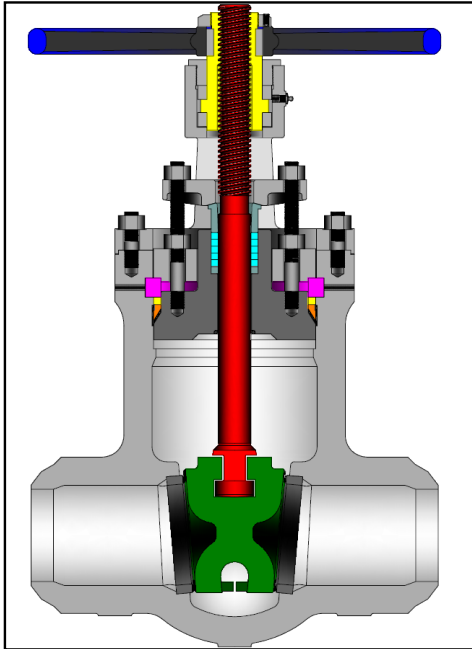


PRESSURE SEAL GATE VALVES

CAST, CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500



Class	Fig. No.
600	1603
900	1903
1500	1103
2500	1203

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Wedge	A216 WCB + Stellite 6 Faced	A217 WC6 + Stellite 6 Faced	A217 WC9 + Stellite 6 Faced	A217 C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Lock Nut	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Key	Steel			
Lubricant Fitting	Steel			
Bonnet Takeup / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Takeup / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

- Flexible Wedge for improved seating and ease of operation, especially in high temperature service. Wedges are accurately guided thru the entire stroke.
- Valves are full port design per ASME B16.34 Table A-1.
- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Seat faces lapped for smooth finish and superior sealing.
- Stems are non-rotating with surface finish to maximize packing seal for low fugitive emissions.
- Yoke arms designed for ease of gear, motor or cylinder actuator adaptation.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test report, inspection report and certificate of conformance.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Other available options as follows:
 - Alternate valve materials such as chrome and stainless steel alloys

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

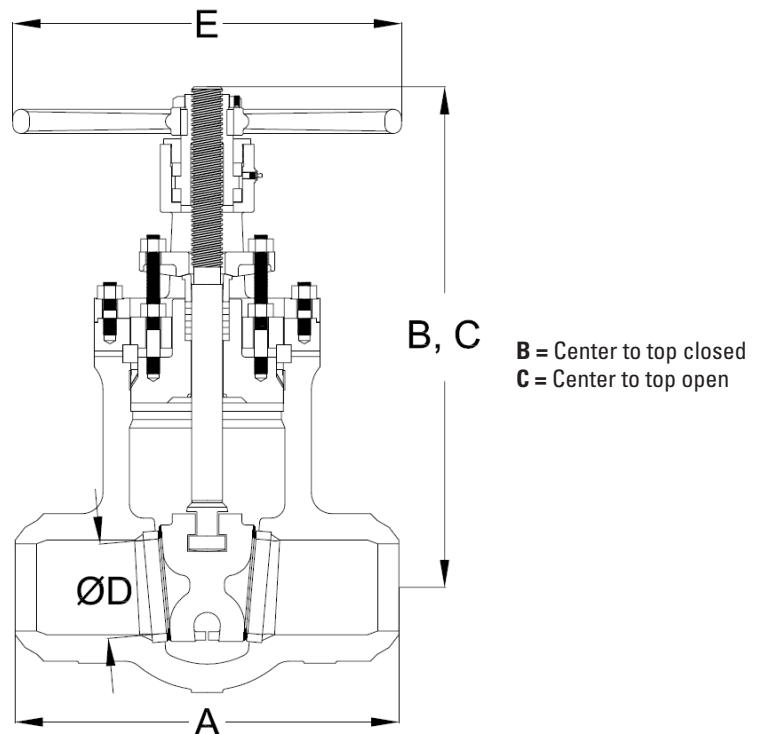
- » Alternate trim materials
- » Bypass, drain and other auxiliary connections
- » Gear, motor, and cylinder actuators available
- » NACE service
- » Special cleaning for applications such as oxygen or chlorine
- » Other options available as specified

GATE VALVE DIMENSIONS (CLASSES 600 - 2500)

SIZE	ASME 600					ASME 900					ASME 1500				
in mm	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
2	7	15.7	18.2	2.00	8	8.5	19.7	22.0	1.87	14	8.5	19.7	22.0	1.87	14
50	178	399	462	51	200	216	499	558	48	356	216	499	558	48	356
2½	8.5	19.6	22.6	2.50	12	10.0	21.5	24.1	2.25	14	10.0	21.5	24.3	2.25	14
65	216	498	573	64	305	254	546	612	57	356	254	545	616	57	356
3	10	20.3	23.7	3.00	12	12.0	22.8	26.1	2.87	14	12.0	23.7	27.1	2.75	16
80	254	516	602	76	305	305	578	664	73	356	305	603	688	70	406
4	12	24.4	29.0	4.00	14	14.0	25.2	29.5	3.87	16	16.0	27.7	31.9	3.62	20
100	305	620	736	102	356	356	640	750	98	406	406	703	811	92	500
6	18	27.6	34.1	6.00	20	20.0	28.7	35.1	5.75	20	22.0	30.2	36.3	5.37	22
150	457	700	865	152	508	508	729	892	146	508	559	768	923	136	560
8	23	32.6	41.2	7.87	20	26.0	33.6	42.0	7.50	25	28.0	34.8	42.6	7.00	28
200	584	828	1047	200	508	660	854	1066	191	640	711	883	1083	178	720
10	28	38.4	49.0	9.75	25	31.0	44.2	53.5	9.37	30	34.0	44.5	53.3	8.75	28
250	711	975	1245	248	640	787	1122	1360	238	762	864	1131	1353	222	710
12	32	44.5	56.9	11.75	28	36.0	59.3	70.4	11.12	30	39.0	50.1	60.5	10.37	30
300	813	1129	1445	298	680	914	1505	1788	282	762	991	1272	1535	263	762
14	35	56.9	62.1	12.87	30	39.0	66.9	79.2	12.25	30	42.0	63.1	74.5	11.37	36
350	889	1445	1577	327	762	991	1700	2011	311	762	1067	1604	1892	289	914
16	39	74.9		14.75	18	43.0	76.1		14.00	24	47.0	76.1		13.00	24
400	991	1903		375	460	1092	1933		356	610	1194	1933		330	610
18	43	84.9		16.5	18	48.0	88.7		15.75	24	53.0	84.6		14.62	24
450	1092	2157		419	460	1219	2255		400	610	1346	2149		371	610
20	47	86.6		18.25	18	52.0	92.2		17.5	24	58.0	104		16.37	24
500	1194	2200		464	460	1321	2342		445	610	1473	2626		416	610
24	55	90.4		22.00	18	61.0	106.0		21.00	24	76.5	138		19.62	24
600	1397	2295		559	460	1549	2680		533	610	1943	3490		498	610

(1) Gear operators standard for 16" and up classes 600 to 1500 and 14" and up for class 2500.

SIZE	ASME 2500				
in	A	B(1)	C(1)	D	E
mm					
2	11.0	18.6	20.5	1.50	12
50	279	473	521	38	300
2½	13.0	22.0	26.1	1.87	18
65	330	558	662	48	457
3	14.5	22.0	26.1	2.25	18
80	368	558	662	57	457
4	18.0	28.2	32.0	2.87	20
100	457	717	812	73	508
6	24.0	31.4	36.5	4.37	24
150	610	798	928	111	610
8	30.0	39.2	47.2	5.75	24
200	762	997	1200	146	610
10	36.0	45.3	52.6	7.25	30
250	914	1151	1335	184	762
12	41.0	52.7	66.7	8.62	36
300	1041	1339	1695	219	914
14	44.0	74.2		9.50	24
350	1118	1885		241	610
16	49.0	77.0		10.87	24
400	1245	1956		276	610
18	55.0	79.9		12.25	32
450	1397	2030		311	800



PRESSURE SEAL GATE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

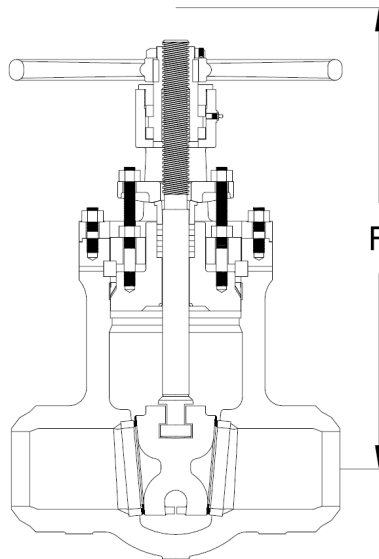
2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV	
2	27.5		95	240		30.2		95	210		30.2		95	210		30.6		176	140	
50	699		43			766		43			766		43			778		80		
2½	30.2		125	390		30.3		125	310		32.8		135	310		34.6		348	220	
65	768		56			769		56			832		61			878		158		
3	32.3		143	560		35.4		154	510		36.9		221	470		34.6		392	310	
80	821		65			898		70			937		100			878		178		
4	39.0		181	1000		40.4		229	950		43.9		401	830		43.2		522	520	
100	990		82			1025		104			1115		182			1098		237		
6	45.5		364	2400		46.9		518	2200		47.2		760	2000		50.3		772	1300	
150	1155		165			1192		235			1199		345			1278		381		
8	54.5		712	4300		56.4		904	3900		57.1		1583	3400		60.2		1852	2300	
200	1385		323			1433		410			1449		718			1530		840		
10	65.2		1091	6700		68.2		1820	6200		66.4		2787	5400		72.5		3504	3700	
250	1655		495			1733		825			1687		1264			1841		1589		
12	76.6		1616	10000		78.0		2586	9000		78.0		3235	7800		82.6		5420	5400	
300	1945		733			1982		1173			1980		1467			2098		2458		
14	84.5		2221	12000		81.5		3421	11000		89.8		5140	9400		94.1		7110	6600	
350	2146		1007			2069		1552			2282		2336			2391		3225		
16	94.2		2898	16000		99.4		4291	14000		101.9		6477	12000		111.8		4016	8600	
400	2393		1314			2523		1946			2588		2937			2840		4801		
18	105.3		3646	21000		111.5		5164	19000		114.9		7857	16000		114.7		10587	11000	
450	2675		1654			2832		2342			2917		3563			2913		4801		
20	116.4		4456	25000		122.3		6005	23000		129.0		9256	20000						
500	2958		2021			3106		2723			3275		4198							
24	141.9		6231	37000		147.5		7463	33000		161.3		11983	29000						
600	3605		2826			3747		3385			4098		5434							

Note: Does not include weight of gear.

