99Ni-Low C	201	B160	N02201				201	B160	N02201
Monel® 400	67Ni-30Cu 67Ni-30Cu	400	B564	N04400	"M35 352"	"A494 A494"	"M35-1 M35-2"	400	B164	N04400
Inconel® 600	72Ni-15Cr-8Fe	600	B564	N06600	CY4	A494	CY40	600	B166	N06600
Inconel® 625	60Ni-22Cr-9Mo-3.5Cb	625	B564	N06625	6MC	A494	CW6MC	625	B446	N06625
Incoloy® 800	33Ni-42Fe-21Cr	800	B564	N08800	15C	A351	CT15C	800	B408	N08800
Incoloy® 800H	33Ni-42Fe-21Cr	810	B564	N08810	15C	A351	CT15C	810	B408	N08810
Incoloy® 825	42Ni-21.5Cr-3Mo-2.3Cu	825	B425	N08825	825	A494	CU5MCUC	825	B425	N08825
Hastelloy® B-2	65Ni-28Mo-2Fe	HB2	B335	N10665	HB2	A494	N7M	HB2	B335	N10665
Hastelloy® C276	54Ni-16Mo-15Cr 56Ni-19Mo-18Cr-2Fe	276	B574	N10276	W6M	A494	CW6M	276	B574	N10276
Hastelloy® C-22	55Ni-21Cr-13.5Mo 59Ni-22Cr-14Mo-4Fe-3W	C22	B574	N06022	2MW	A494	CX2MW	C22	B574	N06022
Obsolete Hastelloy® B (See Hastelloy® B2)	62Ni-28Mo-5Fe	HCB	B335	N10001	HCB	A494	N-12MV	HCB	B335	N10001
Hastelloy® N	70Ni-16Mo-7Cr-5Fe	HCN	B573	N10003				HCN	B573	N10003
Obsolete Hastelloy® C (See Hastelloy® C-276)	Ni-Mo-Cr				HC2	A494	CW-12MW			
Hastelloy® C-4	61Ni-16Mo-16Cr	HC4	B574	N06455	W2M	A494	CW2M	HC4	B574	N06455
Hastelloy® X	47Ni-22Cr-9Mo-18Fe	HGX	B572	N06002				HGX	B572	N06002
Hastelloy® 20MOD	26Ni-43Fe-22Cr-5Mo	H20	B621	N08320				H20	B621	N08320
Hastelloy® G	47Ni-22Cr-19Fe-6Mo	HCG	B581	N06007				HCG	B581	N06007
JS-700	25Ni-47Fe-21Cr-5Mo	700	B672	N08700				700	B672	N08700
904L	44Fe-25Ni-21Cr-Mo	904	B649	N08904				904	B649	N08904
Alloy G3	47Ni-22Cr-20Fe-7Mo	AG3	B581	N06985				AG3	B581	N06985
Alloy 31	Ni-Fe-Cr-Mo-Cu-Low C	A31	B564	N08031				A31	B649	N08031
Alloy 330	35Ni-19Cr-11/4Si	330	B511	N08330				330	B511	N08330
Alloy AL-6XN	46Fe-24Ni-21Cr-6Mo-Cu-N	367	B564	N08367	CN3	A743	CN3MN	367	B691	N08367
Unalloyed Tita-nium Gr. 2	T i	TF2	B381	Gr. 2	TC2	B367	Gr. 2	482	B348	Gr. 2
Titanium Gr. 7	T i-Pd	TF7	B381	Gr. 7	TC7	B367	Gr. 7	487	B348	Gr. 7
Aluminium Bronze	Cu-Al-Ni	630	B150	C63000	958	B148	C95800	630	B150	C63000
Unalloyed Zirco-nium	Zr	702	B493	R60702	02C	B752	702C	702	B550	R60702
Zirconium w/ Stanium	Zr-Sn				04C	B752	704C			
Zirconium w/ Colombuim	Zr-Cb	705	B493	R60705	05C	B752	705C	705	B550	R60705

