

ASME Class 150 Flanged Stainless Steel Globe Valve Sharpe® Series 45116



Design Features

- Outside screw and yoke
- Bolted bonnet
- Welded Seat
- Yoke Integrated with Bonnet
- Loose Disc
- Rising stem and non-rising hand-wheel

Applicable Standards

- Steel valves: ANSI B16.34
- Face to face: ANSI B16.10
- End flanges: ANSI B16.5
- Butt-weld ends: ANSI B16.25
- Inspection and test: API 598

Technical Information

Temperature (*F*)	Working Pressure (psi)
-20 to 100	275
200	235
300	215
400	195
500	170
600	140
650	125
700	110
750	95
800	80
850	65
900	50
950	35
1000	20

Note:

*Standard PTFE seals limited to 450°F, over 450°F use graphite.

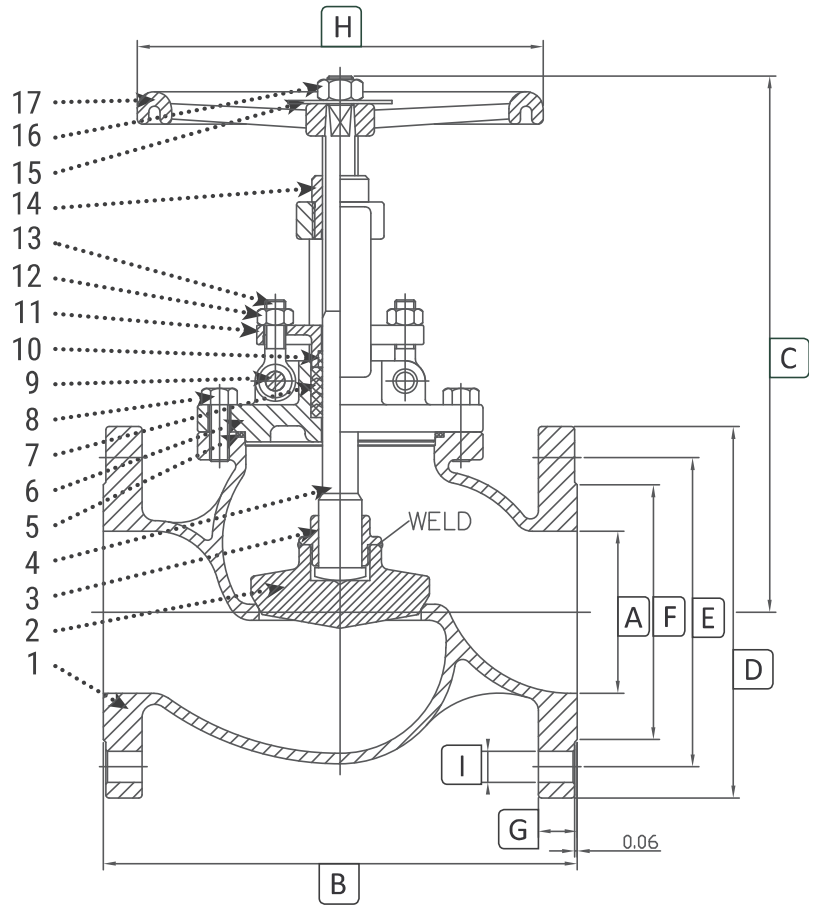


