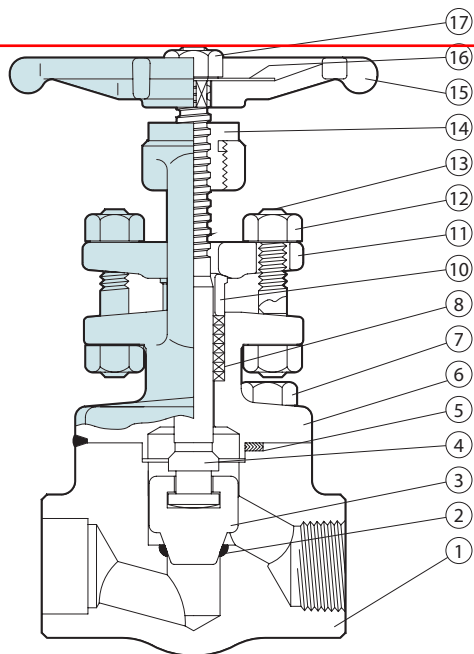


GLOBE VALVES - BOLTED / WELDED BONNET – REDUCED / FULL PORT


No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	13Cr Stainless Steel	A217-CA15
4	Stem	13Cr Stainless Steel	A276-410
5	Gasket	304 Spiral Wound Graphite	
6	Bonnet	Forged Steel	A105N
7	Bonnet Bolt	Alloy Steel	A193-B7
8	Gland Packing	Graphoil	
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Stainless Steel	A193-B6
14	Yoke Bush	13Cr Stainless Steel	A582-416
15	Handwheel	Malleable Iron	A47
16	Name Plate	Aluminum	
17	Handwheel Nut	Carbon Steel	A194-2H

CLASS 600 / 800 - API 602 / ASME B16.34 / BS 5352

Unit: mm (inch)

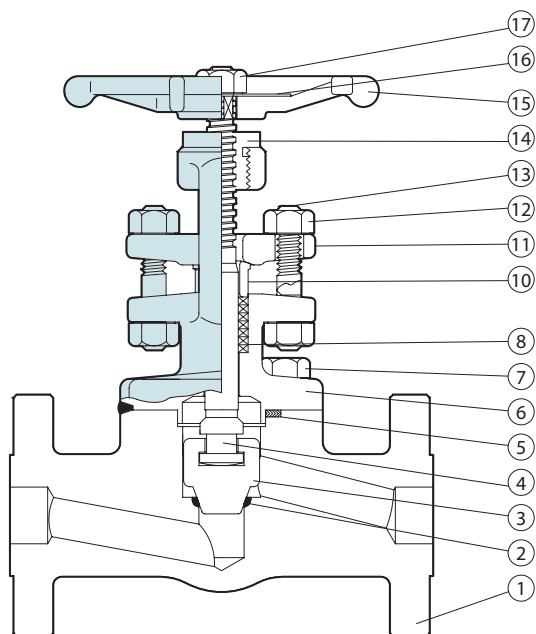
Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Reduced	1/2	86 (3.39)	76 (2.99)	146 (5.75)	9.5 (0.37)	1.8 (4.0)
	3/4	86 (3.39)	86 (3.39)	152 (5.98)	12.7 (0.50)	2.1 (4.6)
	1	99 (3.90)	102 (4.02)	188 (7.40)	17.5 (0.69)	2.9 (6.4)
	1 1/4	124 (4.88)	152 (5.98)	219 (8.62)	22.5 (0.89)	6.4 (14.1)
	1 1/2	124 (4.88)	152 (5.98)	219 (8.62)	29.5 (1.16)	6.4 (14.1)
	2	138 (5.43)	172 (6.77)	260 (10.24)	35.0 (1.38)	9.7 (21.4)
Full	1/2	86 (3.39)	86 (3.39)	157 (6.18)	12.7 (0.50)	2.1 (4.6)
	3/4	99 (3.90)	102 (4.02)	190 (7.48)	17.5 (0.69)	2.9 (6.4)
	1	124 (4.88)	152 (5.98)	225 (8.86)	23.0 (0.91)	6.4 (14.1)
	1 1/4	138 (5.43)	172 (6.77)	267 (10.51)	29.5 (1.16)	9.7 (21.4)
	1 1/2	138 (5.43)	172 (6.77)	267 (10.51)	35.0 (1.38)	9.7 (21.4)
	2	157 (6.18)	218 (8.58)	324 (12.76)	45.5 (1.79)	14.0 (30.9)

