Gate, Globe & Check Valves



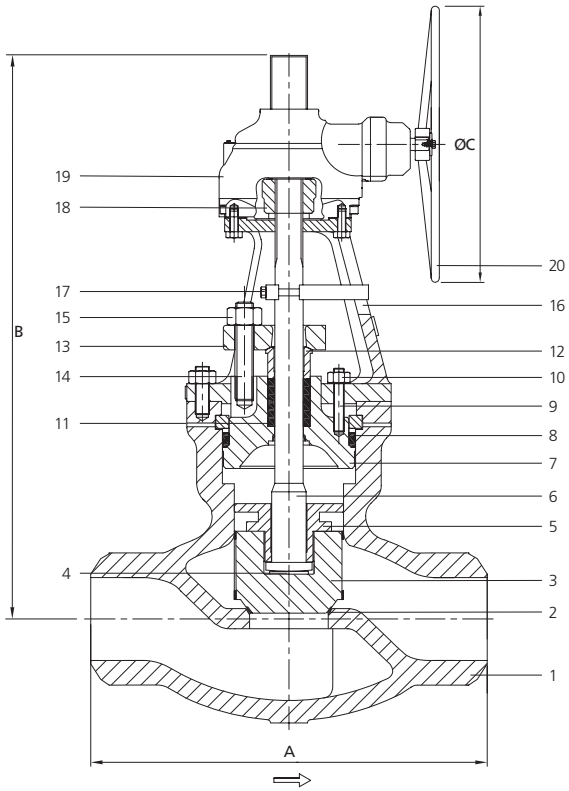
ASME Class 150 to 4500 | ½″ to 42″ (15 mm to 1050 mm)
ASME B16.34

L&T Valves

Globe Valves - ASME Class 600 to 3500 (ASME B16.34)

L&T manufactures high-pressure globe valves in ASME classes ranging from 600 to 3500. These valves conform to ASME B16.34 and feature a pressure-seal body-bonnet connection.





Materials of Construction

No.	Components	Materials			
		WCC	WC6	WC9	C12A
1	Body	A216 Gr. WCC + HF	A217 Gr. WC6 + HF	A217 Gr. WC9 + HF	A217 Gr. C12A+ HF
2	Seat	Insitu on Body + Stellite #6			
3	Disc	A182 Gr. F6a/ A105N + HF	A182 Gr. F11 + HF	A182 Gr. F22 + HF	A182 Gr. F91 + HF
4	Disc Washer	A276 Type 410			
5	Disc Nut	A276 Type 410			
6	Stem	A182 Gr. F6a	A182 Gr. F6a	A182 Gr. F6a	A479 Type XM-19
7	Bonnet	A216 Gr. WCC/ A105N + HF	A217 Gr. WC6/ A182 Gr. F11 + HF	A217 Gr. WC9/ A182 Gr. F22 + HF	A217 Gr. C12A / A182 Gr. F91 + HF
8	Gasket	Graphite			
9	Stud	A193 Gr. B7	A193 Gr. B16	A193 Gr. B16	A193 Gr. B16
10	Hex Nut	A194 Gr. 2H	A194 Gr. 7	A194 Gr. 7	A194 Gr. 7
11	Packing	Graphite with Braided end-rings			
12	Gland	A276 Type 410	A276 Type 410	A276 Type 410	A276 Type 316
13	Gland Flange	A216 Gr. WCC/ A105N	A217 Gr. WC6/ A182 Gr. F11	A217 Gr. WC9/ A182 Gr. F22	A217 Gr. C12A/ A182 Gr. F91
14	Gland Stud	A193 Gr. B7	A193 Gr. B16	A193 Gr. B16	A193 Gr. B16
15	Gland Nut	A194 Gr. 2H	A194 Gr. 7	A194 Gr. 7	A194 Gr. 7
16	Yoke	A216 Gr. WCC	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
17	Stem Guide	A276 Type 410			
18	Stem Nut	Bronze			
19	Gear Unit	Ductile Iron			
20	Handwheel	Steel			
--	Identification Plate	SS 304			

