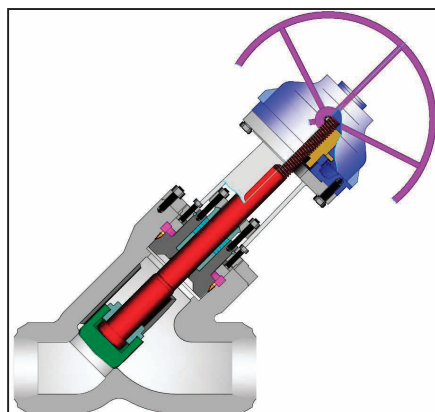


STANDARD MATERIALS (Other materials available)



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.

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		

- **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
 - 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

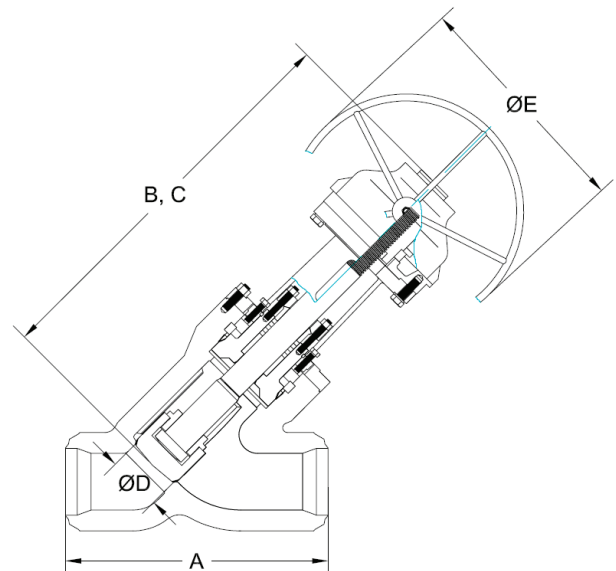
GLOBE VALVE DIMENSIONS (CLASS 600—2500).

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	7.00	16.9	17.5	2.00	10	8.50	16.9	17.5	1.87	12	8.50	19.0	19.8	1.87	12
50	178	430	445	51	250	216	430	445	48	300	216	483	503	48	300
2½	8.50	18.1	19.0	2.50	12	10.00	18.9	19.8	2.25	14	10.00	21.9	21.8	2.25	18
65	216	460	485	64	300	254	480	503	57	350	254	556	554	57	450
3	10.00	19.5	20.5	3.00	12	12.00	22.0	23.0	2.87	14	12.00	24.3	25.3	2.75	22
80	254	495	520	76	300	305	559	584	73	350	305	617	643	70	550
4	12.00	24.1	25.5	4.00	18	14.00	27.1	28.5	3.87	18	16.00	31.3		3.62	18
100	305	611	651	102	450	356	688	724	98	450	406	795		92	460
6	18.00	30.0	32.0	6.00	20	20.00	38.5		5.75	24	22.00	42.3		5.37	24
150	457	762	813	152	500	508	978		146	610	559	1074		136	610
8	23.00	42.0	44.8	7.87	24	26.00	54.5		7.50	24	28.00	57.0		7.00	24
200	584	1067	1138	200	610	660	1384		191	610	711	1448		178	610
10	28.00	53.0		9.75	24	31.00	59.5		9.37	24	34.00	65.5		8.75	24
250	711	1346		248	610	787	1511		238	610	864	1664		222	610
12	32.00	58.5		11.75	24	36.00	62.3		11.12	24	39.00	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	11.00	20.0	20.8	1.50	22
50	279	508	528	38	550
2½	13.00	53.0	53.8	1.87	24
65	330	584	1367	48	600
3	14.50	24.8	25.8	2.25	24
80	368	630	655	57	600
4	18.00	33.0		2.87	18
100	457	838		73	460
6	24.00	49.3		4.37	24
150	610	1252		111	610
8	30.00	63.8		5.75	24
200	762	1621		146	610
10	36.00	72.5		7.25	24
250	914	1842		184	610
12	41.00	83.0		8.62	32
300	1041	2108		219	800

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



PRESSURE SEAL Y-PATTERN GLOBE VALVES
CAST CARBON , STAINLESS STEEL OR ALLOY STEEL
2 TO 12" (50 TO 300 mm)
ASME CLASSES 600 TO 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in	F	in	WT	lb	C _v	F	in	WT	lb	C _v	F	in	WT	lb	C _v	F	in	WT	lb	C _v
mm		mm		kg			mm		kg			mm		kg			mm		kg	
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

C_v = Flow coefficient

