



## DUCTILE GATE VALVE RISING STEM OS&Y

Valves are manufactured and tested in accordance with BS EN 1171 PN 10 /16 /25, TIS 432 PN 6 /10 /16 and also meet the requirements of pressure rate class 125/150/250/300, Suitable for all types of water, air and steam.

*SIZE: 50 mm - 2400 mm*

- IBBM (iron body and bronze mounted), stainless steel trim, and all iron trim is also available.
- Valve ends can be flanged or screwed.
- Flanged drilling to suit ANSI B 16.1, BS EN 1092-2, BS 10, ISO 2531, AS 2129, DIN, JIS, FLANGE ANSI B 16.5 CL.150/CL.300, and etc.
- Various types of operators such as handwheel, chainwheel, spur gear , bevel gear, pneumatic, hydraulic and electric actuator can be provided upon requested.
- Special accessories like by-pass unit, valve locking device, tapped bosses, drain plug, pipe cover, indicator and limit switches are also available.
- Coating Fusion Bond Epoxy, WET Epoxy and Polyester.

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## Materials

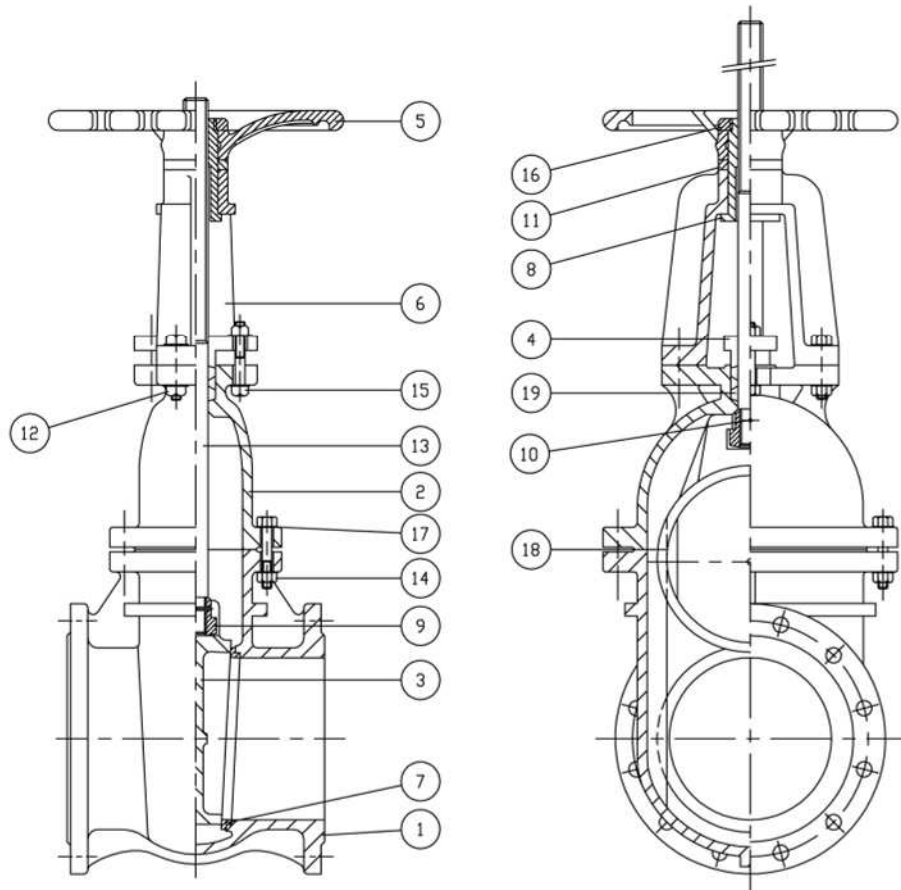


Figure:110

| PART NO. | PARTS NAME      | MATERIAL                 | ASTM. DESIGNATION. |
|----------|-----------------|--------------------------|--------------------|
| 1        | Body            | Ductile Iron             | A 536 Gr.65-45-12  |
| 2        | Bonnet          | Ductile Iron             | A 536 Gr.65-45-12  |
| 3        | Disc            | Stainless Steel          | A 276 Type 410     |
| 4        | Gland           | Ductile Iron             | A 536 Gr.65-45-12  |
| 5        | Hand Wheel      | Cast Iron                | A 126 Class B      |
| 6        | Yoke            | Ductile Iron             | A 536 Gr.65-45-12  |
| 7        | Body Seat Ring  | Stainless Steel          | A 276 Type 410     |
| 8        | Yoke Sleeve     | Bronze                   | B 62               |
| 9        | Stem Nut        | Stainless Steel          | A 276 Type 304     |
| 10       | Pin             | Stainless Steel          | A 276 Type 304     |
| 11       | Washer          | Brass                    | B 21               |
| 12       | Yoke Bolt&Nut   | Galvanized Steel         | A 307 Grade B      |
| 13       | Stem            | Stainless Steel          | A 276 Type 410     |
| 14       | Bonnet Bolt&Nut | Galvanized Steel         | A 307 Grade B      |
| 15       | Gland Bolt&Nut  | Galvanized Steel         | A 307 Grade B      |
| 16       | Hand Wheel Nut  | Galvanized Steel         | A 307 Grade B      |
| 17       | Washer          | Galvanized Steel         | A 307 Grade B      |
| 18       | Bonnet Gasket   | Soft Steel               | -                  |
| 19       | Packing         | PTFE Impregnated Braided |                    |

