

Test Valve for Pressure Cartridge Transmitters

MBV 3000

Features



The MBV 3000 test valve has been designed for mounting with Danfoss pressure cartridge transmitters type MBS 3100/3150 and MBS 33M.

The main advantage is the ability to test the operating transmitter through the test connection. A built-in shut-off valve gives the possibility to maintain transmitter without having to first drain the system. After the transmitter is tested, the valve is manually re-opened and the transmitter is again connected to the system.

- Compact design
- Light material
- Direct connection into the measuring point
- Possible to position in all directions
- Flexible because transmitter and test coupling can replace each other
- Fast and easy to operate

Description

MBV 3000 is a test valve which is designed for the test of pressure cartridge transmitters within the marine industry.

The valve meets demands for fast installation, simple and effective isolation and easy test pressure connection

Technical data

Performance

| | |
|--------------------|--------------------------------------|
| Operating pressure | 0-120 bar |
| Burst pressure | 480 bar (4 x Max. Working Pressure) |
| Service life | 10 years |

Environmental conditions

| | |
|-----------------------------|---|
| Operation temperature range | -20 - 120°C (IEC 60068-2-1, IEC 60068-2-2) |
| Vibration stability | Sinusoidal, 20 g, 5 Hz - 2 kHz (IEC 60068-2-6) Random, 7,54 g _{rms} , 18 Hz - 1 kHz (IE 60068-2-64) |
| Shock resistance | Half sinusoidal, 100 g, 6 ms (IEC 60068-2-27) Half sinusoidal, 500 g, 1 ms (IEC 60068-2-27) |
| Fluids | Air, water, lubricating oil, heavy and light fuel oil, sea water ¹⁾ |

¹⁾ Dependent on application and temperature. Problems may occur when sea water temperature exceeds 15°C. Also special MiniMess is required when using sea water as fluid.

Mechanical characteristics

| | |
|---------------------------------|---|
| Materials | |
| Valve body and inner screw bolt | Anodised AlMgSi1 F28-32/3.2315/EN AW-6082 |
| Nipple, union nut, spindle | AISI 316/1.4401/SUS 316 |
| Ball | AISI 316L/1.4404/SUS 316L |
| Marking plate | AISI 304/1.4301/SUS 304 |
| Grooved pins | 1.4305/EN 10088-3 |
| Seeger circlip ring | 1.4122/EN 10088-2 |
| Seats | PEEK |
| O-rings/ gaskets | FKM (Viton) |
| Weight | 0.29 kg |

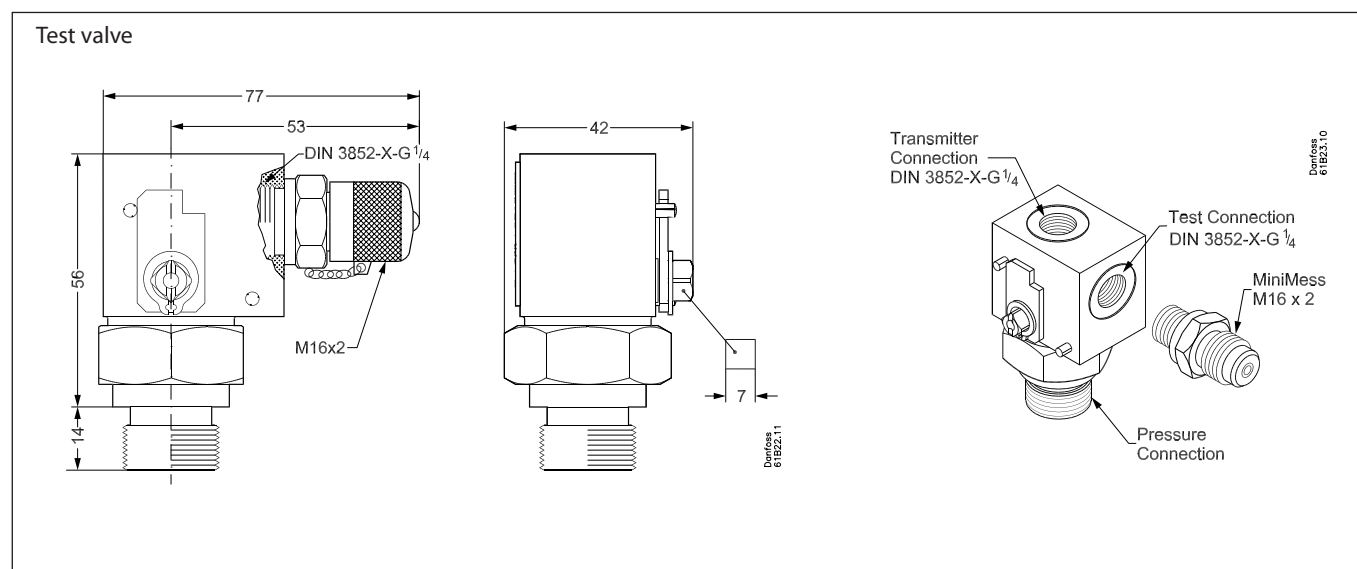
Specification and code nos for standard

| Pressure range [bar] | Pressure connection | Transmitter connection | Test connection | Type | Code no. |
|----------------------|---------------------|------------------------|-----------------|-------------|-----------------|
| 0 - 120 | DIN 3852-E-G½ | DIN 3852-X-G¼ | Yes | MBV 3000-11 | 061B6100 |

Ordering of special versions

| | | | |
|----------------------------|--------------------------|---|---|
| Type | MBV 3000- | X | X |
| Pressure connection | G½ DIN 3852-E..... | 1 | |
| | Others X | X | |
| Test connection (MiniMess) | Yes 1 | | |
| | No 2 | | |

Dimensions



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