



STANDARDS

- Face to Face Dimensions: ANSI B16.10
- End Flange Dimensions: ANSI B16.5
- Buttwelding Ends: ANSI B16.25
- Shell Wall Thickness: API 600
- Basic Design: BS 1873
- Test: API 598

| Class 900 | | | | | | | | | | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| DN NPS | 15 1/2 | 25 1 | 40 1 1/2 | 50 2 | 65 2 1/2 | 80 3 | 100 4 | 150 6 | 200 8 | 250 10 | 300 12 | 350 14 | 400 16 |
| L-L ₁ (RF-BW) | 165 6.5 | 216 8.5 | 241 9.5 | 292 11.5 | 330 13 | 356 14 | 432 17 | 610 24 | 737 29 | 838 33 | 965 38 | 1029 40.5 | 44.5 |
| L ₂ (RTJ) | 163 6.4 | 216 8.5 | 241 9.5 | 295 11.6 | 333 13.1 | 359 14.1 | 435 17.1 | 613 24.1 | 740 29.1 | 841 33.1 | 968 38.1 | 1038 40.9 | 1140 44.9 |
| H | 385 15.2 | 398 15.7 | 415 16.3 | 475 18.8 | 515 20.3 | 585 23 | 675 26.5 | 1065 42 | 1320 52 | 1540 60.6 | 1840 72.5 | 2135 84.1 | 2380 93.8 |
| Do | 200 8 | 200 8 | 200 8 | 250 10 | 250 10 | 300 12 | 350 14 | 500 20 | 600 24 | 750 30 | 850 34 | 850 34 | 960 38 |
| RF(kg) BW(kg) | 22 20 | 25 22 | 28 24 | 39 35 | 56 44 | 68 59 | 121 97 | 380 340 | 650 580 | 900 720 | 1600 1350 | 2150 1800 | 3300 3000 |

MATERIAL LIST

| NO. | Part Name | Carbon Steel | | Alloy Steel | | | Stainless Steel | | | |
|-----|----------------------|---------------------------------|-----------|---|-----------|-----------|---------------------|-----------|------------|------------|
| | | WCB | LCB | WC6 | WC9 | C5 | CF8 | CF8M | CF3 | CF3M |
| 1 | Body | A216 WCB | A352 LCB | A217 WC9 | A217 WC9 | A217 C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 2 | Seat Ring | A105 | A350 LF2 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 3 | Disc | A105 | A350 LF2 | A217 WC6 | A217 WC6 | A217 C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 4 | Stem | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 5 | Disc Nut | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 6 | Gasket | Solid metal serrated gasket | | Stainless steel and graphite spiral wound | | | Non-metallic gasket | | | |
| 7 | Bonnet | A216 WCB | A352 LCB | A217 WC6 | A217 WC9 | A217 C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 8 | Bonnet Bolt | A193 B7 | | A320 L7 | A193B16 | | A320 B8 | A193 B8M | | |
| 9 | Bonnet Nut | A194 2H | | A194 4 | A194 7 | A194 8 | | | | |
| 10 | Backseat Bushing | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 11 | Stem Packing | Graphite | | | | | | | | |
| 12 | Lantern* | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 13 | Pin | Carbon Steel or Alloy Steel | | | | | | | | |
| 14 | Gland Flange | A216 WCB | A352 LCB | A217 WC6 | A217 WC9 | A217 C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| 15 | Gland | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| 16 | Gland Eyebolt | A307 B | | A320L7 | A193 B7 | A193 B8 | | | | |
| 17 | Gland Nut | A194 2H | | A194 4 | A194 8 | | | | | |
| 18 | Stem Nut | A439 D2 | | ZCuAl10Fe3(GB standard) | | | | | | |
| 19 | Handwheel | Ductile Iron or Steel | | | | | | | | |
| 20 | H.W.Lock Nut | Carbon Steel or Alloy Steel | | | | | | | | |
| 21 | Sealing face overlay | 13Cr and 18Cr-8Ni or HF(Co-CrA) | | | | | | | | |

The material is according to ASTM standard.

* must be stated in contract.