

Available With Gear Box

Applicable Standards:

Design and Manufacture : API 600/ASME B16.34
 Face to Face and End to End: ASME B16.10
 Flanged End: ASME B16.5/ASME B16.47
 Butt Welded End: ASME B16.25
 Test & Inspection: API 598

Design Description:

Full bore design
 Outside Screw and Yoke(OS&Y)
 Bolted Bonnet(BB)
 Flexible wedge, fully guided
 Solid or split wedge gate
 Renewable seat rings upon request
 Forged T-head stem
 Rising stem and non-rising handwheel
 Flanged or butt welding ends
 Available with bevel gear operator

Main Materials:

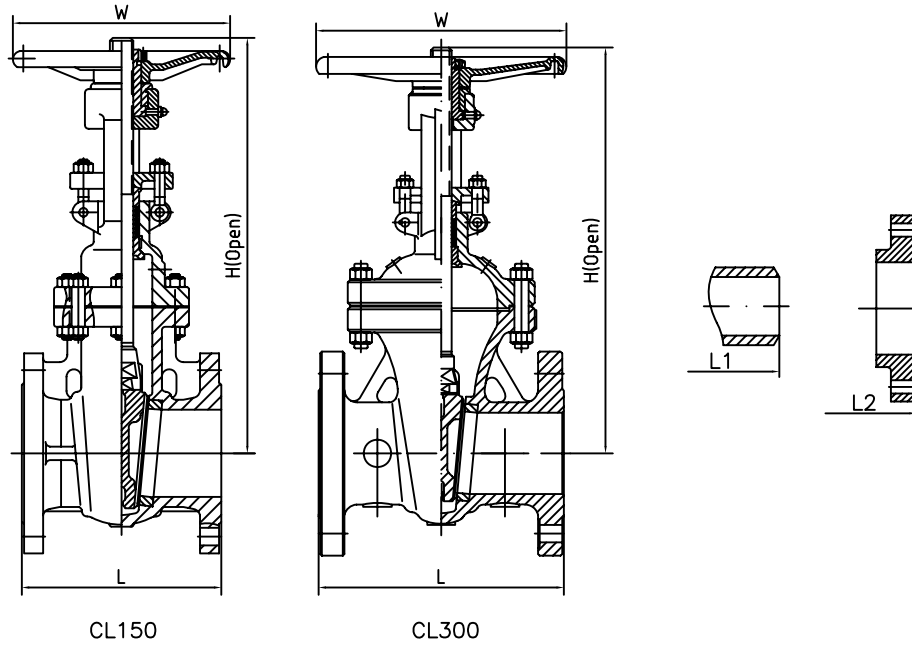
WCB, LCB, WC6, WC9, CF8, CF8M,
 CF3, CF3M, A995 4A, A995 5A, A995 6A,
 Alloy 20, Monel, Inconel

Main Parts Material Sheet

| NO. | PART | ASTM Material | | | | |
|-----|---------------|---------------|--------------------|--------------|------------------------|---------------------|
| | | WCB | LCB ^(M) | WC6 | CF8(M) | CF3(M) |
| 1 | BODY | A216 WCB | A352 LCB | A217 WC6 | A351 CF8(M) | A351 CF3(M) |
| 2 | GATE | A216 WCB+13Cr | A352 LCB+13Cr | A217 WC6+STL | A351 CF8(M) | A351 CF3(M) |
| 3 | SEAT | A216 WCB+13Cr | A352 LCB+13Cr | A217 WC6+STL | A351 CF8(M) | A351 CF3(M) |
| 4 | STEM | A182 F6 | A182 F6 | A182 F6 | A182 F304/F316 | A182 F304L(F316L) |
| 5 | BONNET BOLT | A193 B7 | A320 L7 | A193 B16 | A193 B8(M) | A193 B8(M) |
| 6 | BONNET NUT | A194 2H | A194 7 | A194 4 | A194 8(M) | A194 8(M) |
| 7 | GASKET | | SS304+GRAPHITE | | PTFE/SS304+GRAPHITE | PTFE/SS316+GRAPHITE |
| 8 | BONNET | A216 WCB | A352 LCB | A217 WC6 | A351 CF8(M) | A351 CF3(M) |
| 9 | BACKSEAT | A182 F6 | A182 F6 | A182 F6 | - | - |
| 10 | PACKING | | FLEXIBLE GRAPHITE | | PTFE/FLEXIBLE GRAPHITE | |
| 11 | GLAND | A182 F6 | A182 F6 | A182 F6 | A182 F304 | A182 F304L(F316L) |
| 12 | GLAND FLANGE | A216 WCB | A352 LCB | A217 WC6 | A351 CF8(M) | A351 CF3(M) |
| 13 | GLAND EYEBOLT | | A193 B7 | | A193 B8 | A193 B8 |
| 14 | NUT | | A194 2H | | A194 8 | A194 8 |
| 15 | PIN | | AISI 1025 | | AISI 1025 | |
| 16 | STEM NUT | | BRONZE | | BRONZE | |
| 17 | HANDWHEEL NUT | | AISI 1035 | | AISI 1035 | |
| 18 | SCREW | | ASTM A36 | | ASTM A36 | |
| 19 | HANDWHEEL | | A536 60-40-18 | | A536 60-40-18 | |
| 20 | BEARING GLAND | | AISI 1035 | | AISI 1035 | |
| 21 | GREASE NIPPLE | | BRASS | | BRASS | |
| 22 | NAMEPLATE | | SS304 | | SS304 | |

Note: All information is subject to change without notice.

