

Technical Specification

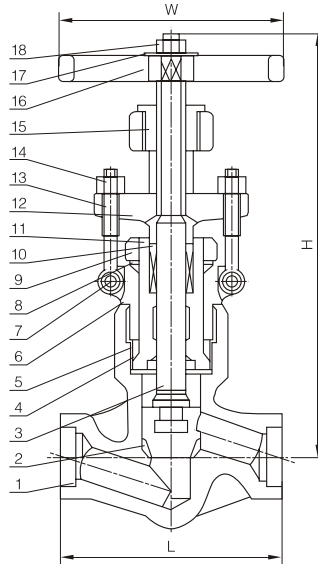
- Steel Globe Valves, API 602
- Steel Valves, ASME B16.34
- Face to Face, Manufacturer Standard
- Face to Face, Flanged, ASME B16.10
- End Flanges, ASME B16.5
- Buttwelding Ends, ASME B16.25
- Socket-welding Ends, ASME B16.11
- Screwed Ends, ASME B1.20.1
- Inspection and Test, API 598

Design Description

- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet
- Choice of WB, Welding Bonnet
- Seat Rings Integral with Body
- Yoke Integral with Bonnet
- Rising Stem and Handwheel
- Horizontal Service
- SW, Socket-welding Ends
- SC, Screwed Ends
- BW, Buttwelding Ends

Form of Major Part Material

No.	Part Name	ASTM Material							
		Carbon Steel	F11	F22	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A105	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
2	Bonnet	A105	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
3	Disc	A182 F6a	A182 F11+HF	A182 F22+HF	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
4	Stem	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
5	Bonnet Gasket	304+Graphit	304+Graphit	304+Graphit	304+Graphit	316+Graphit	304L+Graphit	316L+Graphit	316+Graphit
6	Bonnet Bolt	A193 B7	A193 B7	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
7	Packing	Graphite	Graphite	Graphite	Graphite *2	Graphite *2	Graphite *2	Graphite *2	Graphite *2
8	Gland	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	20-Alloy
9	Gland Flange	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F304	A182 F304	A182 F304	A182 F304
10	Eyebolt	Carbon Steel	A193 B7	A193 B7	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
11	Eyebolt Nut	Carbon Steel	A194 2H	A194 2H	A194 8	A194 8	A194 8	A194 8	A194 8
12	Eyebolt Pin	A276 410	A276 410	A276 410	A276 304	A276 304	A276 304	A276 304	A276 304
13	Yoke Sleeve	Bronze	Bronze *3	Bronze *3	Bronze	Bronze	Bronze	Bronze	Bronze
14	Hand wheel	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron	Malleable iron
15	Wheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel	Stainless 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								



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Steel Globe Valves, API 602
 Steel Valves, ASME B16.34
 Face to Face, Manufacturer Standard
 Face to Face, ASME B16.10
 Butt-welding Ends, ASME B16.25
 Socket-welding Ends, ASME B16.11
 Screwed Ends, ASME B1.20.1
 Inspection and Test, API 598

Design Description

Outside Screw and Yoke (OS&Y)
 Pressure Seal Bonnet
 Choice of WB, Welding Bonnet
 Single wedge, Fully Guided
 Renewable Seat Rings
 Yoke Integral with Bonnet
 Rising Stem and Handwheel
 SW, Socket-welding Ends
 SC, Screwed Ends
 BW, Butt-welding Ends

Form of Major Part Material

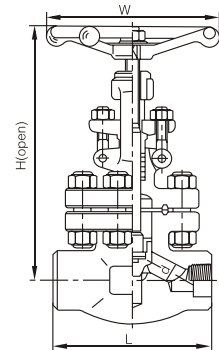
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105N	Type F22	Type F304(L)	Type F316(L)
1	Body	A105N	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420+STL	A276 304+STL	A276 304(L)+STL	A276 316(L)+STL
3	Stem	A276-410	A182 F22	A182 F304(L)	A182 F316(L)
4	Seal Place	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Packing Ring	A182 F304	A182 F304	A182 F304(L)	F316(L)
6	Bonnet	A105N	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 420	A276 420	A182 F304	A182 F304
8	Gasket	A105N	A182 F22	A182 F304(L)	A182 F316(L)
9	Promotes the Nut	A194 2H	A194 4	A194 8	A194 8M
10	Stem Packing	Flexible graphite+304	Flexible graphite+304	Flexible graphite+316	Flexible graphite+316
11	Gland	A276 420	A276 420	A182 F304	A182 F304
12	Gland Flange	A105	A105	A182 F304	A182 F304
13	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 420	A276 420	A276 420	A276 420
16	Hand Wheel	A197	A194 4	A197	A197
17	Nameplate	SS	SS	SS	SS
18	Stem Nut	C.S	C.S	SS	SS

Class900 ~ 1500 Main Outline Dimensions & Weight

Bold fastening valve cover(RJ), reduced port, outside screw stem & yoke (OS&Y).

