

Design

WOKO cast steel globe valves are designed and manufactured to provide maximum service life and dependability. All globe valve are full ported and meet the design requirements of American Petroleum Institute standard API600& 6D.BS EN 1873 and generally conform to American Society of Mechanical Engineers standard ASME B16.34 .Valves are available in a complete range of body/bonnet materials and trims.

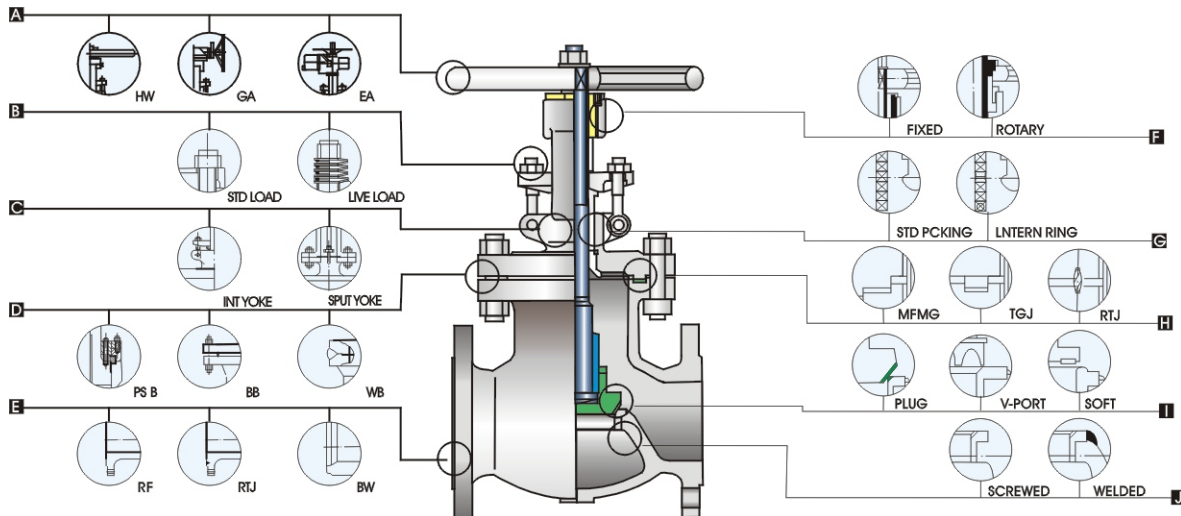
Rang of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steel, for special applications they can be supplied in other grades of alloy and stainless steel, there's a full range of trim materials to match any service optional packing and gasket materials are available for a full range of service conditions.

Available Modifications for Cast Globe Valves

Trim changes
End connection modifications
Packing and gasket changes
Operator mounting
Handwheel extensions

Pressure equalizing
By-pass
Customer specified coatings
Weld end bore changes
Oxygen & chlorine cleaning & packaging



A Operating

Large handwheels for easy operation. Also available with gearing, motor actuators, pneumatic or hydraulic actuators for more difficult services.

B Live Load Packing

In services requiring frequent cycling or with high pressure/temperature variations, live loading extends the service life between maintenance periods packing gland adjustments. Belleville spring are employed to provide constant packing gland stress.

C OS & Y

Outside screw and yoke. Cast steel globe valve yoke integral with bonnet for 10 & smaller.

D BB

Bolted bonnet welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/temperature variations.

E End Connections

A choice of flanged, RTJ flanged or butt welding end for piping flexibility.

F Yoke sleeve

Furnished in aluminum bronze to reduce operating torque. Most size furnished with ball bearing yoke sleeves.

G Lantern Ring And Double Packing Set

Lantern ring with leak-off fitting connection and double packing stack is optionally available for critical services.

H Body-to-Bonnet Joint

A male and female joint or tongue and groove joint is used 150Lb to 600Lb valves, ring joint is used in the body to bonnet connection in 900Lb & higher rated valves.

