Gate Valve, BB, CS

Design

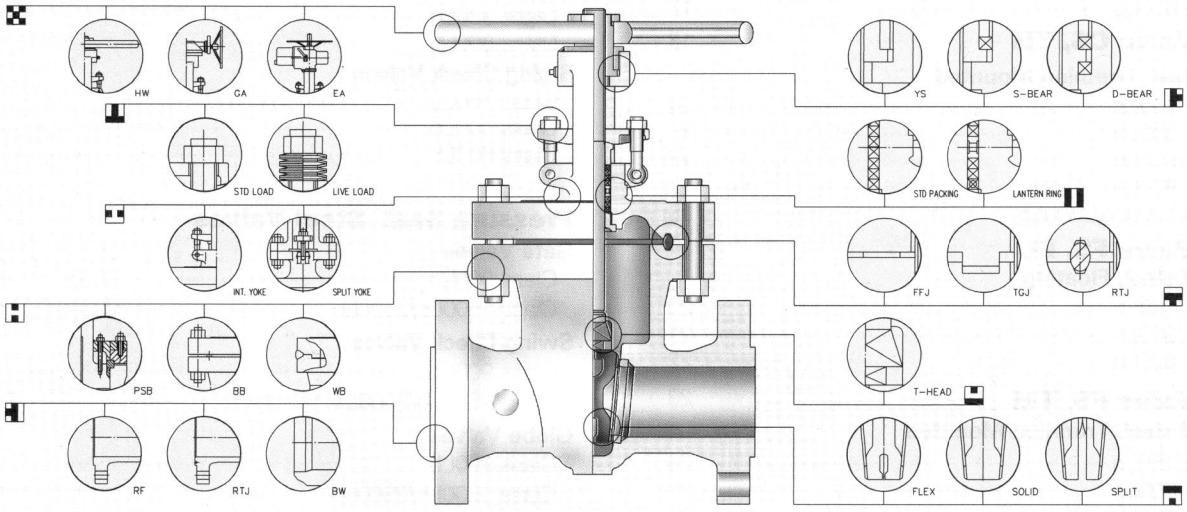
PASCO cast steel gate valve are designed and manufactured to provide maximum service life and dependability. All gate valves are full ported and meet the design requirements of American Petroleum Institute Standard API 600 & API 6D, British Standard BS 1414 & BS EN 1984 and generally conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.

Range of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special apolications they can be supplied in other grades of alloy and stainless steell. 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 PASCO Cast Steel 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



Operating

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

OS & Y

Outside Screw and Yoke. Cast steel gate valve yoke integral with bonnet for 150Lb–8", 300Lb–8", 600Lb–6", 900Lb–4" & Small.

End Connections

A choice of Flanged , RTJ flanged or Buttwelding end for piping flexibility.

Lantern ring and double packing set

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

Stem

All wedge gate valves are pro–vided with upset forged T–head stems. By forging the T–head, the stem at the stem–wedge connection is stregthened. This design also allows the wedge to self–align, eliminating the possibility of a bent stem jamm–ing the wedge.

Live Load Packing

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

BB

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

Yokesleeve

Extra long thread engagement between yoke sleeve and stem provide long thread life. Valves of sizes larger than 150Lb–12", 300Lb–10", 600Lb–6", 900Lb / 1500Lb / 2500Lb–4" are regularly provided with roll bearing yokes.

Body–to–Bonnet Joint

A flat face gasket joint is used in the 150Lb valves. A male and female joint is used in 300Lb to 600Lb valves. Ring joint is used in the body to bonnet connection in 900Lb & higher rated valves.

Wedge

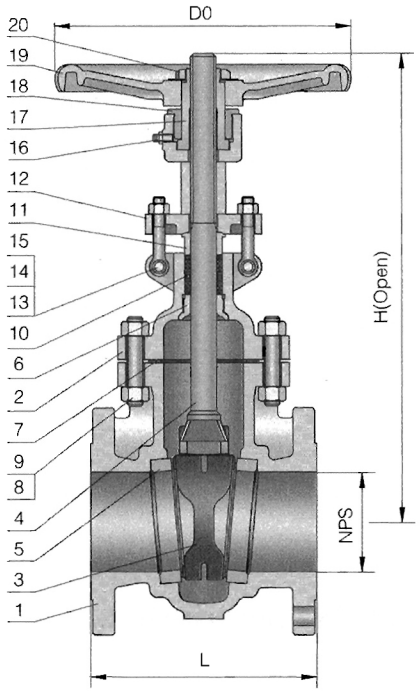
Integral guide rib faces assure self–centering of wedge. Flexible wedge gate valve has a one–piece, twin–disc wedge, which is designed so that each half flexes independently. Available in solid, flex split and HIS designs.

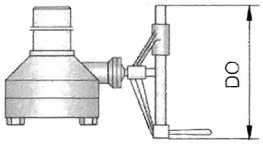
Applicable standards:

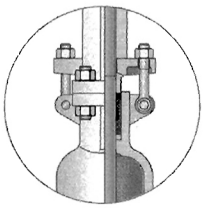
★STEEL GATE VALVES, API 600/API 6D
★STEEL GATE VALVES, ISO 10434/ISO 14313
★STEEL VALVES, ASME B16.34
★FACE TO FACE, ASME B16.10
★END FLANGES, ASME B16.5
★BUTTWELDING ENDS, ASME B16.25
★INSPECTION AND TEST, API 598/ API 6D

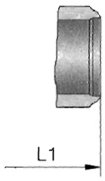
Fig. No:

◎G1F01A G1F05D G1F01B
◎G1B01A G1B05D G1B01B









Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	$1^1/_4Cr-^1/_2Mo$	Carbon Steel
1	Body	A216–WCB	A217–WC6	A352–LCB
2	Bonnet	A216–WCB	A217–WC6	A352–LCB
3	Wedge	A216–WCB+CR13	A217–WC6+HF	A352–LCB+CR13
4	Stem	A182–F6a	CR–MO–V	A182–F6a
5	Seat Ring	A105+CR13	A182–F11+HF	A350–LF2+CR13
6	Stem BackSeat	A276–420	A276–304	A276–420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193–B7	A193–B16	A320–L7
9	Bonnet Stud Nut	A194–2H	A194–7	A194–4
10	Packing	Graphite		
11	Gland	A276–420	A276–304	A276–420
12	Gland Flange	A216–WCB	A217–WC6	A352–LCB
13	Eyebolt Pin	Carbon Steel	A276–420	Carbon Steel
14	Eyebolt	Carbon Steel	A193–B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194–2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum–Bronze[1)]		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni–Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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▲FULL PORT DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲FLEXIBLE WEDGE, FULLY GUIDED
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▲RENEWABLE SEAT RINGS
▲FORGED T–HEAD STEM
▲RISING STEM AND NON–RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	18 / 450	20 / 500	24 / 600	26 / 650	28 / 700	30 / 750	32 / 800	36 / 900	in / mm
ANSI Class 150Lb																			
L (RF)	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	22.00	24.00	24.00	28.00	28.00	in
	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	mm
L1 (BW)	8.5	9.50	11.12	12.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	34.00	36.00	36.00	38.00	40.00	in
	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	mm
H (OPEN)	15.25	17.00	18.88	23.00	30.50	37.62	45.50	53.12	59.38	67.00	74.50	83.50	98.25	110.50	116.50	124.00	129.00	146.50	in
	386	434	480	584	765	956	1149	1350	1508	1703	1892	2119	2500	2806	2960	3150	3280	3720	mm
D0	8	8	10	12	12	14	16	18	20	22	24	26	29	29	32	32	38	40	in
	200	200	250	300	300	350	400	450	500	550	600	640	720	720	800	800	950	1000	mm
WT (Kg)	18	25	32	50	77	121	178	265	363	463	621	792	1190	1521	1838	2261	2490	3310	RF
	15	18	26	41	69	108	156	248	330	424	587	752	1144	1570	1900	3310	2540	3380	BW

Cast Steel Gate Valve 300Lb

Applicable standards:

★STEEL GATE VALVES, API 600/API 6D
★STEEL GATE VALVES, ISO 10434/ISO 14313
★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/ API 6D