WT = Weight
F = Dismantling Dimension
CV = Flow Coefficient

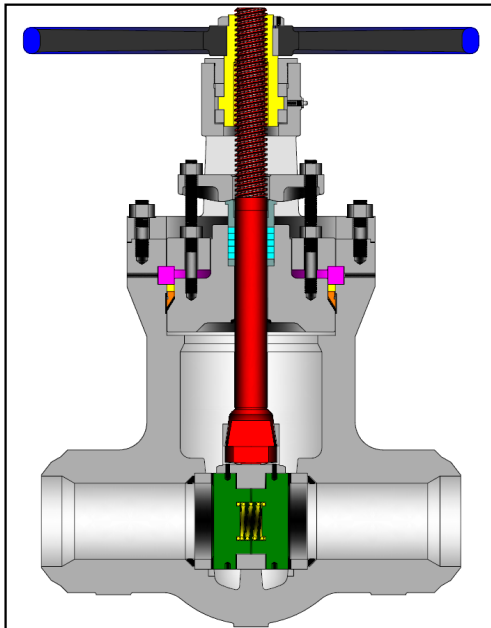


PRESSURE SEAL PARALLEL SEAT GATE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500



Class	Fig. No.
600	1607
900	1907
1500	1107
2500	1207

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Seat faces lapped for smooth finish and superior sealing.
- Stems are non-rotating with surface finish to maximize packing seal for low fugitive emissions.
- Yoke arms designed for ease of gear, motor or cylinder actuator adaptation.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Parallel Discs are spring supported, offering a more refined seal.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long pattern design. Weld end valve dimensions given in table on next page.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Screw	SST 304			
Disc Holder	A105	A182 F11	A182 F22	A182 F91
Spring	Inconel			
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Lock Nut	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Key	Steel			
Lubricant Fitting	Steel			
Bonnet Takeup / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Takeup / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test report, inspection report and certificate of conformance.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Bypass, drain and other auxiliary connections
 - » Bypass, drain and other auxiliary connections

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

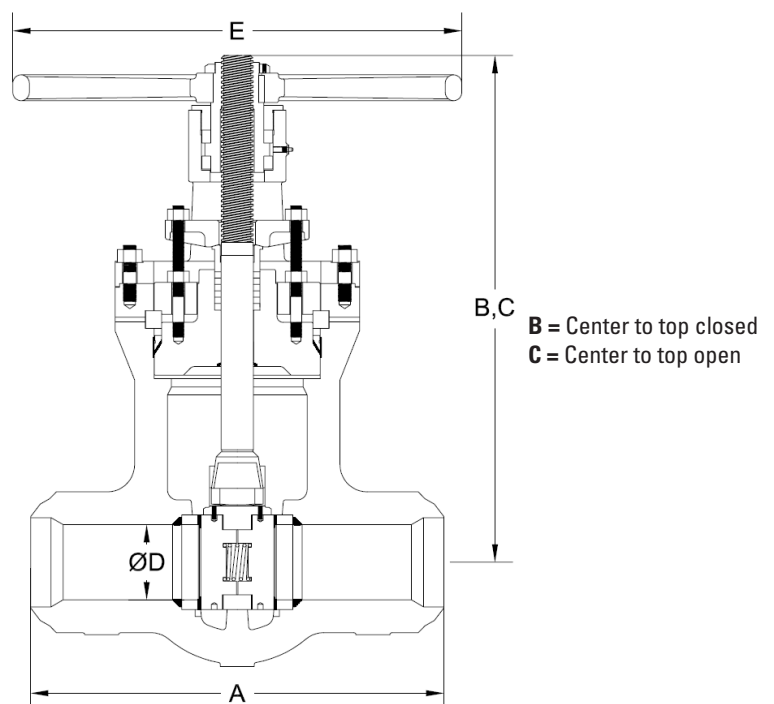
- » Gear, motor, and cylinder actuators available
- » NACE service
- » Special cleaning for applications such as oxygen or chlorine
- » Other options available as specified

PARALLEL SLIDE GATE VALVE DIMENSIONS (CLASSES 600 - 2500)

SIZE	ASME 600					ASME 900					ASME 1500				
in	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
mm															
2	7.0	16.7	19.2	2.00	8.0	8.5	20.7	23.0	1.87	14.0	8.5	21.6	24.0	1.87	14.0
50	178	424	488	51	200	216	526	584	48	356	216	549	608	48	356
2½	8.5	20.6	23.6	2.50	12.0	10.0	22.5	25.1	2.25	14.0	10.0	22.5	25.3	2.25	14.0
65	216	523	599	64	305	254	572	638	57	356	254	572	643	57	356
3	10.0	21.3	24.7	3.00	12.0	12.0	23.8	26.1	2.87	14.0	12.0	24.7	28.1	2.75	16.0
80	254	541	627	76	305	305	605	663	73	356	305	627	714	70	406
4	12.0	25.4	30.0	4.00	14.0	14.0	25.2	29.5	3.87	16.0	16.0	28.7	32.9	3.62	20.0
100	305	645	762	102	356	356	640	750	98	406	406	729	836	92	500
6	18.0	29.6	36.1	6.00	20.0	20.0	30.7	37.1	5.75	20.0	22.0	31.9	38.0	5.37	22.0
150	457	752	917	152	508	508	780	942	146	508	559	810	965	136	560
8	23.0	34.6	43.2	7.88	20.0	26.0	35.6	44.0	7.50	25.0	28.0	36.8	44.6	7.00	28.0
200	584	879	1097	200	508	660	904	1118	191	640	711	935	1133	178	720
10	28.0	40.4	51.0	9.75	25.0	31.0	46.2	55.5	9.37	30.0	34.0	46.5	55.3	8.75	28.0
250	711	1026	1295	248	640	787	1173	1410	238	762	864	1181	1405	222	710
12	32.0	46.5	58.9	11.75	28.0	36.0	61.3	72.4	11.12	30.0	39.0	52.1	62.5	10.37	30.0
300	813	1181	1496	298	680	914	1557	1839	282	762	991	1323	1588	263	762
14	35.0	59.9	65.1	12.88	30.0	39.0	69.9	82.2	12.25	30.0	42.0	66.1	77.5	11.37	36.0
350	889	1521	1654	327	762	991	1775	2088	311	762	1067	1679	1969	289	914
16	39.0	73.2	14.75	18.0	43.0	91.3	14.00	24.0	47.0	79.0	13.00	24.0			
400	991	1859	375	460	1092	2311	356	610	1194	2007	330	610			
18	43.0	80.6	16.50	18.0	48.0	96.7	15.75	24.0	53.0	87.6	14.62	24.0			
450	1092	2047	419	460	1219	2202	400	610	1346	2225	371	610			
20	47.0	91.9	18.25	18.0	52.0	124.7	17.50	24.0	58.0	106.4	16.37	24.0			
500	1194	2334	464	460	1321	3167	445	610	1473	2703	416	610			
24	55.0	116.6	22.00	18.0	61.0	160.1	21.00	24.0	76.5	140.4	19.62	24.0			
600	1397	2962	559	460	1549	4067	533	610	1943	3566	498	610			

(1) Gear operators standard for 16" and up classes 600 to 1500 and 14" and up for class 2500.

SIZE	ASME 2500				
in	A	B(1)	C(1)	D	E
mm					
2	11.0	19.3	21.4	1.50	12.0
50	279	490	543	38	300
2½	13.0	23.0	27.1	1.87	18.0
65	330	584	688	48	457
3	14.5	23.5	26.4	2.25	18.0
80	368	596	670	57	457
4	18.0	29.2	33.0	2.87	20.0
100	457	742	838	73	508
6	24.0	31.4	36.5	4.37	24.0
150	610	798	928	111	610
8	30.0	41.2	49.2	5.75	24.0
200	762	1069	1250	146	610
10	36.0	47.3	52.6	7.25	30.0
250	914	1201	1336	184	762
12	41.0	54.7	68.7	8.62	36.0
300	1041	1389	1745	219	914
14	44.0	72.2		9.50	24.0
350	1118	1834		241	610
16	49.0	80.0		10.87	24.0
400	1245	2032		276	610
18	55.0	82.9		12.25	32.0
450	1397	2106		311	800



PRESSURE SEAL PARALLEL SEAT GATE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

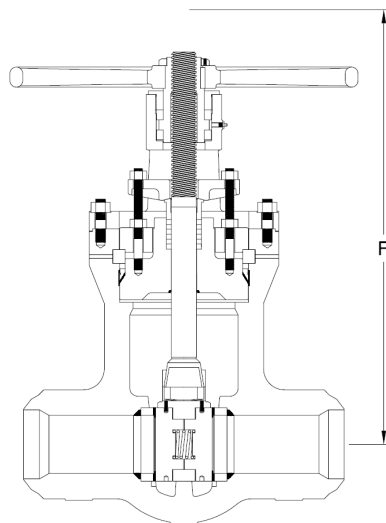
2 - 24" (5 - 600mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600				ASME 900				ASME 1500				ASME 2500			
in mm	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV
2	28.5		95	240	31.2		95	210	32.2		93	210	32.6		176	140
50	724		43		792		43		817		42		829		80	
2½	31.2		125	390	31.3		125	310	33.8		135	310	35.6		331	220
65	792		56		795		56		859		61		904		150	
3	33.3		143	560	36.4		154	510	37.9		221	470	36.6		331	310
80	846		65		925		70		963		100		929		150	
4	40.0		181	1000	41.4		229	950	44.9		401	830	45.3		522	520
100	1016		82		1052		104		1140		182		1148		237	
6	47.5		364	2400	48.9		518	2200	47.7		760	2000	53.3		840	1300
150	1207		165		1242		235		1212		345		1354		381	
8	56.5		712	4300	58.4		904	3900	59.0		1583	3400	62.2		1852	2300
200	1435		323		1483		410		1499		718		1580		840	
10	67.2		1091	6700	70.2		1820	6200	68.4		2787	5400	74.5		3504	3700
250	1707		495		1783		825		1737		1264		1892		1589	
12	78.6		1616	10000	80.0		2586	9000	80.0		3235	7800	84.6		5420	5400
300	1996		733		2032		1173		2032		1467		2149		2458	
14	87.5		2221	12000	84.5		3421	11000	92.3		5140	9400	98.1		7584	6600
350	2223		1007		2146		1552		2344		2336		2493		3440	
16	97.2		2898	16000	102.4		4291	14000	104.9		6477	12000	114.8		10587	8600
400	2469		1314		2601		1946		2664		2937		2916		4801	
18	108.3		3646	21000	114.5		5164	19000	117.9		7857	16000	117.7		10587	11000
450	2751		1654		2908		2342		2995		3563		2990		4801	
20	119.4		4456	25000	125.3		6005	23000	132.0		9256	20000				
500	3033		2021		3183		2723		3353		4198					
24	144.9		6231	37000	150.5		7463	33000	164.3		11983	29000				
600	3680		2826		3823		3385		4173		5434					

Note: Does not include weight of gear.

