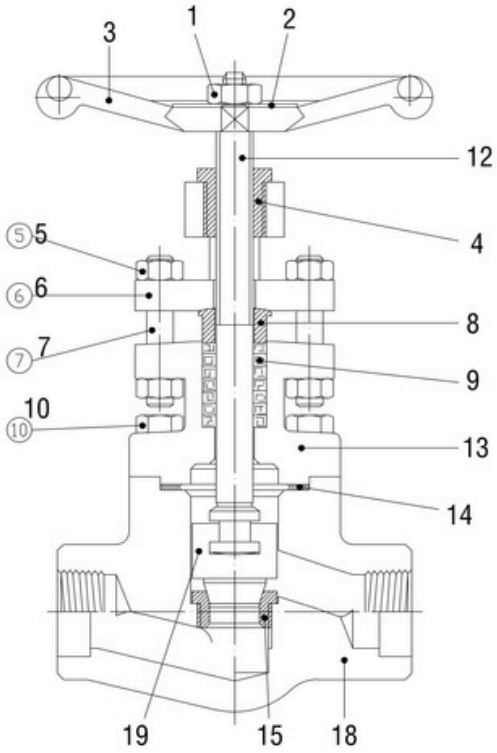
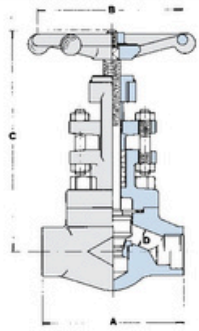


1	WHEELNUT	Austenitic ductile iron, 13Cr steel, or copper alloy having a melting point above 955 °C (1750 °F).
2	NAMEPLATE	A corrosion resistant metal.
3	HANDWHEEL	Malleable iron, carbon steel, or ductile iron.
4	YOKE NUT	Carbon steel, stainless steel or similar material composition as the bonnet.
5	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 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 and listed in Table 1 of API 602.
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).
18	BODY	A forging, forged bar or casting material as selected from ASME B16.34, Group 1, 2 or Group 3 and listed in Table 1 of API 602.
19	DISC	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).

DESCRIPTION	A105N/F6	A105N/F6HFS	LF2/F316	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	F11 Cl.2	304/304L	316/316L
GASKET	316+Graphite	316+Graphite	316+Graphite	316+Graphite	316+Graphite	316+Graphite
SEAT	F6a Cl.2 (410)	410 HF	316/316L	410 HF	304/304L	316
WEDGE	F6a Cl.2 (410)	F6a Cl.2 (410)	316/316L	F6a Cl.2 (410)	304/304L	316
BODY	A105N	A105N	LF2	F11 Cl.2	304/304L	316/316L

830/630



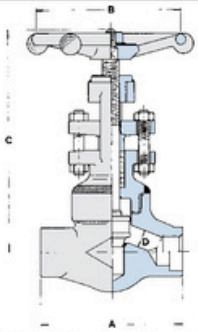
RATINGS: Carbon Steel 1975 p.s.i. @ 100°F

CLASS 800 BOLTED BONNET - STANDARD BORE TO API602/ISO 15761 - FULL BORE - BS 5352

Outside Screw & Yoke - Threaded and Socket Weld Ends

STANDARD BORE	830	-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL BORE	630	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
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08
Open Center to Top	C	148	5.82	148	5.82	165	6.49	180	7.08	213	8.38	248	9.76	257	10.1	370	14.5
Flow Passageway	D	7	0.28	9	0.35	13	0.51	17.5	0.69	23	0.89	29.5	1.16	35	1.37	45.5	1.79
Approx. Weight	kg/lb	1.7	3.7	1.7	3.7	2.3	5.0	3.6	7.9	5.5	12.1	7.5	16.5	11.6	25.5	22.0	48.5

L830/L630



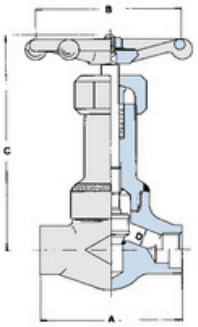
RATINGS: Carbon Steel 1975 p.s.i. @ 100°F