I Disc

Plug disc is stem guided on all I size. Disc has a differential angle front the seat to provide a line contact for maximum sealing. The bottom of v-port disc is guided by the body seat ring for maximum disc stability in throttling applications, the soft teflon ring is excellent for lower temperature service where tight shut off required.

J Seat Rings

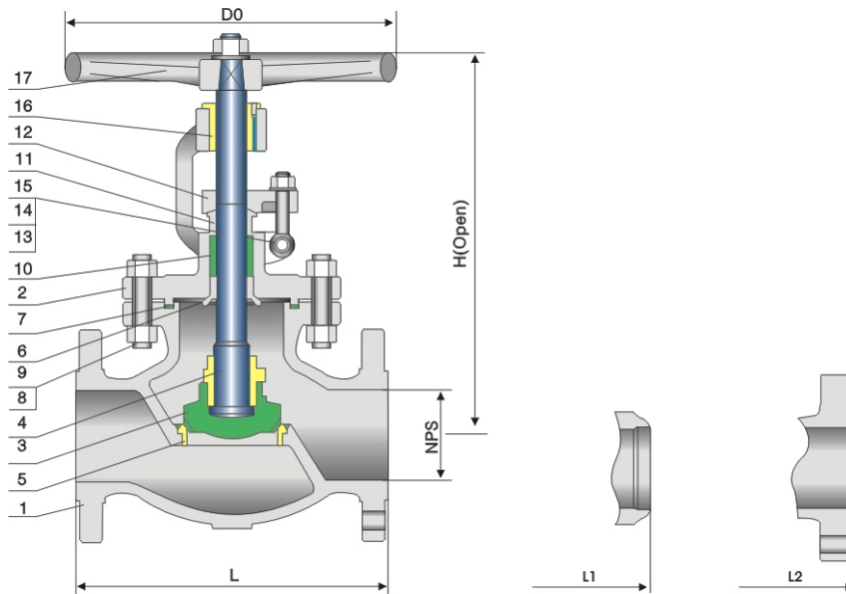
Separate heavy duty, full ported rings for easy maintenance. Screwed or welded connection into body.

Applicable Standards:

- STEEL GLOBE VALVES BS EN 1873/API 600
- STEEL VALVES, ASME B16.34
- FACE TO FACE, ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS, ASME B16.25
- INSPECTION AND TEST, API 598

Design description

- STRAIGHT PATTERN BODY DESIGN
- OS&Y, OUTSIDE SCREW AND YOKE
- BB, BOLTED BONNET
- YOKE INTEGRAL WITH BONNET
- RISING STEM AND HANDWHEEL
- LOOSE DISC, CHOICE OF PLUG OR BALL
- RENEWABLE SEAT RING
- GEAR FOR 10" & ABOVE
- HORIZONTAL SERVICE
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH BG OPERATOR



Standard Material Specifications

No	Part Name				ASTM Material				
		Carbon steel	1.25Cr–0.5Mo	2.25Cr–1Mo	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
2	Bonnet	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
3	Disc	WCB+13Cr*1	A217 WC6+HF	A217 WC9+HF	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
4	Stem	A182 F6a	A182 F11	A182 F22	A180 F304	A182 F316	A182 F304L	A182 F316L	20–Alloy
5	Seat Ring	A105+13Cr*1	A182 F11+HF'	A182 F22+HF'	NA				NA
6	Back Seat	A276 410	A276 410	A276 410	NA				NA
7A	Bonnet Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	316+Graphite	304L+Graphite	316L+Graphite	316+Graphite
7B	Ring Gasket	Soft Steel	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	20–Alloy
8	Bonnet Bolt	A193B7	A193 B7	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	A193 B8M
9	Bonnet Nut	A194 2H	A194 7	A194 7	A194 8	A194 8M	A194 B	A194 8M	A194 8M
10	Packing	Graphit	Graphite	Graphite	Graphite *2	Graphite *2	Graphite*2	Graphite*2	Graphite*2
11	Gland	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	20–Alloy
12	Gland Flange	A216 WCB			A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
13	Eyebolt	Carbon Steel	A193 B7	A193 B7	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
14	Eyebolt Nut	Carbon Steel	A194 2H	A194 2H	A194 8	A194 8	A194 8	A194 8	A194 8
15	Eyebolt Pin	A276 410	A276 410	A276 410	A276 304	A276 304	A276 304	A276 304	A276 304
16	Yoke Sleeve	Bronze	Bronze*3	Bronze*3	Bronze				Bronze
17	Hand wheel	Malleable iron			Malleable iron				Malleable iron
18	Wheel Nut	Carbon steel			Stainless steel				Stainless steel
*1	PN≥600CLASS sealing Face will be HF								
*2	PTFE Optional								
*3	Ductile NI–Resist iron Optional								
NA	Integral with vessel								

