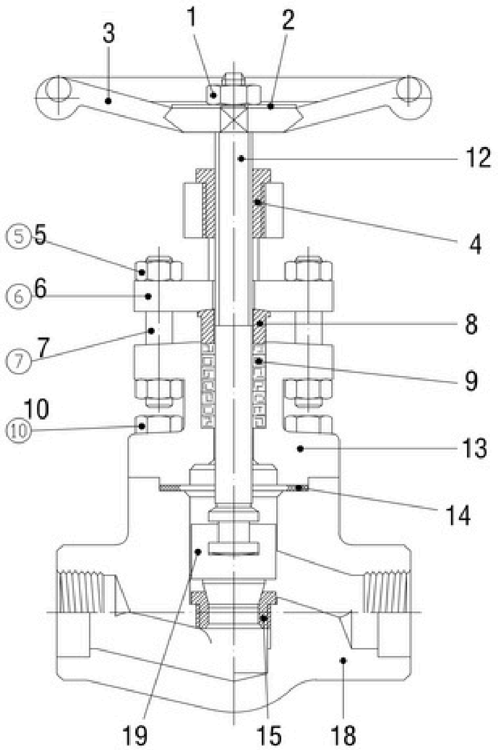
# GLOBE VALVES




| | | |
|---|---|---|
| 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 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 |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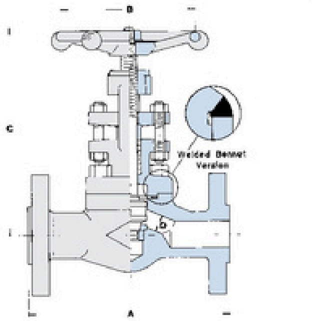
# GLOBE VALVES

OMB

## F1-830/ F3-830/ F6-830




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

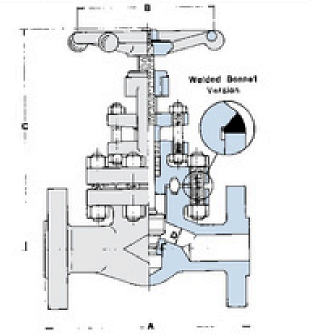
## CLASS 150-300-600

**BOLTED BONNET - STANDARD BORE - API602/ISO15761**
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 F1-830 | | A | - | - | - | - | 108 | 4.25 | 117 | 4.64 | 127 | 5.00 | - | - | 165 | 6.49 | 178 | 7.00 |
| Class 300 F3-830 | | A | - | - | - | - | 152 | 6.02 | 178 | 7.00 | 203 | 7.99 | - | - | 229 | 9.01 | 267 | 10.5 |
| Class 600 F6-830 | | 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 | 180 | 7.08 |
| Center to Top Open | Class 150/300 | C | - | - | - | - | 148 | 5.82 | 165 | 6.49 | 180 | 7.08 | - | - | 248 | 9.76 | 257 | 10.1 |
| | Class 600 | C | - | - | - | - | 170 | 6.69 | 197 | 7.75 | 205 | 8.07 | - | - | 248 | 9.76 | 257 | 10.1 |
| Flow Passageway | | D | - | - | - | - | 9 | 0.35 | 13 | 0.51 | 17.5 | 0.69 | - | - | 29.5 | 1.16 | 35 | 1.37 |
| Approx. Weight | Class 150 | kg/lb | - | - | - | - | 3.4 | 7.5 | 4 | 8.8 | 5.7 | 12.5 | - | - | 10 | 22.0 | 17.0 | 37.4 |
| | Class 300 | kg/lb | - | - | - | - | 4 | 8.8 | 5 | 11.0 | 7.3 | 16.1 | - | - | 14 | 30.8 | 20.5 | 45.1 |
| | Class 600 | kg/lb | - | - | - | - | 4.5 | 9.9 | 5.5 | 12.1 | 7.6 | 16.7 | - | - | 15 | 33.0 | 21 | 46.2 |

End to end dimension according to ANSI B16.10

## F1-630/F3-630/F6-630




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 - BS 5352**
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 F1-630 | | A | - | - | - | - | 108 | 4.25 | 117 | 4.64 | 127 | 5.00 | - | - | 165 | 6.49 | 203 | 7.99 |
| Class 300 F3-630 | | A | - | - | - | - | 152 | 6.02 | 178 | 7.00 | 203 | 7.99 | - | - | 229 | 9.01 | 267 | 10.5 |
| Class 600 F6-630 | | 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 toTop | Class 300/600 | C | - | - | - | - | 246 | 9.64 | 273 | 10.7 | 295 | 11.6 | - | - | 410 | 16.1 | 440 | 17.3 |
| | Class 150 | C | - | - | - | - | 170 | 6.69 | 197 | 7.75 | 205 | 89.84 | - | - | 285 | 11.02 | 320 | 12.6 |
| Flow Passageway | | D | - | - | - | - | 13 | 0.51 | 17.5 | 0.69 | 22.5 | 0.89 | - | - | 35 | 1.37 | 45.5 | 1.79 |
| Approx. Weight | Class 150 | kg/lb | - | - | - | - | 4.2 | 9.2 | 5.5 | 12.1 | 7.5 | 16.5 | - | - | 13.5 | 29.7 | 21 | 46.2 |
| | Class 300 | kg/lb | - | - | - | - | 5.8 | 12.8 | 10.8 | 23.8 | 12.8 | 28.2 | - | - | 26.5 | 58.4 | 29 | 63.9 |
| | Class 600 | kg/lb | - | - | - | - | 6 | 13.2 | 10 | 22.0 | 14.5 | 32.0 | - | - | 27 | 59.4 | 30 | 66.0 |

End to end dimension according to ANSI B16.10
Spiral wound gasket joint for #150

Ring-Joint gasket according to ASME B16.20 - API 6A.
(*)End to end dimension BW on request Fig. N. BW 1-630/BW 6-630