

ASME Class 300 Flanged Cast Steel
Globe Valve
Sharpe® Series 45314



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
- NACE: MR-0175

Technical Information

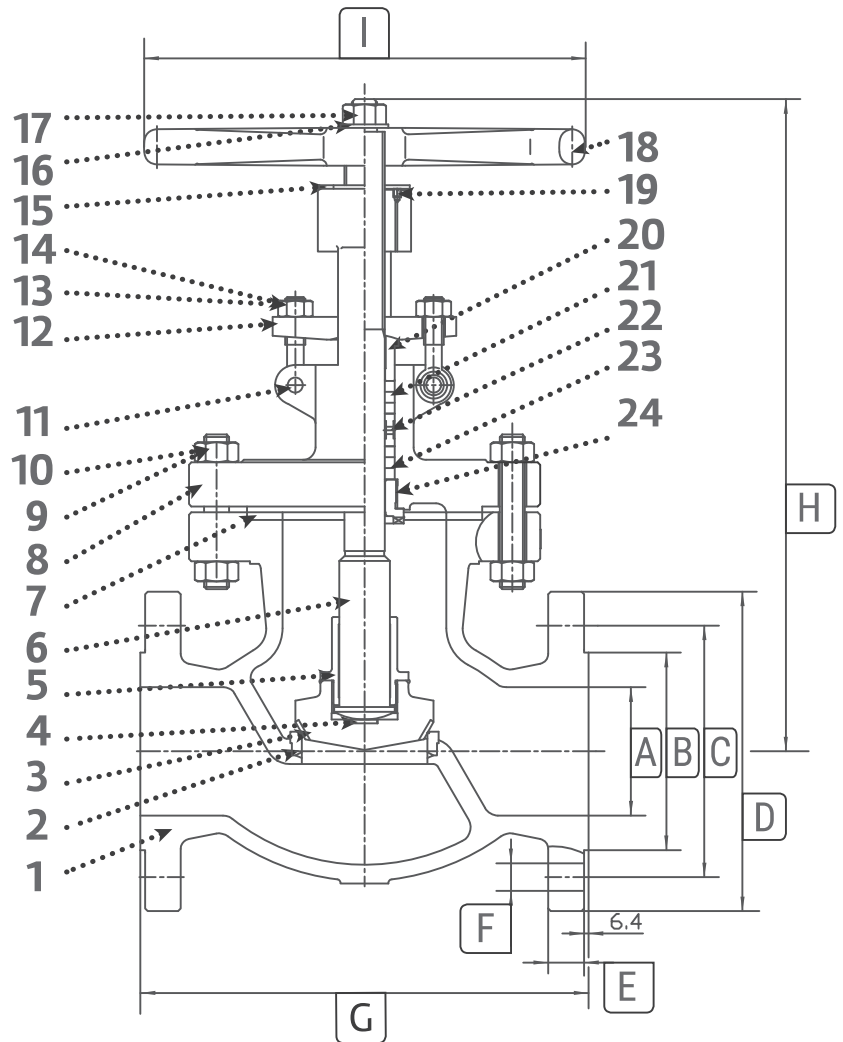
Temperature (°F)	Working Pressure (psi)
-20 to 100	740
200	680
300	655
400	635
500	605
600	570
650	550
700	530
750	505
800	410
850	320
900	230
950	135
1000	85

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Parts & Materials (Sizes 2" – 6")

No.	Part Name	Material
1	Body	Carbon Steel ASTM A216 - WCB
2	Seat	A105 & STL.6
3	Disc	A105 & 410 Stainless Steel
4	Thrust Plate	410 Stainless Steel
5	Disc Cover	410 Stainless Steel
6	Stem	A182 F6a
7	Gasket	304 Stainless Steel & Flexible Graphite
8	Bonnet	Carbon Steel ASTM A216 - WCB
9	Bolt	B7 Steel A193
10	Nut	2H Steel A194
11	Pin	Carbon Steel
12	Gland Flange	Carbon Steel
13	Eye Bolt	B7 Steel A193
14	Eye Nut	2H Steel A194
15	Stem Nut	D-2
16	Gasket	410 Stainless Steel
17	Nut	Carbon Steel
18	Hand-wheel	Ductile Iron
19	Screw	Carbon Steel
20	Gland	410 Stainless Steel
21	Packing	304 Stainless Steel & Graphite
22	Distance Ring	410 Stainless Steel
23	Packing	Flexible Graphite
24	Back Seat	410 Stainless Steel



Dimensions (Sizes 2" – 6")