WT = Weight
F = Dismantling Dimension
CV = Flow Coefficient

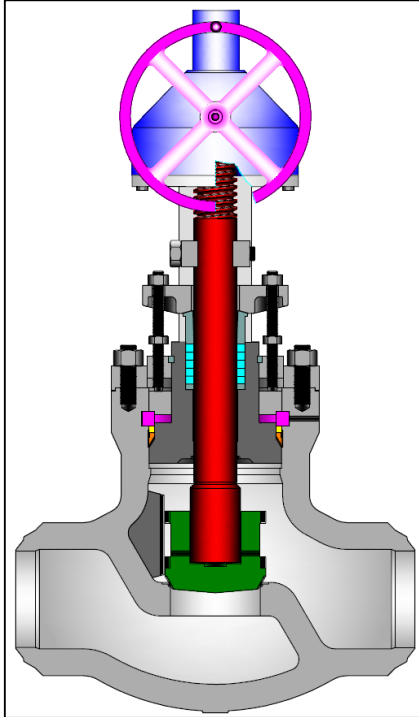


PRESSURE SEAL NON-RETURN VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500



Class	Fig. No.
600	1684
900	1984
1500	1184
2500	1284

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Wall thickness per heavy wall API 600 requirements.
- Seat faces lapped for smooth finish and superior sealing.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Weld end valves are B16.10 short pattern design. Flanged end valves are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 WC9 + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Set Screw	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Groove Pin	Steel			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Body / Bonnet / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Body / Bonnet / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

Note: Angle pattern available on request.

- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - Alternate valve materials such as chrome and stainless steel alloys
 - Alternate trim materials
 - Bypass, drain and other auxiliary connections
 - Gear, motor, and cylinder actuators available
 - NACE service
 - Special cleaning for applications such as oxygen or chlorine
 - Other options available as specified

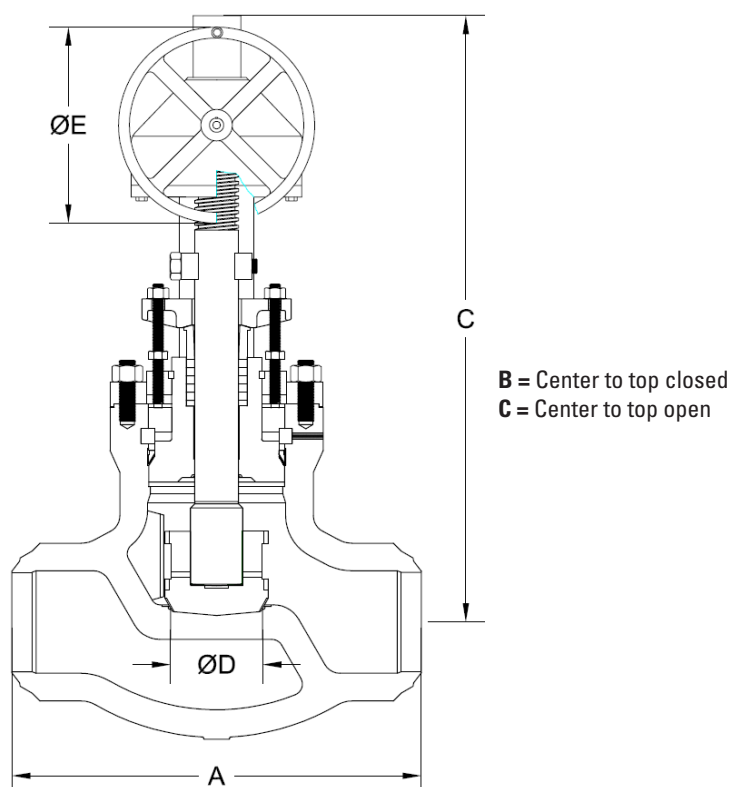
NON-RETURN VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE	ASME 600					ASME 900					ASME 1500				
in	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
mm															
2	7.0	15.9	16.5	2.00	10.0	8.5	15.9	16.5	1.87	12.0	8.5	18.0	18.8	1.87	12.0
50	178	405	420	51	250	216	405	420	48	300	216	460	475	48	300
2½	8.5	17.1	18.0	2.50	12.0	10.0	17.9	18.8	2.25	14.0	10.0	19.9	20.8	2.25	18.0
65	216	435	460	64	300	254	455	475	57	350	254	505	525	57	450
3	10.0	18.5	19.5	3.00	12.0	12.0	21.0	22.0	2.87	14.0	12.0	23.3	24.3	2.75	22.0
80	254	470	495	76	300	305	535	560	73	350	305	590	615	70	550
4	12.0	22.1	23.5	4.00	18.0	14.0	25.1	26.5	3.87	18.0	16.0	29.3		3.62	18.0
100	305	560	600	102	450	356	640	675	98	450	406	745		92	460
6	18.0	28.0	30.0	6.00	20.0	20.0	36.5		5.75	24.0	22.0	40.3		5.37	24.0
150	457	710	760	152	500	508	925		146	610	559	1025		136	610
8	23.0	40.0	42.8	7.87	24.0	26.0	52.5		7.50	24.0	28.0	55.0		7.00	24.0
200	584	1015	1085	200	600	660	1335		191	610	711	1400		178	610
10	28.0	50.0		9.75	24.0	31.0	56.5		9.37	24.0	34.0	62.5		8.75	24.0
250	711	1270		248	610	787	1435		238	610	864	1590		222	610
12	32.0	55.5		11.75	24.0	36.0	59.3		11.12	24.0	39.0	70.0		10.37	32.0
300	813	1410		298	610	914	1505		282	610	991	1780		263	800

(1) Gear operators standard for 10" and up for class 600, 6" and up for class 900, and 4" and up for class 1500 and 2500.

SIZE	ASME 2500				
in	A	B(1)	C(1)	D	E
mm					
2	11.0	19.0	19.8	1.5	22.0
50	279	485	500	38	550
2½	13.0	22.0	22.8	1.87	24.0
65	330	560	580	48	600
3	14.5	23.8	24.8	2.25	24.0
80	368	605	630	57	600
4	18.0	31.0		2.87	18.0
100	457	790		73	460
6	24.0	47.3		4.37	24.0
150	610	1200		111	610
8	30.0	61.8		5.75	24.0
200	762	1570		146	610
10	36.0	69.5		7.25	24.0
250	914	1765		184	610
12	41.0	80.0		8.62	32.0
300	1041	2030		219	800



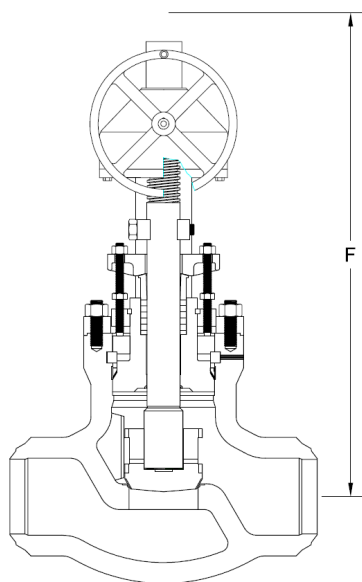
PRESSURE SEAL NON-RETURN VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (5 - 300 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV
2	25.4		46		50	26.7		80		40	27.7		85		40	30.3		111		25
50	645		21			678		36			700		39			770		50		
2½	25.4		83		75	26.7		120		60	29.6		136		60	31.0		169		40
65	645		38			678		54			746		62			787		77		
3	27.7		106		110	30.9		187		100	32.3		199		90	33.8		261		60
80	704		48			784		85			820		90			859		118		
4	32.0		182		200	36.0		288		190	40.0		430		160	41.5		567		100
100	814		83			916		131			1017		195			1057		257		
6	38.9		359		480	45.9		624		440	49.1		922		380	59.9		1240		250
150	987		163			1164		283			1248		418			1522		562		
8	51.5		581		850	62.6		1042		770	65.6		1521		670	70.8		2056		450
200	1306		263			1592		473			1668		690			1799		932		
10	61.6		843		1300	67.8		1576		1200	72.9		2468		1000	88.2		3378		720
250	1562		382			1722		715			1854		1119			2239		1532		
12	68.8		1144		2000	71.8		2210		1800	83.2		3613		1500	97.9		4056		1100
300	1746		519			1824		1002			2114		1639			2487		1839		



F = Dismantling dimension

WT = Weight

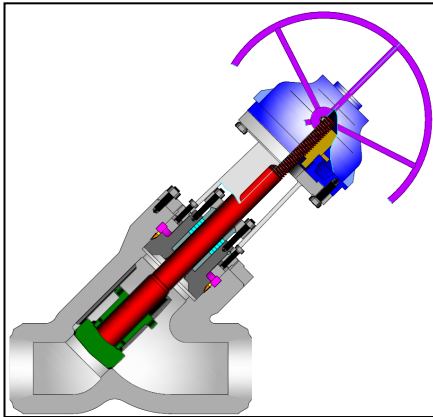
CV = Flow coefficient

PRESSURE SEAL Y-PATTERN NON-RETURN VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500



Class	Fig. No. (1)
600	1684
900	1984
1500	1184
2500	1284

(1) An option code is needed to specify a y-pattern. See page 5 for more details.