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## Dimension

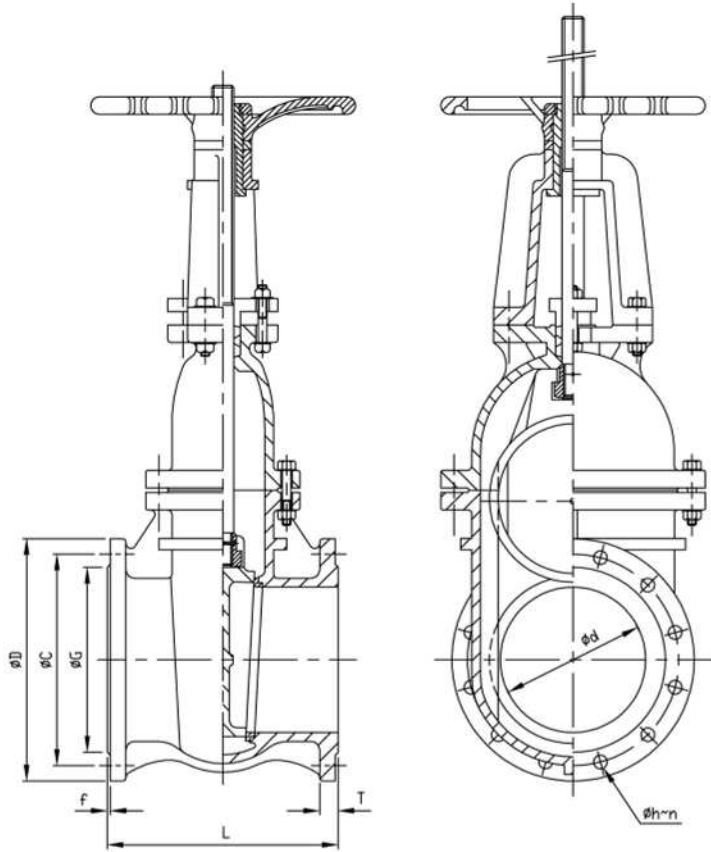


Figure:110

### CLASS 150

| SIZE                                | 50       | 65     | 80    | 100   | 150    | 200   | 250    | 300    | 350   | 400    | 450    | 500    | 550     | 600     | 650    | 700    | 750    | 800    | 850    | 900    | 1050   |        |
|-------------------------------------|----------|--------|-------|-------|--------|-------|--------|--------|-------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| $\phi d$                            | 2"       | 2 1/2" | 3"    | 4"    | 6"     | 8"    | 10"    | 12"    | 14"   | 16"    | 18"    | 20"    | 22"     | 24"     | 26     | 28     | 30     | 32     | 34     | 36     | 38     |        |
| L                                   | 178      | 190    | 203   | 229   | 267    | 292   | 330    | 356    | 381   | 406    | 432    | 457    | 483     | 508     | 559    | 610    | 610    | 660    | 711    | 711    | 813    |        |
| FLANGED ANSI B16.5 CLASS 150 (INCH) | $\phi D$ | 6      | 7     | 7 1/2 | 9      | 11    | 13 1/2 | 16     | 19    | 21     | 23 1/2 | 25     | 27 1/2  | 32      | 34 1/4 | 36 1/2 | 38 3/4 | 41 3/4 | 43 3/4 | 46     | 53     |        |
|                                     | $\phi C$ | 4 3/4  | 5 1/2 | 6     | 7 1/2  | 9 1/2 | 11 3/4 | 14 1/4 | 17    | 18 3/4 | 21 1/4 | 22 3/4 | 25      | 27 1/4  | 29 1/2 | 31 3/4 | 34     | 36     | 38 1/2 | 40 1/2 | 42 3/4 | 49 1/2 |
|                                     | $\phi G$ | 3 5/8  | 4 1/8 | 5     | 6 3/16 | 8 1/2 | 10 5/8 | 12 3/4 | 15    | 16 1/4 | 18 1/2 | 21     | 23      | 25 1/4  | 27 1/4 | 29 1/4 | 31 1/4 | 33 3/4 | 35 3/4 | 37 3/4 | 40 1/4 | 47     |
|                                     | $\phi h$ | 3/4    | 3/4   | 3/4   | 3/4    | 7/8   | 7/8    | 1      | 1     | 1 1/8  | 1 1/8  | 1 1/4  | 1 1/4   | 1 3/8   | 1 3/8  | 1 3/8  | 1 3/8  | 1 3/8  | 1 5/8  | 1 5/8  | 1 5/8  | 1 5/8  |
|                                     | n        | 4      | 4     | 4     | 8      | 8     | 8      | 12     | 12    | 12     | 16     | 16     | 20      | 20      | 20     | 24     | 28     | 28     | 28     | 32     | 32     | 36     |
