ENGINEERING
TOMORROW

Data Sheet

# Test valve
# Type **MBV 3000**

Heavy duty marine applications




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

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 drain the system. After the transmitter is tested, the valve is manually re-opened and the transmitter is again connected to the system.

**Features**

- Compact design
- 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

# Product specification

## Technical data

### Table 1: Performance (EN 60770)

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

### Table 2: 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 | 7.5 grms , 18 Hz – 1 kHz | IEC 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] For sea water only stainless steel version should be used

### Table 3: Mechanical characteristics

| | | |
|---|---|---|
| **Materials** | Valve body and inner screw bolt | Anodised AlMgSi1 F28-32/3.2315/EN AW-6082 Stainless steel 1.4401 |
| | 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 / 0.508 kg[2] |

[2] Stainless steel version

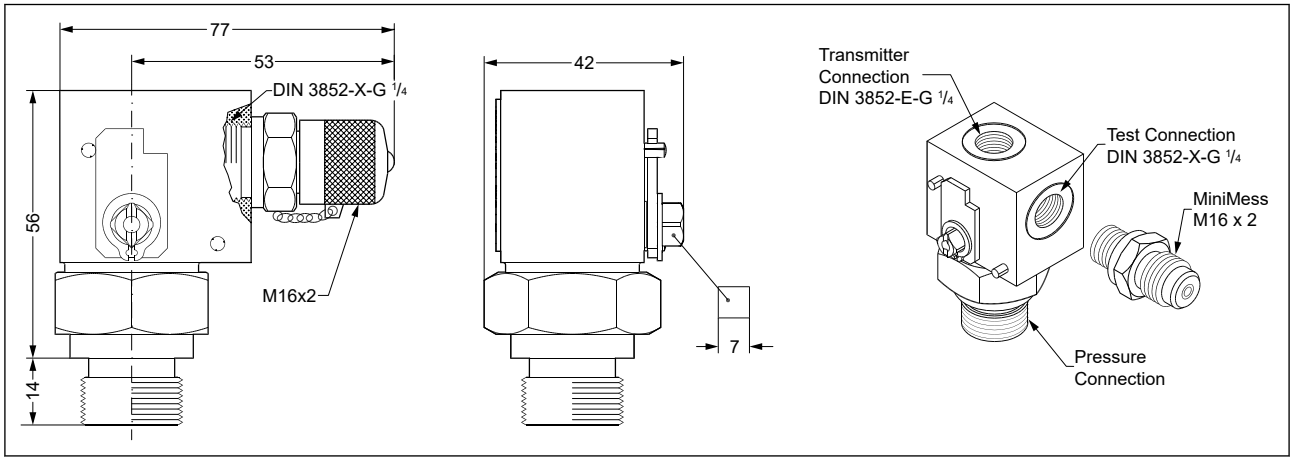
## Standard specification and code numbers

### Table 4: Specification and code numbers

| Type | Pressure range [bar] | Pressure connection | Transmitter connection | Test connection | Code no. |
|---|---|---|---|---|---|
| MBV 3000-11 | 0 – 120 | DIN 3852-E-G 1/2 | DIN 3852-E-G ¼ | Yes | 061B6100 |
| MBV 3000-11S | 0 – 120 | DIN 3852-E-G 1/2 | DIN 3852-E-G ¼ | Yes | 061B6110 |

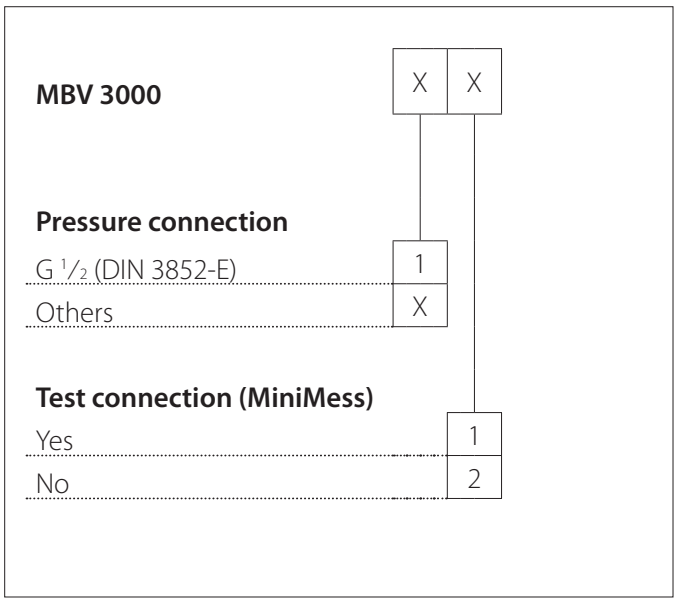
## Dimensions / Combinations

### Figure 1: Dimensions and combinations of MBV 3000



## Ordering

### Ordering standard




## Certificates, declarations, and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at danfoss.com or contact your local Danfoss representative if you have any questions.

**Table 5: Declarations**

| File name | Document type | Document topic | Approval authority |
|---|---|---|---|
| EAC RU Д-DK.БЛ08.B.03644 | EAC Declaration | Machinery & Equipment | EAC |

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