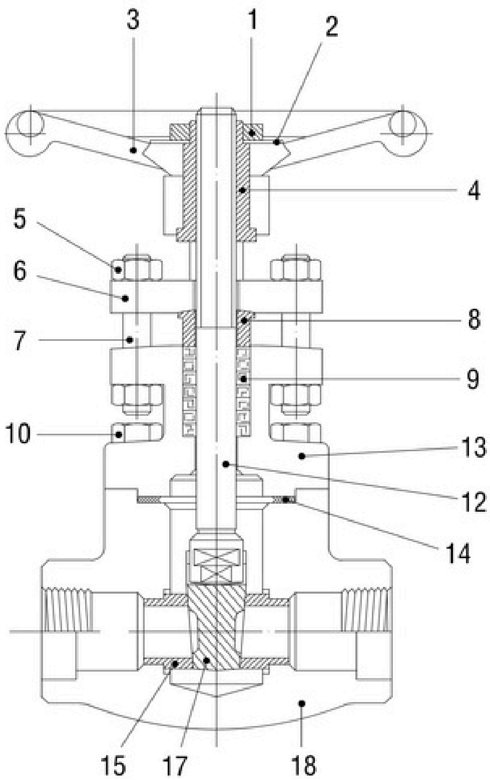
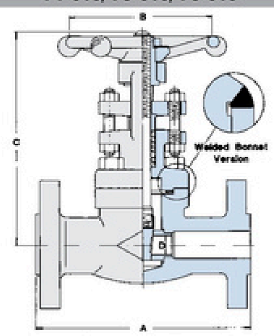
GATE VALVES



1	WHEELNUT	Austenitic ductile iron, 13Cr steel, or copper alloy having a melting point above 955°C (1750 °F).
2	NAMEPLATE	A corrosion resistant metal.
3	HANDWHEEL	Malleable iron, carbon steel, or ductile iron.
4	YOKE NUT	Carbon steel, stainless steel or similar material composition as the bonnet.
5	GLAND NUT	Bolting materials of a Type 300 or Type 400 series stainless steel. Also, material at least equal to either ASTM A307-Grade B or EN 10269-C35E (1.1181) may be used for yoke bolting.
6	GLAND FLANGE	Steel.
7	GLAND STUD	Unless other materials are agreed between the purchaser and manufacturer, refer to the recommended bolting material in Annex G of API 602.
8	GLAND	Material with a melting point above 955° C (1750 °F).
9	PACKING (*)	Non-asbestos material suitable for steam and petroleum fluids over a temperature range of - 29 °C to 540 °C (-20 °F to 1000 °F) and containing a corrosion inhibitor.
10	BOLTS	Unless other materials are agreed between the purchaser and manufacturer, refer to the recommended bolting material in Annex G of API 602.
12	STEM	Refer to API Standard 602, Table 12.
13	BONNET	A forging, forged bar or casting material as selected from ASME B16.34, Group 1, 2 or Group 3 listed in table 1.
14	GASKET	Refer to API Standard 602 (see 5.5.3).
15	SEAT	The base material of the seat ring, when used, shall be of a nominal material composition equal to the body material or the stem material Refer to API 602 (see 6.1.4).
17	WEDGE	The base material of the wedge/disc shall be of a nominal material composition equal to the body material or the stem material. Refer to API 602 (see 6.1.4).
18	BODY	A forging, forged bar or casting material as selected from ASME B16.34, Group 1, 2 or Group 3 listed in table 1.

DESCRIPTION	A105N/F6	A105N/F6HFS	LF2-316	F11/F6HFS	F304-304	F316-316
WHEELNUT	Galvanized AVP	Galvanized AVP	Galvanized AVP	Galvanized AVP	303	303
NAMEPLATE	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
HANDWHEEL	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel +Black Epoxy	Carbon Steel +Black Epoxy
YOKE NUT	416	416	416	416	416	416
GLAND NUT	2H	2H	Gr.8M	Gr.8M	Gr.8	Gr.8
GLAND FLANGE	A105	A105	LF2	F6a Cl.2	304/304L	316
GLAND STUD	F6a Cl.2 (410)	F6a Cl.2 (410)	B8M CL.1	B8M CL.1	B8 CL.1	B8 CL.1
GLAND	316	316	316	316	316	316
PACKING (*)	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
BOLTS	B7	B7	L7	B16	B8 CL.1	B8 CL.1
STEM	F6a Cl.2 (410)	F6a Cl.2 (410)	316/316L	F6a Cl.2 (410)	304/304L	316
BONNET	A105N	A105N	LF2	304/304L	304/304L	F316
GASKET	316+Graphite	316+Graphite	316+Graphite	316+Graphite	316+Graphite	Sp. Wound
SEAT	F6a Cl.2 (410)	410 HF	316/316L	410 HF	304/304L	316/316L
WEDGE	F6a Cl.2	F6a Cl.2	316/316L	F6a Cl.2	304/304L	316
BODY	A105N	A105N	LF2	F11 Cl.2	304/304L	316