Trim materials

Trim No.	Description	API-600 trim No.	Seal material type	Body seat ring surfaces	Disc seats surfaces	Steam and other trim parts
1	F6	1	13Cr	13% Chromium	13% Chromium	13% Chromium Stem 200 HBN min.
2	304	2	18Cr-8Ni	304 Stainless steel	304 Stainless steel	304 Stainless steel
2H	304 hardfaced	15	Co Cr-A	Stellite® 6	Stellite® 6	304 Stainless steel
2S	304 with hardfaced seat-rings	N/A	18Cr-8Ni Co Cr-A	Stellite® 6	304 Stainless steel	304 Stainless steel
3	F310	3	25Cr-20Ni	310 Stainless steel	310 Stainless steel	310 Stainless steel
3H	310 hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	310 Stainless steel
3S	310 with hardfaced seat-rings	N/A	25Cr-20Ni Co Cr-A	Stellite® 6	310 Stainless steel	310 Stainless steel
5	F6 hardfaced	5	Co Cr-A	Stellite® 6	Stellite® 6	13% Chromium Stem 200 HBN min.
5A	F6 with Ni-Cr alloy seat-rings	5A	Ni-Cr Alloy 350HBN min	Ni-Cr Alloy 350HBN min	Ni-Cr Alloy 350HBN min	13% Chromium Stem 200 HBN min.
6	F6 and Ni-Cu	6	F6 Ni-Cu	Monel®	13% Chromium	13% Chromium Stem 200 HBN min.
7	Hard F6	7	Hard 13Cr	13% Chromium 750 HBN min.	13% Chromium 750 HBN min.	13% Chromium Stem 200 HBN min.
8	F6 with hardfaced seat- rings	8	13 Cr Co Cr-A	Stellite® 6	13% Chromium	13% Chromium Stem 200 HBN min.
8A	F6 with Ni-Cr alloy seat- rings	8A	13 Cr Ni-Cr Alloy	Ni-Cr Alloy 350HBN min	13% Chromium	13% Chromium Stem 200 HBN min.
9	Monel®	9	Ni-Cu Alloy	Monel®	Monel®	Monel® K500
9H	Monel® hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	Monel® K500
9S	Monel® with hardfaced seat-rings	11	Monel® Co Cr-A	Stellite® 6	Monel®	Monel® K500
10	316	10	16Cr-12 Ni-2Mo	316 Stainless steel	316 Stainless steel	316 Stainless steel
10H	316 hardfaced	16	Co Cr-A	Stellite® 6	Stellite® 6	316 Stainless steel
10S	316 with hardfaced seat-rings	12	16Cr-12 Ni-2Mo Co Cr-A	Stellite® 6	316 Stainless steel	316 Stainless steel
13	Alloy 20	13	19-29 Cr-Ni	Alloy 20	Alloy 20	Alloy 20
13H	Alloy 20 hardfaced	18	Co Cr-A	Stellite® 6	Stellite® 6	Alloy 20
13S	Alloy 20 with hardfaced seat- rings	14	Alloy 20 Co Cr-A	Stellite® 6	Alloy 20	Alloy 20
13C	Alloy 20 hardfaced w/ Hastelloy® C	14A	Hastelloy® C (350 HB)	Hastelloy® C(350 HB)	Hastelloy® C(350 HB)	Alloy 20
15	304L	N/A	Low C. S.S	304L Stainless steel	304L Stainless steel	304L Stainless steel
15H	304L hardfaced	N/A		Stellite® 6	Stellite® 6	304L Stainless steel
15S	304L with hardfaced seat-rings	N/A	Low C. S.S Co Cr-A	Stellite® 6	304L Stainless steel	304L Stainless steel
16	316L	N/A	Low C 316SS	316L Stainless steel	316L Stainless steel	316L Stainless steel
16H	316L hardfaced	N/A	Low C 316SS	Stellite® 6	Stellite® 6	316L Stainless steel
16S	316L with hardfaced seat-rings	N/A	Low C 316SS Co Cr-A	Stellite® 6	316L Stainless steel	316L Stainless steel
17	317 or 317L	N/A	317 or 317LSS	317 or 317LSS	317 or 317LSS	317 or 317LSS
17H	317 or 316L hardfaced	N/A	317 or 317LSS	Stellite® 6	Stellite® 6	317 or 317LSS
17S	317 or 317L with hardfaced seat-rings	N/A	Low C 316SS Co Cr-A	Stellite® 6	317 or 317LSS	317 or 317LSS
17P	17-4PH hardfaced	5 Mod.17-4PH Stem	Co Cr-A	Stellite® 6	Stellite® 6	17-4PH H1150
T9H	F6 harfaced w/ Tribaloy®	5 Mod. Tribaloy® Seats	CoCrNiMo	Tribaloy® T900	Tribaloy® T900	13% Chromium stem 200 HBN min
T9P	17-4PH hardfaced w/ Tribaloy®	5 Mod(17-4PH & Tribaloy®)	CoCrNiMo	Tribaloy® T900	Tribaloy® T900	17-4PH H1150
66H	Alloy 660 hardfaced	5 Mod Alloy 660 stem	Co Cr-A	Stellite® 6	Stellite® 6	A638-660 T2
66T	Alloy 660 hardfaced w/ Tribaloy®	5 Mod (660 & Tribaloy®)	CoCrNiMo	Tribaloy® T900	Tribaloy® T900	A638-660 T2
18	Hastelloy® B2	N/A	Hastelloy® B-2	Hastelloy® B-2	Hastelloy® B-2	Hastelloy® B-2
19	Hastelloy® C-276 or Hastelloy® C-4	19B	Hastelloy® C-276, C-4	Hastelloy® C-276, C-4	Hastelloy® C-276, C-4	Hastelloy® C-276, C-4
19H	Hastelloy® C-276, C-4 hardfaced	N/A	Co Cr - A	Stellite® 6	Stellite® 6	Hastelloy® C-276, C-4
19S	Hastelloy® C-276,C-4 w/ hardfaced seat- rings	20A	Hastelloy® C-276, C-4 Co Cr-A	Stellite® 6	Hastelloy® C-276, C-4	Hastelloy® C-276, C-4