CLASS 1500 - API 602 / ASME B16.34 / BS 5352

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Reduced	1/2	86 (3.39)	86 (3.39)	147 (5.79)	9.5 (0.37)	2.0 (4.4)
	3/4	99 (3.90)	102 (4.02)	185 (7.28)	12.7 (0.50)	3.4 (7.5)
	1	124 (4.88)	152 (5.98)	210 (8.27)	17.5 (0.69)	6.5 (14.3)
	1 1/4	138 (5.43)	172 (6.77)	245 (9.65)	22.5 (0.89)	9.6 (21.2)
	1 1/2	138 (5.43)	172 (6.77)	245 (9.65)	29.5 (1.16)	9.6 (21.2)
	2	157 (6.18)	210 (8.27)	308 (12.13)	35.0 (1.38)	14.0 (30.9)

GLOBE VALVES – BOLTED / WELDED BONNET – REDUCED PORT



No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	13Cr Stainless Steel	A217-CA15
4	Stem	13Cr Stainless Steel	A276-410
5	Gasket	304 Spiral Wound Graphite	
6	Bonnet	Forged Steel	A105N
7	Bonnet Bolt	Alloy Steel	A193-B7
8	Gland Packing	Graphoil	
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Stainless Steel	A193-B6
14	Yoke Bush	13Cr Stainless Steel	A582-416
15	Handwheel	Malleable Iron	A47
16	Name Plate	Aluminum	
17	Handwheel Nut	Carbon Steel	A194-2H

CLASS 150 / 300 / 600 - API 602 / ASME B16.34 / BS 5352

Unit: mm (inch)

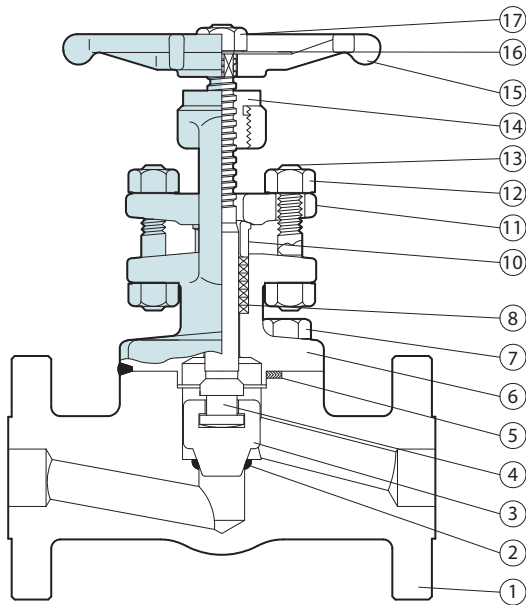
Port	Valve Size	Handwheel Diameter	Face to Face			Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)		
			Class 150	Class 300	Class 600			Class 150	Class 300	Class 600
Reduced	1/2	86 (3.39)	108 (4.25)	152 (6.00)	165 (6.50)	146 (5.75)	9.5 (0.37)	2.5 (5.5)	3.0 (6.6)	3.3 (7.3)
	3/4	86 (3.39)	117 (4.62)	178 (7.00)	190 (7.50)	152 (5.98)	12.7 (0.50)	3.1 (6.8)	4.0 (8.8)	4.6 (10.1)
	1	99 (3.90)	127 (5.00)	203 (8.00)	216 (8.50)	188 (7.40)	17.5 (0.69)	4.9 (10.8)	6.2 (13.7)	6.8 (15.0)
	1 1/2	124 (4.88)	165 (6.50)	229 (9.00)	241 (9.50)	219 (8.62)	29.5 (1.16)	9.2 (20.3)	11.4 (25.1)	12.7 (28.0)
	2	138 (5.43)	203 (8.00)	267 (10.50)	292 (11.50)	260 (10.24)	35.0 (1.38)	13.9 (30.7)	15.4 (34.0)	16.3 (35.9)

CLASS 1500 - API 602 / ASME B16.34 / BS 5352

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	Face to Face	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Reduced	1/2	86 (3.39)	216 (8.50)	147 (5.79)	9.5 (0.37)	6.5 (14.3)
	3/4	99 (3.90)	229 (9.00)	185 (7.28)	12.7 (0.50)	9.0 (19.9)
	1	124 (4.88)	254 (10.00)	210 (8.27)	17.5 (0.69)	14.5 (32.0)
	1 1/2	138 (5.43)	305 (12.00)	245 (9.65)	29.5 (1.16)	23.3 (51.4)
	2	157 (6.18)	368 (14.25)	308 (12.13)	35.0 (1.38)	35.5 (78.3)