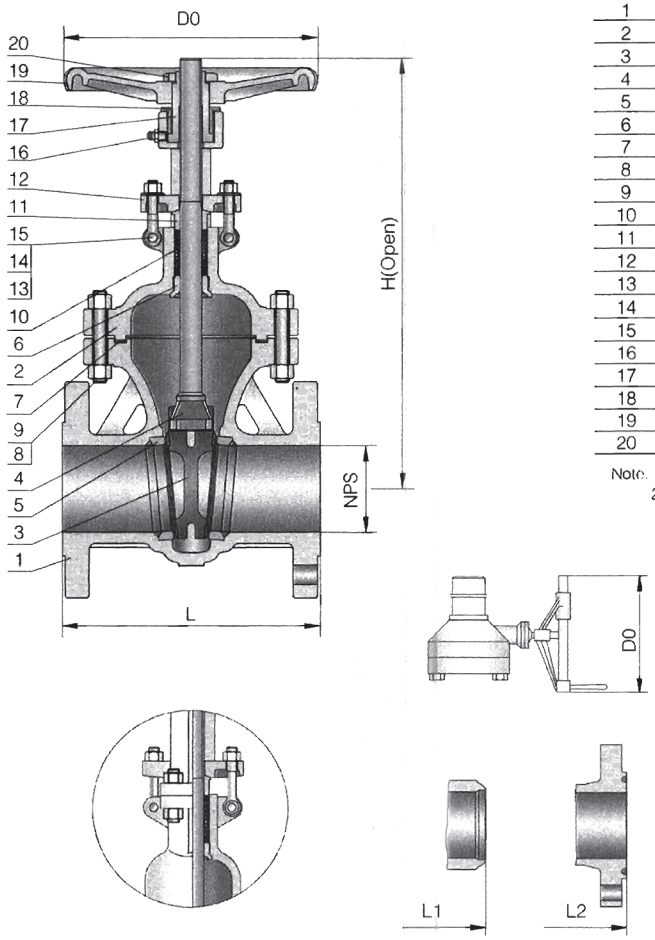
Fig. No:

◎G3F01A G3F05D G3F01B
◎G3B01A G3B05D G3B01B
◎G3R01A G3R05D G3R01B

Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1¼Cr-½Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze[1]		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



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▲RISING STEM AND NON-RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	18 / 450	20 / 500	24 / 600	26 / 650	28 / 700	30 / 750	32 / 800	36 / 900	in. / mm
ANSI Class 300Lb																			
L/L1 (RF/BW)	8.50 216	9.50 241	11.12 283	12.00 305	15.88 403	16.50 419	18.00 457	19.75 502	30.00 762	33.00 838	36.00 914	39.00 991	45.00 1143	49.00 1245	53.00 1346	55.00 1397	60.00 1524	68.00 1727	in. mm
L2 (RTJ)	9.12 232	10.12 257	11.75 298	12.62 321	16.50 419	17.12 435	18.62 473	20.38 518	30.62 778	33.62 854	36.62 930	39.75 1010	45.88 1165	50.00 1270	54.00 1372	56.00 1422	61.12 1553	69.12 1756	in. mm
H (OPEN)	16.12 410	17.88 453	20.00 509	24.00 612	31.75 805	39.38 1000	47.62 1210	55.75 1415	62.25 1580	67.88 1725	77.12 1960	86.38 2195	102.00 2590	117.00 2975	122.00 3100	126.00 3200	130.00 3300	152.00 3860	in. mm
D0	8 200	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	22 550	24 600	26 640	29 720	29 720	32 800	32 800	38 950	40 1000	in. mm
WT (Kg)	23 17	35 26	50 39	71 53	144 113	209 164	322 256	482 390	683 565	950 805	1145 965	1635 1410	2660 2305	3090 2540	3310 2725	3595 3055	3720 3360	3985 3630	RF/RTJ BW

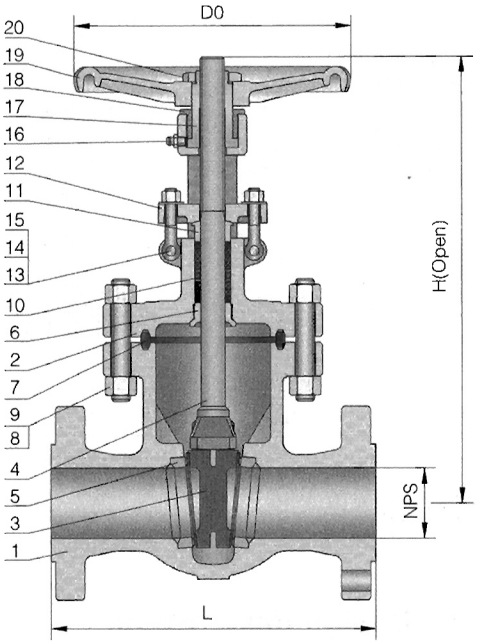
600Lb Cast Steel Gate Valve

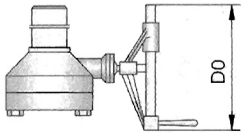
Applicable standards:

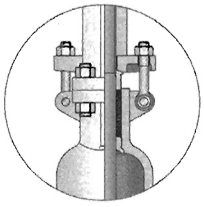
★STEEL GATE VALVES, API 600/API 6D
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★FACE TO FACE, ASME B16.10
★END FLANGES, ASME B16.5
★BUTTWELDING ENDS, ASME B16.25
★INSPECTION AND TEST, API 598/ API 6D

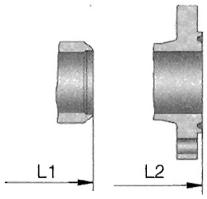
Fig. No:

◎G6F01A G6F05D G6F01B
◎G6B01A G6B05D G6B01B
◎G6R01A G6R05D G6R01B









Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	$1^1/_4Cr-^1/_2Mo$	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze[1]		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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Dimensions data

NPS / DN	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	18 / 450	20 / 500	24 / 600	26 / 650	28 / 700	30 / 750	32 / 800	36 / 900	in / mm
ANSI Class 600Lb																			
L/L1	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00	65.00	70.00	82.00	in
(RF/BW)	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	2083	mm
L2	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57 50	61.50	65.50	70.62	82.62	in
(RTJ)	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	1664	1794	2099	mm
H	16.50	18.75	20.38	25.50	33.00	40.38	48.38	57.00	62.00	70.62	76.00	87.00	101.50	105.00	109.50	114.00	124.00	140.00	in
(OPEN)	418	476	518	646	840	1025	1230	1450	1575	1795	1930	2210	2580	2665	2780	2895	3150	3560	mm
D0	8	10	10	12	18	20	24	24	24	24	26	26	29	29	32	32	38	40	in
	200	250	250	300	450	500	600	600	600	600	640	640	720	720	800	800	950	1000	mm
WT	36	52	67	112	170	393	610	890	1245	1530	1965	2450	2995	3475	3725	4045	4185	4480	RF/RTJ
(Kg)	29	42	53	83	125	310	472	730	1055	1240	1625	2030	2590	2855	3065	3440	3780	4085	BW

Cast Steel Gate Valve 900Lb

Applicable standards:

★STEEL GATE VALVES, API 600/API 6D
★STEEL GATE VALVES, ISO 10434/ISO 14313
★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/ API 6D

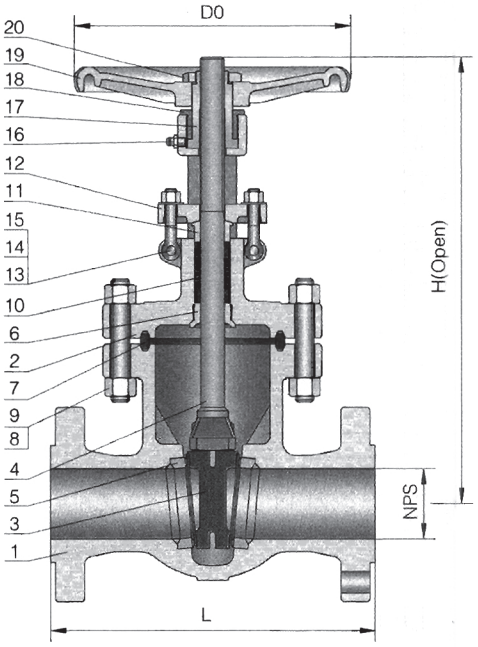
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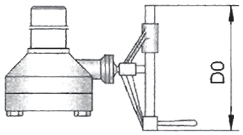
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◎G9R05A G9R05D G9R05B

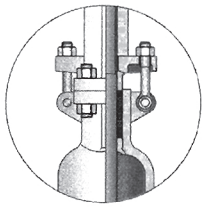
Materials of parts

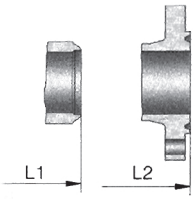
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4	Stem	A182–F6a	CR–MO–V	A182–F6a
5	Seat Ring	A105+HF	A182–F11+HF	A350–LF2+HF
6	Stem BackSeat	A276–420	A276–304	A276–420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193–B7	A193–B16	A320–L7
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L/L1	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50	48.00	52.00	61.00	in.
(RF/BW)	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	mm
L2	14.62	16.62	15.12	18.12	24 12	29.12	33.12	38.12	40.88	44.88	48.50	52.50	61.75	in.
(RTJ)	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568	mm
H	19.62	21.50	22.50	26.62	35.50	43.50	53.00	60.00	74.88	81 00	87.00	101.00	104.00	in.
(OPEN)	498	547	573	678	900	1103	1345	1525	1900	2055	2215	2565	2640	mm
D0	10	10	12	18	20	24	26	29	32	32	38	38	40	in.
	250	250	300	450	500	600	640	720	800	800	950	950	1000	mm
WT	74	131	101	172	335	640	1100	1600	2250	2850	3060	3935	4900	RF/RTJ
(Kg)	54	105	78	135	260	515	920	1380	2010	2565	2485	3250	4065	BW