ASME Class 150 Flanged Stainless Steel Globe Valve Sharpe® Series 45116

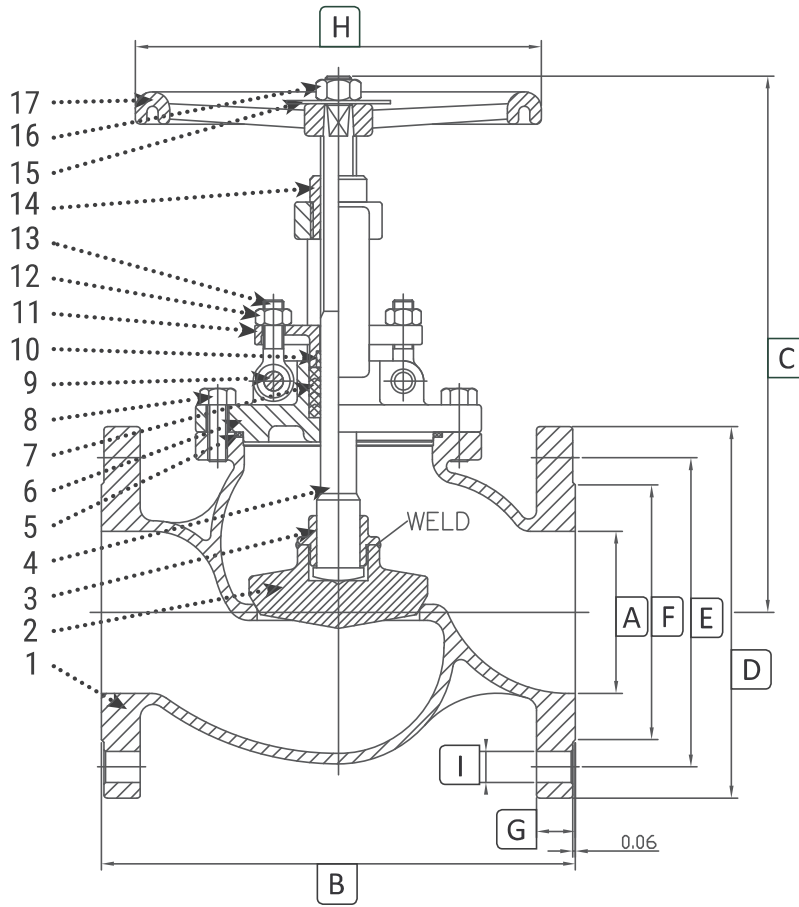
Parts & Materials (Sizes ½" – 12")

No.	Part Name	Material
1	Body	316 Stainless Steel ASTM A351 CF8M
2	Disc	316 Stainless Steel ASTM A351 CF8M
3	Disc Cover	316 Stainless Steel ASTM A351 CF8M
4	Stem	316 Stainless Steel
5	Gasket	RTFE (Grafoil + 300 series Stainless Steel*)
6	Bonnet	CF8M
7	Packing	PTFE (Graphite*)
8	Bonnet Bolt	304 Stainless Steel
9	Pin	304 Stainless Steel
10	Gland Sleeve	RTFE
11	Gland	CF8M
12	Nut	304 Stainless Steel
13	Eye Bolt	304 Stainless Steel
14	Yoke Sleeve	Ductile Iron
15	Name Plate	304 Stainless Steel
16	Nut	304 Stainless Steel
17	Hand-wheel	Ductile Iron