Trim materials

Trim No.	Description	API-600 trim No.	Seal material type	Body seat ring surfaces	Disc seats surfaces	Steam and other trim parts
321	321 SS	N/A	18Cr - 10Ni-Ti	321 Stainless Steel	321 Stainless Steel	321 Stainless Steel
21H	321 hardfaced	N/A	Co Cr - A	Stellite® 6	Stellite® 6	321 Stainless Steel
21S	321 with hardfaced seat-rings	N/A	18Cr-10Ni-Cb Co Cr-A	Stellite® 6	321 Stainless Steel	321 Stainless Steel
347	347 SS	N/A	18Cr-10Ni-Cb	347 Stainless Steel	347 Stainless Steel	347 Stainless Steel
47H	347 hardfaced	17	Co Cr - A	Stellite® 6	Stellite® 6	347 Stainless Steel
47S	347 with hardfaced seat-rings	N/A	18Cr-10Ni-Cb Co Cr-A	Stellite® 6	347 Stainless Steel	347 Stainless Steel
600	Inconel® 600	N/A	72Ni-15Cr-8Fe	Inconel® 600	Inconel® 600	Inconel® 600
60H	Inconel® 600 hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	Inconel® 600
625	Inconel® 625	19A	60Ni-22Cr-9Mo-3.5Cb	Inconel® 625	Inconel® 625	Inconel® 625
62H	Inconel® 625 hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	Inconel® 625
800	Incoloy® 800 or 800H	N/A	33Ni-42Fe-21Cr	Incoloy® 800 or 800H	Incoloy® 800 or 800H	Incoloy® 800 or 800H
80H	Incoloy® 800 or 800H hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	Incoloy® 800 or 800H
825	Incoloy® 825	N/A	42Ni-21.5Cr-3Mo 2.3Cu	Incoloy® 825	Incoloy® 825	Incoloy® 825
80H	Incoloy® 825 hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	Incoloy® 825
21	Aluminum Bronze	N/A	Aluminum Bronze	Aluminum Bronze	Aluminum Bronze	Aluminum Bronze
22	Titanium	N/A	Titanium	Titanium	Titanium	Titanium
23	Duplex S.S.	N/A	Duplex S.S.	Duplex S.S.	Duplex S.S.	Duplex S.S.
23H	Duplex S.S. hardfaced	N/A	Co Cr - A	Stellite® 6	Stellite® 6	Duplex S.S.
25	Super-Duplex S.S.	N/A	Super-Duplex S.S.	Super-Duplex S.S.	Super-Duplex S.S.	Super-Duplex S.S.
25H	Super-Duplex S.S. hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	UNS-32750
24	904L S.S.	N/A	44Fe-25Ni-21Cr-Mo	UNS - N08904	UNS-N08904	UNS-N08904
24	904L S.S. hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	UNS-N08904
NSH	Nitronic 50 hardfaced	N/A	Co Cr-A	Stellite® 6	Stellite® 6	A479 UNS S20910
NST	Nitronic hardfaced w/ Tribaloy®		CoCrNiMo	Tribaloy® T900	Tribaloy® T900	A479 UNS S20910
26	Zirconium	Zirconium	Zirconium	Zirconium	Zirconium	Zirconium
ZNN	Other	Defined by user	-To specify by-			