GLOBE VALVES – BOLTED / WELDED BONNET – FULL PORT



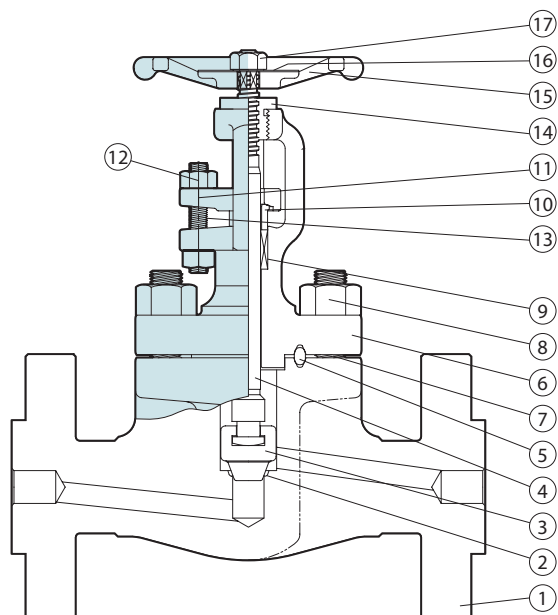
No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat Ring	Stellite 6 faced A276-410	
3	Disc	13Cr Stainless Steel	A217-CA15
4	Stem	13Cr Stainless Steel	A276-410
5	Gasket	304 Spiral Wound Graphite	
6	Bonnet	Forged Steel	A105N
7	Bonnet Bolt	Alloy Steel	A193-B7
8	Gland Packing	Graphoil	
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Stainless Steel	A193-B6
14	Yoke Sleeve	13Cr Stainless Steel	A582-416
15	Handwheel	Malleable Iron	A47
16	Name Plate	Aluminum	
17	Handwheel Nut	Carbon Steel	A563A

CLASS 150 / 300 / 600 - API 602 / ASME B16.34 / BS 5352

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	Face to Face			Center to Top (Open)			Dia. of Port Openings	Weight Kg (Lb)		
			Class 150	Class 300	Class 600	Class 150	Class 300	Class 600		Class 150	Class 300	Class 600
Full	1/2	86 (3.39)	108 (4.25)	152 (6.00)	165 (6.50)	168 (6.61)	152 (5.98)	152 (5.98)	13.0 (0.51)	3.1 (6.80)	4.0 (8.80)	4.6 (10.1)
	3/4	99 (3.90)	117 (4.62)	178 (7.00)	190 (7.50)	188 (7.40)	188 (7.40)	188 (7.40)	17.5 (0.69)	4.9 (10.8)	6.2 (13.7)	6.8 (15.0)
	1	124 (4.88)	127 (5.00)	203 (8.00)	216 (8.50)	219 (8.62)	219 (8.62)	219 (8.62)	29.5 (1.16)	9.2 (20.3)	11.4 (25.1)	12.7 (28.0)
	1 1/2	138 (5.43)	165 (6.50)	229 (9.00)	241 (9.50)	260 (10.2)	260 (10.2)	260 (10.2)	35.0 (1.38)	13.9 (30.7)	15.4 (34.0)	16.3 (35.9)
	2	157 (6.18)	203 (8.00)	267 (10.5)	292 (11.50)	324 (12.8)	324 (12.8)	324 (12.8)	45.5 (1.79)	18.7 (41.2)	21.5 (47.4)	23.6 (52.0)

GLOBE VALVES – RING JOINT BONNET – REDUCED / FULL PORT



No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	13Cr Stainless Steel	A217-CA15
4	Stem	13Cr Stainless Steel	A276-410
5	Gasket	Soft Iron	
6	Bonnet	Forged Steel	A105N
7	Bonnet Bolt	Alloy Steel	A193-B7
8	Bonnet Nut	Carbon Steel	A194-2H
9	Gland Packing	Graphoil	
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Stainless Steel	A193-B6
14	Yoke Bush	13Cr Stainless Steel	A582-416
15	Handwheel	Malleable Iron	A47
16	Name Plate	Aluminum	
17	Handwheel Nut	Carbon Steel	A194-2H