F1-810/ F3-810/ F6-810



RATINGS: Carbon Steel
Class 150: 285 p.s.i. @ 100°F - Class 300: 740 p.s.i. @ 100°F
Class 600: 1480 p.s.i. @ 100°F

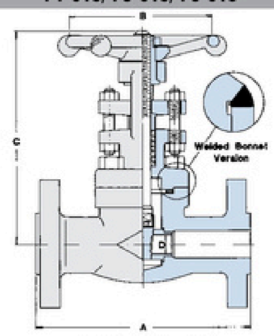
CLASS 150-300-600

BOLTED BONNET - STANDARD BORE - API602 - ISO 15761
Outside Screw & Yoke - Integral Flanged End according to ASME B16.5

STANDARD BORE			1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Class 150 **F1-810** *		A	-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	178	7.00
Class 300 **F3-810** *		A	-	-	-	-	140	5.51	152	6.02	165	6.49	-	-	190	7.51	216	8.50
Class 600 **F6-810** *		A	-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Handwheel		B	-	-	-	-	80	3.14	80	3.14	110	4.33	-	-	130	5.11	130	5.11
Open Center to Top	Class 150/300	C	-	-	-	-	170	6.69	195	7.67	203	7.99	-	-	243	9.56	262	10.3
	Class 600	C	-	-	-	-	148	5.82	163	6.41	178	7.00	-	-	243	9.56	262	10.3
Flow Passageway		D	-	-	-	-	9.6	0.38	14	0.55	18	0.70	-	-	30	1.18	37	1.45
Approx. Weight	Class 150	kg/lb	-	-	-	-	3.4	7.5	3.8	8.3	5.7	12.5	-	-	9.7	21.4	13.2	29.1
	Class 300	kg/lb	-	-	-	-	3.9	8.6	5	11.0	6.2	13.6	-	-	12	26.4	16.5	36.3
	Class 600	kg/lb	-	-	-	-	4	8.8	5.2	11.4	75	16.5	-	-	15	33.0	20.5	45.1

*End to End ANSI B16.10

F1-610/ F3-610/ F6-610



RATINGS: Carbon Steel
Class 150: 285 p.s.i. @ 100°F - Class 300: 740 p.s.i. @ 100°F
Class 600: 1480 p.s.i. @ 100°F

CLASS 150-300-600

BOLTED BONNET - FULL BORE - API602 - ISO 15761
Outside Screw & Yoke - Integral Flanged End according to ASME B16.5

FULL BORE			1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Class 150 **F1-610** *		A	-	-	-	-	108	4.25	117	4.64	127	5.00	-	-	165	6.49	178	7.00
Class 300 **F3-610** *		A	-	-	-	-	140	5.51	152	6.02	165	6.49	-	-	190	7.51	216	8.50
Class 600 **F6-610** *		A	-	-	-	-	165	6.49	190	7.51	216	8.50	-	-	241	9.48	292	11.5
Handwheel		B	-	-	-	-	110	4.33	110	4.33	130	5.11	-	-	250	9.84	250	9.84
Open Center to Top	Class 150/300	C	-	-	-	-	170	6.69	195	7.67	210	8.26	-	-	262	10.3	327	12.8
	Class 600	C	-	-	-	-	244	9.60	268	10.5	310	12.2	-	-	391	15.4	430	16.9
Flow Passageway		D	-	-	-	-	14	0.55	18	0.70	24	0.94	-	-	37	1.45	48	1.89
Approx. Weight	Class 150	kg/lb	-	-	-	-	3.6	7.9	4.8	10.5	6.5	14.3	-	-	12	26.4	18	39.6
	Class 300	kg/lb	-	-	-	-	4.1	9.0	5.5	12.1	7.0	15.4	-	-	13	29.6	19	41.8
	Class 600	kg/lb	-	-	-	-	6	13.2	11	24.2	13	28.6	-	-	27	59.4	30	66.0

*End to End ANSI B16.10

Ring-Joint gasket according to ASME B16.20 - API 6A.

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