# Gate Cast Steel A216 WCB Class 150

Body and Bonnet Cast Steel A216 WCB
Bolted Bonnet
Rising Stem OS&Y
Design, Manufacture,
Test in accordance with API 600
Norm Steel Valves: ANSI/ASME B16.34
Flange dimensions: ANSI/ASME B16.5 RF
Face to Face dimensions: ANSI/ASME B16.10
Hydrostatic Testing API 598
Diameters: 2” to 24”

* Certification pending to norm API 600 from American Petroleum Institute



## PRESSURE TEMPERATURE RATINGS

| Temperature °F/°C | Pressure worked lbs/inch2 (PSI) |
|---|---|
| | Class 150 |
| (-) 20 °F / (-) 29 °C to (+) 100 °F / (+) 38 °C | 285 |
| 200 °F / 93 °C | 260 |
| 300 °F / 149 °C | 230 |
| 400 °F / 204 °C | 200 |
| 500 °F / 260 °C | 170 |
| 600 °F / 316 °C | 140 |
| 650 °F / 343 °C | 125 |
| 700 °F / 371 °C | 110 |
| 750 °F / 399 °C | 95 |
| 800 °F / 427 °C | 80 |
| 850 °F / 454 °C | 65 |
| 900 °F / 482 °C | 50 |
| 950 °F / 510 °C | 35 |
| 1000 °F / 538 °C | 20 |

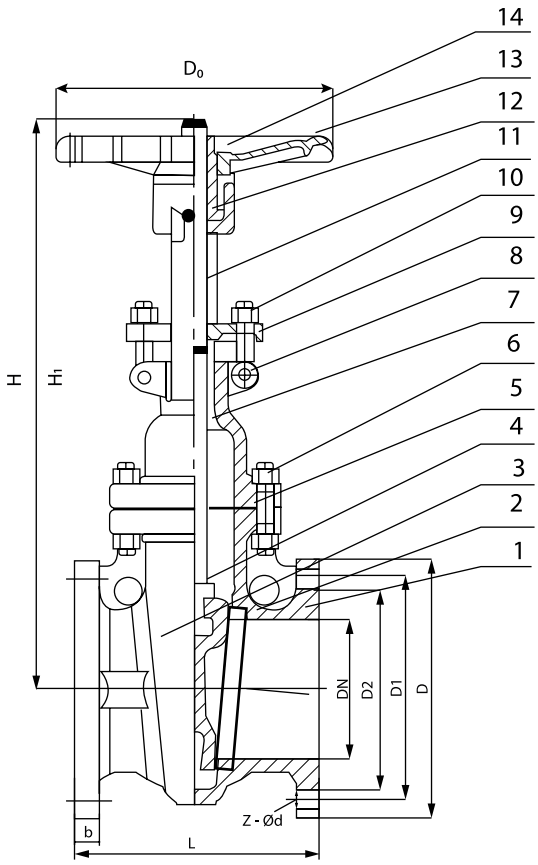
* Reference photo

* Note : Dimensions, design and materials are subject to change without notice.

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## MATERIALS

| | PART NAME | MATERIAL |
|---|---|---|
| 1 | BODY | ASTM A216 WCB |
| 2 | SEAT RING | ASTM A216 WCB+13% Cr |
| 3 | WEDGE | ASTM 216 WCB+13% Cr |
| 4 | STEM | SS 410 |
| 5 | BODY TO BONNET GASKET | 304 + GRAPHITE |
| 6 | BODY TO BONNET BOLT | ASTM A193 B7 |
| 7 | BACKSEAT | 420 |
| 8 | PACKING | FLEXIBLE GRAPHITE |
| 9 | GLAND FLANGE / GLAND | ASTM A216 WCB / 410 |
| 10 | EYE / GLAND BOLT | ASTM A193 B7 |
| 11 | BONNET | ASTM A216 WCB |
| 12 | YOQUE / STEM NUT | ZcuAL 10 Fe3 |
| 13 | HANDWHEEL | ASTM A216 WCB |
| 14 | HANDWHEEL NUT | ASTM A194 2H |




TEST API 598

## DIMENSIONS (mm)

| SIZE | L | D | $D_1$ | $D_2$ | b | Z-ød | $D_0$ | H | $H_1$ | WEIGHT (KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2” | 178 | 152 | 120.5 | 92 | 16 | 4-19 | 200 | 342 | 408 | 21 |
| 2 1/2” | 190 | 178 | 139.5 | 105 | 18 | 4-19 | 250 | 415 | 492 | 24 |
| 3” | 203 | 190 | 152.5 | 127 | 19 | 4-19 | 250 | 465 | 552 | 32 |
| 4” | 229 | 229 | 190.5 | 157 | 24 | 8-19 | 300 | 509 | 624 | 49 |
| 6” | 267 | 279 | 241.5 | 216 | 26 | 8-22 | 300 | 641 | 804 | 86 |
| 8” | 292 | 343 | 298.5 | 270 | 29 | 8-22 | 350 | 784 | 1002 | 135 |
| 10” | 330 | 406 | 352 | 324 | 31 | 12-25 | 400 | 922 | 1186 | 189 |
| 12” | 356 | 483 | 432 | 381 | 32 | 12-25 | 500 | 1096 | 1412 | 284 |
| 14” | 381 | 533 | 476 | 413 | 35 | 12-29 | 600 | 1207 | 1568 | 409 |
| 16” | 406 | 597 | 540 | 470 | 37 | 16-29 | 650 | 1350 | 1752 | 570 |
| 18” | 432 | 635 | 578 | 533 | 40 | 16-32 | 650 | 1472 | 1943 | 719 |
| 20” | 457 | 699 | 635 | 584 | 43 | 20-32 | 650 | 1630 | 2143 | 830 |
| 24” | 508 | 813 | 749.5 | 692 | 48 | 20-35 | 800 | 1922 | 2545 | 1400 |

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