Note:
*Optional



ASME Class 150 Flanged Stainless Steel
 Globe Valve
Sharpe® Series 45116



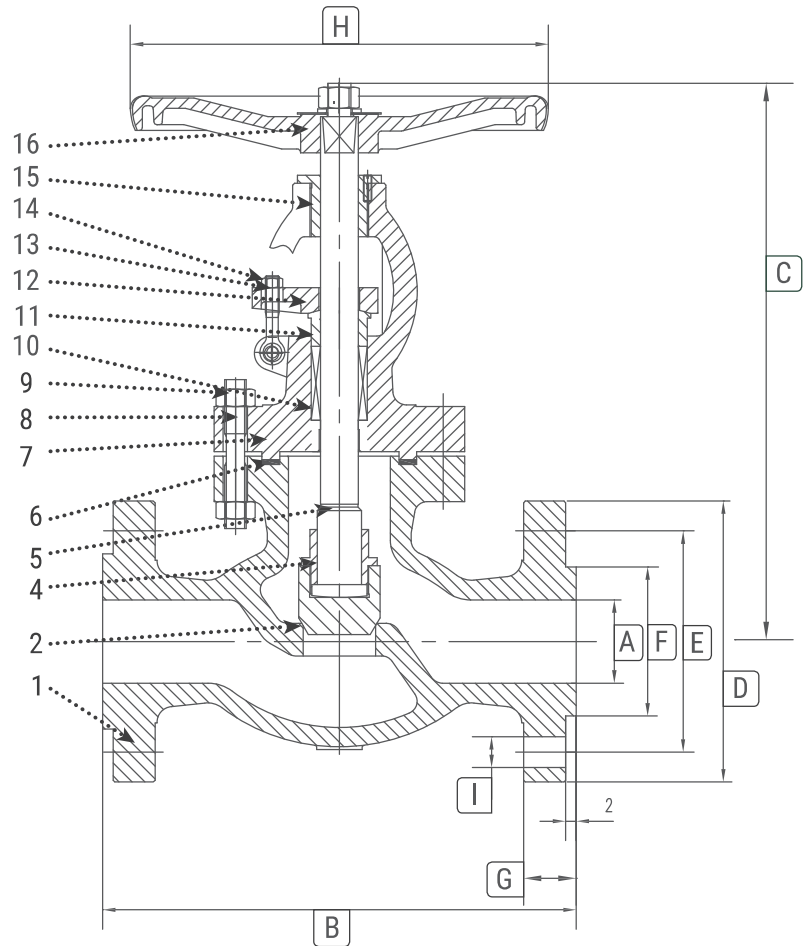
Parts & Materials (Sizes ½"– 12")

Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
½	0.59	4.25	7.32	3.50	2.38	1.38	0.43	5.51	0.625	4
¾	0.79	4.61	7.32	3.88	2.75	1.69	0.43	5.51	0.625	4
1	0.98	5.00	8.35	4.25	3.12	2.00	0.43	5.51	0.625	4
1-½	1.57	6.50	9.69	5.00	3.88	2.88	0.56	6.29	0.625	4
2	1.97	7.99	9.92	6.00	4.75	3.62	0.62	7.87	0.75	4
2-½	2.56	8.50	12.12	7.00	5.50	4.12	0.69	7.87	0.75	4
3	3.15	9.49	12.87	7.50	6.00	5.00	0.75	9.84	0.75	4
4	3.94	11.50	15.12	9.00	7.50	6.19	0.94	9.84	0.75	8
6	5.91	15.98	21.53	11.00	9.50	8.50	1.00	13.78	0.875	8
8	7.87	19.49	26.34	13.50	11.75	10.62	1.12	13.78	0.875	8
10	9.84	24.49	32.44	16.00	14.25	12.75	1.19	19.69	1.00	12
12	12.00	27.50	31.30	19.00	17.00	15.00	1.25	18.11	1.00	12

