

## TWO-PIECE BALL VALVE

### JIS 10K FLANGE END

### Two-Piece Ball Valve

### JIS 10K Flange End

TC221 CAST IRON/A126Gr-FC20  
 TC222 CARBON STEEL WCB  
 TC223 STAINLESS STEEL 304/SCS13  
 TC224 STAINLESS STEEL 316/SCS14

#### FEATURES :

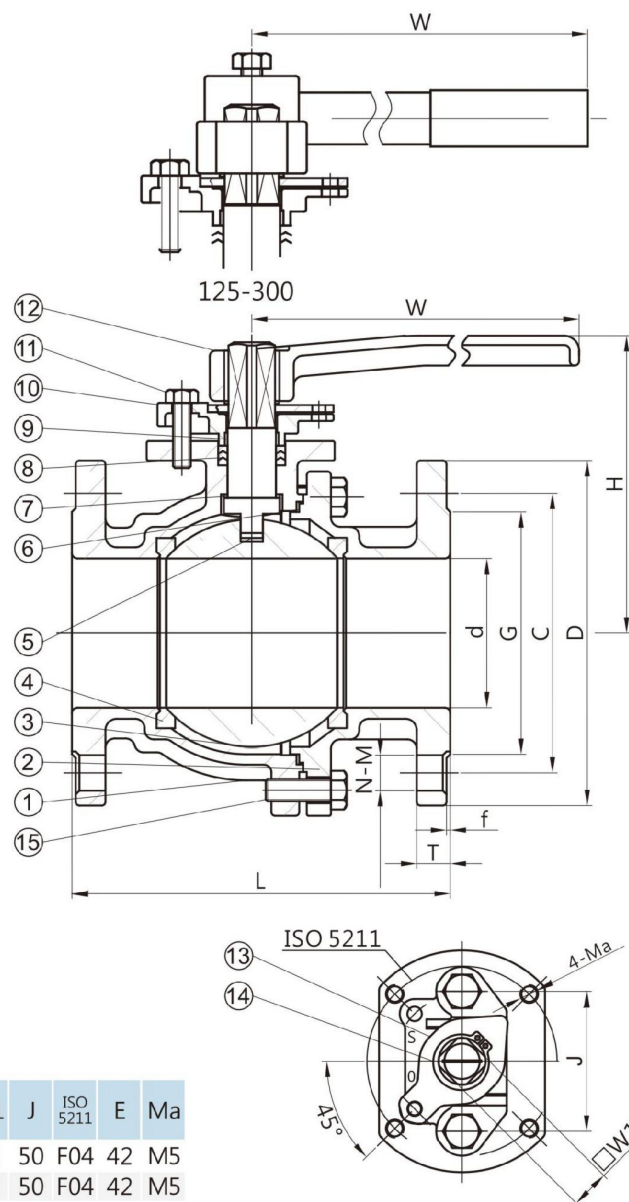
- FACE TO FACE DIMENSIONS: JIS B2002
- END FLANGE DIMENSIONS: JIS B2239
- DESIGN : ANSI B16.34
- TEST : JIS B2203
- WITH ISO 5211 MOUNTING PAD
- INVESTMENT CASTING BODY
- BLOW-OUT PROOF STEM / FULL PORT
- LEVER OPERATED OR GEAR OPERATED
- MATERIAL : CAST IRON / FC20  
 CARBON STEEL/SCPH2/WCB  
 STAINLESS STEEL/ 304/SCS13  
 STAINLESS STEEL/ 316/SCS14