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Wall thickness per heavy wall API 600 requirements.
- Seat faces lapped for smooth finish and superior sealing.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Set Screw	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Groove Pin	Steel			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Body / Bonnet / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Body / Bonnet / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Bypass, drain and other auxiliary connections
 - » Gear, motor, and cylinder actuators available
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as specified

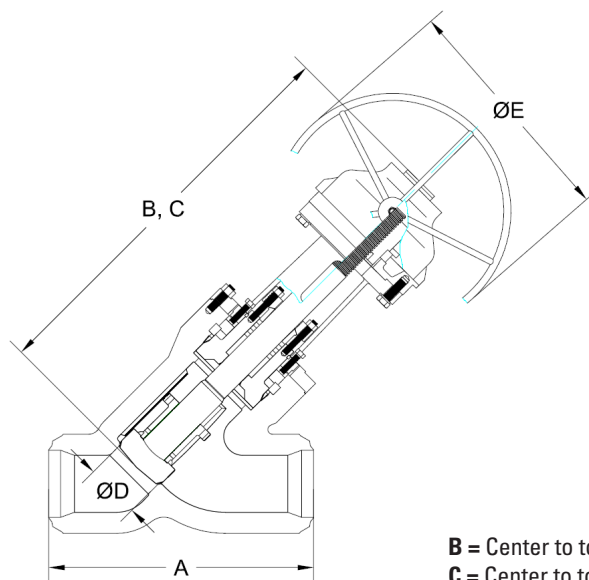
NON-RETURN VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE	ASME 600					ASME 900					ASME 1500				
	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
2	11.5	16.9	17.5	2.00	10.0	8.5	16.9	17.5	1.87	12.0	8.5	19.0	19.8	1.87	12.0
50	178	430	445	51	250	216	430	445	48	300	216	483	503	48	300
2½	13.0	18.1	19.0	2.50	12.0	10.0	18.9	19.8	2.25	14.0	10.0	21.9	21.8	2.25	18.0
65	216	460	485	64	300	254	480	503	57	350	254	556	554	57	450
3	10.0	19.5	20.5	3.00	12.0	12.0	22.0	23.0	2.87	14.0	12.0	24.3	25.3	2.75	22.0
80	254	495	520	76	300	305	559	584	73	350	305	617	643	70	550
4	12.0	24.1	25.5	4.00	18.0	14.0	27.1	28.5	3.87	18.0	16.0	31.3		3.62	18.0
100	305	611	651	102	450	356	688	724	98	450	406	795		92	460
6	18.0	30.0	32.0	6.00	20.0	20.0	38.5		5.75	24.0	22.0	42.3		5.37	24.0
150	457	762	813	152	500	508	978		146	610	559	1074		136	610
8	23.0	42.0	44.8	7.87	24.0	26.0	54.5		7.50	24.0	28.0	57.0		7.00	24.0
200	584	1067	1138	200	600	660	1384		191	610	711	1448		178	610
10	28.0	53		9.75	24.0	31.0	59.5		9.37	24.0	34.0	65.5		8.75	24.0
250	711	1346		248	610	787	1511		238	610	864	1664		222	610
12	32.0	58.5		11.75	24.0	36.0	62.3		11.12	24.0	39.0	73.0		10.37	32.0
300	813	1486		298	610	914	1582		282	610	991	1854		263	800

(1) Gear operators standard for 10" and up for class 600, 6" and up for class 900, and 4" and up for class 1500 and 2500.

SIZE	ASME 2500				
	A	B(1)	C(1)	D	E
2	11.0	20.0	20.8	1.50	22.0
50	279	508	528	38	550
2½	13.0	53.0	53.8	1.87	24.0
65	330	584	1367	48	600
3	14.5	24.8	25.8	2.25	24.0
80	368	630	655	57	600
4	18.0	33.0		2.87	18.0
100	457	838		73	460
6	24.0	49.3		4.37	24.0
150	610	1252		111	610
8	30.0	63.8		5.75	24.0
200	762	1621		146	610
10	36.0	72.5		7.25	24.0
250	914	1842		184	610
12	41.0	83.0		8.62	32.0
300	1041	2108		219	800



B = Center to top closed
C = Center to top open

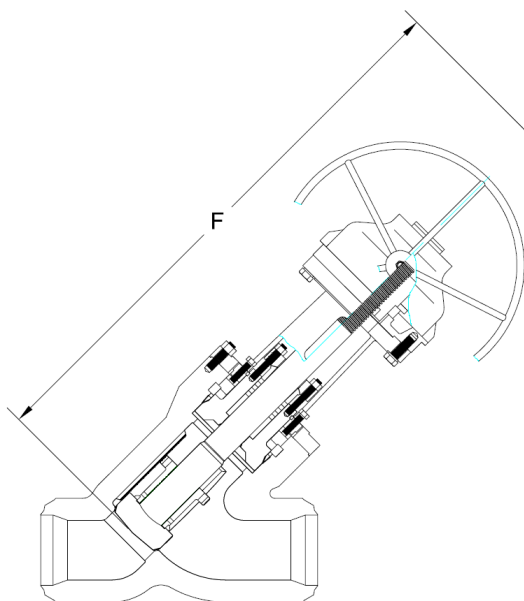
PRESSURE SEAL Y-PATTERN NON-RETURN VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600				ASME 900				ASME 1500				ASME 2500			
in mm	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV
2	26.4		49	100	27.7		84	90	28.7		89	90	31.3		117	60
50	671		22		704		38		729		40		795		53	
2½	26.4		87	170	27.7		126	130	30.6		143	130	32.0		177	95
65	671		40		704		57		777		65		813		80	
3	28.7		111	240	31.9		197	220	33.3		211	200	34.8		277	130
80	729		50		810		89		846		96		884		125	
4	34.0		191	440	38.0		305	410	42.0		456	360	43.5		601	230
100	864		87		965		138		1067		207		1105		273	
6	40.9		381	1050	47.9		661	960	51.1		986	840	61.9		1327	560
150	1039		173		1217		300		1298		447		1572		602	
8	53.5		616	1900	64.6		1105	1700	67.6		1628	1500	72.8		2200	1000
200	1359		279		1641		501		1717		738		1949		998	
10	64.6		894	2900	70.8		1671	2700	75.9		2641	2300	91.2		3648	1600
250	1641		405		1798		758		1928		1198		2316		1655	
12	71.8		1213	4300	74.8		2365	3900	86.2		3902	3400	100.9		4380	2300
300	1824		550		1900		1072		2189		1770		2563		1987	



F = Dismantling dimension

WT = Weight

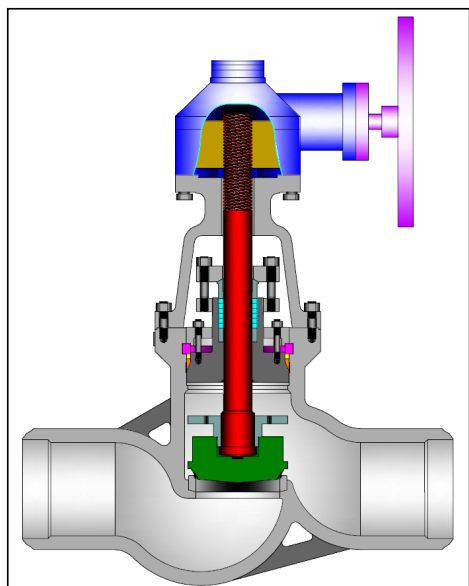
CV = Flow coefficient

PRESSURE SEAL GLOBE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500



Class	Fig. No.
600	1631
900	1931
1500	1131
2500	1231

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A+ Stellite 6 Faced
Disc Nut	SST 410			
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Set Screw	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Groove Pin	Steel			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Body / Bonnet / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Body / Bonnet / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Wall thickness per heavy wall API 600 requirements.
- Seat faces lapped for smooth finish and superior sealing.
- Swivel disc for optimal seating and longer seat life.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

- » Bypass, drain and other auxiliary connections
- » Gear, motor, and cylinder actuators available
- » NACE service
- » Special cleaning for applications such as oxygen or chlorine
- » Other options available as Specified

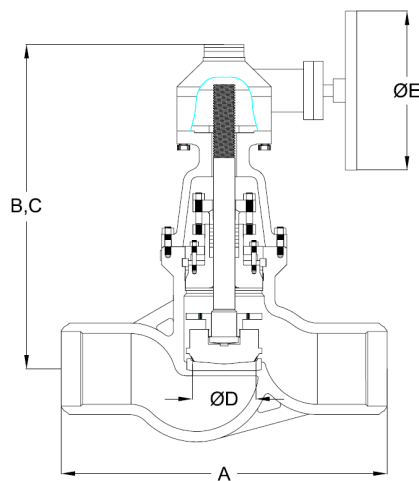
GLOBE VALVE DIMENSIONS

CLASSES 600 - 2500

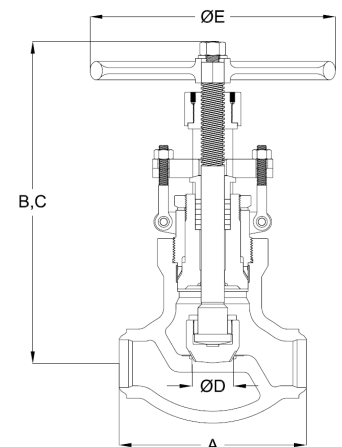
SIZE in mm	ASME 600					ASME 900					ASME 1500				
	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
2	7.0	15.9	16.5	2.00	10	8.5	15.9	16.5	1.87	12	8.5	18.0	18.8	1.87	12
50	178	405	420	51	250	216	405	420	48	300	216	460	475	48	300
2½	8.5	17.1	18.0	2.50	12	10.0	17.9	18.8	2.25	14	10.0	19.9	20.8	2.25	18
65	216	435	460	64	300	254	455	475	57	350	254	505	525	57	450
3	10.0	18.5	19.5	3.00	12	12.0	21.0	22.0	2.87	14	12.0	23.3	24.3	2.87	22
80	254	470	495	76	300	305	535	560	73	350	305	590	615	70	550
4	12.0	22.1	23.5	4.00	18	14.0	25.1	26.5	3.87	18	16.0	29.3		3.62	18
100	305	560	600	102	450	356	640	675	98	450	406	745		92	460
6	18.0	28.0	30.0	6.00	20	20.0	36.5		5.75	24	22.0	40.3		5.37	24
150	457	710	760	152	500	508	925		146	610	559	1025		136	610
8	23.0	40.0	42.8	7.87	24	26.0	52.5		7.50	24	28.0	55.0		7.00	24
200	584	1015	1085	200	610	660	1335		191	610	711	1400		178	610
10	28.0	50.0		9.75	24	31.0	56.5		9.37	24	34.0	62.5		8.75	24
250	711	1270		248	610	787	1435		238	610	864	1590		222	610
12	32.0	55.5		11.75	24	36.0	59.3		11.12	24	39.0	70.0		10.37	32
300	813	1410		298	610	914	1505		282	610	991	1780		263	800

(1) Gear operators standard for 10" and up for class 600, 6" and up for class 900, and 4" and up for class 1500 and 2500.

