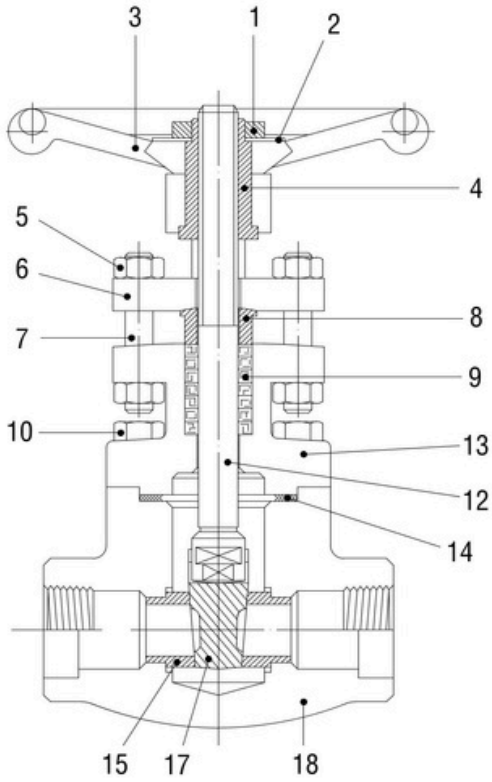
# GATE VALVES




| | | |
|---|---|---|
| 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 |

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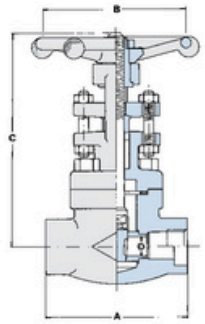
## 810/610



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

## CLASS 800

**BOLTED BONNET - STANDARD AND FULL - API602 - ISO 15761**
Outside Screw & Yoke - Threaded and Socket Weld Ends to B16.11

| STANDARD BORE | 810 | - | | 1/2 | | 3/4 | | 1 | | 1 1/4 | | 1 1/2 | | 2 | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FULL BORE | 610 | 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 | 127 | 5.00 | 127 | 5.00 | 150 | 5.90 |
| Handwheel | B | 80 | 3.14 | 80 | 3.14 | 80 | 3.14 | 110 | 4.33 | 110 | 4.33 | 130 | 5.11 | 130 | 5.11 | 180 | 7.08 |
| Open Center to Top | C | 148 | 5.86 | 148 | 5.86 | 163 | 6.41 | 178 | 7.00 | 210 | 8.26 | 243 | 9.56 | 262 | 10.3 | 365 | 14.3 |
| Flow Passageway | D | 8 | 0.31 | 9.6 | 0.38 | 14 | 0.55 | 18 | 0.70 | 24 | 0.94 | 30 | 1.18 | 37 | 1.45 | 48 | 1.89 |
| Approx. Weight | kg/lb | 1.6 | 3.5 | 1.6 | 3.5 | 2.2 | 4.8 | 3.5 | 7.7 | 5 | 11 | 6.5 | 14.3 | 9 | 19.8 | 21.5 | 47.3 |

*End to End OMB standard

## L810/L610

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

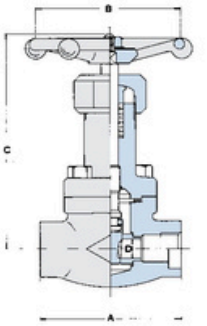
## CLASS 800

**WELDED BONNET - STANDARD AND FULL - API602 - ISO 15761**
Outside Screw & Yoke - Threaded and Socket Weld Ends to B16.11

| STANDARD BORE | L810 | - | | 1/2 | | 3/4 | | 1 | | 1 1/4 | | 1 1/2 | | 2 | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FULL BORE | L610 | 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 | 127 | 5.00 | 127 | 5.00 | 150 | 5.90 |
| Handwheel | B | 80 | 3.14 | 80 | 3.14 | 80 | 3.14 | 110 | 4.33 | 110 | 4.33 | 130 | 5.11 | 130 | 5.11 | 180 | 7.08 |
| Open Center to Top | C | 148 | 5.86 | 148 | 5.86 | 163 | 6.41 | 178 | 7.00 | 210 | 8.26 | 243 | 9.56 | 262 | 10.3 | 365 | 14.3 |
| Flow Passageway | D | 8 | 0.31 | 9.6 | 0.38 | 14 | 0.55 | 18 | 0.70 | 24 | 0.94 | 30 | 1.18 | 37 | 1.45 | 48 | 1.89 |
| Approx. Weight | kg/lb | 1.6 | 3.5 | 1.6 | 3.5 | 2.2 | 4.8 | 3.5 | 7.7 | 5 | 11 | 6.3 | 13.8 | 8 | 17.6 | 17 | 37.4 |

*End to End OMB standard

## 800/600



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

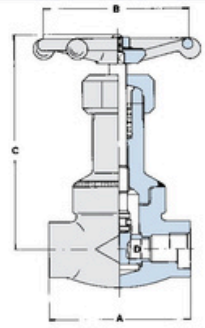
## CLASS 800

**BOLTED BONNET - STANDARD AND FULL - API602 - ISO 15761**
Inside Screw & Yoke - Threaded and Socket Weld Ends to B16.11

| STANDARD BORE | 800 | - | | 1/2 | | 3/4 | | 1 | | 1 1/4 | | 1 1/2 | | 2 | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FULL BORE | 600 | 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 | 127 | 5.00 | 127 | 5.00 | 150 | 5.90 |
| Handwheel | B | 80 | 3.14 | 80 | 3.14 | 80 | 3.14 | 110 | 4.33 | 110 | 4.33 | 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 | 8 | 0.31 | 9.6 | 0.38 | 14 | 0.55 | 18 | 0.70 | 24 | 0.94 | 30 | 1.18 | 37 | 1.45 | 48 | 1.89 |
| Approx. Weight | kg/lb | 1.6 | 3.5 | 1.6 | 3.5 | 2.2 | 4.8 | 3.5 | 7.7 | 5 | 11 | 6.3 | 13.8 | 8 | 17.6 | 17 | 37.4 |

*End to End OMB standard

## L800/L600



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

## CLASS 800

**WELDED BONNET - STANDARD AND FULL - API602 - ISO 15761**
Inside Screw & Yoke - Threaded and Socket Weld Ends to B16.11

| STANDARD BORE | L800 | - | | 1/2 | | 3/4 | | 1 | | 1 1/4 | | 1 1/2 | | 2 | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FULL BORE | L600 | 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 | 127 | 5.00 | 127 | 5.00 | 150 | 5.90 |
| Handwheel | B | 80 | 3.14 | 80 | 3.14 | 80 | 3.14 | 110 | 4.33 | 110 | 4.33 | 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 | 8 | 0.31 | 9.6 | 0.38 | 14 | 0.55 | 18 | 0.70 | 24 | 0.94 | 30 | 1.18 | 37 | 1.45 | 48 | 1.90 |
| Approx. Weight | kg/lb | 1.5 | 3.3 | 1.5 | 3.3 | 2 | 4.4 | 3 | 6.6 | 5.1 | 11.2 | 6.5 | 14.3 | 9 | 19.8 | 17 | 37.4 |

*End to End OMB standard

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