CLASS 800 WELDED BONNET - STANDARD BORE TO API602/ISO 15761 - FULL BORE - BS 5352

Outside Screw & Yoke - Threaded and Socket Weld Ends

STANDARD BORE	L830	-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL BORE	L630	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
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	180	7.08	180	7.08
Open Center to Top	C	148	5.82	148	5.82	165	6.49	180	7.08	213	8.38	248	9.76	257	10.1	370	14.5
Flow Passageway	D	7	0.28	9	0.35	13	0.51	17.5	0.69	23	0.89	29.5	1.16	35	1.37	45.5	1.79
Approx. Weight	kg/lb	1.7	3.7	1.7	3.7	2.3	5.0	3.6	7.9	5.5	12.1	7.3	16	10.5	23.1	17.5	38.5

L820/L620



RATINGS: Carbon Steel 1975 p.s.i. @ 100°F

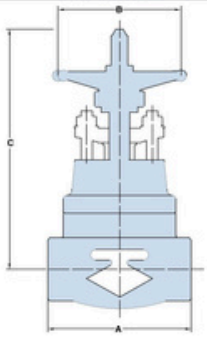
CLASS 800 WELDED BONNET - STANDARD BORE TO API602/ISO 15761 - FULL BORE - BS 5352

Inside Screw - Threaded and Socket Weld Ends

STANDARD BORE	L820	-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL BORE	L620	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
End to End	A	80	3.14	80	3.14	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.26
Handwheel	B	80	3.14	80	3.14	80	3.14	110	4.33	130	5.11	130	5.11	130	5.11	180	7.08
Open Center to Top	C	148	5.86	148	5.86	175	6.88	212	8.34	235	9.25	287	11.3	327	12.9	380	15.0
Flow Passageway	D	7	0.28	9	0.35	13	0.51	17.5	0.69	23	0.89	29.5	1.16	35	1.37	45.5	1.79
Approx. Weight	kg/lb	1.5	3.3	1.5	3.3	2.0	4.4	3.7	8.1	5.5	12.1	7.3	16	10.5	23.1	17.5	38.5

NEW: For CRAs closed Die forgings

S810/S610



RATINGS: Carbon Steel - 1975 psi @100°F

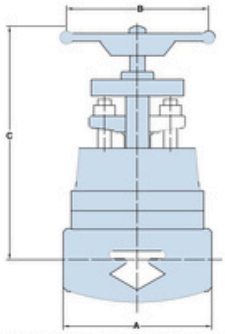
GATE -CLASS 800

BOLTED BONNET- STANDARD AND FULL BORE - API602
Outside Screw & Yoke - Threaded and Socket Weld Ends

STANDARD PORT	S810	-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL BORE	S610	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
End to End	A	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.27
Handwheel	B	80	3.15	80	3.15	80	3.15	110	4.33	110	4.33	130	5.12	130	5.12	180	7.09
Open Center to Top	C	145	5.71	145	5.71	155	6.10	185	7.28	210	8.27	250	9.84	270	10.63	335	13.19
Flow Passageway	D	7	0.28	9.6	0.38	14	0.55	18	0.71	24	0.94	29.5	1.16	36.5	1.44	48	1.89
Approx Weight	kg/lb	2.9	6.38	2.9	6.38	2.9	6.4	4.5	9.9	7	15.4	9.5	20.9	13.1	28.82	24.7	54.34

End to End dimensions according to OMB Standards

S830/S630



RATINGS: Carbon Steel - 1975 psi @100°F

GLOBE -CLASS 800

BOLTED BONNET- STANDARD AND FULL BORE - API602
Outside Screw & Yoke - Threaded and Socket Weld Ends

STANDARD BORE	S830	-		1/2		3/4		1		1 1/4		1 1/2		2		-	
FULL BORE	S630	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
End to End	A	90	3.54	90	3.54	90	3.54	110	4.33	127	5.00	155	6.10	170	6.69	210	8.3
Handwheel	B	80	3.15	80	3.15	80	3.15	110	4.33	130	5.12	130	5.12	180	7.09	180	7.1
Open Center to Top	C	155	6.10	155	6.10	160	6.30	180	7.09	213	8.39	256	10.08	282	11.10	370	14.57
Flow Passageway	D	7	0.28	9	0.35	13	0.51	17.5	0.69	22.5	0.89	29.5	1.16	35	1.38	45.5	1.79
Approx Weight	kg/lb	2.9	6.38	2.9	6.38	2.9	6.4	4.6	10.1	7.1	15.6	9.6	21.12	13.5	29.7	24.9	54.8

End to End dimensions according to OMB Standards