SIZE in mm	ASME 2500				
	A	B(1)	C(1)	D	E
2	11.0	19.0	19.8	1.50	22
50	279	485	500	38	550
2½	13.0	22.0	22.8	1.87	24
65	330	560	580	48	600
3	14.5	23.8	24.8	2.25	24
80	368	605	630	57	600
4	18.0	31.0		2.87	18
100	457	790		73	460
6	24.0	47.3		4.37	24
150	610	1200		111	610
8	30.0	61.8		5.75	24
200	762	1570		146	610
10	36.0	69.5		7.25	24
250	914	1765		184	610
12	41.0	80.0		8.62	32
300	1041	2030		219	800



B = Center to top closed
C = Center to top open



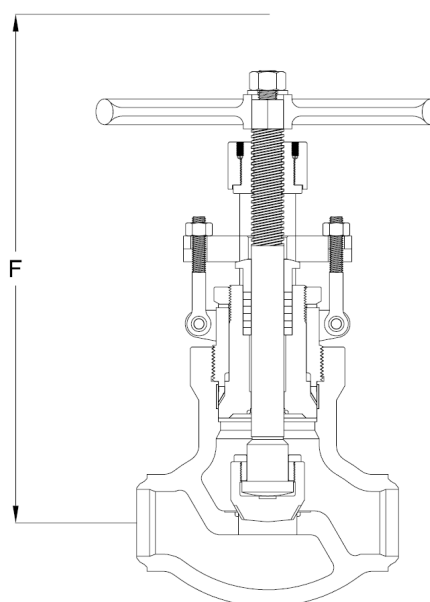
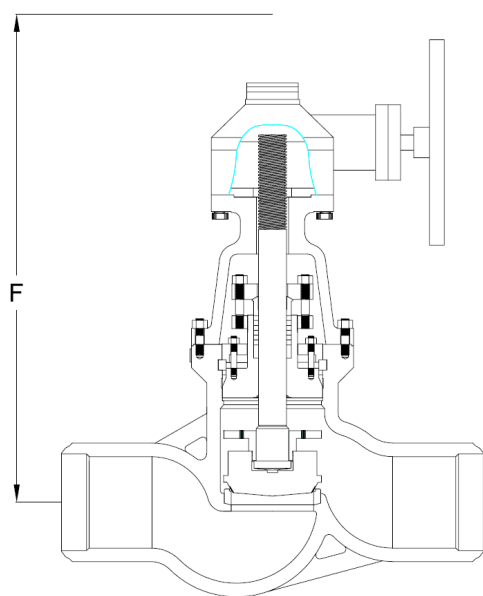
PRESSURE SEAL GLOBE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV
2	25.4		46		50	26.7		80		40	27.7		85		40	30.3		111		25
50	645		21			678		36			700		39			770		50		
2½	25.4		83		75	26.7		120		60	29.6		136		60	31.0		169		40
65	645		38			678		54			746		62			787		77		
3	27.7		106		110	30.9		187		100	32.3		199		90	33.8		261		60
80	704		48			784		85			820		90			859		118		
4	32.0		182		200	36.0		288		190	40.0		430		160	41.5		567		100
100	814		83			916		131			1017		195			1057		257		
6	38.9		359		480	45.9		624		440	49.1		922		380	59.9		1240		250
150	987		163			1164		283			1248		418			1522		562		
8	51.5		581		850	62.6		1042		770	65.6		1521		670	70.8		2056		450
200	1306		263			1592		473			1668		690			1799		932		
10	61.6		843		1300	67.8		1576		1200	72.9		2468		1000	88.2		3378		720
250	1562		382			1722		715			1854		1119			2239		1532		
12	68.8		1144		2000	71.8		2210		1800	83.2		3613		1500	97.9		4056		1100
300	1746		519			1824		1002			2114		1639			2487		1839		



F = Dismantling dimension

WT = Weight

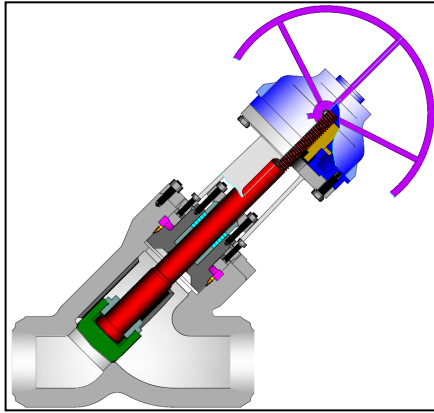
CV = Flow coefficient

PRESSURE SEAL Y-PATTERN GLOBE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500



Class	Fig. No. (1)
600	1631
900	1931
1500	1131
2500	1231

(1) An option code is needed to specify a y-pattern. See page 5 for more details.

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome stem (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Wall thickness per heavy wall API 600 requirements.
- Seat faces lapped for smooth finish and superior sealing.
- Swivel disc for optimal seating and longer seat life.
- Each valve is shell, seat and backseat pressure tested per industry standard API 598.
- Gland is two piece gland / gland flange design for optimal alignment and uniform packing compression.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Valve sizes 4" and smaller have bonnet take up ring design instead of support plate design.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB (STANDARD)	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Yokearm	A216 Gr. WCB			
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Disc Nut	SST 410			
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Stem	A182 F6a			
Stem Bushing	A 439 Ductile NI-Resist Gr. D2			
Stem Bushing Set Screw	Steel			
Gland Flange	A216 Gr. WCB			
Eye Bolt	A193 Gr. B7			
Eye Bolt Nut	A194 Gr. 2H			
Groove Pin	Steel			
Gland	SST 410			
Packing	Graphite			
Packing Washer / Packing Spacer	SST 410			
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Hand Wheel	Malleable Iron or Steel			
Hand Wheel Nut	Steel			
Body / Bonnet / Yoke Stud	A193 Gr. B7	A193 Gr. B16		
Body / Bonnet / Yoke Nut	A194 Gr. 2H	A194 Gr. 7		

- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Bypass, drain and other auxiliary connections
 - » Gear, motor, and cylinder actuators available
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as specified

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

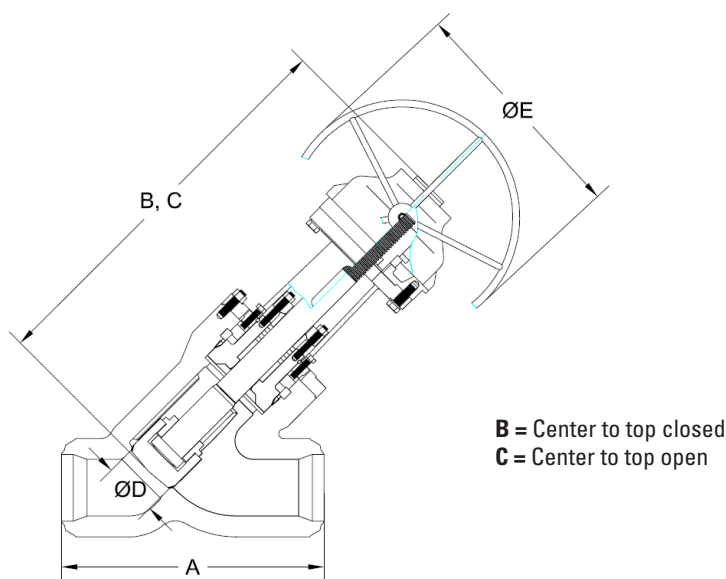
GLOBE VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE	ASME 600					ASME 900					ASME 1500				
in	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E	A	B(1)	C(1)	D	E
mm															
2	7.0	16.9	17.5	2.00	10	8.5	16.9	17.5	1.87	12	8.5	19.0	19.8	1.87	12
50	178	430	445	51	250	216	430	445	48	300	216	483	503	48	300
2½	8.5	18.1	19.0	2.50	12	10.0	18.9	19.8	2.25	14	10.0	21.9	21.8	2.25	18
65	216	460	485	64	300	254	480	503	57	350	254	556	554	57	450
3	10.0	19.5	20.5	3.00	12	12.0	22.0	23.0	2.87	14	12.0	24.3	25.3	2.75	22
80	254	495	520	76	300	305	559	584	73	350	305	617	643	70	550
4	12.0	24.1	25.5	4.00	18	14.0	27.1	28.5	3.87	18	16.0	31.3		3.62	18
100	305	611	651	102	450	356	688	724	98	450	406	795		92	460
6	18.0	30.0	32.0	6.00	20	20.0	38.5		5.75	24	22.0	42.3		5.37	24
150	457	762	813	152	500	508	978		146	610	559	1074		136	610
8	23.0	42.0	44.8	7.87	24	26.0	54.5		7.5	24	28.0	57.0		7.00	24
200	584	1067	1138	200	610	660	1384		191	610	711	1448		178	610
10	28.0	53		9.75	24	31.0	59.5		9.37	24	34.0	65.5		8.75	24
250	711	1346		248	610	787	1511		238	610	864	1664		222	610
12	32.0	58.5		11.75	24	36.0	62.3		11.12	24	39.0	73.0		10.37	32
300	813	1486		298	610	914	1582		282	610	991	1854		263	800

(1) Gear operators standard for 10" and up for class 600, 6" and up for class 900, and 4" and up for class 1500 and 2500.

