

Fig No. MD-C2 Full Bore
1/2" - 4" DN 15 - DN 100



Features :

- Full Bar Machined
- Blow Out Proof Stem Design
- Non Anti-Static Device

Standard Compliance :

- Basic Design : ANSI B16.34
- Body Wall Thickness : B16.34
- Face to Face Length : ANSI B16.10 Class 150
- Flange Dimension : ANSI B16.5 Class 150
- Pressure Testing : API 598 / EN 12266

Specification :

- Working Pressure : 275 PSI (WOG)
- Temperature : -20 to 180 °C (-4 to 356 °F)
- Suggested Application : Organic Acid, Caustic Soda, Nitric Acid, Chlorides

MATERIAL LIST

| NO. | PART NAME | MATERIAL |
|-----|-------------------|-----------------|
| 1 | BODY | ASTM B381 Gr.F5 |
| 4 | BALL | ASTM B381 Gr.F5 |
| 5 | STEM | ASTM B381 Gr.F5 |
| 9 | END CAP | ASTM B381 Gr.F5 |
| 11 | BODY SEAL | PTFE. |
| 12 | SEAT | PTFE. |
| 13 | THRUST WASHER | RTFE.(15%G.F.) |
| 14 | STEM PACKING | PTFE. |
| 15 | GLAND | ASTM B381 Gr.F5 |
| 19 | HANDLE | SS304 |
| 24 | HANDLE NUT | SS304 |
| 29 | BELLEVILLE WASHER | SS304 |
| 30 | STOP WASHER | SS304 |
| 31 | STEM O-RING | VITON® |
| 33 | STOPPER | SS304 |
| 35 | STUD | SS304 |
| 37 | NUT | SS304 |

FLANGE DIMENSION: ANSI B16.5 Class 150
FACE TO FACE: ANSI B16.10 Class 150

DIMENSIONS

| SIZE | PORT | L | E | H | H1 | H3 | h | ØG | ØJ | ØI | T | M | ØN | ØK | C | unit:mm | |
|-------|--------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|------|----|------|-------|---------|-----|
| | | | | | | | | | | | | | | | | Z | Z |
| DN15 | 1/2" | 13.0 | 108.0 | 140.0 | 69.7 | 19.2 | 47.2 | 10.7 | 90.0 | 60.3 | 40.0 | 11.6 | 4 | 16.0 | 36.0 | 9 | M5 |
| DN20 | 3/4" | 19.0 | 117.0 | 140.0 | 74.8 | 18.5 | 51.5 | 10.8 | 100.0 | 69.9 | 46.0 | 13.2 | 4 | 16.0 | 36.0 | 9 | M5 |
| DN25 | 1" | 25.0 | 127.0 | 164.0 | 87.1 | 25.0 | 64.0 | 13.1 | 110.0 | 79.4 | 55.0 | 14.7 | 4 | 16.0 | 42.0 | 11 | M5 |
| DN32 | 1-1/4" | 32.0 | 140.0 | 164.0 | 92.1 | 25.4 | 69.0 | 12.6 | 115.0 | 88.9 | 63.5 | 16.3 | 4 | 16.0 | 42.0 | 11 | M5 |
| DN40 | 1-1/2" | 38.0 | 165.0 | 210.0 | 119.8 | 33.0 | 87.0 | 18.8 | 125.0 | 98.4 | 75.0 | 17.9 | 4 | 16.0 | 50.0 | 14 | M6 |
| DN50 | 2" | 49.0 | 178.0 | 210.0 | 130.2 | 33.4 | 97.4 | 19.2 | 150.0 | 120.7 | 91.9 | 19.5 | 4 | 19.0 | 70.0 | 14 | M8 |
| DN65 | 2-1/2" | 64.0 | 190.0 | 310.0 | 151.0 | 42.0 | 119.0 | 22.0 | 180.0 | 139.7 | 105.0 | 22.7 | 4 | 19.0 | 70.0 | 17 | M8 |
| DN80 | 3" | 76.0 | 203.0 | 380.0 | 160.0 | 42.0 | 128.0 | 22.0 | 190.0 | 152.4 | 127.0 | 24.3 | 4 | 19.0 | 70.0 | 17 | M8 |
| DN100 | 4" | 100.0 | 305.0 | 400.0 | 169.5 | 42.0 | 167.0 | 29.8 | 230.0 | 190.5 | 157.2 | 24.3 | 8 | 19.0 | 102.0 | 22 | M10 |

| SIZE | PORT | L | E | H | H1 | H3 | h | ØG | ØJ | ØI | T | M | ØN | ØK | C | unit:inch | |
|-------|--------|------|-------|-------|------|------|------|------|------|------|------|------|----|------|------|-----------|-----|
| | | | | | | | | | | | | | | | | Z | Z |
| DN15 | 1/2" | 0.51 | 4.25 | 5.51 | 2.74 | 0.76 | 1.86 | 0.42 | 3.54 | 2.37 | 1.57 | 0.46 | 4 | 0.63 | 1.42 | 0.35 | M5 |
| DN20 | 3/4" | 0.75 | 4.61 | 5.51 | 2.94 | 0.73 | 2.03 | 0.43 | 3.94 | 2.75 | 1.81 | 0.52 | 4 | 0.63 | 1.42 | 0.35 | M5 |
| DN25 | 1" | 0.98 | 5.00 | 6.46 | 3.43 | 0.98 | 2.52 | 0.52 | 4.33 | 3.13 | 2.17 | 0.58 | 4 | 0.63 | 1.65 | 0.43 | M5 |
| DN32 | 1-1/4" | 1.26 | 5.51 | 6.46 | 3.63 | 1.00 | 2.72 | 0.50 | 4.53 | 3.50 | 2.50 | 0.64 | 4 | 0.63 | 1.65 | 0.43 | M5 |
| DN40 | 1-1/2" | 1.50 | 6.50 | 8.27 | 4.72 | 1.30 | 3.43 | 0.74 | 4.92 | 3.87 | 2.95 | 0.70 | 4 | 0.63 | 1.97 | 0.55 | M6 |
| DN50 | 2" | 1.93 | 7.01 | 8.27 | 5.13 | 1.31 | 3.83 | 0.76 | 5.91 | 4.75 | 3.62 | 0.77 | 4 | 0.75 | 2.76 | 0.55 | M8 |
| DN65 | 2-1/2" | 2.52 | 7.48 | 12.20 | 5.94 | 1.65 | 4.69 | 0.87 | 7.09 | 5.50 | 4.13 | 0.89 | 4 | 0.75 | 2.76 | 0.67 | M8 |
| DN80 | 3" | 2.99 | 7.99 | 14.96 | 6.30 | 1.65 | 5.04 | 0.87 | 7.48 | 6.00 | 5.00 | 0.96 | 4 | 0.75 | 2.76 | 0.67 | M8 |
| DN100 | 4" | 3.94 | 12.01 | 16.00 | 6.69 | 1.65 | 6.57 | 1.17 | 9.06 | 7.50 | 6.19 | 0.96 | 8 | 0.75 | 4.02 | 0.87 | M10 |