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/2 40	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
L/L1 (RF/BW)	4.25 108	4.62 117	5.00 127	6.50 165	8.00 203	8.50 216	9.50 241	11.50 292	16.00 406	19.50 495	24.50 622	27.50 698	31.00 787	36.00 914	in mm
L2 (RTJ)	— —	— —	— —	— —	8.50 216	9.00 229	10.00 254	12.00 305	16.50 419	20.00 508	25.00 635	28.00 711	31.50 800	36.50 927	in mm
H (open)	7.00 180	7.5 190	8.25 210	9.25 235	15.00 380	21.00 535	17.50 445	20.25 515	22.00 560	24.25 615	32.00 815	35.88 910	48.38 1230	57.00 1450	in mm
D0	4 100	4 100	4 100	6 140	7 180	10 240	11 280	11 280	13 320	13 320	16 400	18 450	20 500	24 600	in mm
WT(kg)	3 2.5	3.5 3	4.5 4	11 8	18 14	30 22	41 33	64 43	86 72	110 88	280 245	380 345	510 450	740 665	BW RF/RTJ

Main Outline Dimensions & Weight Class 300Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/2 40	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
L/L1 (RF/BW)	6.00 152	7.00 178	8.00 203	9.00 229	10.50 267	11.50 292	12.50 318	14.00 356	17.50 444	22.00 559	24.50 622	28.00 711	— —	— —	in mm
L2 (RTJ)	— —	— —	— —	— —	11.12 282	12.12 308	13.12 333	14.62 371	18.12 460	22.62 575	25.12 638	28.62 727	— —	— —	in mm
H (open)	7.00 180	7.50 190	8.25 210	9.25 235	16.75 425	19.00 485	19.88 505	22.50 570	25.25 640	33.25 845	35.50 900	38.62 980	— —	— —	in mm
D0	4 100	4 100	4 100	6 140	8 200	10 240	11 280	13 320	16 400	18 450	20 500	24 600	— —	— —	in mm
WT(kg)	4 3	4.5 3.5	6 5	15 12	25 20	32 22	38 27	56 41	96 75	150 117	360 310	550 492	— —	— —	BW RF/RTJ

Main Outline Dimensions & Weight Class 600Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/2 40	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
L/L1 (RF/BW)	6.50 165	7.50 190	8.50 216	9.50 241	11.50 292	13.00 330	14.00 356	17.00 432	22.00 559	26.00 660	31.00 787	33.00 838	— —	— —	in mm
L2 (RTJ)	— —	— —	— —	— —	11.62 295	13.12 333	14.12 359	17.12 435	22.12 562	26.12 663	31.12 790	33.12 841	— —	— —	in mm
H (open)	7.25 185	7.62 195	9.00 230	11.00 280	17.50 445	19.75 502	21.00 533	24.50 622	29.50 750	36.50 927	44.88 1140	53.12 1350	— —	— —	in mm
D0	4 100	4 100	6 140	5 200	10 240	11 280	13 320	16 400	18 450	20 500	24 600	24 600	— —	— —	in mm
WT(kg)	6 4.8	8 6.2	14 9.5	23 16.5	35 27	50 34	60 42	110 84	230 192	410 350	770 680	1140 1030	— —	— —	BW RF/RTJ