CLASS 1500 - API 602 / ASME B16.34 / BS 5352

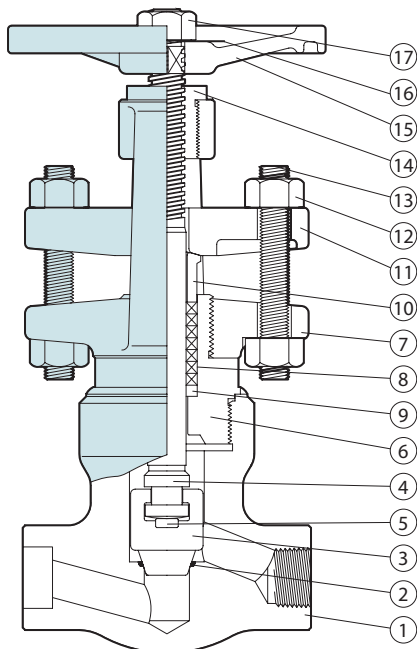
Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	Face to Face	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Reduced	1/2	124 (4.88)	216 (8.50)	286 (11.26)	10 (0.39)	11 (24)
	3/4	124 (4.88)	229 (9.00)	286 (11.26)	15 (0.59)	15 (33)
	1	200 (7.88)	254 (10.00)	339 (13.35)	18 (0.71)	18 (40)
	1 1/2	200 (7.88)	305 (12.00)	386 (15.20)	28 (1.10)	35 (77)
	2	250 (9.84)	368 (14.25)	480 (18.90)	35 (1.38)	57 (126)

CLASS 2500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	Face to Face	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	124 (4.88)	264 (10.38)	339 (13.35)	10 (0.39)	19 (42)
	3/4	124 (4.88)	273 (10.75)	339 (13.35)	15 (0.59)	20 (44)
	1	200 (7.88)	308 (12.12)	386 (15.20)	18 (0.71)	37 (82)
	1 1/2	200 (7.88)	384 (15.12)	439 (17.29)	28 (1.10)	57 (126)
	2	250 (9.84)	451 (17.75)	480 (18.90)	35 (1.38)	83 (183)

GLOBE VALVES – SEAL WELDED BONNET – REDUCED / FULL PORT


No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	Stellite 6 faced A276-410	
4	Stem	13Cr Stainless Steel	A276-410
5	Disc Pad	Stainless Steel	A276-316
6	Bonnet	Forged Steel	A105N
7	Yoke	Forged Steel	A105N
8	Gland Packing	Graphoil	
9	Packing Ring	Stainless Steel	A276-316
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Alloy Steel	A193-B7
14	Yoke Bush	High Tension Brass	
15	Handwheel	Malleable Iron	A47
16	Name Plate	Aluminum	
17	Handwheel Nut	Carbon Steel	A194-2H

CLASS 1500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Reduced	1/2	140 (5.51)	110 (4.33)	232 (9.13)	9.5 (0.37)	5 (11)
	3/4	140 (5.51)	110 (4.33)	232 (9.13)	12 (0.47)	5 (11)
	1	140 (5.51)	127 (5.00)	269 (10.59)	16 (0.63)	7 (15)
	1 1/4	200 (7.87)	155 (6.10)	280 (11.02)	20 (0.79)	12 (27)
	1 1/2	200 (7.87)	155 (6.10)	280 (11.02)	27 (1.06)	12 (27)
	2	230 (9.06)	210 (8.27)	390 (15.35)	32 (1.26)	21 (46)
Full	1/2	140 (5.51)	110 (4.33)	232 (9.13)	12 (0.47)	5 (11)
	3/4	140 (5.51)	127 (5.00)	269 (10.59)	16 (0.63)	7 (15)
	1	200 (7.87)	155 (6.10)	322 (12.68)	20 (0.79)	12 (27)
	1 1/4	230 (9.06)	210 (8.27)	390 (15.35)	27 (1.06)	21 (46)
	1 1/2	230 (9.06)	210 (8.27)	390 (15.35)	32 (1.26)	21 (46)
	2	250 (9.84)	229 (9.02)	471 (18.54)	39 (1.54)	35 (77)

CLASS 2500 - ASME B16.34

Unit: mm (inch)

