

Cryogenic Stainless Steel Manual Gate Valve

Bolted Bonnet - Extended Stem
DN40 - DN100 (1½" - 4")

The Stainless Steel uni-directional extended stem gate valve has a bolted bonnet, integral soft seat and bronze internals. Available with Butt Weld ends, the valve has a wedge seat design for tight shut off designed to seal on downstream seat only in order to prevent liquid lock. The bolted bonnet allows for simple site maintenance with easy access to the serviceable parts of the valve.

All valves are degreased for oxygen duty, assembled in clean room conditions and pressure tested prior to dispatch.

Maximum Working Pressure (MWP)

Subject to end connections

Up to 40 bar (580 psi) at -196°C to +65°C

Features

- Replaceable body seat that is part of the headwork assembly (excluding DN40)
- Precision investment cast body - smooth surface finish
- Lapped seat and PTFE seal ensure a tight shut off at all time
- Lightweight design gives excellent thermal characteristics
- Anti-blow out stem and one-piece high strength stem design for operator safety
- Long life, low torque stem thread
- Screwed and welded high strength extension tube and bonnet joints
- Lightweight ergonomic handwheel
- Quick removal of headworks allows fast/easy maintenance

Technical

- Designed and engineered for use with Group 1 gases.
- Designed and manufactured in accordance with ASTM B31.1, BS EN 1626 and BS ISO 21011
- Optional full material traceability backed by BS EN 10204 3.1/3.2 certification.

CE Marked according to the Pressure Equipment Directive

Please contact us for other options.



DN40 Stainless Steel Gate Valve with Butt Weld Ends

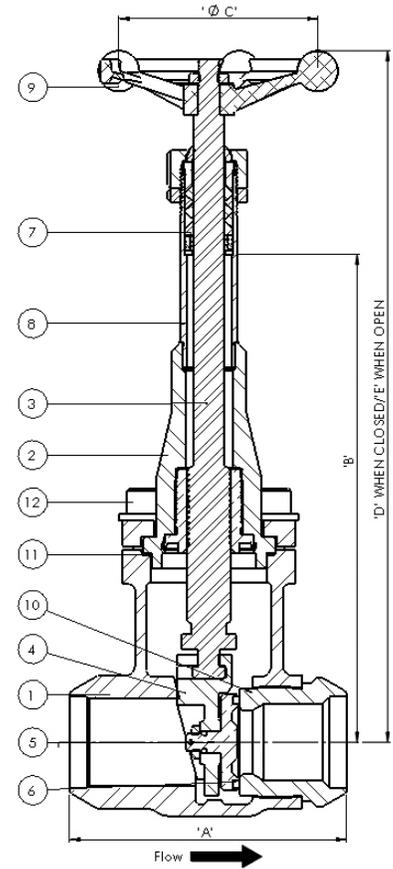


DN50 Gate Valve with Butt Weld Ends

DN80 Gate Valve with Butt Weld Ends

Materials

| | Stainless Steel |
|---------------------|--------------------------------------|
| 1. Body | Stainless Steel ASTM A351 CF8M |
| 2. Cover | Stainless Steel ASTM A351 CF8M |
| 3. Stem | Stainless Steel BS EN 10088-3 1.4401 |
| 4. Wedge | Stainless Steel ASTM A351 CF8M |
| 5. Disc | Phosphor Bronze |
| 6. Disc/Seat Seal | Virgin PTFE |
| 7. Packing Assembly | HT Brass/Virgin PTFE |
| 8. Extension Tube | Stainless Steel ASTM A312 TP304L |
| 9. Handwheel | Aluminium |
| 10. Seat | Stainless Steel BS EN 10088-3 1.4401 |
| 11. Bonnet Gasket | Sigma 511 |
| 12. Fasteners | Stainless Steel BS6105 A2/A4 Gr.70 |



Specifications

| Size | Unit | DN40 1½" | DN50 2" | DN65 2½" | DN80 3" | DN100 4" |
|--------|--------|-------------|------------|-------------|------------|-------------|
| A | mm | 130 | 140 | 150 | 150 | 229 |
| B | mm | 230 | 300 | 300 | 400 | 400 |
| C | mm | 102 | 146 | 146 | 146 | 146 |
| D | mm | 326 | 396 | 389 | 496 | 496 |
| E | mm | 363 | 456 | 464 | 586 | 586 |
| Cv | US GPM | 132 | 240 | 380 | 560 | 560 |
| Weight | kg | 5.3 | 10.4 | 12.9 | 18.2 | 20.5 |

How to Order

| Part Number | Valve Size Diameter Nominal (DN) | Connection Type | Stem Length (mm) |
|---------------|-------------------------------------|-----------------------|------------------|
| CMC70B1D3S00 | DN40 | Butt Weld Schedule 10 | 230 |
| CMC70STED3S00 | | Socket Weld | |
| CMC80B1D6S00 | DN50 | Butt Weld Schedule 10 | 300 |
| CMC80STED6S00 | | Socket Weld | |
| CMC90B1D4S00 | DN65 | Butt Weld Schedule 10 | 300 |
| CMC90STED4S00 | | Socket Weld | |
| CMCA0B1D7S00 | DN80 | Butt Weld Schedule 10 | 400 |
| CMCA0STED7S00 | | Socket Weld | |
| CMCB0B1D7S00 | DN100 | Butt Weld Schedule 10 | 400 |
| CMCB0STED7S00 | | Socket Weld | |

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