Main Outline Dimensions & Weight Class 900Lb

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	in mm
L/L1 (RF/BW)	14.50 368	16.50 419	15.00 381	18.00 457	24.00 610	29.00 737	33.00 838	in mm
L2 (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	29.12 740	33.12 841	in mm
H (open)	22.00 560	23.25 590	25.25 640	31.88 810	41.38 1050	53.50 1360	61.88 1570	in mm
D0	11 280	13 320	16 400	18 450	20 500	24 600	24 600	in mm
WT(kg)	57 41	82 53	91 58	168 117	365 238	665 538	1250 1060	BW RF/RTJ

Main Outline Dimensions & Weight Class 1500Lb

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	in mm
L/L1 (RF/BW)	14.50 368	16.50 419	18.50 470	21.50 546	27.25 705	32.75 832	in mm
L2 (RTJ)	14.62 371	16.62 422	18.62 473	21.62 549	28.00 711	33.12 841	in mm
H (open)	22.00 560	23.25 590	29.50 750	36.00 915	48.62 1235	65.00 1650	in mm
D0	13 320	16 400	18 450	20 500	24 600	28 700	in mm
WT(kg)	68 57	97 81	116 95	215 184	445 247	795 635	BW RF/RTJ

Main Outline Dimensions & Weight Class 2500Lb

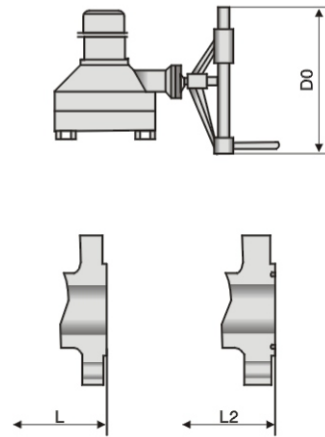
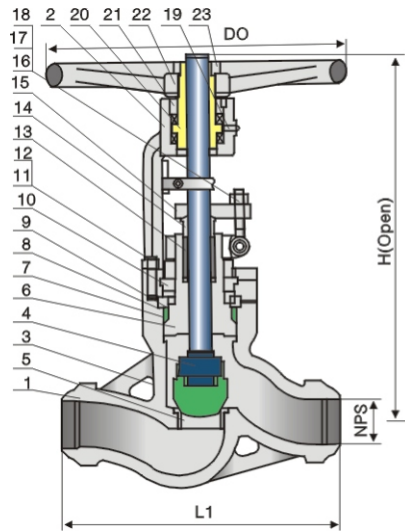
NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	in mm
L/L1 (RF/BW)	17.75 451	20.00 508	22.75 578	26.50 673	36.00 914	in mm
L2 (RTJ)	17.88 454	20.50 414	23.00 584	26.88 683	36.50 927	in mm
H (open)	25.50 650	28.12 715	32.50 825	47.00 1195	70.50 1790	in mm
D0	16 400	18 450	20 500	24 600	28 700	in mm
WT(kg)	97 72	138 95	167 108	305 196	633 351	BW RF/RTJ

Applicable Standards:

- STEEL GLOBE VALVES, BS EN 13709/API 600
- STEEL VALVES, ASME B16.34
- FACE TO FACE, ASME B16.10
- END FLANGES ASME B16.5
- BUTTWELDING ENDS, ASME B16.25
- INSPECTION AND TEST, API 598

Design description

- PSB, PRESSURE SEAL BONNET
- OS&Y, OUTSIDE SCREW AND YOKE
- BB, BOLTED BONNET
- RENEWABLE SEAT RINGS
- RISING STEM AND HANDWHEEL
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH BG OPERATOR