|                                     | T        | 5/8    | 11/16 | 3/4   | 15/16  | 1     | 1 1/8  | 1 3/16 | 1 1/4 | 1 3/8  | 1 7/16 | 1 9/16 | 1 11/16 | 1 13/16 | 1 7/8  | 2      | 2 1/16 | 2 1/8  | 2 1/4  | 2 5/16 | 2 3/8  | 2 5/8  |
| f                                   | 1/16     | 1/16   | 1/16  | 1/16  | 1/16   | 1/16  | 1/16   | 1/16   | 1/16  | 1/16   | 1/16   | 1/16   | 1/16    | 1/16    | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   |        |

### CLASS 300

| SIZE                                | 50       | 65     | 80    | 100    | 150    | 200    | 250     | 300     | 350    | 400    | 450    | 500    | 600    |         |
|-------------------------------------|----------|--------|-------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|---------|
| $\phi d$                            | 2"       | 2 1/2" | 3"    | 4"     | 6"     | 8"     | 10"     | 12"     | 14"    | 16"    | 18"    | 20"    | 24"    |         |
| L                                   | 216      | 241    | 283   | 305    | 403    | 419    | 457     | 502     | 762    | 838    | 914    | 991    | 1143   |         |
| FLANGED ANSI B16.5 CLASS 300 (INCH) | $\phi D$ | 6 1/2  | 7 1/2 | 8 1/4  | 10     | 12 1/2 | 15      | 17 1/2  | 20 1/2 | 23     | 25 1/2 | 28     | 30 1/2 | 36      |
|                                     | $\phi C$ | 5      | 5 7/8 | 6 5/8  | 7 7/8  | 10 5/8 | 13      | 15 1/4  | 17 3/4 | 20 1/4 | 22 1/2 | 24 3/4 | 27     | 32      |
|                                     | $\phi G$ | 3 5/8  | 4 1/8 | 5      | 6 3/16 | 8 1/2  | 10 5/8  | 12 3/4  | 15     | 16 1/4 | 18 1/2 | 21     | 23     | 27 1/4  |
|                                     | $\phi h$ | 3/4    | 7/8   | 7/8    | 7/8    | 7/8    | 1       | 1 1/8   | 1 1/4  | 1 1/4  | 1 3/8  | 1 3/8  | 1 3/8  | 1 3/8   |
|                                     | n        | 8      | 8     | 8      | 8      | 12     | 12      | 16      | 16     | 20     | 20     | 24     | 24     | 24      |
|                                     | T        | 14/16  | 1     | 1 2/16 | 1 4/16 | 1 7/16 | 1 10/16 | 1 14/16 | 2      | 2 2/16 | 2 4/16 | 2 6/16 | 2 8/16 | 2 12/16 |
| f                                   | 1/16     | 1/16   | 1/16  | 1/16   | 1/16   | 1/16   | 1/16    | 1/16    | 1/16   | 1/16   | 1/16   | 1/16   | 1/16   |         |



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