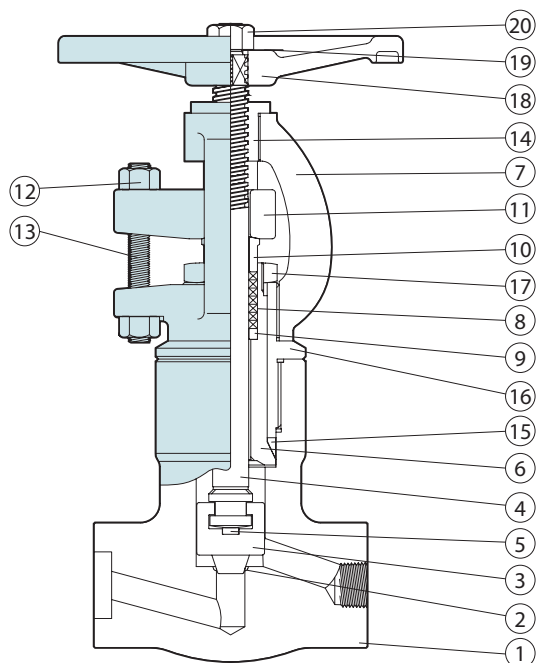
Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	140 (5.51)	110 (4.33)	238 (9.37)	10 (0.39)	5 (11)
	3/4	200 (7.87)	127 (5.00)	282 (11.10)	13 (0.51)	8 (18)
	1	230 (9.06)	155 (6.10)	322 (12.68)	18 (0.71)	13 (29)
	1 1/4	250 (9.84)	210 (8.27)	395 (15.55)	23 (0.91)	22 (49)
	1 1/2	250 (9.84)	210 (8.27)	395 (15.55)	26 (1.02)	22 (49)
	2	315 (12.4)	229 (9.02)	483 (19.02)	35 (1.38)	37 (82)

CLASS 4500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	200 (7.87)	127 (5.00)	282 (11.10)	7 (0.28)	8 (18)
	3/4	230 (9.06)	155 (6.10)	322 (12.68)	11 (0.43)	13 (29)
	1	250 (9.84)	210 (8.27)	395 (15.55)	14 (0.55)	22 (49)
	1 1/4	315 (12.4)	229 (9.02)	475 (18.70)	22 (0.87)	37 (82)
	1 1/2	315 (12.4)	229 (9.02)	475 (18.70)	22 (0.87)	37 (82)
	2	315 (12.4)	250 (9.84)	493 (19.41)	25 (0.98)	48 (106)

GLOBE VALVES – PRESSURE SEAL BONNET - FULL PORT



No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	Stellite 6 faced A276-410	
4	Stem	13Cr Stainless Steel	A276-410
5	Disc Pad	Stainless Steel	A276-316
6	Bonnet	Forged Steel	A105N
7	Yoke	Forged Steel	A105N
8	Gland Packing	Graphoil	
9	Packing Ring	Stainless Steel	A276-316
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Alloy Steel	A193-B7
14	Yoke Bush	High Tension Brass	
15	Gasket	Soft Iron	
16	Bonnet Guide	Forged Steel	A105N
17	Bonnet Nut	Carbon Steel	
18	Handwheel	Malleable Iron	A47
19	Name Plate	Aluminum	
20	Handwheel Nut	Carbon Steel	A194-2H

CLASS 1500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	140 (5.51)	155 (6.10)	312 (12.28)	12 (0.47)	11 (24)
	3/4	140 (5.51)	155 (6.10)	312 (12.28)	16 (0.63)	11 (24)
	1	200 (7.87)	210 (8.27)	373 (14.69)	20 (0.79)	17 (38)
	1 1/2	230 (9.06)	229 (9.02)	444 (17.48)	32 (1.26)	29 (64)
	2	250 (9.84)	235 (9.25)	504 (19.84)	39 (1.54)	43 (95)

CLASS 2500 - ASME B16.34

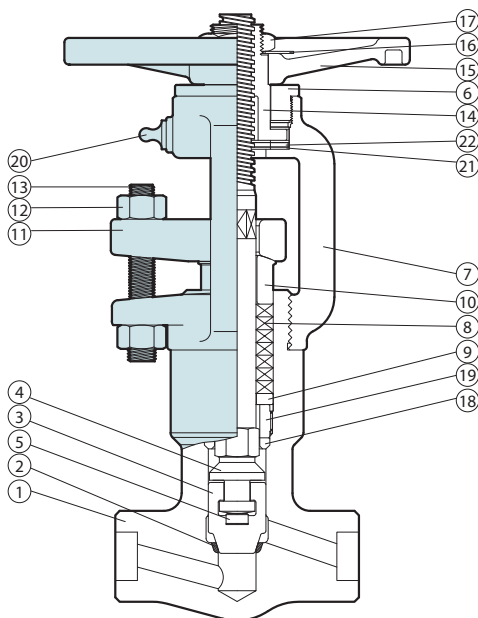
Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	140 (5.51)	155 (6.10)	312 (12.28)	10 (0.39)	11 (24)
	3/4	140 (5.51)	210 (8.27)	312 (12.28)	13 (0.51)	17 (38)
	1	200 (7.87)	229 (9.02)	373 (14.69)	18 (0.71)	29 (64)
	1 1/2	230 (9.06)	235 (9.25)	444 (17.48)	26 (1.02)	43 (95)
	2	250 (9.84)	235 (9.25)	477 (18.78)	35 (1.38)	43 (95)

