



**Description:** Bolted bonnet globe valves  
Outside screw and yoke  
Rising stem with plug type disc

**Design Standards:** BS1873  
ASME B16.34

**Wall Thickness:** API600

**Face to Face:** ANSI B16.10

**End Connection:** Raised face  
Ring type joint  
ANSI B16.5  
ASME B16.47 series A or B  
BS4504 PN16, 25, 40, 64, etc  
BS10 table D, E, F, G, H, etc  
Undrilled  
Butt weld ANSI B16.25

**Marking:** MSS-SP-25



Bill of Materials and Parts for standard material configurations. (Other materials see page 20-21)					
Part Name	ASTM Specifications (Specs.-Grades/Types)				
	A216	A352	A217		A351
	WCB	LCC	WC6	C5	CF8M
Body	A216-WCB	A352-LCC	A217-WC6	A217-C5	A351-CF8M
Seat Ring	A105, LF2, 316, 304				
Seat Ring Surface	13Cr, HF(STELLITE), 316, 304, Monel				
Disc	A216-WCB	A352-LCC	A217-WC6	A217-C5	A351-CF8M
Disc Sealing Surface	13Cr, HF(STELLITE), 316, 304, Monel				
Disc Thrust Plate	13Cr, 316, 304				
Disc Nut	13Cr, 316, 304				
Stem	13Cr, 316, 304, 17-4PH, Monel				
Bolting	A194-2H/A193-B7	A194-4/A320L7	A194-2H/A193-B7	A194-2H/A193-B7	A194-8/A193-B8
Bonnet Gasket	Soft Iron, Spiral Wound				
Backseat Bushing	13Cr, 316, 304				
Stem Packing	Braided Graphite & Die Formed Graphite Ring				
Bonnet	A216-WCB	A352-LCC	A217-WC6	A217-C5	A351-CF8M
Gland	13Cr, 316, 304				
Gland Flange	A216-WCB	A352-LCC	A217-WC6	A217-C5	A351-CF8M
Stem Nut	ASTM A439 GR D2C				
Screw	Carbon Steel				316
Handwheel	Malleable Iron				
Handwheel Nut	Carbon Steel				316
Handwheel Washer	Carbon Steel				316

ANSI Globe Valves **Class 150**

Dimensions and Weights											*Gear Operated
Nom Size	Face to Face RF		Face to Face RTJ		Face to Face BW		Height*		Handwheel Diameter <sup>†</sup>	Weight <sup>†</sup>	
	in	mm	in	mm	in	mm	in	mm			
2	8.00	203	8.50	216	8.00	203	16.12	410	200	22	
2½	8.50	216	9.00	229	8.50	216	17.00	432	200	30	
3	9.50	241	10.00	254	9.50	241	17.68	450	250	42	
4	11.50	292	12.00	305	11.50	292	19.68	500	250	60	
5	14.00	356	14.50	368	14.00	356	21.19	538	300	77	
6	16.00	406	16.50	419	16.00	406	21.62	550	350	101	
8	19.50	495	20.00	508	19.50	495	24.43	620	400	161	
10	24.50	622	25.00	635	24.50	622	30.00	762	750	308	
12	27.50	698	28.00	711	27.50	698	33.88	860	750	410	
14*	31.00	787	31.50	800	31.00	787	56.00	1442	GO	610	
16*	36.00	914	36.50	927	36.00	914	64.00	1625	GO	880	
18*	38.50	977	39.00	990	38.50	977	71.18	1820	GO	1150	
20*	38.50	977	39.00	990	38.50	977	79.64	2023	GO	1650	
24*	51.00	1295	51.50	1308	51.00	1295	87.72	2228	GO	2200	