Xanor de México, S.A. de C.V.

Limited Warranty



Xanor de Mexico S.A. de C.V. (referred to herein as "Xanor") manufacturer of Xanik® Valves (referred to herein as "Product"), warrants to the buyer that each product sold shall be free of defects in material and workmanship for a period of 18 (eighteen) months after shipment or 12 (twelve) months after installation, whichever occurs first. This limited warranty shall apply only if the product is properly maintained and used in service which is normal to the particular product, in accordance with Xanor product's manuals and instructions.

Xanor makes no warranty whatsoever as to (1) integral parts, components or accessories not manufactured by Xanor, but instead, the applicable warranties, if any, of the respective manufacturers thereof shall apply, (2) any product (or part thereof) damaged by misuse, neglect or accident, (3) any product (or part thereof) repaired, altered or assembled in any way by anyone other than Xanor which, in the sole judgment of Xanor, affects the performance or purpose for which it was manufactured, (4) products (or parts thereof) which are not defective but which may wear out and have to be replaced, like packing, gaskets, bolting, etc.

This limited warranty is made solely for the benefit of the buyer and does not extend to any other party. This limited warranty is not transferable by the buyer. Xanor's obligations hereunder are limited to repair the product or any part(s) proven defective in material or workmanship, F.O.B. at Xanor's factory. If the buyer discovers a defect or nonconformity the must notify Xanor in writing within thirty (30) days after the date of discovery of the relevant defect. The buyer shall allow Xanor the right to inspect the product so that it, at its sole discretion, may determine if a repair or replacement is applicable. If Xanor determines that the product (or parts thereof) must be replaced, buyer shall return the defective product (or parts thereof) to Xanor. No returns of products (or parts thereof) from the buyer will be accepted without prior inspection and written consent performed and granted respectively, by Xanor or by an authorized representative. This warranty is made in lieu of any warranties whether expressed or implied.

Xanor shall not be (or deemed to be) responsible for consequential or incidental damages, personal injury, damages for loss of use, lost profits, or any other damages whatsoever in connection with the warranties set forth herein. This warranty does not cover serviceable parts (packing, gaskets, etc.), electric, electronic or pneumatic accessories, etc., installed in our products, which only have the warranty period given by the manufacturer of such accessories or parts. The buyer should consult knowledgeable advisors in the selection of product type and material of construction.

DECLARATION OF CONFORMITY

Xanor de Mexico, S.A. de C.V. declares that Xanik® products are designed and manufactured according to customer specifications and/or applicable industrial valve standards and when properly installed and maintained according to Xanik maintenance and operational manuals and used for the intended purpose, will not endanger the health and safety of persons and where appropriate, domestic animals and property.