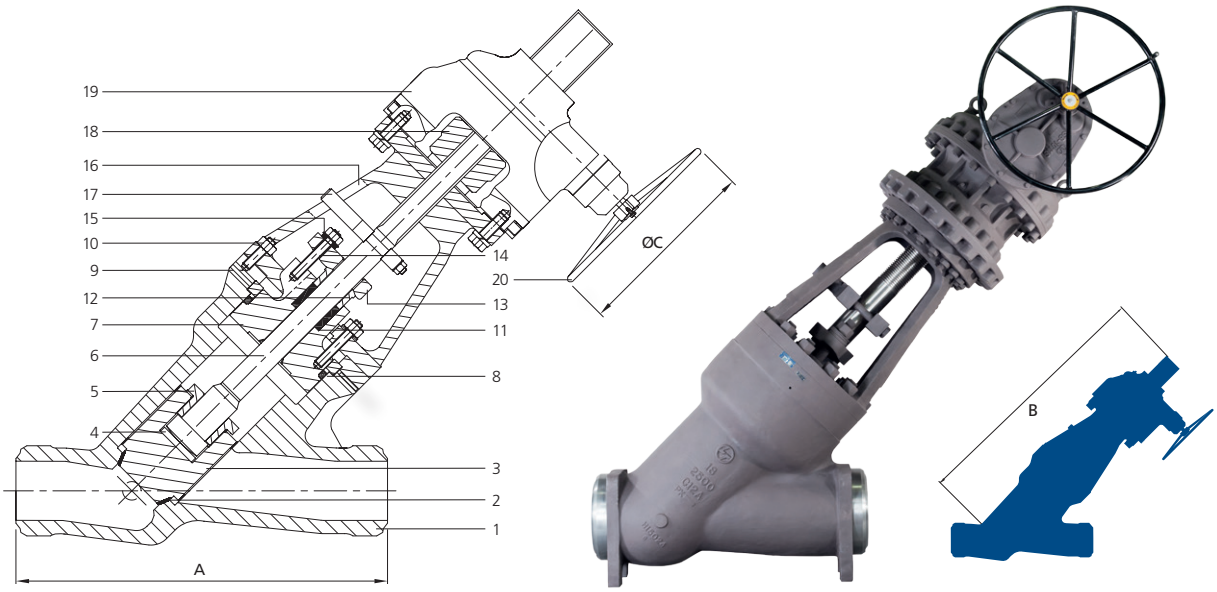
HF - Hard-Faced with Stellite 6 or equivalent

Globe Valves - T Pattern - Dimensions & Weights

Size		Class 600				Class 900				Class 1500				Class 2500			
NPS	DN	A	B	C	Wt.	A	B	C	Wt.	A	B	C	Wt.	A	B	C	Wt.
2	50	292	425	228	40	216	575	406	65	216	550	406	85	279	750	508	155
3	80	356	540	305	65	305	590	406	75	305	690	500	170	368	712	486	240
4	100	432	610	457	165	356	675	630	130	406	710	630	280	457	800	710	340
6	150	559	805	710	270	508	795	710	350	559	920	900	530	610	1200	900	815
8	200	660	1135	900	645	660	1020	900	640	711	1280	710	915	762	1450	900	1400
10	250													914	1690	900	2150
16	400													1397	2435	1000	5555
18	450													1397	2645	1000	6900

Size		Class 3100			
NPS	DN	A	B	C	Wt.
2	50	279	850	400	230
3	80	368	1135	640	325
4	100	457	1000	710	650