SIZE	ASME 2500				
in	A	B(1)	C(1)	D	E
mm					
2	11	20	20.8	1.5	22
50	279	508	528	38	550
2½	13	53	53.8	1.87	24
65	330	584	1367	48	600
3	14.5	24.8	25.8	2.25	24
80	368	630	655	57	600
4	18	33		2.87	18
100	457	838		73	460
6	24	49.3		4.37	24
150	610	1252		111	610
8	30	63.8		5.75	24
200	762	1621		146	610
10	36	72.5		7.25	24
250	914	1842		184	610
12	41	83		8.62	32
300	1041	2108		219	800



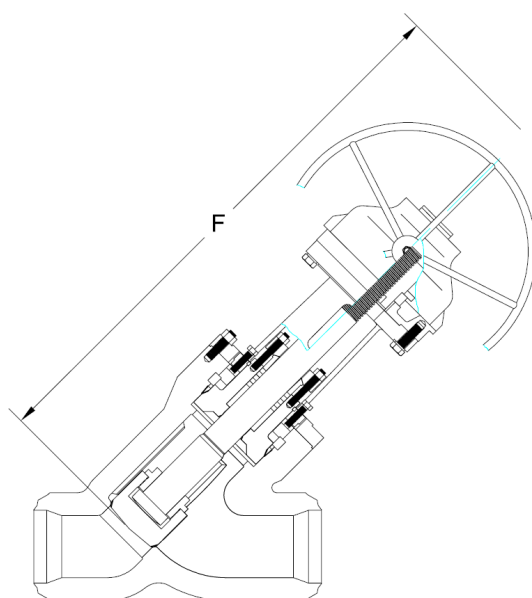
PRESSURE SEAL Y-PATTERN GLOBE VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV	
2	26.4		49	100		27.7		84	90		28.7		89	90		31.3		117	60	
50	671		22			704		38			729		40			795		53		
2½	26.4		87	170		27.7		126	130		30.6		143	130		32.0		177	95	
65	671		40			704		57			777		65			813		80		
3	28.7		111	240		31.9		197	220		33.3		211	200		34.8		277	130	
80	729		50			810		89			846		96			884		125		
4	34.0		191	440		38.0		305	410		42.0		456	360		43.5		601	230	
100	864		87			965		138			1067		207			1105		273		
6	40.9		381	1050		47.9		661	960		51.1		986	840		61.9		1327	560	
150	1039		173			1217		300			1298		447			1572		602		
8	53.5		616	1870		64.6		1105	1700		67.6		1628	1500		72.8		2200	1000	
200	1359		279			1641		501			1717		738			1949		998		
10	64.6		894	2900		70.8		1671	2700		75.9		2641	2300		91.2		3648	1600	
250	1641		405			1798		758			1928		1198			2316		1655		
12	71.8		1213	4300		74.8		2365	3900		86.2		3902	3400		100.9		4380	2300	
300	1824		550			1900		1072			2189		1770			2563		1987		



F = Dismantling dimension

WT = Weight

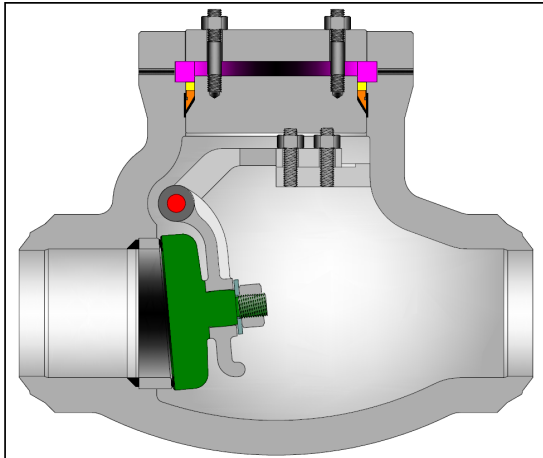
CV = Flow coefficient

PRESSURE SEAL SWING CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500



Class	Figure Number
600	1661
900	1961
1500	1161
2500	1261

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Gasket	SST 304L			
Carrier	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Carrier Pin	SST 410			
Disc Nut	Series 300 SST			
Disc Carrier Hanger	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc Carrier Hanger Bolts	A193 Gr. B7	A193 Gr. B16		
Body / Cap Stud	A193 Gr. B7	A193 Gr. B16		
Body / Cap Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

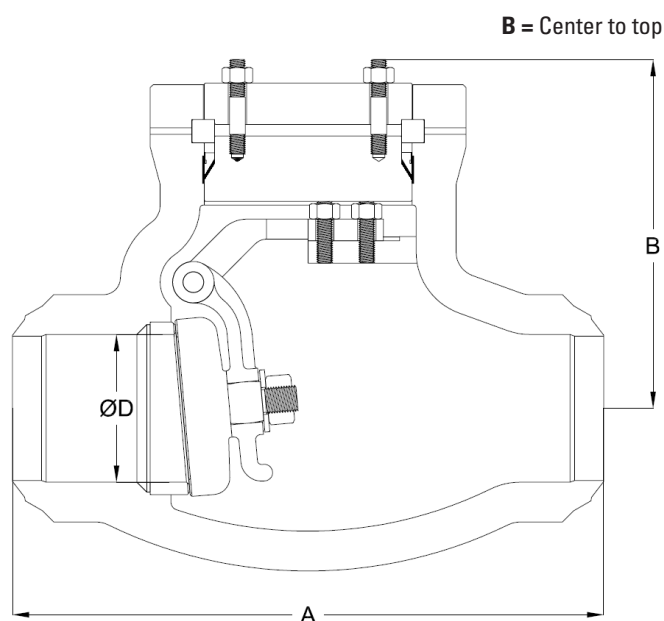
- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome carrier pin (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 table A-1.
- Seat faces lapped for smooth finish and superior sealing.
- Wall thickness per heavy wall API 600 requirements.
- Swivel disc for improved seat alignment and longer life.
- Each valve is shell and seat pressure tested per industry standard API 598.
- Check valves are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.
- Carrier Pin is confined within the body wall and is not accessible from the exterior, thus no side body penetrations, eliminating a common leak path.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Drain and other auxiliary connections
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as specified

SWING CHECK VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE	ASME 600			ASME 900			ASME 1500		
in	A	B	D	A	B	D	A	B	D
mm									
2	7	6.8	2.00	8.5	8.6	1.87	8.5	8.7	1.87
50	178	172	51	216	218	48	216	221	48
3	10	8.8	3.00	12.0	10.2	2.87	12.0	10.2	2.75
80	254	224	76	305	259	73	305	259	70
4	12	11.1	4.00	14.0	11.7	3.87	16.0	12.2	3.62
100	305	282	102	356	297	98	406	310	92
6	18	13.0	6.00	20.0	14.3	5.75	22.0	14.5	5.37
150	457	330	152	508	363	146	559	367	136
8	23	14.6	7.87	26.0	16.6	7.50	28.0	18.9	7.00
200	584	370	200	660	422	191	711	480	178
10	28	16.6	9.75	31.0	19.4	9.37	34.0	22.1	8.75
250	711	422	248	787	493	238	864	561	222
12	32	18.2	11.75	36.0	21.7	11.12	39.0	26.3	10.37
300	813	462	299	914	551	282	991	669	263

SIZE	ASME 2500		
in	A	B	D
mm			
2	11.0	9.6	1.50
50	279	244	38
3	14.5	12.4	2.25
80	368	316	57
4	18.0	14.5	2.87
100	457	367	73
6	24.0	16.0	4.37
150	610	408	111
8	30.0	20.1	5.75
200	762	510	146
10	36.0	23.2	7.25
250	914	588	184
12	41.0	26.5	8.62
300	1041	672	219



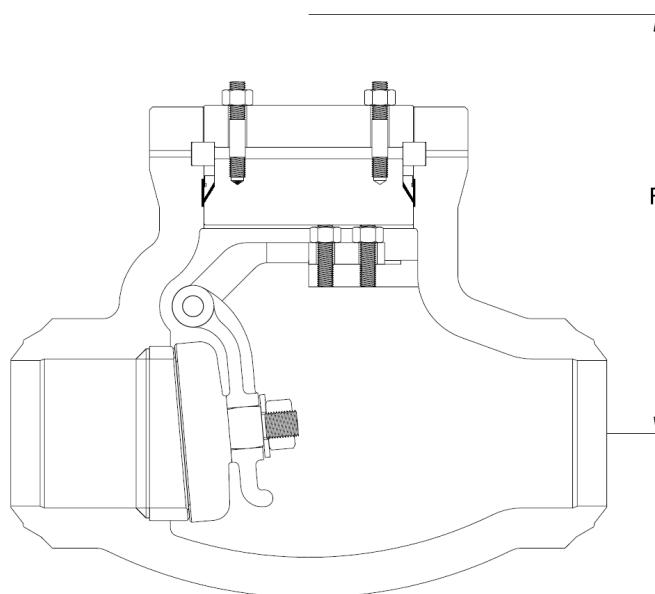
PRESSURE SEAL SWING CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV		F	in mm	WT lb kg	CV	
2	8.8		40	75		10.6		46	65		10.7		46	65		11.6		117	40	
50	224		18			269		21			272		21			295		53		
3	10.8		71	175		12.2		75	160		12.2		93	145		14.4		196	100	
80	274		32			310		34			310		42			366		89		
4	13.1		121	315		14.7		150	300		15.2		163	260		17.5		313	165	
100	333		55			373		68			386		74			445		142		
6	16.0		287	755		17.3		370	700		17.5		514	610		19.0		628	400	
150	406		130			439		168			445		233			483		285		
8	17.6		573	1350		19.6		1019	1220		22.9		1111	1070		24.1		1319	720	
200	447		260			498		462			582		504			612		598		
10	20.6		816	2070		23.4		1599	1910		26.1		1713	1670		27.2		1727	1140	
250	523		370			594		725			663		777			691		783		
12	22.2		1080	3120		25.7		2362	2790		30.3		2547	2430		31.5		3334	1680	
300	564		490			653		1071			770		1155			800		1512		



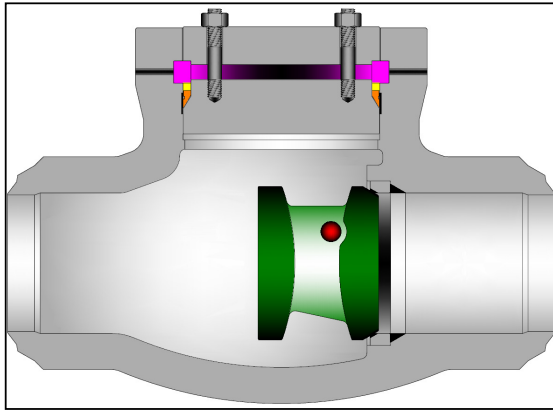
F = Dismantling dimension
WT = Weight
CV = Flow coefficient

PRESSURE SEAL TILTING DISC CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

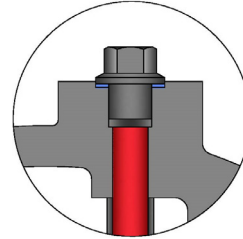
ASME CLASSES 600 - 2500



Class	Figure Number
600	1695
900	1995
1500	1195
2500	1295

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces, and 13% chrome disc pin (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 Table A-1.
- Seat faces lapped for smooth finish and superior sealing.
- Wall thickness per heavy wall API 600 requirements.
- Body and cap joint accurately machined. Gasket details on page 6.
- Each valve is shell and seat pressure tested per industry standard API 598.
- Check valves are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Drain and other auxiliary connections
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as specified