CLASS 4500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	200 (7.87)	210 (8.27)	312 (12.28)	7 (0.28)	17 (38)
	3/4	200 (7.87)	210 (8.27)	373 (14.69)	11 (0.43)	18 (40)
	1	230 (9.06)	229 (9.02)	444 (17.48)	14 (0.55)	29 (64)
	1 1/2	250 (9.84)	235 (9.25)	477 (18.78)	22 (0.87)	43 (95)
	2	315 (12.4)	250 (9.84)	546 (21.50)	25 (0.98)	50 (110)

GLOBE VALVES - BONNETLESS - FULL PORT


No.	Parts	Material	A.S.T.M.
1	Body	Forged Steel	A105N
2	Seat	Integral Hardfaced Stellite 6	
3	Disc	Stellite 6 faced A276-410	
4	Stem	13Cr Stainless steel	A276-410
5	Disc Pad	Stainless Steel	A276-316
6	Yoke Cap	13Cr Stainless steel	A276-410
7	Yoke	Forged Steel	A105N
8	Gland Packing	Graphoil	
9	Paking Ring	Stainless Steel	A276-316
10	Gland	Stainless Steel	A276-316
11	Gland Flange	Forged Steel	A105
12	Gland Nut	Carbon Steel	A194-2H
13	Gland Bolt	Alloy Steel	A193-B7
14	Yoke Sleeve	13Cr Stainless steel	A276-410
15	Handwheel	Malleable Iron	A47
16	Name Plate	Stainless Steel	Aluminum
17	Handwheel Nut	Carbon Steel	A563A
18	Back Seat Ring	Stainless Steel	A276-316
19	Back Seat Bushing	13Cr Stainless steel	A276-410
20	Grease Nipple	Carbon Steel	
21	Needle Bearing Washer	-	
22	Needle Bearing	-	

CLASS 1500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	200 (7.87)	110 (4.33)	277 (10.91)	12 (0.43)	10 (22)
	3/4	200 (7.87)	127 (5.00)	277 (10.91)	16 (0.63)	11 (25)
	1	250 (9.84)	155 (6.10)	307 (12.09)	20 (0.79)	12 (27)
	1-1/2	315 (12.40)	210 (8.27)	420 (16.54)	32 (1.26)	36 (80)
	2	350 (13.78)	229 (9.02)	480 (18.90)	39 (1.54)	63 (139)

CLASS 2500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	200 (7.87)	110 (4.33)	277 (10.91)	10 (0.39)	10 (22)
	3/4	200 (7.87)	127 (5.00)	277 (10.91)	13 (0.51)	11 (25)
	1	250 (9.84)	155 (6.10)	307 (12.09)	18 (0.71)	12 (27)
	1-1/2	315 (12.40)	210 (8.27)	420 (16.54)	26 (1.02)	36 (80)
	2	350 (13.78)	229 (9.02)	480 (18.90)	35 (1.38)	63 (139)

CLASS 4500 - ASME B16.34

Unit: mm (inch)

Port	Valve Size	Handwheel Diameter	End to End	Center to Top (Open)	Dia. of Port Openings	Weight Kg (Lb)
Full	1/2	200 (7.87)	127 (5.00)	316 (12.44)	11 (0.43)	20 (44)
	3/4	200 (7.87)	127 (5.00)	316 (12.44)	11 (0.43)	20 (44)
	1	250 (9.84)	165 (6.50)	345 (13.58)	14 (0.55)	28 (62)
	1-1/2	315 (12.40)	250 (9.84)	481 (18.94)	25 (0.98)	67 (148)
	2	350 (13.78)	250 (9.84)	481 (18.94)	25 (0.98)	67 (148)