Globe Valves - Y Pattern



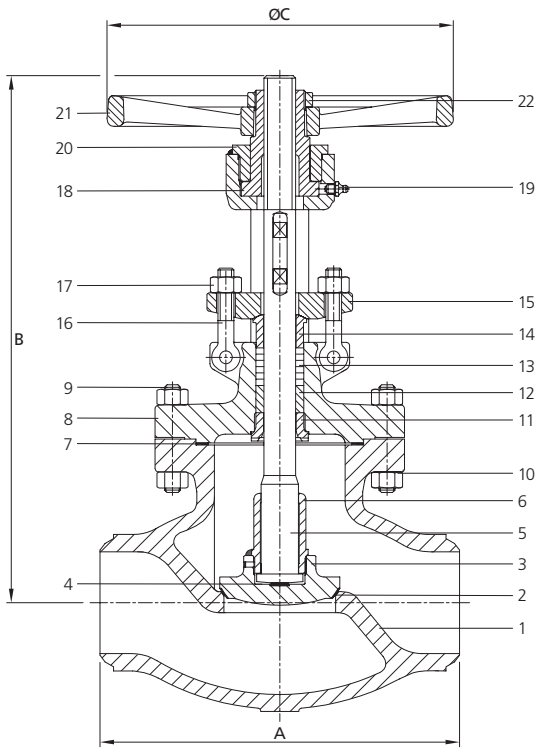
Dimensions & Weights

Size		Class 900				Class 1500				Class 2500			
NPS	DN	A	B	C	Wt.	A	B	C	Wt.	A	B	C	Wt.
2	50	368	620	406	60	368	620	406	60	451	620	406	110
3	80	381	630	508	80	470	710	400	110	578	875	630	185
4	100	457	865	500	170	546	875	630	170	673	920	710	330
6	150	610	1290	630	270	705	1200	900	410	914	1460	750	990
8	200	737	1710	710	610	832	1580	710	780	1022	1890	610	1900
10	250	838	1900	1000	830	991	1890	800	1375	1270	1960	900	2100
12	300	965	2080	1000	1300	1130	2040	900	2250	1041	2720	1000	3000
14	350	1029	2350	900	1550	1257	2390	1000	2570	1118	2760	710	4200
18	450	1219	2730	710	2800	1537	2900	1000	3500	1537	3020	1000	7150

All dimensions in mm and weights in kg

Globe Valves - ASME Class 150, 300 & 600
(BS1873, ASME B16.34)





No.	Components		Materials
1	Body		A216 Gr. WCB
2	Seat		Insitu on Body + HF
3	Disc (Plug Type)		A216 Gr. WCB + 13% Cr. Steel
4	Disc Washer		A276 Type 410
5	Stem		A182 Gr. F6a
6	Disc Nut		A276 Type 410
7	Gasket	Cl.150	Spiral-wound SS 316 with Graphite filler
		Cl.300	
		Cl.600	RTJ - SS 316/ Soft Iron
8	Bonnet		A216 Gr. WCB
9	Stud		A193 Gr. B7
10	Hex Nut		A194 Gr. 2H
11	Backseat Ring		A276 Type 410
12	Spacer Ring		A276 Type 410
13	Packing		Graphite with Braided end-rings
14	Gland		A276 Type 410
15	Gland Flange		A105N/ A216 Gr. WCB
16	Eye Bolt/ Stud		A193 Gr. B7
17	Hex Nut		A194 Gr. 2H
18	Stem Nut (Yoke Sleeve)		A439 Type D2
19	Grease Fitting		Steel
20	Retainer Nut		S.G Iron/ Steel
21	Handwheel		
22	Handwheel Nut		
--	Identification Plate		SS 304

Valves in other materials available on demand

Globe Valves in sizes 10" and above are offered with insitu hardfaced integral seat rings