1500Lb Cast Steel Gate Valve

Applicable standards:

★STEEL GATE VALVES, API 600/API 6D
★STEEL GATE VALVES, ISO 10434/ISO 14313
★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/ API 6D

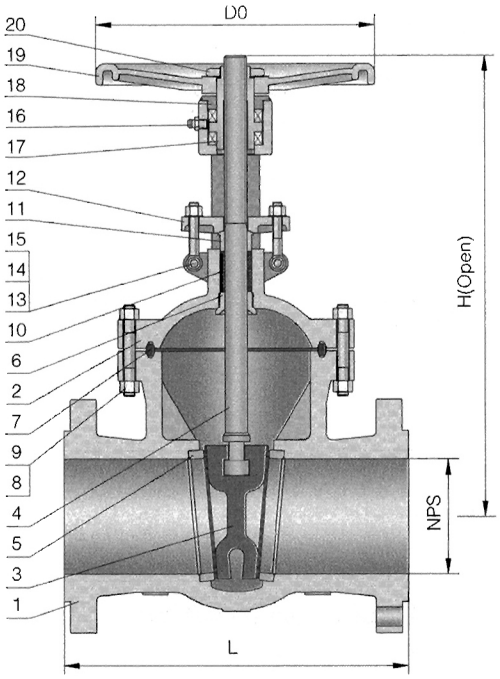
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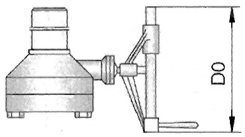
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◎G15B05A	G15B05D	G15B05B	◎G25B05A	G25B05D	G25B05B
◎G15R05A	G15R05D	G15R05B	◎G25R05A	G25R05D	G25R05B

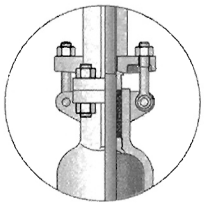
Materials of parts

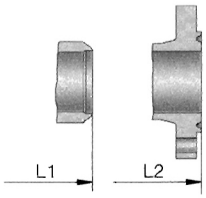
NO	Part Name	ASTM Material		
		Carbon Steel	$1^1/_4Cr-^1/_2Mo$	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+HF	A182-F11+HF	A350-LF2+HF
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze[1)]		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.









Design description:

▲FULL PORT DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲FLEXIBLE WEDGE, FULLY GUIDED
▲CHOICE OF SOLID OR SPLIT WEDGE
▲RENEWABLE SEAT RINGS
▲FORGED T-HEAD STEM
▲RISING STEM AND NON-RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	18 / 450	20 / 500	24 / 600	in / mm
ANSI Class 1500Lb														
L/L1 (RF/BW)	14.50 368	16.50 419	18.50 470	21.50 546	27.75 705	32.75 832	39.00 991	44.50 1130	49.50 1257	54.50 1384	60.50 1537	65.50 1664	76.50 1943	in mm
L2 (RTJ)	15.50 371	16.62 422	18.62 473	21.62 549	28.00 711	33.12 841	39.38 1000	45.12 1146	50.25 1276	55.38 1407	61.38 1559	66.38 1686	77.62 1972	in mm
H (OPEN)	24.25 615	26.00 658	30.00 760	34.12 868	39.50 1005	45.00 1145	54.00 1370	61.00 1550	74.88 1900	80.50 2050	93.75 2380	101.50 2580	114.75 2915	in mm
D0	10 250	12 300	18 450	20 500	24 600	18 460	18 460	24 600	24 600	24 600	24 600	24 600	24 600	in mm
WT (Kg)	116 105	166 150	209 188	296 265	510 412	920 760	1910 1640	3145 2755	4100 3200	6200 5300	8965 8070	13100 11790	15860 14275	RF/RTJ BW

Cast Steel Gate Valve 2500Lb

Applicable standards:

★STEEL GATE VALVES, API 600/API 6D
★STEEL GATE VALVES, ISO 10434/ISO 14313
★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/ API 6D

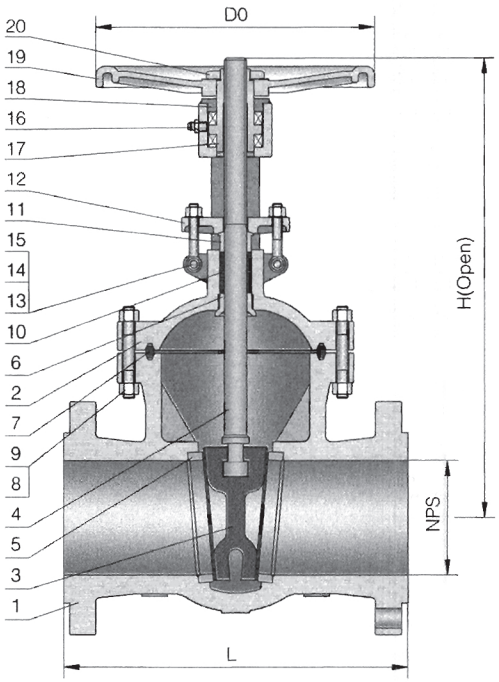
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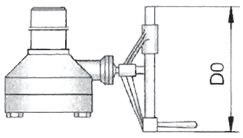
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◎G15B05A	G15B05D	G15B05B	◎G25B05A	G25B05D	G25B05B
◎G15R05A	G15R05D	G15R05B	◎G25R05A	G25R05D	G25R05B

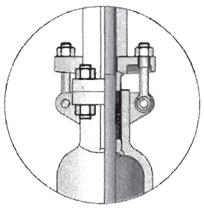
Materials of parts

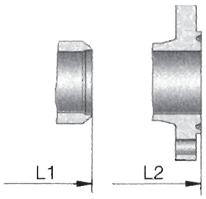
NO	Part Name	ASTM Material		
		Carbon Steel	1¼Cr-½Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+HF	A182-F11+HF	A350-LF2+HF
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze[1])		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1) Ductile Ni-Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.









Design description:

▲FULL PORT DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲FLEXIBLE WEDGE, FULLY GUIDED
▲CHOICE OF SOLID OR SPLIT WEDGE
▲RENEWABLE SEAT RINGS
▲FORGED T-HEAD STEM
▲RISING STEM AND NON-RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	18 / 450	20 / 500	24 / 600	in / mm
ANSI Class 2500Lb														
L/L1	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	-	-	-	-	-	in
(RF/BW)	451	508	578	673	914	1022	1270	1422	-	-	-	-	-	mm
L2	17.88	20.50	23.00	26.88	36.50	40.88	50.88	56.88	-	-	-	-	-	in
(RTJ)	454	514	584	683	927	1038	1292	1445	-	-	-	-	-	mm
H	24.88	29.00	35.00	41.50	57.00	63.38	81.75	89.75	-	-	-	-	-	in
(OPEN)	631	736	890	1055	1450	1610	2075	2280	-	-	-	-	-	mm
D0	12	18	20	20	24	24	24	24	-	-	-	-	-	in
	300	450	500	500	600	600	600	600	-	-	-	-	-	mm
WT	155	210	310	580	1600	2450	4570	7150	-	-	-	-	-	RF/RTJ
(Kg)	124	160	245	460	1310	2010	3800	6000	-	-	-	-	-	BW

Compact Steel Gate Valve 800Lb

Applicable standards:

★STEEL GATE 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

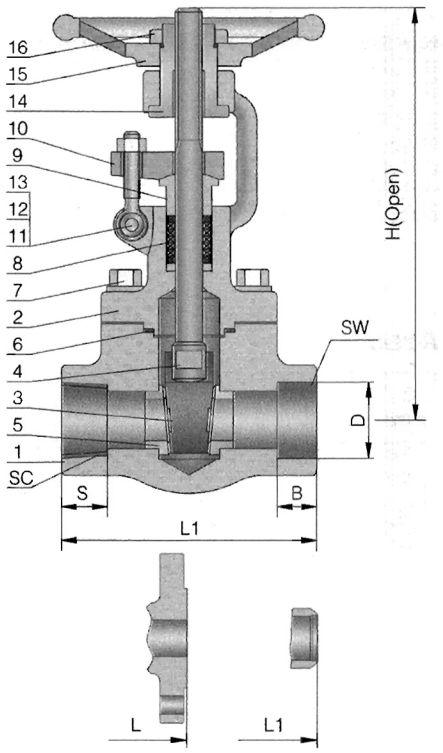
Fig. No:

◎G8F01FA	G8B01FA	G8S01FA	G8T01FA
◎G8F01FD	G8B01FD	G8S01FD	G8T01FD
◎G8F01FN	G8B01FN	G8S01FN	G8T01FN

Materials of parts

NO	Part Name	ASTM Material		
		C-Si	16Cr-12Ni-2Mo	$1^{1}/_{4}$Cr-$^{1}/_{2}$Mo-Si
1	Body	A105	A182-F316	A182-F11
2	Bonnet	A105	A182-F316	A182-F11
3	Wedge	A182-F6a	A182-F316	A182-F6a+HF
4	Stem	A276-410	A276-316	A276-410
5	Seat Ring	A276-410	A182-F316	A276-410+HF
6	Bonnet Gasket[1)]	Graphite+304	Graphite+316	Graphite+304
7	Bonnet Stud	A193-B7	A193-B8M	A193-B16
8	Packing	Graphite		
9	Gland	A276-410	A276-316	A276-410
10	Gland Flange	A105	A182-F316	A182-F11
11	Eyebolt Pin	A276-410	A276-316	A276-410
12	Eyebolt	A193-B7	A193-B8M	A193-B16
13	Eyebolt Nut	A194-2H	A194-8M	A194-2H
14	Yokesleeve	A276-410		
15	Handwheel	Malleable Iron		
16	Handwheel Nut	Carbon Steel		

Note: 1). Spiral wound construction.



150-600Lb

Design description:

▲OUTSIDE SCREW AND YOKE (OS&Y)
▲BOLTED BONNET
▲CHOICE OF WB, WELDING BONNET
▲SINGLE WEDGE, FULLY GUIDED
▲RENEWABLE SEAT RINGS
▲YOKE INTEGRAL WITH BONNET
▲RISING STEM AND NON-RISING HANDWHEEL
▲SW, SOCKET-WELDING ENDS
▲SC, SCREWED ENDS
▲BW, BUTTWELDING ENDS
▲FLANGED ENDS

Dimensions data

NPS DN	Unit	L1[1)]	L (Flanged Ends)			d	SW		SC		H (Open)	D0	WT[2)] (Kg)
			150Lb	300Lb	600Lb		D	B	NPT	S			
3/8	in.	3.12	4.00	5.50	6.50	0.394	0.693	0.378	3/8	0.540	6.00	4.00	4.5/4
10	mm	79	102	140	165	10	17.6	9.6		13.6	151	100	
1/2	in.	3.12	4.25	5.50	6.50	0.394	0.858	0.378	1/2	0.535	6.00	4.00	5.1/4
15	mm	79	108	140	165	10	21.8	9.6		13.6	151	100	
3/4	in.	3.62	4.62	6.00	7.50	0.531	1.067	0.500	3/4	0.547	6.25	4.00	8.2/4.3
20	mm	92	117	152	190	13.5	27.1	12.7		13.9	158	100	
1	in.	4.38	5.00	6.50	8.50	0.709	1.331	0.500	1	0.681	7.25	5.00	10.5/6.6
25	mm	111	127	165	216	18	33.8	12.7		17.3	185	125	
1 1/4	in.	4.75	5.50	7.00	9.00	0.945	1.677	0.500	1 1/4	0.709	9.38	6.25	12.4/9.5
32	mm	120	140	178	229	24	42.6	12.7		18	239	160	
1 1/2	in.	4.75	6.50	7.50	9.50	1.181	1.917	0.500	1 1/2	0.724	9.50	6.25	20.1/11
40	mm	120	165	190	241	30	48.7	12.7		18.4	243	160	
2	in.	5.50	7.00	8.50	11.50	1 437	2 406	0.626	2	0.756	11.00	7.00	28/14.5
50	Mm	140	178	216	292	36.5	61.1	15.9		19.2	279	180	

NOTES: 1) BW, SW or SC.
2) 600Lb-RF/800Lb-(BW/SW/SC).

Globe Valve, BB, CS

Design

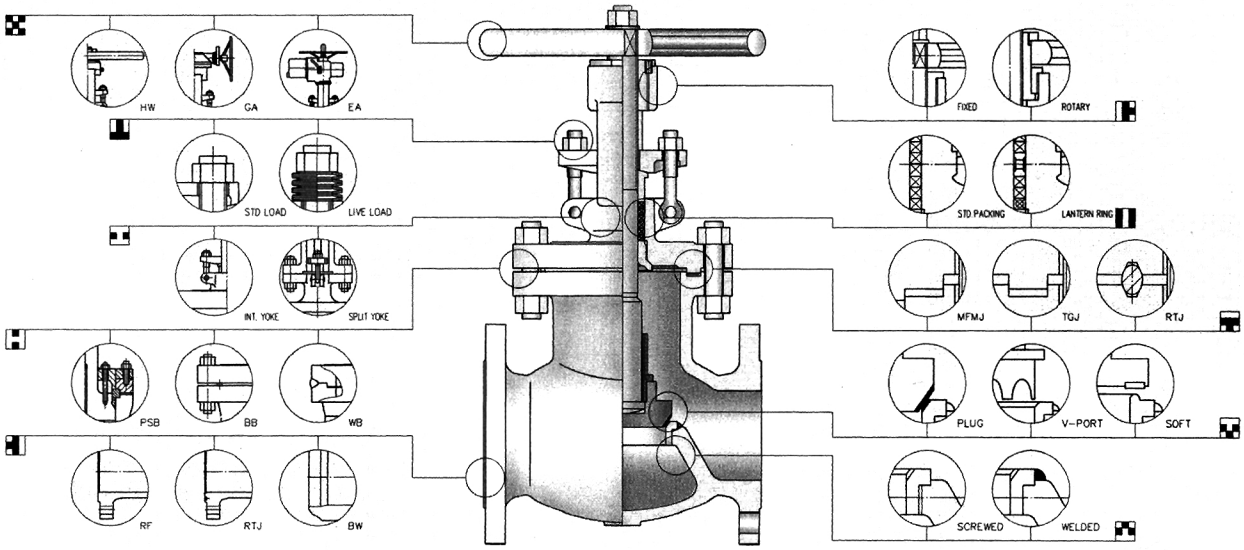
PASCO cast steel globe valve are designed and manufactured to provide maximum service life and dependability. All globe valves are full ported and meet the design requirements of American Petroleum Institute Standard API 600 & API 6D, BS EN 13709 and generally conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.

Range of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special apolications they can be supplied in other grades of alloy and stainless steell. 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 PASCO Cast Steel 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



Operating

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

OS & Y

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

End Connections

A choice of Flanged , RTJ flanged or Buttwelding end for piping flexibility.

Lantern ring and double packing set

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

Disc

Plug disc is stem guided on all sizes. Disc has a differential angle front the seat to provide a line contact for maximum sealing. The bottom of V–port disc is fuided by the body seat ring for maximum disc stability in throttling applications. The soft TEFL ON ring is excellent for lower temperature service where tight shutoff is required.

Live Load Packing

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

BB

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

Yokesleeve

Furnished in aluminum bronze to reduce operating torque. Most sizes furnished with ball bearing yokesleeves.

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.

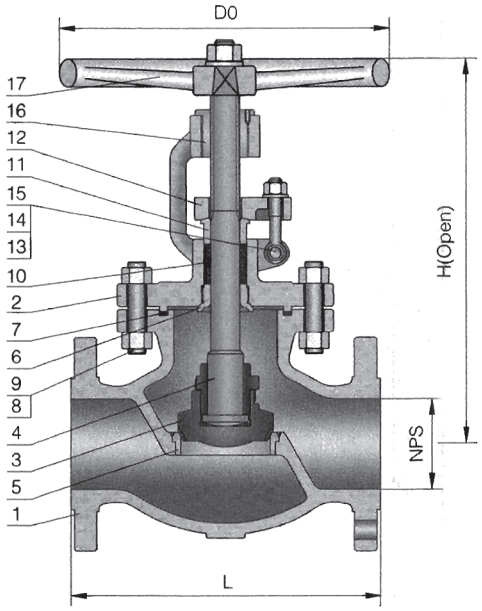
Seat Rings

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

Cast Steel Globe Valve 150Lb/300Lb

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



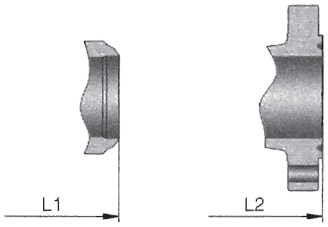


Fig. No:

◎GL1F01A GL1F05D GL1F01B
◎GL1B01A GL1B05D GL1B01B

◎GL3F01A GL3F05D GL3F01B
◎GL3B01A GL3B05D GL3B01B
◎GL3R01A GL3R05D GL3R01B

Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1¼Cr-½Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A105+CR13	A182-F11+HF	A350-LF2+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Yokesleeve	Aluminum-Bronze[1]		
17	Handwheel	Malleable Iron		