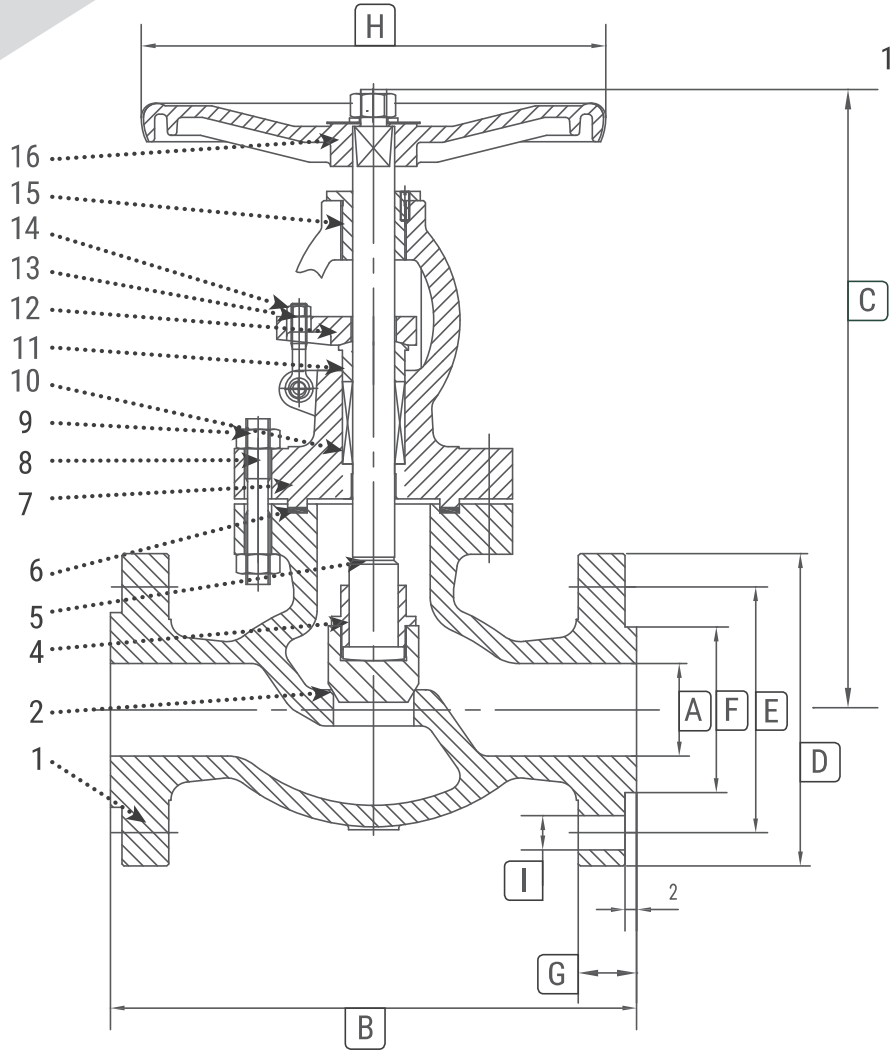
ASME Class 150 Flanged Stainless Steel
Globe Valve
Sharpe® Series 45116

Parts & Materials (Sizes 14" — 16")

No.	Part Name	Material
1	Body	316 Stainless Steel ASTM A351 CF8M
2	Disc	316 Stainless Steel ASTM A351 CF8M
4	Disc Cover	316 Stainless Steel
5	Stem	A182 F316
6	Gasket	Graphite + 300 series Stainless Steel
7	Bonnet	316 Stainless Steel ASTM A351 CF8M
8	Bonnet Bolt	B8M A193
9	Bonnet Nut	8M A194
10	Packing	Graphite
11	Gland	A276 316
12	Gland Flange	A351 CF8M
13	Gland Eyebolt	B8M A193
14	Gland Nut	8M A194
15	Yoke Sleeve	Brass
16	Hand Wheel	Ductile Iron



ASME Class 150 Flanged Stainless Steel
Globe Valve
Sharpe® Series 45116



Dimensions (Sizes 14" – 16")

Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
14	13.27	15.00	33.50	21.00	18.75	16.25	1.38	18.11	1.125	12
16	15.24	16.00	35.12	23.50	21.25	18.25	1.44	18.11	1.125	16

ASME Class 150 Flanged Stainless Steel Globe Valve Sharpe® Series 45116



How to order Series 45116

3	45	-	1	1	6	
Size	Series		Class	Ends	Body Material	Suffixes & Options
Size	Series		Class	Ends	Body Material	Suffixes & Options
½	45		1 150 Flange	1 Flange	6 ASTM A351 CF8M SS †	GO Gear Operator*
¾				2 Butt-weld*		G Graphite stem packing & Grafoil-stainless steel bonnet gasket* (½"-12")
1						
1-½						
2						
2-½						
3						
4						
6						
8*						
10*						
12*						
14*						
16*						

Note:

*POA

† Closest cast equivalent to wrought 316 SS

Responsibility for proper selection, use and maintenance of any product remains solely with the purchaser and end user.

We reserve the right to modify or improve the designs or specifications of any product at any time without notice.