#### MATERIALS LIST:

| NO. | PART NAME     | MATERIAL |              |        |        |
|-----|---------------|----------|--------------|--------|--------|
| 1   | BODY          | FC20     | WCB          | SCS13  | SCS14  |
| 2   | CAP           | FC20     | WCB          | SCS13  | SCS14  |
| 3   | BALL          | SCS13    | SCS13        | SCS13  | SCS14  |
| 4   | SEAT          | PTFE     |              |        |        |
| 5   | STEM          | SUS304   | SUS304       | SUS304 | SUS316 |
| 6   | GASKET        | PTFE     |              |        |        |
| 7   | THRUST WASHER | PTFE     |              |        |        |
| 8   | PACKING       | PTFE     |              |        |        |
| 9   | STEM PACKING  | PTFE     |              |        |        |
| 10  | GLAND         | SS41     | SCS13        |        |        |
| 11  | GLAND BOLT    | S41C     | CARBON STEEL | SUS304 |        |
| 12  | HANDLE        |          |              |        | WCB    |
| 13  | STOPPER       |          |              |        | SUS304 |
| 14  | SNAP RING     |          |              |        | SUS304 |
| 15  | BOLT          | S41C     | CARBON STEEL | SUS304 |        |

#### DIMENSIONS:

| SIZE | d   | D   | C   | G   | f | T  | N-M | L     | H   | W   | W1   | J  | ISO 5211 | E   | Ma     |
|------|-----|-----|-----|-----|---|----|-----|-------|-----|-----|------|----|----------|-----|--------|
|      |     |     |     |     |   | FC | SUS |       |     |     |      |    |          |     |        |
| 15   | 15  | 95  | 70  | 51  | 1 | 13 | 12  | 4-15  | 110 | 70  | 160  | 12 | 50       | F04 | 42 M5  |
| 20   | 20  | 100 | 75  | 56  | 1 | 15 | 14  | 4-15  | 120 | 73  | 160  | 12 | 50       | F04 | 42 M5  |
| 25   | 25  | 125 | 90  | 67  | 1 | 15 | 14  | 4-19  | 130 | 77  | 160  | 12 | 50       | F05 | 50 M6  |
| 32   | 32  | 135 | 100 | 76  | 2 | 17 | 16  | 4-19  | 140 | 85  | 160  | 12 | 50       | F05 | 50 M6  |
| 40   | 40  | 140 | 105 | 81  | 2 | 17 | 16  | 4-19  | 165 | 104 | 186  | 17 | 62       | F07 | 70 M8  |
| 50   | 50  | 155 | 120 | 96  | 2 | 17 | 16  | 4-19  | 180 | 114 | 186  | 17 | 62       | F07 | 70 M8  |
| 65   | 65  | 175 | 140 | 116 | 2 | 20 | 18  | 4-19  | 190 | 142 | 324  | 21 | 75       | F07 | 70 M8  |
| 80   | 80  | 185 | 150 | 126 | 2 | 21 | 18  | 8-19  | 200 | 153 | 324  | 21 | 75       | F10 | 102M10 |
| 100  | 100 | 210 | 175 | 151 | 2 | 21 | 18  | 8-19  | 230 | 166 | 324  | 21 | 75       | F10 | 102M10 |
| 125  | 125 | 250 | 210 | 182 | 2 | 24 | 20  | 8-23  | 300 | 224 | 750  | 24 | 89       | F12 | 125M12 |
| 150  | 150 | 280 | 240 | 212 | 2 | 26 | 22  | 8-23  | 340 | 247 | 750  | 24 | 89       | F12 | 125M12 |
| 200  | 200 | 330 | 290 | 262 | 2 | 26 | 22  | 12-23 | 450 | 305 | 1000 | 32 | 100      | F12 | 125M12 |
| 250  | 250 | 400 | 355 | 324 | 2 | 28 | 24  | 12-25 | 530 | 327 | 1000 | 32 | 100      | F14 | 140M16 |
| 300  | 300 | 445 | 400 | 368 | 3 | 30 | 24  | 16-25 | 610 | 355 | 1000 | 32 | 100      | F14 | 140M16 |



#### TEST PRESSURE:

|                 |                        |
|-----------------|------------------------|
| SHELL(BY WATER) | 2.1MPa                 |
|                 | 21.5kg/cm <sup>2</sup> |
| SEAT            | 1.6MPa                 |
|                 | 16.5kg/cm <sup>2</sup> |
| BY AIR          | 0.6MPa                 |
|                 | 6kg/cm <sup>2</sup>    |