Note: 1). Ductile Ni-Resist optional
2). Disc and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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
▲IMPACT HANDWHEEL FOR 10 & ABOVE
▲HORIZONTAL SERVICE
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

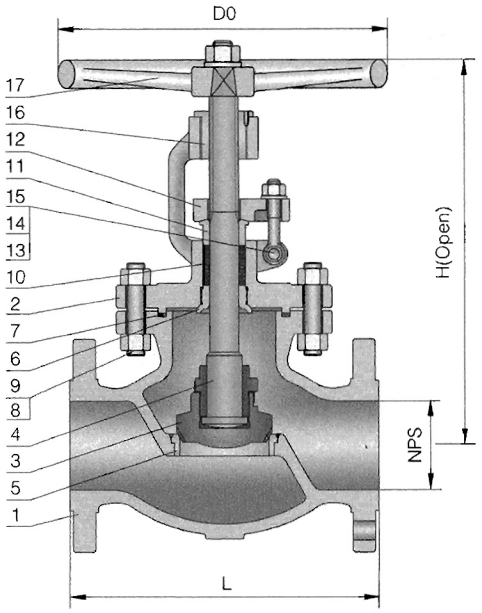
Dimensions data

NPS	DN	L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)		L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)	
		ANSI Class 150Lb										ANSI Class 300Lb									
2	50	8.00	203	8.00	203	15.00	380	7	180	18	14	10.50	267	11.12	282	16.75	425	8	200	25	20
2½	65	8.50	216	8.50	216	21.00	535	10	240	30	22	11.50	292	12.12	308	19.00	485	10	240	32	22
3	80	9.50	241	9.50	241	17.50	445	11	280	41	33	12.50	318	13.12	333	19.88	505	11	280	38	27
4	100	11.50	292	11.50	292	20.25	515	11	280	64	43	14.00	356	14.62	371	22.50	570	13	320	56	41
6	150	16.00	406	16.00	406	22.00	560	13	320	86	72	17.50	444	18.12	460	25.25	640	16	400	96	75
8	200	19.50	495	19.50	495	24.25	615	13	320	110	88	22.00	559	22.62	575	33.25	845	18	450	150	117
10	250	24.50	622	24.50	622	32.00	815	16	400	280	245	24.50	622	25.12	638	35.50	900	20	500	360	310
12	300	27.50	698	27.50	698	35.88	910	18	450	380	345	28.00	711	28.62	727	38.62	980	24	600	550	492
14	350	31.00	787	31.00	787	48.38	1230	20	500	510	450	–	–	–	–	–	–	–	–	–	–
16	400	36.00	914	36.00	914	57.00	1450	24	600	740	665	–	–	–	–	–	–	–	–	–	–
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	RF	BW	in.	mm	in.	mm	in.	mm	in.	mm	RF/RTJ	BW

600Lb/900Lb Cast Steel Globe Valve

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



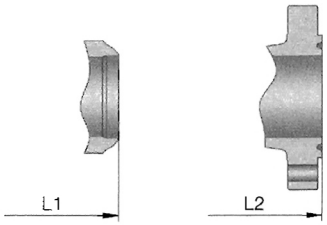


Fig. No:

◎ GL6F01A	GL6F05D	GL6F01B	◎ GL9F05A	GL9F05D	GL9F05B
◎ GL6B01A	GL6B05D	GL6B01B	◎ GL9B05A	GL9B05D	GL9B05B
◎ GL6R01A	GL6R05D	GL6R01B	◎ GL9R05A	GL9R05D	GL9R05B

Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	$1^1/_4Cr-^1/_2Mo$	Carbon Steel
1	Body	A216–WCB	A217–WC6	A352–LCB
2	Bonnet	A216–WCB	A217–WC6	A352–LCB
3	Disc	A105+CR13	A182–F11+HF	A350–LF2+CR13
4	Stem	A182–F6a	CR–MO–V	A182–F6a
5	Seat Ring	A105+HF	A182–F11+HF	A350–LF2+HF
6	Stem BackSeat	A276–420	A276–304	A276–420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193–B7	A193–B16	A320–L7
9	Bonnet Stud Nut	A194–2H	A194–7	A194–4
10	Packing	Graphite		
11	Gland	A276–420	A276–304	A276–420
12	Gland Flange	A216–WCB	A217–WC6	A352–LCB
13	Eyebolt Pin	Carbon Steel	A276–420	Carbon Steel
14	Eyebolt	Carbon Steel	A193–B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194–2H	Carbon Steel
16	Yokesleeve	Aluminum–Bronze[1]		
17	Handwheel	Malleable Iron		

Note: 1) Ductile Ni–Resist optional
2). Disc and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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
▲IMPACT HANDWHEEL FOR 10 & ABOVE
▲HORIZONTAL SERVICE
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

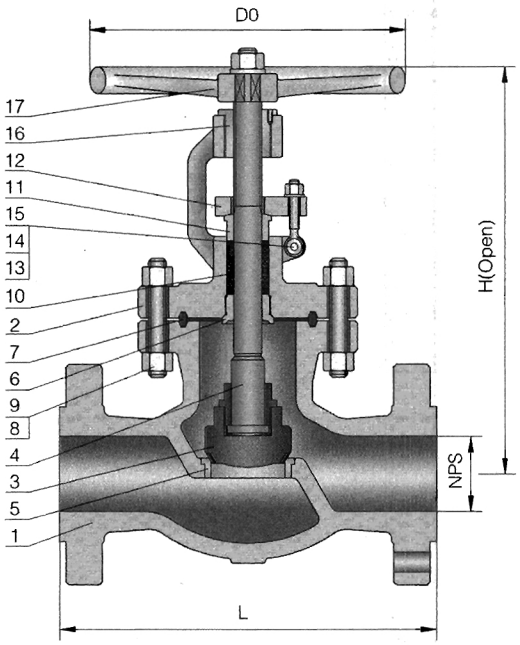
Dimensions data

NPS	DN	L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)		L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)	
		ANSI Class 600Lb										ANSI Class 900Lb									
2	50	11.50	292	11.62	295	17.50	445	10	240	35	27	14.50	368	14.62	371	22.00	560	11	280	57	41
2½	65	13.00	330	13.12	333	19.75	502	11	280	50	34	16.50	419	16.62	422	23.25	590	13	320	82	53
3	80	14.00	356	14.12	359	21.00	533	13	320	60	42	15.00	381	15.12	384	25.25	640	16	400	92	58
4	100	17.00	432	17.12	435	24.50	622	16	400	110	84	18.00	457	18.12	460	31.88	810	18	450	168	117
6	150	22.00	559	22.12	562	29.50	750	18	450	230	192	24.00	610	24.12	613	41.38	1050	20	500	365	238
8	200	26.00	660	26.12	663	36.50	927	20	500	410	350	29.00	737	29.12	740	53.50	1360	24	600	665	538
10	250	31.00	787	31.12	790	44.88	1140	24	600	770	680	33.00	838	33.12	841	61.88	1570	24	600	1250	1060
12	300	33.00	838	33.12	841	53.12	1350	24	600	1140	1030	–	–	–	–	–	–	–	–	–	–
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	RF/RTJ	BW	in.	mm	in.	mm	in.	mm	in.	mm	RF/RTJ	BW

Cast Steel Globe Valve 1500Lb/2500Lb

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



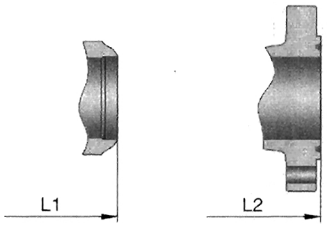


Fig. No:

◎GL15F05A	GL15F05D	GL15F05B	◎GL25F05A	GL25F05D	GL25F05B
◎GL15B05A	GL15B05D	GL15B05B	◎GL25B05A	GL25B05D	GL25B05B
◎GL15R05A	GL15R05D	GL15R05B	◎GL25R05A	GL25R05D	GL25R05B

Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	$1^1/_4Cr-^1/_2Mo$	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A105+CR13	A182-F11+HF	A350-LF2+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+HF	A182-F11+HF	A350-LF2+HF
6	Stem BackSeat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Yokesleeve	Aluminum-Bronze[1]		
17	Handwheel	Malleable Iron		

Note: 1). Ductile Ni-Resist optional
2). Disc and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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
▲IMPACT HANDWHEEL FOR 10" & ABOVE
▲HORIZONTAL SERVICE
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

