

## Cast Steel Bolted Bonnet Globes

**Styles: CB2, CB3, & CB4/2**

**Class: 150 - Sizes: 2" thru 14"**

**Pressure Class Range: 150 thru 1500**

### Design and Manufacturing Standards

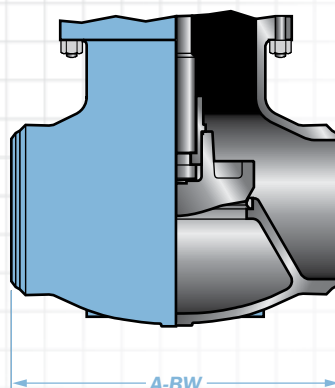
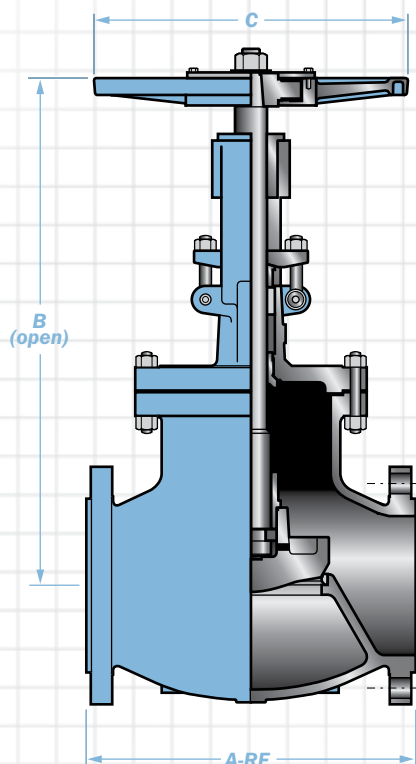
**Valve Design:** ASME B16.34/API 600

**Flange Dimensions:** ASME B16.5, B16.47 (Series A)

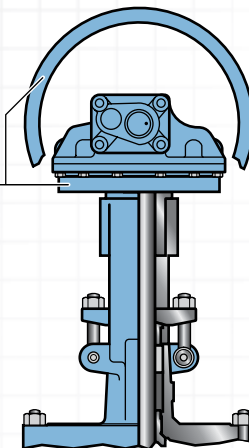
**Face-to-Face Dimensions:** ASME B16.10

**Tested in Accordance with:** API 598

**Recommended Spare Parts\***



Optional gear operator and vertical handwheel.



### Typical Bill of Materials (See page 5 for available materials.)

| Component          | CB2                                        | CB3                                | CB4/2                 | Component        | CB2                        | CB3 | CB4/2         |  |
|--------------------|--------------------------------------------|------------------------------------|-----------------------|------------------|----------------------------|-----|---------------|--|
| Body               | ASTM A216-WCB**                            |                                    |                       | Gland Bolt Pins  | ASTM A36                   |     |               |  |
| Disc 2" thru 4"    | ASTM A276-410                              | ASTM A216-WCB/<br>HF<br>13% Chrome | ASTM A276-316         | Gland Nuts       | ASTM A194-2H               |     | ASTM A194-2HM |  |
| Disc 5" and larger | ASTM A216-WCB/<br>13% Chrome               |                                    | ASTM A216-<br>WCB/316 | Gland Bolts      | ASTM A307-B                |     | ASTM A193-B7M |  |
|                    |                                            |                                    |                       | Seat Ring        | ASTM A105/HF (6" & larger) |     |               |  |
| Stem               | ASTM A276-410                              |                                    | ASTM A276-316         | Split Ring       | ASTM A276-410              |     |               |  |
| Bonnet             | ASTM A216-WCB                              |                                    |                       | Nameplate        | ASTM A666-304              |     |               |  |
| *Bonnet Gasket     | Spiral Wound 316 Stainless Steel/Graphite  |                                    |                       | Nameplate Rivets | Commercial                 |     |               |  |
| Bonnet Nuts        | ASTM A194-2H                               |                                    | ASTM A194-2HM         | Disc Nut         | ASTM A276-410              |     | ASTM A276-316 |  |
| Bonnet Studs       | ASTM 193-B7                                |                                    | ASTM A193-B7M         | Stem Nut         | ASTM A439-D2               |     |               |  |
| Back Seat Bushing  | ASTM A276-410                              |                                    | ASTM A276-316         | Handwheel Washer | ASTM A36                   |     |               |  |
| *Packing           | Graphite W/ Braided Carbon Fiber End Rings |                                    |                       | Handwheel Nut    | ASTM A36                   |     |               |  |
| Gland              | ASTM A276-410                              |                                    | ASTM A276-316         | Handwheel        | ASTM A536 (65-45-12)       |     |               |  |
| Gland Flange       | ASTM A276-WCB                              |                                    |                       | Spacer Ring      | N/A                        |     |               |  |

### Class 150

| Size | nps | 2    | 2.5  | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 14   |
|------|-----|------|------|------|------|------|------|------|------|------|------|
|      | dn  | 50   | 65   | 75   | 100  | 125  | 150  | 200  | 250  | 300  | 350  |
| A-RF | in  | 8.0  | 8.5  | 9.5  | 11.5 | 14.0 | 16.0 | 19.5 | 24.5 | 27.5 | 31.0 |
|      | mm  | 203  | 216  | 241  | 292  | 356  | 406  | 495  | 622  | 699  | 787  |
| A-BW | in  | 8.0  | 8.5  | 9.5  | 11.5 | 14.0 | 16.0 | 19.5 | 24.5 | 27.5 | 31.0 |
|      | mm  | 203  | 216  | 241  | 292  | 356  | 406  | 495  | 622  | 699  | 787  |
| B    | in  | 14.9 | 15.8 | 16.6 | 19.9 | 21.8 | 22.4 | 26.5 | 30.6 | 34.8 | 41.4 |
|      | mm  | 378  | 401  | 422  | 505  | 554  | 569  | 673  | 777  | 884  | 1052 |
| C    | in  | 8.0  | 10.0 | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 22.0 | 24.0 | 25.2 |
|      | mm  | 203  | 254  | 254  | 305  | 356  | 406  | 457  | 559  | 610  | 640  |
| RF   | lbs | 51   | 73   | 93   | 137  | 192  | 243  | 419  | 507  | 948  | 1276 |
|      | kg  | 23   | 33   | 42   | 62   | 87   | 110  | 190  | 276  | 476  | 625  |
| BW   | lbs | 51   | 73   | 93   | 137  | 192  | 243  | 419  | 507  | 948  | 1276 |
|      | kg  | 23   | 33   | 42   | 62   | 87   | 110  | 190  | 276  | 476  | 625  |

**Note:** Dimensions: Inches/Millimeters - Weights: Pounds/Kilograms. Larger sizes available on request. Dimensions are subject to change without notice.

\*\* ASTM A216-WCB/HF for 2" to 4".

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