Standard Material Specifications

No	Part Name	ASTM Material							
		Carbon steel	1.25Cr-0.5Mo	2.25Cr-1Mo	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF7M
2	Yoke	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF7M
3	Disc	WCB+HF	A217 WC6+HF	A217 WC9+HF	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF7M
4	Stem	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-ALLOY
5	Seat ring	A105+HF	A182 F11+HF	A182 F22+HF	NA	NA	NA	NA	NA
6	Bonnet	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF7M
7	Bonnet Gasket	304+Graphite	304+Graphite	304+Graphite	304+Graphite	316+Graphite	304L+Graphite	316L+Graphite	316+Graphite
8	Adapter Ring	Soft Steel	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
9	Retainer	A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F304	A182 F304	A182 F304	A182 F304
10	Yoke Cap	A216 WCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
11	Bonnet Bolt	A193 B7	A193 B7	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
12	Bonnet Nut	A194 2H	A194 7	A194 7	A194 8	A194 8	A194 8	A194 8	A194 8
13	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
14	Gland	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	20-Alloy
15	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
16	Eyebolt	Carbon steel	A193 B7	A193 B7	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
17	Eyebolt Nut	Carbon steel	A194 2H	A164 2H	A194 8	A194 8	A194 8	A194 8	A194 8
18	Eyebolt Pin	A276 410	A276 411	A276 412	A276 304	A276 304	A276 304	A276 304	A276 304
19	Greas Fitting	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial
20	Stem Nut	Bronze	Bronze*1	Bronze*1	Bronze	Bronze	Bronze	Bronze	Bronze
21	Jam Nut	Carbon steel	Carbon steel	Carbon steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
22	Hand Wheel	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron
23	Wheel Nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel+Zn	Carbon steel+Zn	Carbon steel+Zn	Carbon steel+Zn	Carbon steel+Zn
5	Back Seat	A276 410	A276 410	A276 410	NA	NA	NA	NA	NA

*1 Ductile ni-Resist iron Optional

NA Integral with vessel

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 900Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
L1 (BW)	8.50 216	10.00 254	12.00 305	14.00 356	20.00 508	26.00 660	31.00 787	36.00 914	in mm
L (RF)	14.50 368	16.50 419	15.00 381	18.00 457	24.00 610	29.00 737	33.00 838	38.00 965	in mm
L2 (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	29.12 740	33.12 841	38.12 968	in mm
H (open)	22 557	22 557	22 557	27 685	36.38 925	43.38 1100	50.62 1285	57 1450	in mm
D0	16 400	16 400	16 400	16 400	28 700	28 700	36 900	36 900	in mm
WT(kg)	46 75	53 82	68 95	100 135	270 355	450 680	740 1050	1150 1480	BW RF/RTJ

Main Outline Dimensions & Weight Class 1500Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	in mm
L1 (BW)	8.50 216	10.00 254	12.00 305	16.00 406	22.00 559	28.00 711	in mm
L (RF)	14.50 368	16.50 419	18.50 470	21.50 546	27.75 705	32.75 832	in mm
L2 (RTJ)	14.62 371	16.62 422	18.62 473	21.62 549	28.00 711	33.12 842	in mm
H (open)	22 557	22 557	24.38 620	30 760	44.62 1135	54.75 1390	in mm
D0	16 400	18 450	20 500	24 600	28 700	36 900	in mm
WT(kg)	57 86	65 112	90 162	190 240	450 580	730 950	BW RF/RTJ