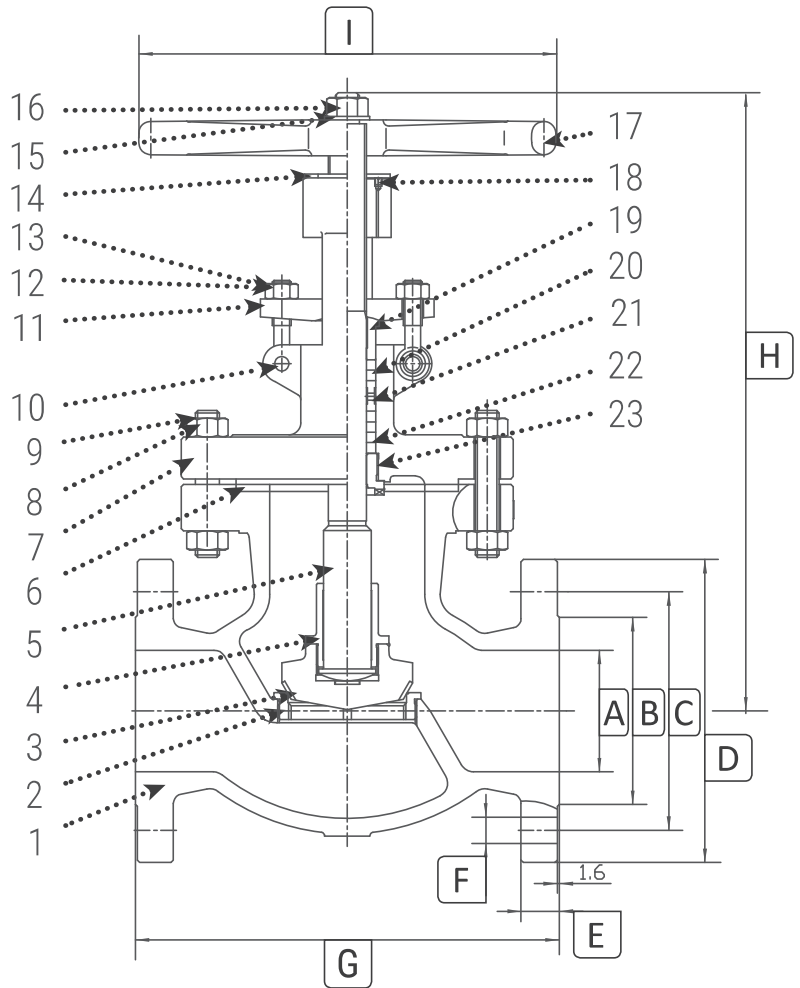
Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
2	2.00	3.62	5.00	6.50	0.87	0.75	10.50	13.74	7.87	8
2-½	2.50	4.12	5.88	7.50	1.00	0.875	11.50	15.43	9.84	8
3	3.00	5.00	6.62	8.25	1.12	0.875	12.50	16.93	9.84	8
4	4.00	6.19	7.88	10.00	1.25	0.875	14.00	19.13	11.80	8
6	6.00	8.50	10.62	12.50	1.44	0.875	17.50	24.33	15.75	12

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Parts & Materials (Sizes 8" – 16")

No.	Part Name	Material
1	Body	Carbon Steel ASTM A216 - WCB
2	Seat	A105 & STL.6
3	Disc	A105 & 410 Stainless Steel
4	Disc Cover	410 Stainless Steel
5	Stem	A182 F6a
6	Gasket	304 Stainless Steel & Flexible Graphite
7	Bonnet	Carbon Steel ASTM A216 - WCB
8	Bolt	B7 Steel A193
9	Nut	2H Steel A194
10	Pin	Carbon Steel
11	Gland Flange	Carbon Steel
12	Eye Bolt	B7 Steel A193
13	Eye Nut	2H Steel A194
14	Stem Nut	D-2
15	Gasket	410 Stainless Steel
16	Nut	Carbon Steel
17	Hand-wheel	Ductile Iron
18	Screw	Carbon Steel
19	Gland	410 Stainless Steel
20	Packing	304 Stainless Steel & Graphite
21	Distance Ring	410 Stainless Steel
22	Packing	Flexible Graphite
23	Back Seat	410 Stainless Steel



Parts & Materials (Sizes 8" – 16")

Size	A	B	C	D	E	F	G	H	I	Num of Bolt Holes
8	8.00	10.62	13.00	15.00	1.62	1.00	22.00	36.87	19.69	12
10	10.00	12.75	15.25	17.50	1.87	1.125	24.50	37.36	22.05	16
12	12.00	15.00	17.75	20.50	2.00	1.25	28.00	39.17	22.05	16
14	14.00	16.25	20.25	23.00	2.12	1.25	33.00	39.57	25.20	20
16	16.00	18.50	22.50	25.50	2.25	1.375	34.00	40.35	25.20	20

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How to order Series 45314

3	45	-	3	1	4	
Size	Series		Class	Ends	Body Material	Suffixes & Options
Size	Series		Class	Ends	Body Material	Suffixes & Options
2	45		3 300	1 Flange	4 ASTM A216 WCB Carbon Steel	G0 Gear Operator*
2-½				2 Butt-weld*		
3						
4						
6						
8						
10*						
12*						
14*						
16*						

Note:
*POA
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.