
**Producto distribuido por**

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# Cryogenic Manifold Fill Assemblies

## Bronze
## DN40 (1½")

The Parker Bestobell cryogenic main fill valve manifold is specifically designed for cryogenic static storage tanks to replace the traditional gang of valves linked together with piping and a large amount of welding and brazing.

It is the joining together of four valves: top fill, bottom fill, check valve and drain valve.

The design makes it a simple valve to operate from the user perspective. The Manifold can be supplied with various inlet connections to suit customer requirements.

Located within the valve is a spring to close check valve to prevent back wash of media at the end of the filling cycle. A drain valve is fitted to release any trapped media in the fill block. A warm-up leg is also included for the connection of a thermal relief valve.

The unit is supplied ready to be fitted to the tank, with pipe specifications supplied by the customer.

DN40 Bronze Manifold Fill Assembly

### Maximum Working Pressure (MWP)

Subject to end connections

Up to 50 bar (725 psi) at -196°C to +65°C (extended stem)

### Features

- A one piece body reduces the number of potential leak paths and simplifies the piping system
- The unique internal characteristics reduces the pressure drop and vessel filling time
- Complete valve assembly reduces the tank build time
- Check valve for additional safety
- Self-draining strainer prevents debris entering the system
- Bolted bonnet headworks allow for easy maintenance

### Technical

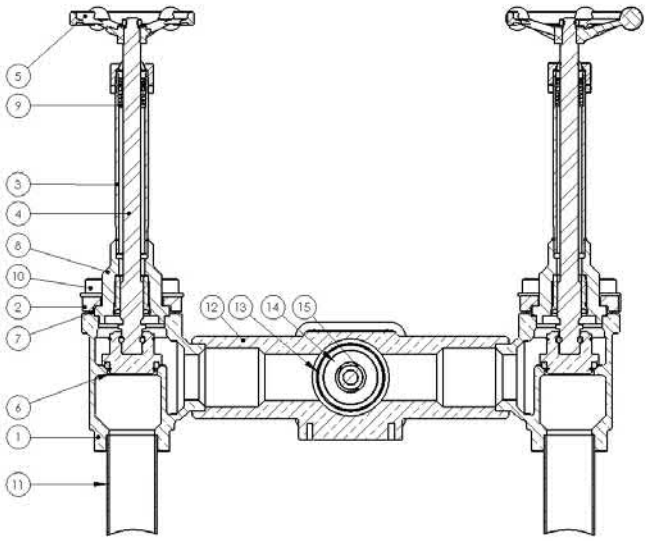
- Designed and engineered for use with Group 1 gases.
- Designed and manufactured in accordance with ASTM B31.1, BS EN 1626 and BS ISO 21011
- Optional full material traceability backed by BS EN 10204 3.1/3.2 certification.
- Manual operated inside screw globe valves.
- Available with copper and Stainless Steel stubs.
- CE Marked according to the Pressure Equipment Directive

DN40 Bronze Manifold Fill Assembly

DN40 Bronze Manifold Fill Assembly with Short Centre

## Materials

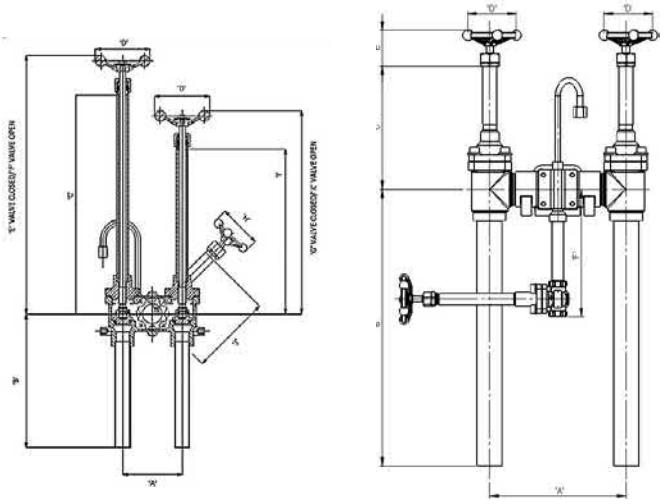
| | Bronze |
|---|---|
| 1. Body | Gunmetal BS EN 1982 CC491K |
| 2. Bonnet | Gunmetal BS EN 1982 CC491K |
| 3. Tube, Extension | Stainless Steel ASTM A312 TP 304L |
| 4. Stem | Stainless Steel BS EN 10088-3 1.4401 |
| 5. Handwheel | Aluminium |
| 6. Disc | HT Brass BS EN 12164 CW721R |
| 7. Gasket | Sigma 511 |
| 8. Seal | PCTFE |
| 9. Gland Packing | Virgin PTFE Sigma 511 |
| 10. Fasteners | Stainless Steel BS6105 A2/A4 Gr.70 |
| 11. Down Pipe | Stainless Steel ASTM A312 TP304L |
| 12. Central Body | Gunmetal BS EN 1982 CC491K |
| 13. Strainer | Brass |
| 14. Disc | HT Brass BS EN 12164 CW721R |
| 15. Spring | PHOS BRZ BS EN 12163 CW451K |




## Specifications

### Short Centre Type Bronze Casting

| Size | Unit | DN40 |
|---|---|---|
| A | mm | 120 |
| B | mm | 248 |
| C | mm | 400 |
| D | mm | 121 |
| E | mm | 80 |
| F | mm | 300 |
| G | 1½" NB Schedule 10 | |
| H | mm | 112 |
| J | mm | 156 |
| Cv | US GPM | 26.5 |
| Weight | kg | 15 |



### Long Centre Type Bronze Casting

| Size | Unit | DN40 |
|---|---|---|
| A | mm | 301 |
| B | mm | 85 |
| C | mm | 230 |
| D | Dia mm | 121 |
| E | mm | 90 |
| F | mm | 118 |
| G | Socket End To Suit 1½" NB Schedule 10 | |

## How to Order

| Part Number | Valve Size - Diameter Nominal (DN) | Stubs Material | Options |
|---|---|---|---|
| CTB70F1LLET00 | DN40 | Stainless Steel | Without redundant valves |
| CTB70F1LLPR010 | | Copper | Without redundant valves |
| CTB70F1LLPR020 | | | With redundant valves |

Please contact us for other options.