Main Outline Dimensions & Weight Class 2500Lb

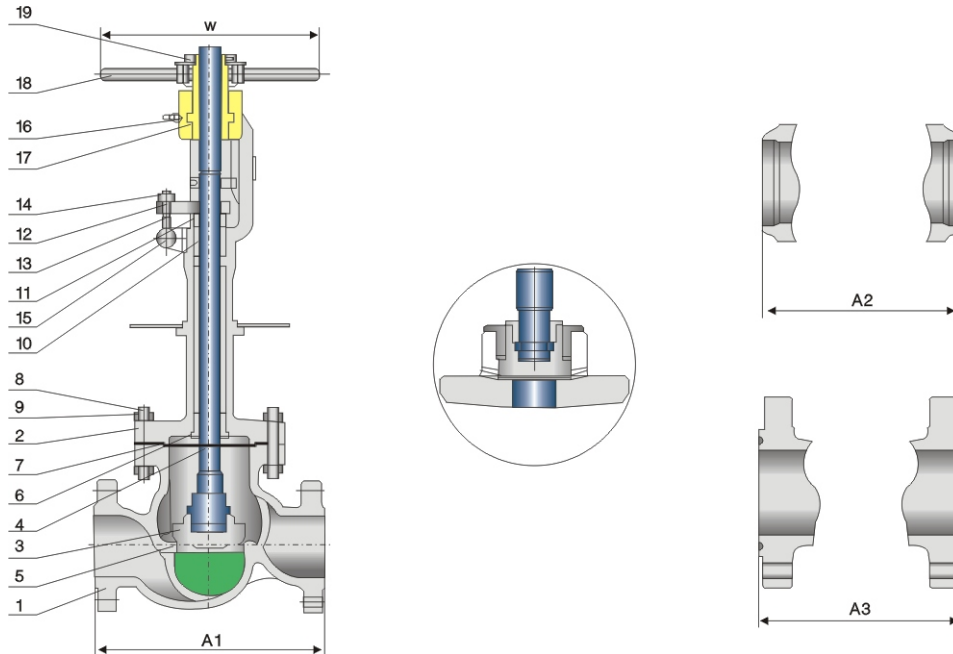
NPS DN	2 50	2½ 65	3 80	4 100	6 150	in mm
L1 (BW)	11.00 279	13.00 330	14.50 368	18.00 457	24.00 610	in mm
L (RF)	17.75 451	20.00 508	22.75 578	26.50 673	36.00 914	in mm
L2 (RTJ)	17.88 454	20.50 514	23.00 584	26.88 683	36.50 927	in mm
H (open)	23.38 595	23.38 595	28 710	32.25 820	49.62 1260	in mm
D0	16 400	20 500	24 600	28 700	36 900	in mm
WT(kg)	65 115	78 136	125 205	155 275	480 860	BW RF/RTJ

Applicable Standards

- STEEL GLOBE VALVES, BS EN 13709/API 600
- STEEL VALVES, ASME B16.34
- FACE TO FACE, ASME B16.10
- END FLANGES, ASME B16.5
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Design description

- STRAIGHT PATTERN BODY DESIGN
- OS&Y, OUTSIDE SCREW AND YOKE
- BB, BOLTED BONNET
- YOKE INTEGRAL WITH BONNET
- RISING STEM AND HANDWHEEL
- LOOSE DISC, CHOICE PLUG OR BALL
- SEAT RINGS INTEGRAL WITH BODY
- IMPACT HANDWHEEL FOR 10" & ABOVE
- HORIZONTAL SERVICE



Standard Material Specifications

NO	Part Name	ASTM Material							
		Carbon steel	2.5Ni	3.5Ni	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A352 LCB	A352 LC2	A352 LC3	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
2	Bonnet	A352 LCB	A352 LC2	A352 LC3	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
3	Disc	LCB+304*1	LC2+304	LC3+304	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
4	Stem	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	20 Alloy
5	Seat Ring	A105+304*1	A182 F22+HF	A182 F22+HF	NA				NA
6	Back Seat	A276 304	A276 304	A276 304	NA				NA
7A	Bonnet Gasket	304+graphite	304+graphite	304+graphite	304+graphite	316+graphite	304L+graphite	316L+graphite	316+graphite
7B	Ring Gasket	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	20–Alloy
8	Bonnet Bolt	A193 L7	A193 L7	A193 L7	A193 B8	A193 B8M	A193 B8	A193 B8M	A193 B8M
9	Bonnet Nut	A194 4	A194 4	A194 4	A194 8	A194 8M	A194 8	A194 8M	A194 8M
10	Packing	Graphite	Graphite	Graphite	Graphite *2	Graphite *2	Graphite *2	Graphite *2	Graphite *2
11	Gland	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316	20–Alloy
12	Gland Flange	A216 LCB			A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
13	Eyebolt	A193 L7	A193 L7	A193 L7	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
14	Eyebolt Nut	A194 4	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
15	Eyebolt Pin	A276 410	A276 410	A276 410	A276 304	A276 304	A276 304	A276 304	A276 304
16	Greas Fitting	Commercial			Commercial				Commercial
17	Yoke Sleeve	Bronze	Bronze*3	Bronze*3	Bronze				Bronze
18	Hand Wheel	Malleable iron			Malleable iron				Malleable iron
19	Wheel Nut	Carbon steel			Stainless steel				Stainless steel
*1	PN≥600 CLASS seal face will be HF								
*2	PTFE Optional								
*3	Ductile Ni–Resist iron Optional								
NA	Integral with vessel								