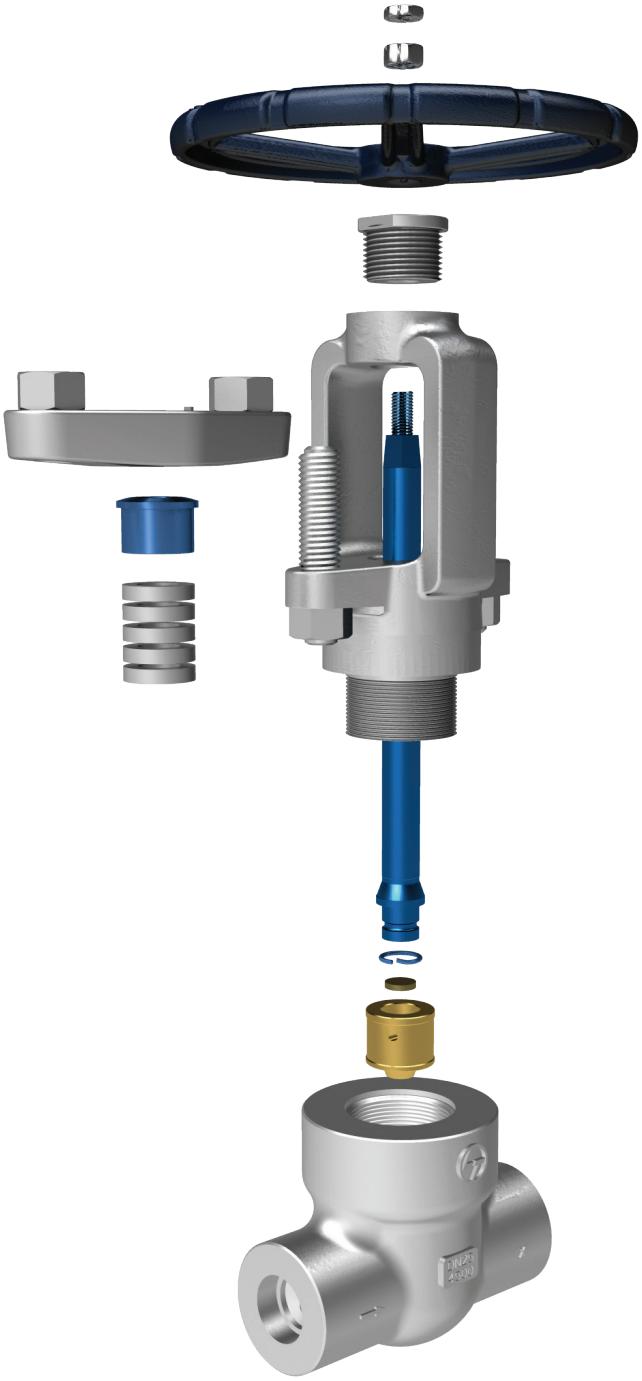
Dimensions & Weights

Size		Class 150						Class 300						Class 600					
		A		B	ØC	Wt.		A		B	ØC	Wt.		A		B	ØC	Wt.	
NPS	DN	FL	BW			FL	BW	FL	BW			FL	BW	FL	BW			FL	BW
2	50	203	203	380	203	23	20	267	267	415	203	33	28	292	292	475	254	42	38
3	80	241	241	460	254	41	38	318	318	515	254	58	50	356	356	585	356	75	60
4	100	292	292	535	305	66	62	356	356	605	356	97	84	432	432	665	406	136	116
6	150	406	406	610	356	118	110	444	444	715	457	186	164	559	559	1085	710	260	210
8	200	495	495	775	457	230	218	559	559	1185	710	410	375	660	660	1400	900	713	633
10	250	622	622	970	500	375	360	622	622	1290	900	700	650	787	787	1570	1000	1010	910
12	300	698	698	1195	710	495	470	711	711	1480	900	850	780	838	838	1810	800	1300	1110
14	350	787	787	1435	800	830	790	838	838	1700	1000	1100	982	889	889	1970	900	1690	1469
16	400	914	914	1570	800	1100	1047	864	864	1605	710	1650	1473	991	991	1615	800	2300	2000
18	450	978	978	1830	710	1620	1542	978	1040	1640	710	2000	1785	1092	1092	1790	900	2600	2260
20	500	978	978	1850	900	1620	1542	1016	1016	2370	1000	2500	2232						
24	600																		