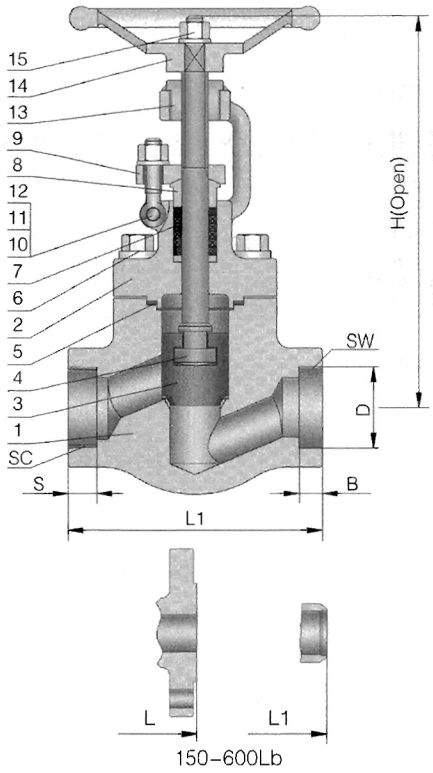
Dimensions data

NPS	DN	L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)		L/L1 (RF/BW)		L2 (RTJ)		H (OPEN)		D0		WT (Kg)	
		ANSI Class 1500Lb										ANSI Class 2500Lb									
2	50	14.50	368	14.62	371	22.00	560	13	320	68	57	17.75	451	17.88	454	25.50	650	16	400	97	72
2½	65	16.50	419	16.62	422	23.25	590	16	400	97	81	20.00	508	20.50	514	28.12	715	18	450	138	95
3	80	18.50	470	18.62	473	29.50	750	18	450	116	95	22.75	578	23.00	584	32.50	825	20	500	167	108
4	100	21.50	546	21.62	549	36.00	915	20	500	215	184	26.50	673	26.88	683	47.00	1195	24	600	305	196
6	150	27.75	705	28.00	711	48.62	1235	24	600	445	347	36.00	914	36.50	927	70.50	1790	28	700	633	351
8	200	32.75	832	33.12	841	65.00	1650	28	700	795	635	–	–	–	–	–	–	–	–	–	–
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	RF/RTJ	BW	in.	mm	in.	mm	in.	mm	in.	mm	RF/RTJ	BW

Compact Steel Globe Valve 800Lb

Applicable standards:

★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



150-600Lb

Fig. No:

○GL8F01FA	GL8B01FA	GL8S01FA	GL8T01FA
○GL8F01FD	GL8B01FD	GL8S01FD	GL8T01FD
○GL8F01FN	GL8B01FN	GL8S01FN	GL8T01FN

Materials of parts

NO	Part Name	ASTM Material		
		C-Si	16Cr-12Ni-2Mo	$1^1/_4$Cr-$^1/_2$Mo-Si
1	Body	A105	A182-F316	A182-F11
2	Bonnet	A105	A182-F316	A182-F11
3	Disc	A182-F6a	A182-F316	A182-F6a+HF
4	Stem	A276-410	A276-316	A276-410
5	Bonnet Gasket[2]	Graphite+304	Graphite+316	Graphite+304
6	Bonnet Stud	A193-B7	A193-B8M	A193-B16
7	Packing	Graphite		
8	Gland	A276-410	A276-316	A276-410
9	Gland Flange	A105	A182-F316	A182-F11
10	Eyebolt Pin	A276-410	A276-316	A276-410
11	Eyebolt	A193-B7	A193-B8M	A193-B16
12	Eyebolt Nut	A194-2H	A194-8M	A194-2H
13	Yokesleeve	A276-410		
14	Handwheel	Malleable Iron		
15	Handwheel Nut	Carbon Steel		

Note 1). Seat integral with body.
2). Spiral wound construction.

Design description:

▲OUTSIDE SCREW AND YOKE (OS&Y)
▲BOLTED BONNET
▲CHOICE OF WB, WELDING BONNET
▲LOOSE DISC, CHOICE OF PLUG OR BALL
▲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

Dimensions data

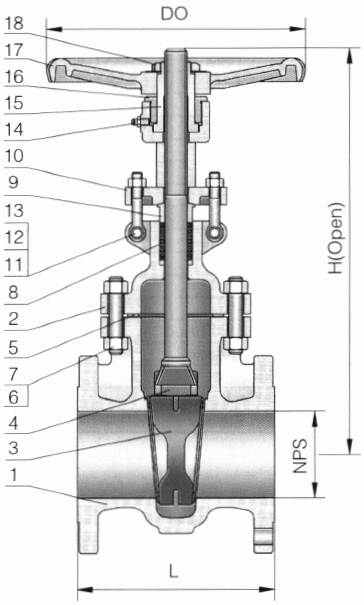
NPS DN	Unit	L1[1]	L (Flanged Ends)			d	SW		SC		H (Open)	D0	WT[2] (Kg)
			150Lb	300Lb	600Lb		D	B	NPT	S			
3/8	in.	3.12	4.00	6.00	6.50	0.354	0.693	0.378	3/8	0.540	6.50	4.00	3.8/2.8
10	mm	79	102	152	165	9	17.6	9.6		13.6	164	100	
1/2	in.	3.12	4.25	6.00	6.50	0.354	0.858	0.378	1/2	0.535	6.50	4.00	5.6/3.4
15	mm	79	108	152	165	9	21.8	9.6		13.6	164	100	
3/4	in.	3.62	4.62	7.00	7.50	0.512	1.067	0.500	3/4	0.547	6.50	4.00	7.8/4.7
20	mm	92	117	178	190	13	27.1	12.7		13.9	164	100	
1	in.	4.38	5.00	8.00	8.50	0.689	1.331	0.500	1	0.681	8.00	5.00	12.5/9.2
25	mm	111	127	203	216	17.5	33.8	12.7		17.3	203	125	
1 1/4	in.	4.75	5.50	8.50	9.00	0.906	1.677	0.500	1 1/4	0.709	8.88	6.25	17/10.5
32	mm	120	140	216	229	23	42.6	12.7		18	224	160	
1 1/2	in.	6.00	6.50	9.00	9.50	1.142	1.917	0.500	1 1/2	0.724	10.25	6.25	23.5/13.3
40	mm	152	165	229	241	29	48.7	12.7		18.4	260	160	
2	in.	6.75	8.00	10.50	11.50	1.378	2.406	0.626	2	0.756	11.88	7.00	38 8/18.9
50	Mm	172	203	267	292	35	61.1	15.9		19.2	300	180	

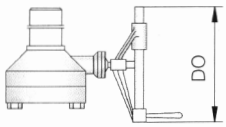
NOTES. 1) BW, SW or SC
2) 600Lb-RF/800Lb-(BW/SW/SC).

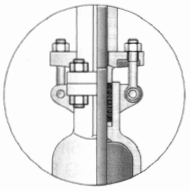
150Lb Cast Stainless Steel Gate Valve

Applicable standards:

★STEEL GATE VALVES, API 603
★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







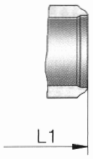


Fig. No:

◎G1F02K G1F10L G1F10N
◎G1B02K G1B10L G1B10N

Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Wedge	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1)]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2)]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Grease Fitting	Carbon Steel Ni Plated		
15	Yokesleeve	Aluminum-Bronze[3)]		
16	Yokesleeve Jam Nut	A276-304		
17	Handwheel	Malleable Iron		
18	Handwheel Nut	Carbon Steel		

Note: 1). Spiral wound construction, Tefon optional.
2). Teflon optional.
3). Ductile Ni-Resist optional.
4). Wedge and seat (Integral with body) may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Design description:

▲FULL PORT DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲FLEXIBLE WEDGE, FULLY GUIDED
▲CHOICE OF SOLID OR SPLIT WEDGE
▲SEAT RINGS INTEGRAL WITH BODY
▲FORGED T-HEAD STEM
▲RISING STEM AND NON-RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	1/2 / 15	3/4 / 20	1 / 25	1½ / 40	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	in / mm
ANSI Class 150Lb															
L	4.25	4.62	5.00	6.50	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	in.
(RF)	108	117	127	165	178	190	203	229	267	292	330	356	381	406	mm
L1	4.25	4.62	5.50	7.00	7.50	8.00	8.50	9.50	11.00	12.00	13.50	14.50	15.50	16.50	in.
(BW)	108	117	140	178	191	203	216	242	280	305	343	369	394	419	mm
H	8.25	8.50	9.25	11.75	15.25	17.00	18.88	23.00	30.50	37.62	45.50	53.12	59.38	67.00	in.
(OPEN)	210	215	235	300	386	434	480	584	765	956	1149	1350	1508	1703	mm
D0	4	4	6	6	8	8	10	12	12	14	16	18	20	22	in.
	100	100	140	140	200	200	250	300	300	350	400	450	500	550	mm
WT	3	3.5	5.5	9.2	15	21	27	42	64.5	101	149	221	303	387	BW
(Kg)	2.5	3	4	8	12.5	15	21.5	34	58	90	130.5	207	275	355	RF/RTJ