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	in mm
A1&A3	8.0	8.5	9.5	11.5	16.0	19.5	24.5	27.5	31.0	36.0	38.5	in
	203	216	241	292	406	495	622	698	787	914	978	mm
H	15.3	14.8	17.0	19.5	22.6	28.0	31.4	39.1	54.6	53.4	78.0	in
	383	376	433	495	574	710	797	992	1387	1356	1980	mm
W	7.9	8.8	8.8	9.8	14.0	14.0	17.7	17.7	22.0	220	240	in
	200	224	224	250	355	355	450	450	560	560	610	mm
Weight	44.1	77.2	88.2	123.5	229.3	401.3	650.5	904	1510	1985	39690	RF
	20	35	40	56	104	182	295	410	685	900	1800	
	33.1	66.2	70.6	90.4	183.0	330.8	496.1	728	1312	1764	3638.3	BW
	15	30	32	41	83	150	225	330	595	800	1650	

Main Outline Dimensions & Weight Class 300Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
A1	10.5	11.5	12.5	140	17.5	220	24.5	28.0	39.0	42.0	in
	267	292	318	356	444	559	622	711	991	1067	mm
A3	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62	39.62	42.62	in
	283	308	333	371	460	575	638	727	1006	1083	mm
H	15.6	16.3	18.2	21.7	29.2	31.5	446	46.1	56.5	70.7	in
	396	415	462	550	741	300	1132	1172	1435	1797	mm
W	7.9	8.8	9.8	140	17.7	22.0	220	28.0	28.0	31.5	in
	200	224	250	355	450	560	560	710	710	800	mm
Weight	70.6	92.6	141.0	220.5	419.0	595.4	1163.7	2240	2546.8	3748.5	RF
	32	42	64	100	190	270	530	1016	1155	1700	
	66.2	66.2	105.89	194.0	328.5	441	970.2	1997.7	2216	3309.7	BW
	30	30	48	88	149	200	440	906	1005	1501	

Main Outline Dimensions & Weight Class 600Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	in mm
A1	11.5	13.0	14.0	17.0	22.0	26.0	31.0	33.0	35.0	390	in
	292	330	356	432	559	660	787	818	889	991	mm
A3	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	in
	295	333	359	435	562	664	792	841	892	994	mm
H	16.0	19.8	19.9	22.4	29.9	51.8	59.5	69.9	70.9	76.0	in
	407	502	505	165	759	1315	1511	1775	1800	1930	mm
W	8.8	9.8	11.0	14.0	17.7	28.0	31.5	35.4	35.4	35.4	in
	224	250	280	355	450	710	800	900	900	900	mm
Weight	94.8	154.4	172.0	300.0	619.6	1301	2099	3528	5953.5	7938.0	RF
	43	70	78	136	281	590	952	1600	2700	3600	
	72.8	121.3	132.3	216.1	454.2	1125	1746	3263.45	5534.6	7386.8	BW
	33	55	60	98	206	510	792	1480	2510	3350	