Side Plug Configuration

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Support Plate	Steel			
Gasket	SST 304L			
Disc Pin	SST 410			
Disc Nut	Series 300 SST			
Pin Plug Bolts	A193 Gr. B7	A193 Gr. B16		
Pin Plug Nuts	A194 Gr. 2H	A194 Gr. 7		
Pin Plug Gasket	Graphite Coated SST			
Bonnet Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Nut	A194 Gr. 2H	A194 Gr. 7		

Design Specifications

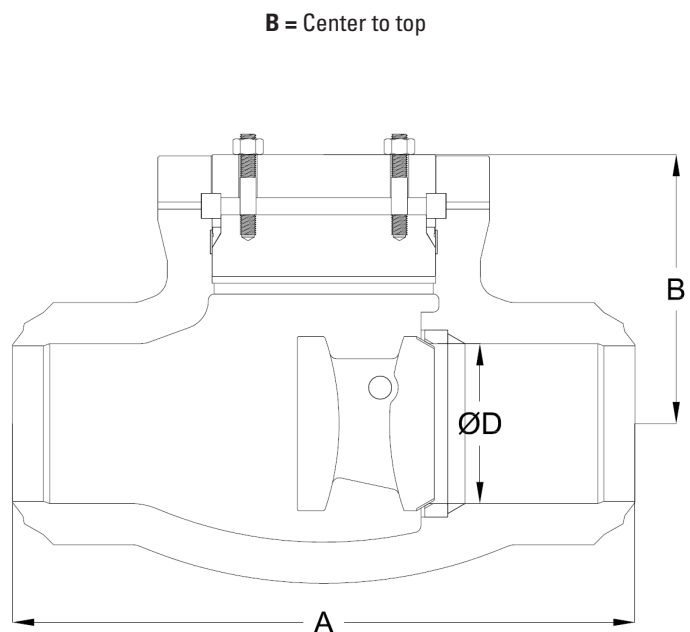
Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

TILTING DISC CHECK VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE in mm	ASME 600			ASME 900			ASME 1500		
	A	B	D	A	B	D	A	B	D
2	7.0	7.5	2.00	8.5	5.6	1.87	8.5	7.6	1.87
50	178	191	51	216	143	48	216	194	48
2½	8.5	7.9	2.50	10.0	8.0	2.25	10	8.1	2.25
65	216	200	64	254	203	57	254	206	57
3	10.0	8.3	3.00	12.0	9.0	2.87	12.0	9.0	2.75
80	254	210	76	305	229	73	305	229	70
4	12.0	9.4	4.00	14.0	9.9	3.87	16.0	9.9	3.62
100	305	238	102	356	251	98	406	251	92
6	18.0	10.6	6.00	20.0	11.6	5.75	22.0	10.3	5.37
150	457	270	152	508	295	146	559	260	136
8	23.0	12.0	7.87	26.0	13.1	7.50	28.0	11.8	7.00
200	584	305	200	660	333	191	711	298	178
10	28.0	13.6	9.75	31.0	15.1	9.37	34.0	15.9	8.75
250	711	346	248	787	384	238	864	403	222
12	32.0	16.1	11.75	36.0	18.1	11.12	39.0	19.0	10.37
300	813	410	298	914	460	282	991	483	263
14	35.0	17.8	12.87	39.0	19.5	12.25	42.0	20.1	11.37
350	889	451	327	991	495	311	1067	511	289
16	39.0	20.1	14.75	43.0	21.9	14.00	47.0	22.3	13.00
400	991	511	375	1092	556	356	1194	565	330
18	43.0	21.8	16.50	48.0	22.9	15.75	60.5	23.3	14.62
450	1092	552	419	1219	581	400	1537	591	371
20	47.0	23.3	18.25	52.0	24.4	17.50	65.5	24.4	16.37
500	1194	591	464	1321	619	445	1664	619	416
24	55.0	25.4	22.00	61.0	27.4	21.00	76.5	28.9	19.62
600	1397	645	559	1549	695	533	1943	733	498

SIZE in mm	ASME 2500		
	A	B	D
2	11.0	7.3	1.50
50	279	184	38
2½	13.0	7.9	1.87
65	330	200	48
3	14.5	9.4	2.25
80	368	238	57
4	18.0	9.9	2.87
100	457	251	73
6	24.0	11.8	4.37
150	610	298	111
8	30.0	14.6	5.75
200	762	371	146
10	36.0	16.6	7.25
250	914	422	184
12	41.0	21.3	8.62
300	1041	540	219
14	44.0	22.9	9.50
350	1118	581	241
16	49.0	20.5	10.87
400	1245	521	276
18	55.0	24.8	12.25
450	1397	629	311



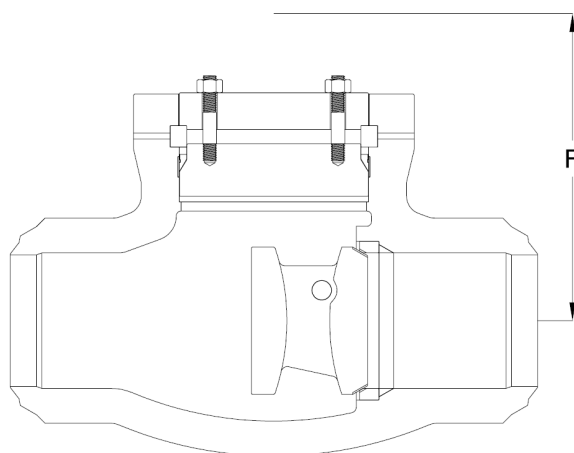
PRESSURE SEAL TILTING DISC CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

2 - 24" (50 - 600 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV
2	10.0		90		90	8.2		120		80	10.2		140		80	10.4		200		50
50	254		41			208		54			259		63			264		91		
2½	11.2		90		145	11.1		120		115	11.4		140		115	11.2		200		80
65	284		41			282		54			290		63			284		91		
3	12.1		150		205	12.5		180		190	12.8		210		175	13.0		240		115
80	307		68			318		82			325		95			330		42		
4	14.5		180		375	14.6		210		350	14.9		245		310	14.8		400		200
100	368		82			371		95			378		111			376		100		
6	17.9		245		900	18.4		400		830	17.7		440		720	17.6		560		480
150	455		111			467		181			450		200			448		235		
8	21.3		460		1600	21.9		505		1450	22.1		555		1270	21.9		970		860
200	541		209			556		229			561		252			557		440		
10	25.4		1100		2500	26.5		1160		2300	26.7		1545		2000	26.6		1655		1400
250	645		499			673		526			678		701			676		751		
12	30.1		1735		3700	31.3		1815		3300	32.2		1980		2900	31.9		2840		2000
300	765		787			795		823			818		898			810		1290		
14	33.9		2365		4500	34.2		2470		4000	33.8		3350		3500	34.8		4230		2400
350	861		1073			869		1120			859		1519			884		1918		
16	38.0		2990		5900	38.7		3125		5300	38.5		4720		4500	36.1		5170		3200
400	965		1356			983		1417			978		2141			917		2345		
18	41.2		3620		7600	42.8		3780		6900	42.3		5475		6000	41.5		6990		4200
450	1046		1642			1087		1714			1074		2483			1054		3170		
20	44.6		4250		9300	45.2		4435		8600	45.6		6500		7500					
500	1133		1927			1148		2011			1158		2948							
24	50.7		5880		14000	52.0		6500		12300	52.4		8900		10800					
600	1288		2667			1321		2948			1331		4036							



F = Dismantling dimension

WT = Weight

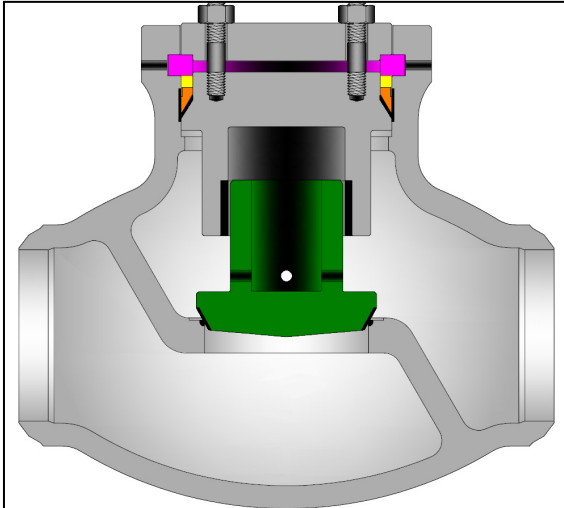
CV = Flow coefficient

PRESSURE SEAL LIFT CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

3 - 12" (80 - 300 mm)

ASME CLASSES 600 - 2500



Class	Figure Number
600	1665
900	1965
1500	1165
2500	1265

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Gasket	SST 304L			
Bonnet Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 table A-1.
- Seat faces lapped for smooth finish and superior sealing.
- Wall thickness per heavy wall API 600 requirements.
- Body and cap joint accurately machined. Gasket details on page 6.
- Each valve is shell and seat pressure tested per industry standard API 598.
- Application: These valves can be used in horizontal line with cap vertical only.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Drain and other auxiliary connections
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as specified

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

LIFE CHECK VALVE DIMENSIONS

(CLASSES 600 - 2500)

SIZE	ASME 600			ASME 900			ASME 1500		
in	A	B	D	A	B	D	A	B	D
mm									
3	10	8.3	3.00	12	8.3	2.87	12	8.5	2.75
80	254	211	76	305	211	73	305	216	70
4	12	10.3	4.00	14	11.3	3.87	16	11.3	3.62
100	305	262	102	356	287	98	406	287	92
6	18	17.3	6.00	20	17.3	5.75	22	17.5	5.37
150	457	439	152	508	439	146	559	445	136
8	23	18.8	7.87	26	20.0	7.50	28	21.0	7.00
200	584	478	200	660	508	191	711	533	178
10	28	23.3	9.75	31	24.5	9.37	34	25.0	8.75
250	711	592	248	787	622	238	864	635	222
12	32	28.0	11.75	36	28.0	11.12	39	29.0	10.37
300	813	711	298	914	711	282	991	737	263

SIZE	ASME 2500		
in	A	B	D
mm			
3	14.5	12.5	2.25
80	368	318	57
4	18.0	15.0	2.87
100	457	381	73
6	24.0	18.3	4.37
150	610	465	111
8	30.0	22.5	5.75
200	762	572	146
10	36.0	25.5	7.25
250	914	648	184
12	41.0	30.0	8.62
300	1041	762	219