CATALOG ILLUSTRATIONS

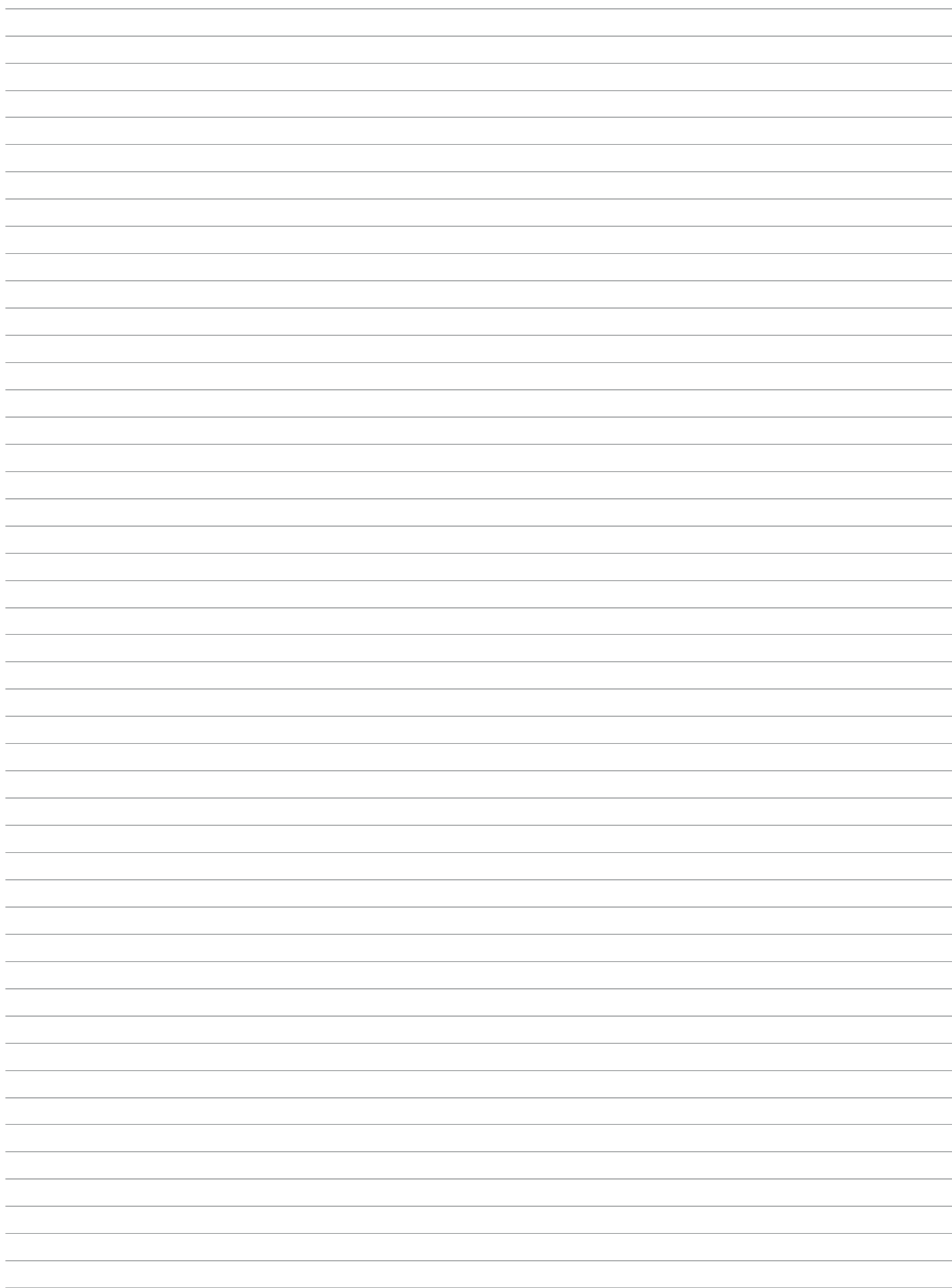
Catalog illustrations and dimensions are only for reference purpose. Xanor reserves the right to make changes in materials, designs, and specifications, without notice.

CATALOG WEIGHTS

Weights indicated in Xanik catalogs represent only an estimate weight of products and are not guaranteed.

Notes







xanik®



xanor de méxico, s.a. de c.v.



Xanik® valves are manufactured exclusively by:

Xanor de México, S.A. de C.V.

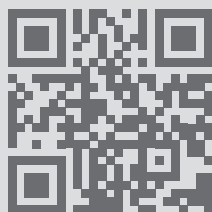
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Here you can know more about our valves