ANSI Globe Valves **Class 300**

Dimensions and Weights											*Gear Operated
Nom Size	Face to Face RF		Face to Face RTJ		Face to Face BW		Height*		Handwheel Diameter <sup>†</sup>	Weight <sup>†</sup>	
	in	mm	in	mm	in	mm	in	mm			
2	10.50	267	11.13	282	10.50	267	16.56	420	200	31	
2½	11.50	292	12.13	308	11.50	292	17.13	435	200	40	
3	12.50	318	13.13	333	12.50	318	17.68	450	250	58	
4	14.00	356	14.63	371	14.00	356	20.50	520	250	86	
5	15.75	400	16.38	416	15.75	400	24.38	620	400	130	
6	17.50	446	18.13	460	17.50	446	25.56	650	400	150	
8	22.00	559	22.63	575	22.00	559	31.50	800	400	397	
10	24.50	622	25.13	638	24.50	622	41.00	1040	500	527	
12	28.00	711	28.63	727	28.00	711	44.88	1140	600	608	
14*	33.00	838	33.62	854	33.00	838	50.59	1285	GO	630	
16*	34.00	863	34.61	879	34.00	863	56.30	1430	GO	880	

ANSI Globe Valves **Class 600**

Dimensions and Weights											*Gear Operated
Nom Size	Face to Face RF		Face to Face RTJ		Face to Face BW		Height*		Handwheel Diameter <sup>†</sup>	Weight <sup>†</sup>	
	in	mm	in	mm	in	mm	in	mm			
2	11.50	292	11.63	295	11.50	292	16.75	425	250	57	
2½	13.00	330	13.13	333	13.00	330	19.75	502	300	73	
3	14.00	356	14.13	359	14.00	356	20.50	521	350	89	
4	17.00	432	17.13	435	17.00	432	24.38	620	450	149	
6	22.00	559	22.13	562	22.00	559	34.88	886	560	417	
8	26.00	660	26.13	663	26.00	660	36.69	932	630	542	
10*	31.00	788	31.13	790	31.00	788	41.00	1040	GO	700	
12*	33.00	838	33.13	841	33.00	838	50.38	1280	GO	900	

ANSI Globe Valves **Class 900**

Dimensions and Weights											*Gear Operated
Nom Size	Face to Face RF		Face to Face RTJ		Face to Face BW		Height*		Handwheel Diameter <sup>†</sup>	Weight <sup>†</sup>	
	in	mm	in	mm	in	mm	in	mm			
2	14.50	368	14.63	371	14.50	368	23.63	600	300	87	
2½	16.50	419	16.63	422	16.50	419	26.00	660	350	130	
3	15.00	381	15.13	384	15.00	381	28.13	665	350	122	
4	18.00	457	18.13	460	18.00	457	31.50	800	500	182	
6	24.00	610	24.13	613	24.00	610	40.00	1015	600	434	
8	29.00	737	29.13	740	29.00	737	45.13	1145	600	730	
10*	33.00	838	33.15	842	33.00	838	50.31	1278	GO	1231	
12*	38.00	965	38.22	971	38.00	965	55.55	1411	GO	1568	

ANSI Globe Valves **Class 1500**

Dimensions and Weights										*Gear Operated
Nom Size	Face to Face RF		Face to Face RTJ		Face to Face BW		Height*		Handwheel Diameter†	Weight†
	in	mm	in	mm	in	mm	in	mm		
2	14.50	368	14.62	371	14.50	368	21.50	546	320	87
2½	16.50	419	16.60	422	16.50	419	23.20	589	350	168
3	18.50	470	18.62	473	18.50	470	28.00	711	440	250
4	21.50	546	21.62	549	21.50	546	28.25	718	500	435
6	27.75	705	27.87	708	27.75	705	35.04	890	630	540
8*	32.75	832	32.87	835	32.75	832	48.82	1240	GO	970
10*	39.00	991	39.12	994	39.00	991	65.00	1651	GO	1520
12*	44.50	1130	44.62	1133	44.50	1130	73.62	1870	GO	1960

\* Height dimension is from Centreline of valve to top of handwheel in open position.

† These weights and dimensions are for guidance only.