The terminal connection or receives for the thread inserts welds, designs according to BS5.352

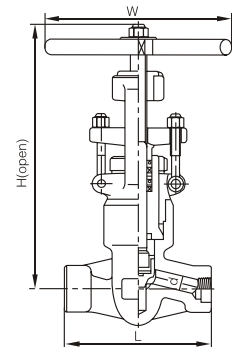
F.P	1/2	3/4	1	1 1/4	2	2 1/2
L	110	110	150	150	210	235
W	110	110	130	210	180	250
H	227	227	300	307	40	448
d	9	12	15	20	32	40
Weight(kg)	5	5	10	11.5	22	37



Class900 ~ 1500 Main Outline Dimensions & Weight

Pressure seal bonnet, reduced port, outside screw stem & yoke (OS&Y),BS 5352

F.P	1/2	3/4	1	1 1/4	1 1/2	2
L	140	140	140	178	178	216
W	200	200	200	280	280	300
H	320	320	320	440	440	490
d	12	15	20	28	32	40
Weight(kg)	11.5	10.8	10.5	19.6	21.1	55.4

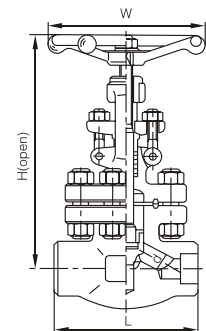


Class2500 Main Outline Dimensions & Weight

Bold fastening valve cover(RJ), full port (OS&Y).

The terminal connection for receives inserts welds, designs according to ASME B16.34

F.P	1/2	3/4	1	1 1/2	2
L	150	150	210	235	235
W	130	130	250	300	300
H	293	300	390	435	435
d	11	14	19	28	35
Weight(kg)	10	10.3	22.4	38	38

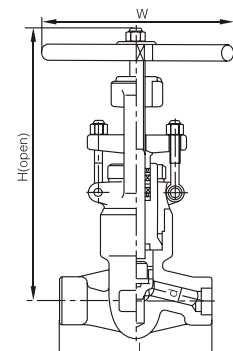


Class2500 Main Outline Dimensions & Weight

Reduced port (OS&Y).

The terminal connection for receives inserts welds, designs according to ASME B16.34

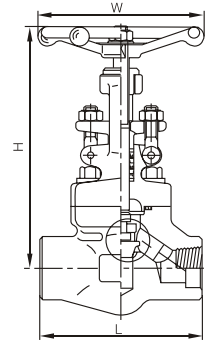
F.P	1/2	3/4	1	1 1/4	1 1/2	2
L	186	186	186	232	232	279
W	200	200	200	280	280	300
H	375	378	380	490	490	540
d	11	14	19	25	28	35
Weight(kg)	12.3	11.6	10.8	26.0	28.4	60



Class800 Main Outline Dimensions & Weight

Bold fastening valve cover, outside screw stem & yoke (OS&Y).
designs according to BS5,352.

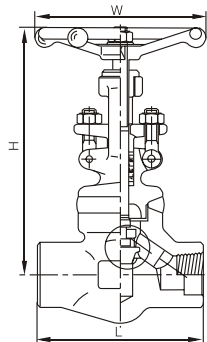
R.P	–	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	79	79	92	111	120	152	172	200
W	100	100	100	125	160	160	180	200
H	164	164	164	203	224	260	300	355
d	7	9	13	17.5	23	30	35	46
Weight(kg)	1.9	2.28	2.37	4.3	5.75	7.8	12.5	17.5



Class800 Main Outline Dimensions & Weight

Weld joint valve cover, outside screw stem & yoke (OS&Y).
Designs according to BS5,352.

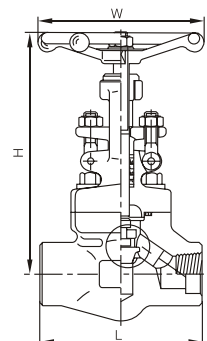
R.P	–	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	79	79	92	111	120	152	172	200
W	100	100	100	125	160	160	180	200
H	164	164	164	203	224	260	300	355
d	7	9	13	17.5	23	30	35	46
Weight(kg)	1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8



Class900 ~ 1500 Main Outline Dimensions & Weight

Bold fastening valve cover, outside screw stem & yoke (OS&Y).
Designs according to BS5,352.

R.P	–	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	92	111	111	120	152	172	200	220
W	100	125	125	160	160	180	200	240
H	171	207	207	240	258	330	355	370
d	7	12	15	20	28	32	40	45
Weight(kg)	2.3	3.7	3.6	6.8	7.6	11.6	15	21.9



Class900 ~ 1500 Main Outline Dimensions & Weight

Weld joint valve cover, outside screw stem & yoke (OS&Y).
Designs according to BS5,352.

R.P	–	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
F.P	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	92	111	111	120	152	172	200	220
W	100	125	125	160	160	180	200	240
H	171	207	207	240	258	330	355	370
d	7	12	15	20	28	32	40	45
Weight(kg)	2.0	3.4	3.3	6.0	5.6	10.3	14.2	18.5