All dimensions in mm and weights in kg

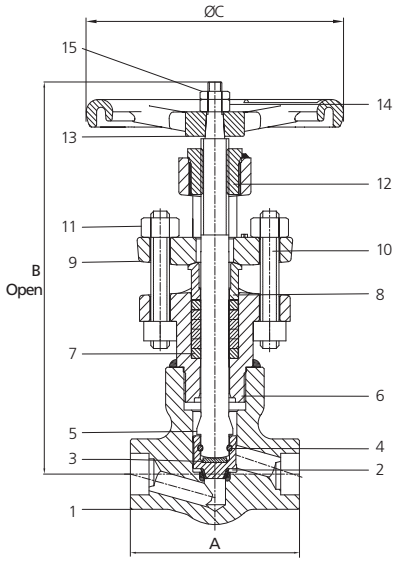
Small Bore Globe & Check Valves - ASME Class 1500, 2500 & 4500
(ASME B16.34)

L&T forged steel globe and check valves in sizes up to 2" complement the high pressure gate, globe and check valves range. The T-pattern valves are IBR-certified and are available in a variety of materials.



Forged Steel Globe Valves - ASME Class 1500, 2500 & 4500
(ASME B16.34)





Dimensions & Weights

Size		Class 1500/ 2500				Class 4500			
NPS	DN	A	B	ØC	Wt.	A	B	ØC	Wt.
½	15	115	265	175	8	130	285	175	11
¾	20	115	265	175	8	130	285	175	11
1	25	130	290	225	10	165	320	225	16
1 ¼	32	178	375	275	18	188	410	275	29
1 ½	40	178	375	275	18	188	410	275	29
2	50	202	430	300	28	230	437	300	50

All dimensions in mm and weights in kg
Valves in ASME Classes 1500 & 2500 are available in sizes up to 2”

Materials of Construction

No.	Components	Materials			
		A105	F22	F91	F304
1	Body (Integral Seat)	A105	A182 Gr. F22 Cl. 3	A182 Gr. F91	A182 Gr. F304
2	Disc	A479 Type 410 + HF	A479 Type 410 + HF	A479 Type 316 + HF	A479 Type 316 + HF
3	Disc Washer	A479 Type 410	A479 Type 410	A479 Type 431	A479 Type XM19
4	Retainer Wire	A479 Type 430	A479 Type 430	A479 Type 430	A479 Type 316
5	Stem	A182 Gr. F6a	A182 Gr. F6a	A479 Type XM19	A479 Type XM19
6	Bonnet	A105	A182 Gr. F22 Cl. 3	A182 Gr. F91	A182 Gr. F304
7	Packing	Die-moulded Graphite Packing with Braided end-rings			
8	Gland	A276 Type 410		A276 Type 316	
9	Gland Flange	A105	A105	A105	A182 Gr. F304
10	Stud	A193 Gr. B7	A193 Gr. B16	A193 Gr. B16	A193 Gr. B8 Cl. 1
11	Heavy Hex Nut	A194 Gr. 2H	A194 Gr. 7	A194 Gr. 7	A194 Gr. 8
12	Yoke Bush	B148	B148	B148	Aluminium Bronze
13	Handwheel	IS 1865 Gr. SG400/ 15			
14	Heavy Hex Nut	A194 Gr. 2H	A194 Gr. 7	A194 Gr. 7	A194 Gr. 8
15	Lock Nut	A194 Gr. 2H	A194 Gr. 7	A194 Gr. 7	A194 Gr. 8
--	Identification Plate	Stainless Steel			

HF - Hard-Faced with Stellite 6 or equivalent