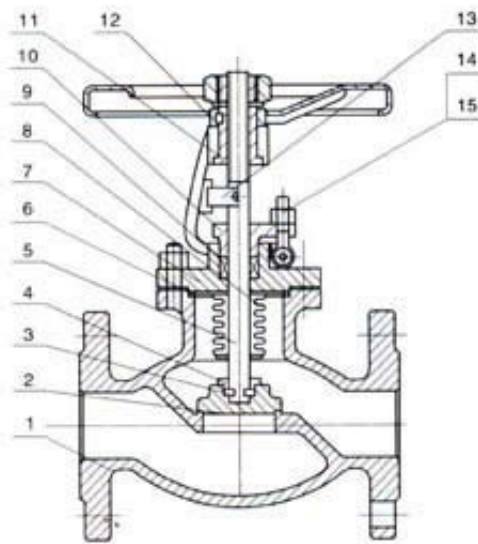
Applicable Standards:

- STEEL GLOBE VALVES BS EN 1873/API 600
- STEEL VALVES, ASME B16.34
- FACE TO FACE, ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS, ASME B16.25
- INSPECTION AND TEST ,API 598



Design description

- STRAIGHT PATTERN BODY DESIGN
- OS&Y, OUTSIDE SCREW AND YOKE
- BB, BOLTED BONNET
- YOKE INTEGRAL WITH BONNET
- RISING STEM AND HANDWHEEL
- LOOSE DISC, CHOICE OF PLUG OR BALL
- RENEWABLE SEAT RING
- GEAR FOR 10" & ABOVE
- HORIZONTAL SERVICE
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH BG OPERATOR



Standard Material Specifications

NO	Part Name	ASTM Material
1	Body	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF3、CF3M
2	Disc	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304、F316、F321、F304L、F316L
3	Split ring	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304、F316、F321、F304L、F316L
4	Disc bushing	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304、F316、F321、F304L、F316L
5	Stem	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304、F316、F321、F304L、F316L
6	Gasket	Flexible graphite+stainless steel、PTFE
7	Bonnet	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF3、CF3M
8	Bellow assemble	ASTM A182-F304、F316、F321、F304L、F316L
9	Packing	Flexible graphite、PTFE
10	Gland	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF3、CF3M
11	Yoke nut	ZQA19-4
12	Handwheel	ASTM A536 Gr.60-40-18、A216-WCB
13	Guide piece	45、WCB、304、316、304L、316L
14	Bolt	ASTM A193-B7、A320-B8、A193-B8M
15	Nut	ASTM A194-2H、A194-8、A194-8M

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

DN NPS	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	in mm
L	108	117	127	140	165	203	216	241	292	356	406	495	622	698	787	mm
H	241	241	241	280	286	368	387	400	457	520	609	698	762	876	990	mm
W	120	140	140	180	200	220	260	280	300	320	340	400	450	450	450	mm
Weight	4	5	6	10	13	18	30	35	55	75	104	200	300	390	610	mm

Main Outline Dimensions & Weight Class 300Lb

DN NPS	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	in mm
L	152	178	203	215	229	267	292	318	356	400	444	559	622	711	762	mm
H	241	241	283	320	322	399	438	450	584	610	660	762	850	1085	1187	mm
W	120	140	140	180	200	220	260	280	300	320	340	400	450	450	450	mm
Weight	4	7	10	15	20	25	30	52	88	115	160	259	420	595	876	mm

Main Outline Dimensions & Weight Class 600Lb

DN NPS	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	in mm
L	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889	mm
H	240	280	320	320	390	430	480	508	635	750	914	1016	1219	1330	1560	mm
W	140	140	160	160	180	180	250	250	350	400	450	500	600	720	760	mm
Weight	7	10	16	22	29	35	50	90	150	230	300	510	850	1120	1400	mm

Main Outline Dimensions & Weight Class 900Lb

DN NPS	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	in mm
L	229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029	mm
H	280	330	350	430	508	569	430	635	774	860	1040	1330	1560	1650	1780	mm
W	160	160	180	180	250	250	320	350	450	550	600	720	760	820	890	mm
Weight	10	16	23	37	49	65	75	120	200	350	410	790	1300	1500	1800	mm