API 603 Corrosion-Resistant Valves

Cast Stainless Steel Gate Valve 300Lb

Applicable standards:

★STEEL GATE VALVES, API 603
★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

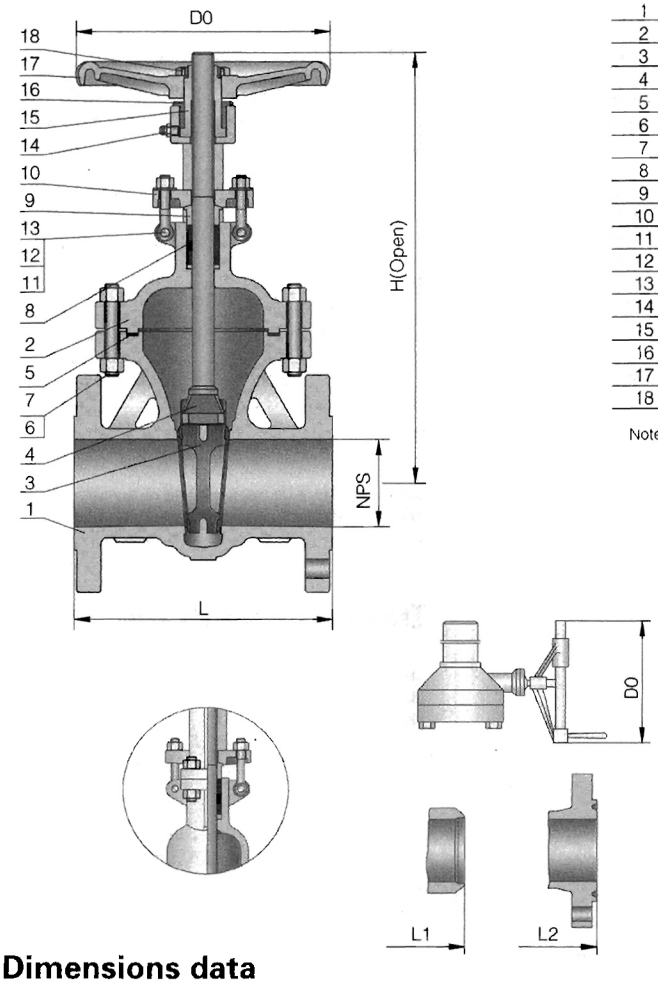
Fig. No:

◎G3F02K	G3F10L	G3F10N
◎G3B02K	G3B10L	G3B10N
◎G3R02K	G3R10L	G3R10N

Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Wedge	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Grease Fitting	Carbon Steel Ni Plated		
15	Yokesleeve	Aluminum-Bronze[3]		
16	Yokesleeve Jam Nut	A276-304		
17	Handwheel	Malleable Iron		
18	Handwheel Nut	Carbon Steel		

Note: 1). Spiral wound construction, Tefon optional
2). Teflon optional.
3). Ductile Ni-Resist optional
4). Wedge and seat (Integral with body) may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Design description:

▲FULL PORT DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲FLEXIBLE WEDGE, FULLY GUIDED
▲CHOICE OF SOLID OR SPLIT WEDGE
▲SEAT RINGS INTEGRAL WITH BODY
▲FORGED T-HEAD STEM
▲RISING STEM AND NON-RISING HANDWHEEL
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	1/2 / 15	3/4 / 20	1 / 25	1½ / 40	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	in / mm
ANSI Class 300Lb															
L/L1	5.50	6.00	6.50	7.50	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	30.00	33.00	in.
(RF/BW)	140	152	165	190	216	241	283	305	403	419	457	502	762	838	mm
L2	–	–	–	–	9.12	10.12	11.75	12.62	16.50	17.12	18.62	20.38	30.62	33.62	in.
(RTJ)	–	–	–	–	232	257	298	321	419	435	473	518	778	854	mm
H	6.34	6.42	7.72	9.88	16.12	17.88	20.00	24.00	31.75	39.38	47.62	55.75	62.25	67.88	in.
(OPEN)	161	163	196	251	410	453	509	612	805	1000	1210	1415	1580	1725	mm
D0	4	4	6	6	8	8	10	10	14	16	18	20	22	22	in.
	100	100	140	140	200	200	250	250	350	400	450	500	550	550	mm
WT	3.3	4	6.5	10.5	20	30	43	61	123	179	276	413	585	813	BW
(Kg)	2.7	3.5	4.7	8.5	14.5	22.5	33	45.5	97	140	219	334	484	689	RF/RTJ

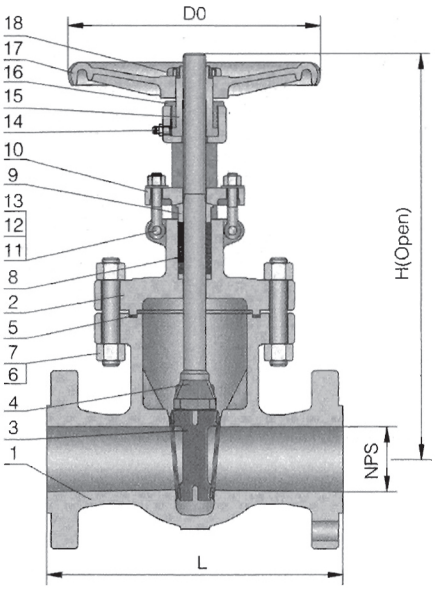
600Lb Cast Stainless Steel Gate Valve

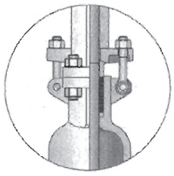
Applicable standards:

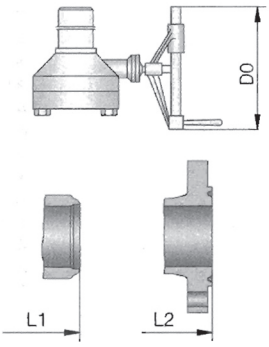
★STEEL GATE VALVES, API 603
★STEEL VALVES, ASME B16.34
★FACE TO FACE, ASME B16 10
★END FLANGES, ASME B16.5
★BUTTWELDING ENDS, ASME B16.25
★INSPECTION AND TEST, API 598

Fig. No:

◎G6F05K	G6F12L	G6F12N
◎G6B05K	G6B12L	G6B12N
◎G6R05K	G6R12L	G6R12N







Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Wedge	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Grease Fitting	Carbon Steel Ni Plated		
15	Yokesleeve	Aluminum-Bronze[3]		
16	Yokesleeve Jam Nut	A276-304		
17	Handwheel	Malleable Iron		
18	Handwheel Nut	Carbon Steel		

Note: 1). Spiral wound construction, Tefon optional
2). Teflon optional.
3). Ductile Ni-Resist optional.
4). Wedge and seat (Integral with body) may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

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▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS / DN	1/2 / 15	3/4 / 20	1 / 25	1½ / 40	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	in / mm
ANSI Class 600Lb															
L	6.50	7.50	8.50	9.50	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	in.
(RF)	165	190	216	241	292	330	356	432	559	660	787	838	889	991	mm
L1	–	–	–	–	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	in.
(BW)	–	–	–	–	295	333	359	435	562	664	791	841	892	994	mm
H	6.34	6.42	7.72	9.88	16.50	18.75	20.38	25.50	33.00	40.38	48.38	57.00	62.00	70.62	in.
(OPEN)	161	163	196	251	418	476	518	646	840	1025	1230	1450	1575	1795	mm
D0	4	6	6	8	8	10	10	12	18	20	24	24	24	24	in.
	100	140	140	200	200	250	250	300	450	500	600	600	600	600	mm
WT	4.5	5.5	8.5	16.5	32	46	59	99	151	348	540	789	1103	1359	BW
(Kg)	3.7	4.2	6.5	9.5	26	37	47	74	111	275	418	647	935	1098	RF/RTJ

API 603 Corrosion-Resistant Valves

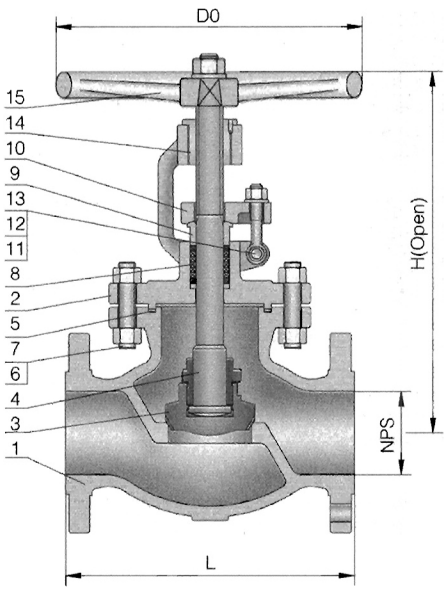
Cast Stainless Steel Globe Valve 150Lb

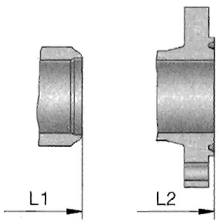
Applicable standards:

★STEEL GLOBE VALVES, API 603
★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

Fig. No:

◎GL1F02K GL1F10L GL1F10N
◎GL1B02K GL1B10L GL1B10N





Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Yokesleeve	Aluminum-Bronze[3]		
15	Handwheel	Malleable Iron		

Note: 1). Spiral wound construction, Tefon optional.
2). Teflon optional.
3). Ductile Ni-Resist optional.
4). Disc and seat (Integral with body) may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Design description:

▲STRAIGHT PATTERN BODY DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
▲BB, BOLTED BONNET
▲YOKE INTEGRAL WITH BONNET
▲RISING STEM AND HANDWHEEL
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▲FLANGED OR BUTTWELDING ENDS
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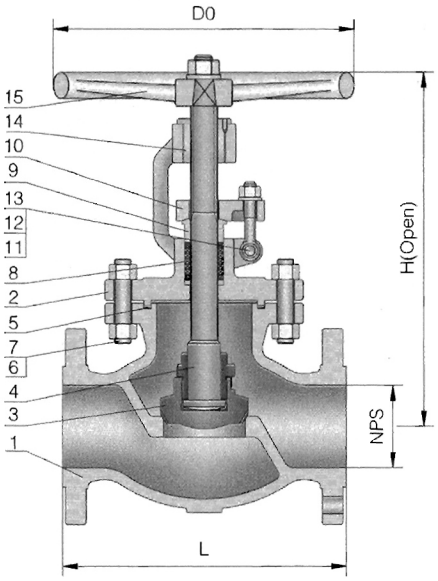
Dimensions data

NPS / DN	1/2 / 15	3/4 / 20	1 / 25	1½ / 40	2 / 50	2½ / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	14 / 350	16 / 400	in / mm
ANSI Class 150Lb															
L/L1	4.25	4.62	5.00	6.50	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	in.
(RF/BW)	108	117	127	165	203	216	241	292	406	495	622	698	787	914	mm
L2	–	–	–	–	8.50	9.00	10.00	12.00	16.50	20.00	25.00	28.00	31.50	36.50	in.
(RTJ)	–	–	–	–	216	229	254	305	419	508	635	711	800	927	mm
H	7.00	7.50	8.25	9.25	15.00	21.00	17.50	20.25	22.00	24.25	32.00	35.88	48.38	57.00	in.
(OPEN)	180	190	210	235	380	535	445	515	560	615	815	910	1230	1450	mm
D0	4	4	4	6	7	10	11	11	13	13	16	18	20	24	in.
	100	100	100	140	180	240	280	280	320	320	400	450	500	600	mm
WT	3	3.5	4.5	11	18	30	41	64	86	110	280	380	510	740	BW
(Kg)	2.5	3	4	8	14	22	33	43	72	88	245	345	450	665	RF/RTJ

300Lb Cast Stainless Steel Globe Valve

Applicable standards:

★STEEL GLOBE VALVES, API 603
★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



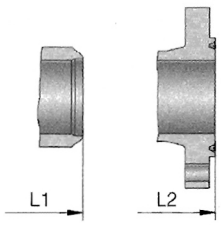


Fig. No:

◎GL3F02K	GL3F10L	GL3F10N
◎GL3B02K	GL3B10L	GL3B10N
◎GL3R02K	GL3R10L	GL3R10N

Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Yokesleeve	Aluminum-Bronze[3]		
15	Handwheel	Malleable Iron		

Note: 1). Spiral wound construction, Tefon optional.
2). Teflon optional.
3). Ductile Ni-Resist optional.
4). Disc and seat (Integral with body) may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Design description:

▲STRAIGHT PATTERN BODY DESIGN
▲OS&Y, OUTSIDE SCREW AND YOKE
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▲YOKE INTEGRAL WITH BONNET
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▲LOOSE DISC, CHOICE OF PLUG OR BALL
▲SEAT RINGS INTEGRAL WITH BODY
▲IMPACT HANDWHEEL FOR 10" & ABOVE
▲HORIZONTAL SERVICE
▲FLANGED OR BUTTWELDING ENDS
▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS	1/2	3/4	1	1½	2	2½	3	4	6	8	10	12	14	16	in
DN	15	20	25	40	50	65	80	100	150	200	250	300	350	400	mm
ANSI Class 300Lb															
L/L1	6.00	7.00	8.00	9.00	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	–	–	in.
(RF/BW)	152	178	203	229	267	292	318	356	444	559	622	711	–	–	mm
L2	–	–	–	–	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62	–	–	in.
(RTJ)	–	–	–	–	282	308	333	371	460	575	638	727	–	–	mm
H	7.00	7.50	8.25	9.25	16.75	19.00	19.88	22.50	25.25	33.25	35.50	38.62	–	–	in.
(OPEN)	180	190	210	235	425	485	505	570	640	845	900	980	–	–	mm
D0	4	4	4	6	8	10	11	13	16	18	20	24	–	–	in.
	100	100	100	140	200	240	280	320	400	450	500	600	–	–	mm
WT	4	4.5	6	15	25	32	38	56	96	150	360	550	–	–	BW
(Kg)	3	3.5	5	12	20	22	27	41	75	117	310	492	–	–	RF/RTJ

API 603 Corrosion-Resistant Valves

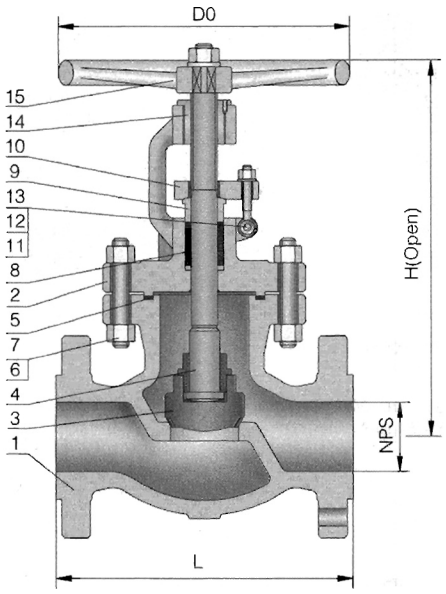
Cast Stainless Steel Globe Valve 600Lb

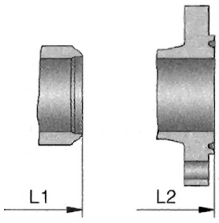
Applicable standards:

★STEEL GLOBE VALVES, API 603
★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

Fig. No:

○GL6F05K	GL6F12L	GL6F12N
○GL6B05K	GL6B12L	GL6B12N
○GL6R05K	GL6R12L	GL6R12N





Materials of parts

NO	Part Name	ASTM Material		
		18Cr-18Ni	18Cr-9Ni-2Mo	17Cr-9Ni-2Mo
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Bonnet Gasket[1]	Graphite+304	Graphite+316	Graphite+316L
6	Bonnet Stud	A193-B8	A193-B8M	A193-B8M
7	Bonnet Stud Nut	A194-8	A194-8M	A194-8M
8	Packing[2]	Graphite		
9	Gland	A276-304	A276-316	A276-316L
10	Gland Flange	A351-CF8	A351-CF8M	A351-CF8M
11	Eyebolt Pin	A276-304	A276-316	A276-316
12	Eyebolt	A193-B8	A193-B8	A193-B8
13	Eyebolt Nut	A194-8	A194-8	A194-8
14	Yokesleeve	Aluminum-Bronze[3]		
15	Handwheel	Malleable Iron		

Note: 1). Spiral wound construction, Tefon optional.
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▲AVAILABLE WITH BG OPERATOR

Dimensions data

NPS	1/2	3/4	1	1½	2	2½	3	4	6	8	10	12	14	16	in
DN	15	20	25	40	50	65	80	100	150	200	250	300	350	400	mm
ANSI Class 600Lb															
L/L1	6.50	7.50	8.50	9.50	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	–	–	in.
(RF/BW)	165	190	216	241	292	330	356	432	559	660	787	838	–	–	mm
L2	–	–	–	–	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	–	–	in.
(RTJ)	–	–	–	–	295	333	359	435	562	663	790	841	–	–	mm
H	7.25	7.62	9.00	11.00	17.50	19.75	21.00	24.50	29.50	36.50	44.88	53.12	–	–	in.
(OPEN)	185	195	230	280	445	502	533	622	750	927	1140	1350	–	–	mm
D0	4	4	6	8	10	11	13	16	18	20	24	24	–	–	in.
	100	100	140	200	240	280	320	400	450	500	600	600	–	–	mm
WT	6	8	14	23	35	50	60	110	230	410	770	1140	–	–	BW
(Kg)	4.8	6.2	9.5	16.5	27	34	42	84	192	350	680	1030	–	–	RF/RTJ