



Maximum working pressure

| SIZE |        | kg/cm <sup>2</sup> |
|------|--------|--------------------|
| DN   | NPS    |                    |
| 15   | 1/2"   | 12                 |
| 20   | 3/4"   | 12                 |
| 25   | 1"     | 10                 |
| 40   | 1-1/2" | 10                 |
| 50   | 2"     | 10                 |
| 65   | 2-1/2" | 10                 |
| 80   | 3"     | 10                 |
| 100  | 4"     | 10                 |
| 125  | 5"     | 8                  |
| 150  | 6"     | 8                  |

|    |               |                       |  |
|----|---------------|-----------------------|--|
| 14 | Grease Nipple | 304SS                 |  |
| 13 | Washer        | PTFE                  |  |
| 12 | Spring Washer | St.St.                |  |
| 11 | Bolts & Nuts  | 304 SS                |  |
| 10 | Fitting Screw | 304 SS                |  |
| 9  | Trust Bearing | Standardied(65-250mm) |  |
| 8  | Stem Bush     | Bronze                |  |
| 7  | Compressor    | WCB                   |  |
| 6  | Handwheel     | WCB                   |  |
| 5  | Stem          | 304 SS                |  |
| 4  | Diaphragm     | PTFE+EPDM             |  |
| 3  | Lining        | PFA                   |  |
| 2  | Bonnet        | WCB                   |  |
| 1  | Body          | FCD-45                |  |

| SIZE |        | L1  | L2  | H   | ØC  | t  |    |     | JIS 10K |       |     | ANSI 150LB |       |     | DIN PN16 |       |      | Wt. Kg |
|------|--------|-----|-----|-----|-----|----|----|-----|---------|-------|-----|------------|-------|-----|----------|-------|------|--------|
| DN   | NPS    |     |     |     |     | t1 | t2 | ØD  | ØK      | nxØd1 | ØD  | ØK         | nxØd1 | ØD  | ØK       | nxØd1 |      |        |
| 15   | 1/2"   | 114 | 130 | 100 | 80  | 13 | 10 | 95  | 70      | 4x15  | 89  | 60.5       | 4x16  | 95  | 65       | 4x14  | 3    |        |
| 20   | 3/4"   | 123 | 150 | 100 | 80  | 13 | 10 | 100 | 75      | 4x15  | 98  | 70.0       | 4x16  | 105 | 75       | 4x14  | 3.5  |        |
| 25   | 1"     | 133 | 160 | 105 | 100 | 13 | 10 | 125 | 90      | 4x19  | 108 | 79.5       | 4x16  | 115 | 85       | 4x14  | 4.5  |        |
| 40   | 1-1/2" | 175 | 200 | 125 | 120 | 16 | 13 | 140 | 105     | 4x19  | 127 | 98.5       | 4x16  | 150 | 110      | 4x18  | 8.5  |        |
| 50   | 2"     | 196 | 230 | 135 | 140 | 19 | 14 | 155 | 120     | 4x19  | 152 | 120.5      | 4x19  | 165 | 125      | 4x18  | 9.5  |        |
| 65   | 2-1/2" | 222 | 290 | 170 | 180 | 19 | 14 | 175 | 140     | 4x19  | 178 | 139.5      | 4x19  | 185 | 145      | 4x18  | 10.5 |        |
| 80   | 3"     | 260 | 310 | 190 | 200 | 19 | 14 | 185 | 150     | 8x19  | 190 | 152.5      | 4x19  | 200 | 160      | 8x18  | 18.5 |        |
| 100  | 4"     | 313 | 350 | 220 | 250 | 22 | 17 | 210 | 175     | 8x19  | 229 | 190.5      | 8x19  | 220 | 180      | 8x18  | 28   |        |
| 125  | 5"     | 361 | 400 | 270 | 280 | 22 | 17 | 250 | 210     | 8x22  | 254 | 216.0      | 8x22  | 250 | 210      | 8x18  | 52   |        |
| 150  | 6"     | 415 | 480 | 300 | 320 | 22 | 17 | 280 | 240     | 8x22  | 279 | 241.5      | 8x22  | 285 | 240      | 8x23  | 71   |        |

\* t1 = FC, FCD, WCB  
\* t2 = SCS 13, SCS 14

\* L1 = ANSI 150LB, JIS 10K  
\* L2 = DIN PN16

| No. | Description | Materials | Remark |
|-----|-------------|-----------|--------|
|-----|-------------|-----------|--------|

Testing Standard : API-598

Body (Hydrostatic Pressure Test) : 31 Kg/cm<sup>2</sup>

Seat (Hydrostatic Pressure Test) : 10 Kg/cm<sup>2</sup>

(Pneumatic Pressure Test) : 6 Kg/cm<sup>2</sup>



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|       |  |                               |     |      |                |
|-------|--|-------------------------------|-----|------|----------------|
| APPD  |  | DIAPHRAGM VALVE IN WEIRTYPE   |     |      |                |
| CHKD  |  | PFA LINED PTFE+EPDM DIAPHRAGM |     |      |                |
| DRAWN |  | HANDWHEEL OPERATED            |     |      |                |
| DATE  |  | SCALE                         | X:1 | FIG. | 606 2016 06 15 |