Cast Steel Gate Valve (Bolt Bonnet)



Dimensions

CLASS 150

| Size | in | 2 | 2 1/2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 40 | 42 | 48 |
|-------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| | mm | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 650 | 700 | 750 | 800 | 900 | 1000 | 1050 | 1200 |
| L (RF) | in | 7.00 | 7.50 | 8.00 | 9.00 | 10.50 | 11.50 | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | 18.00 | 20.00 | 22.00 | 24.00 | 24.00 | 28.00 | 28.00 | 30 | 31 | 34 |
| | mm | 178 | 191 | 203 | 229 | 267 | 292 | 330 | 356 | 381 | 406 | 432 | 457 | 508 | 559 | 610 | 610 | 711 | 711 | 762 | 787 | 864 |
| L1 (BW) | in | 8.5 | 9.50 | 11.12 | 12.00 | 15.88 | 16.50 | 18.00 | 19.75 | 22.50 | 24.00 | 26.00 | 28.00 | 32.00 | 34.00 | 36.00 | 36.00 | 38.00 | 40.00 | 42 | 43 | 46 |
| | mm | 216 | 241 | 283 | 305 | 403 | 419 | 457 | 502 | 572 | 610 | 660 | 711 | 813 | 864 | 914 | 914 | 965 | 1016 | 1067 | 1092 | 1168 |
| L2 (RTJ) | in | 7.5 | 8 | 8.5 | 9.5 | 11 | 12 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 20.5 | - | 24.5 | 24.5 | 26.5 | 28.5 | - | - | - |
| | mm | 191 | 203 | 216 | 242 | 279 | 305 | 343 | 368 | 394 | 419 | 445 | 470 | 521 | - | 622 | 622 | 673 | 724 | - | - | - |
| H (Open) | in | 15.25 | 17.00 | 18.88 | 23.00 | 30.50 | 37.62 | 45.50 | 53.12 | 59.38 | 67.00 | 74.50 | 83.50 | 98.25 | 110.50 | 116.50 | 124.00 | 129.00 | 146.50 | 183.86 | 193.75 | 217.5 |
| | mm | 368 | 434 | 480 | 584 | 765 | 956 | 1149 | 1350 | 1508 | 1703 | 1892 | 2119 | 2500 | 2806 | 2960 | 3150 | 3280 | 3720 | 4670 | 4920 | 5525 |
| W | in | 8 | 8 | 10 | 12 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 29 | 29 | 32 | 32 | 38 | 40 | 30 | 30 | 30 |
| | mm | 200 | 200 | 250 | 300 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 640 | 720 | 720 | 800 | 800 | 950 | 1000 | 760 | 760 | 760 |

Note: All information is subject to change without notice.

Dimensions

CLASS 300

| Size | in | 2 | 2 1/2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 36 | 40 | 42 | 48 |
|-----------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | mm | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 650 | 700 | 750 | 800 | 900 | 1000 | 1050 | 1200 |
| L/L1 (RF/BW) | in | 8.50 | 9.50 | 11.12 | 12.00 | 15.88 | 16.50 | 18.00 | 19.75 | 30.00 | 33.00 | 36.00 | 39.00 | 45.00 | 49.00 | 53.00 | 55.00 | 60.00 | 68.00 | 76 | 78 | 88 |
| | mm | 216 | 241 | 283 | 305 | 403 | 419 | 457 | 502 | 762 | 838 | 914 | 991 | 1143 | 1245 | 1346 | 1397 | 1524 | 1727 | 1930 | 1981 | 2235 |
| L2 (RTJ) | in | 9.12 | 2 1/2 | 11.75 | 12.62 | 16.50 | 17.12 | 18.62 | 20.38 | 30.62 | 33.62 | 36.62 | 39.75 | 45.88 | 50.00 | 54.00 | 56.00 | 61.12 | 69.12 | - | - | - |
| | mm | 232 | 2 1/2 | 298 | 321 | 419 | 435 | 473 | 518 | 778 | 854 | 930 | 1010 | 1165 | 1270 | 1372 | 1422 | 1553 | 1756 | - | - | - |
| H (OPEN) | in | 16.12 | 2 1/2 | 20.00 | 24.00 | 31.75 | 39.38 | 47.62 | 55.75 | 62.25 | 67.88 | 77.12 | 86.38 | 102.00 | 117.00 | 122.00 | 126.00 | 130.00 | 152.00 | 188.63 | 198.13 | 217.38 |
| | mm | 410 | 2 1/2 | 509 | 612 | 805 | 1000 | 1210 | 1415 | 1580 | 1725 | 1960 | 2195 | 2590 | 2975 | 3100 | 3200 | 3300 | 3860 | 4791 | 5032 | 5522 |
| W | in | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 24 | 26 | 29 | 29 | 32 | 32 | 38 | 40 | 24 | 24 | 24 |
| | mm | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 550 | 600 | 640 | 720 | 720 | 800 | 800 | 950 | 1000 | 610 | 610 | 610 |

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