B = Center to top

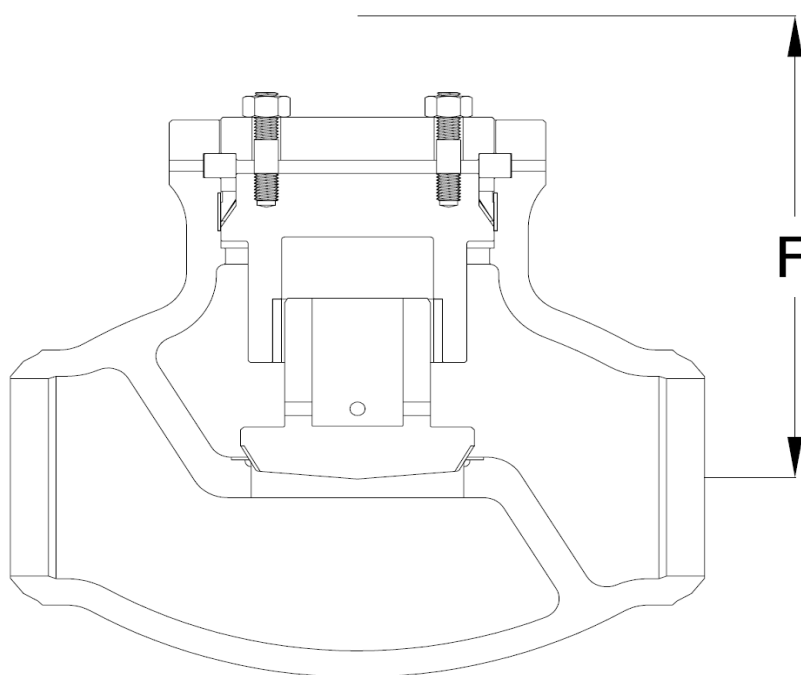
PRESSURE SEAL LIFT CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

3 - 12" (80 - 300 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV	F	in mm	WT	lb kg	CV
3	12.7		86		110	12.7		93		100	13.0		166		90	19.0		294		60
80	323		39			323		42			330		75			483		133		
4	15.7		109		200	17.2		138		190	17.2		241		160	23.0		483		100
100	399		49			437		62			437		109			584		219		
6	26.2		273		480	26.5		518		440	26.8		760		380	28.0		926		250
150	665		124			673		235			681		345			711		420		
8	28.7		641		850	30.5		814		770	32.0		1994		670	34.5		2778		450
200	729		291			775		369			813		904			876		1260		
10	35.7		1091		1300	37.3		1820		1200	39.0		3154		1000	41.0		3512		720
250	907		495			947		825			991		1430			1041		1593		
12	42.8		1495		2000	42.8		2392		1800	46.0		4076		1500	47.0		4878		1100
300	1087		678			1087		1085			1168		1849			1194		2212		



F = Dismantling dimension

WT = Weight

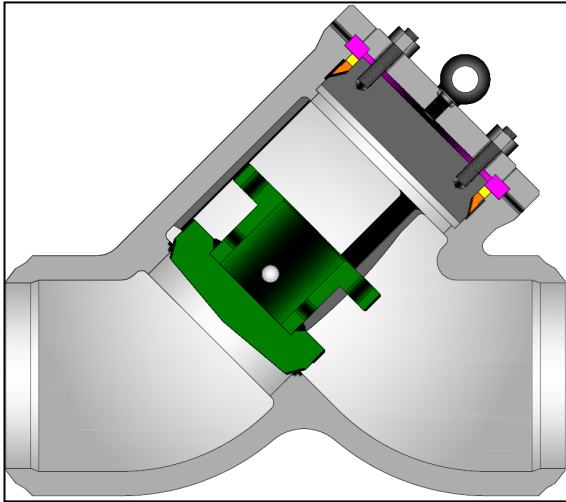
CV = Flow coefficient

PRESSURE SEAL Y-PATTERN LIFT CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

3 - 12" (80 - 300 mm)

ASME CLASSES 600 - 2500



Class	Fig. Number (1)
600	1665
900	1965
1500	1165
2500	1265

(1) An option code is needed to specify a y-pattern. See page 5 for more details.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Gasket	SST 304L			
Bonnet Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Nut	A194 Gr. 2H	A194 Gr. 7		

Design Specifications

Item	Applicable Specification
Wall thickness	ASME B16.34
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

DESIGN FEATURES:

- Standard trim is stellite faced seat and disc seat surfaces (API trim 5). Other trims available on request.
- Valves are full port design per ASME B16.34 table A-1.
- Seat faces lapped for smooth finish and superior sealing.
- Wall thickness per heavy wall API 600 requirements.
- Body and cap joint accurately machined. Gasket details on page 6.
- Each valve is shell and seat pressure tested per industry standard API 598.
- Application: These valves can be used in horizontal line with cap vertical only.
- Weld end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.

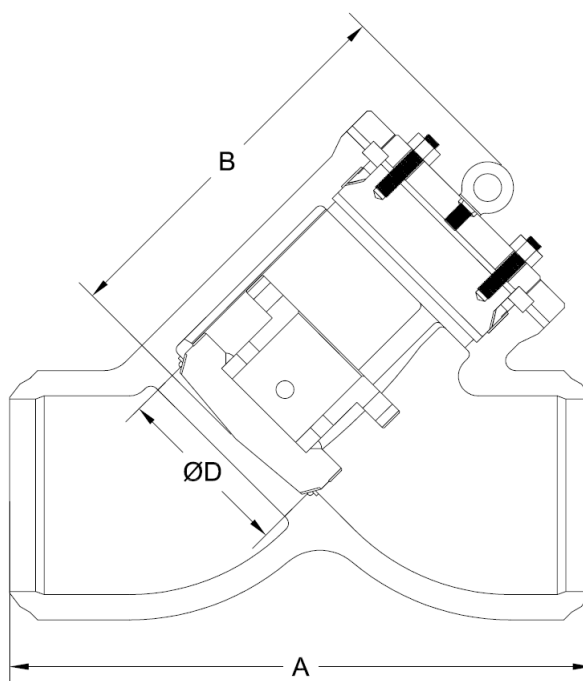
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials such as chrome and stainless steel alloys
 - » Alternate trim materials
 - » Drain and other auxiliary connections
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine
 - » Other options available as Specified

LIFE CHECK VALVE DIMENSIONS

(CLASSES 600 -2500)

SIZE	ASME 600			ASME 900			ASME 1500		
in	A	B	D	A	B	D	A	B	D
mm									
3	10	8.8	3.00	12	8.8	2.87	12	9.0	2.75
80	254	220	76	305	220	73	305	230	70
4	12	10.8	4.00	14	11.8	3.87	16	11.8	3.62
100	305	275	102	356	300	98	406	300	92
6	18	17.8	6.00	20	18.3	5.75	22	18.5	5.37
150	457	450	152	508	465	146	559	470	136
8	23	19.8	7.87	26	21.0	7.50	28	22.0	7.00
200	584	500	200	660	535	191	711	560	178
10	28	24.8	9.75	31	25.5	9.37	34	26.0	8.75
250	711	625	248	787	650	238	864	660	222
12	32	29.5	11.75	36	29.5	11.12	39	30.0	10.37
300	813	750	298	914	750	282	991	760	263
SIZE	ASME 2500								
in	A	B	D						
mm									
3	14.5	13.0	2.25						
80	368	330	57						
4	18.0	16.0	2.87						
100	457	405	73						
6	24.0	19.3	4.37						
150	610	490	111						
8	30.0	24.0	5.75						
200	762	610	146						
10	36.0	27.0	7.25						
250	914	685	184						
12	41.0	32.0	8.62						
300	1041	815	219						

B = Center to top



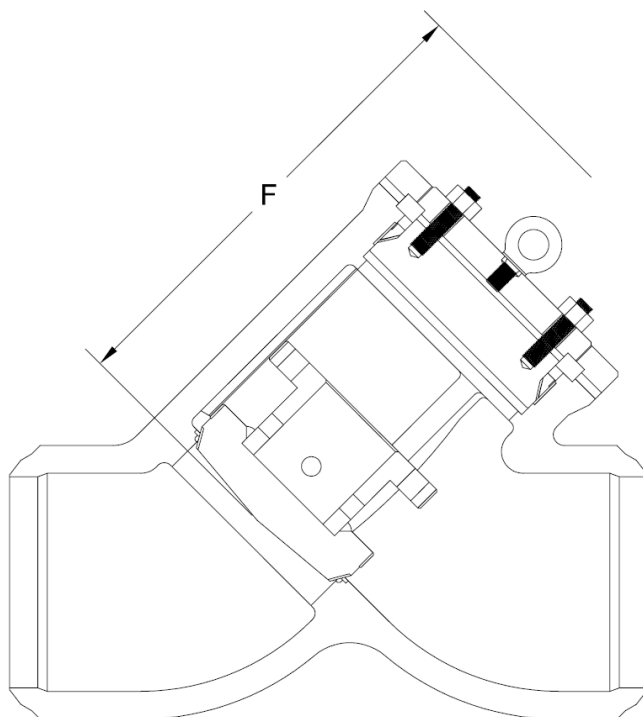
PRESSURE SEAL LIFT CHECK VALVES

CAST CARBON, STAINLESS STEEL OR ALLOY STEEL

3 - 12" (50 - 300 mm)

ASME CLASSES 600 - 2500

SIZE	ASME 600				ASME 900				ASME 1500				ASME 2500			
in mm	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV	F	in mm	WT lb kg	CV
3	13.2		90	240	13.2		98	220	13.5		174	200	19.5		309	130
80	330		41		330		44		345		79		495		140	
4	16.2		114	440	17.7		145	410	17.7		253	360	24.0		512	230
100	413		52		450		66		450		115		608		232	
6	26.7		287	1050	27.5		549	960	27.8		806	840	29.0		982	560
150	675		130		698		249		705		365		735		445	
8	29.7		679	1900	31.5		863	1700	33.0		2094	1500	36.0		2972	1000
200	750		308		876		391		840		950		915		1348	
10	37.2		1156	2900	38.3		1929	2700	40.5		3758	2300	42.0		3375	1600
250	938		525		975		875		1028		1705		1067		1531	
12	44.3		1585	4300	44.3		2559	3900	48.0		4361	3400	48.0		5268	2300
300	1125		719		1125		1161		1220		1978		1223		2390	



F = Dismantling dimension

WT = Weight

CV = Flow coefficient