

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

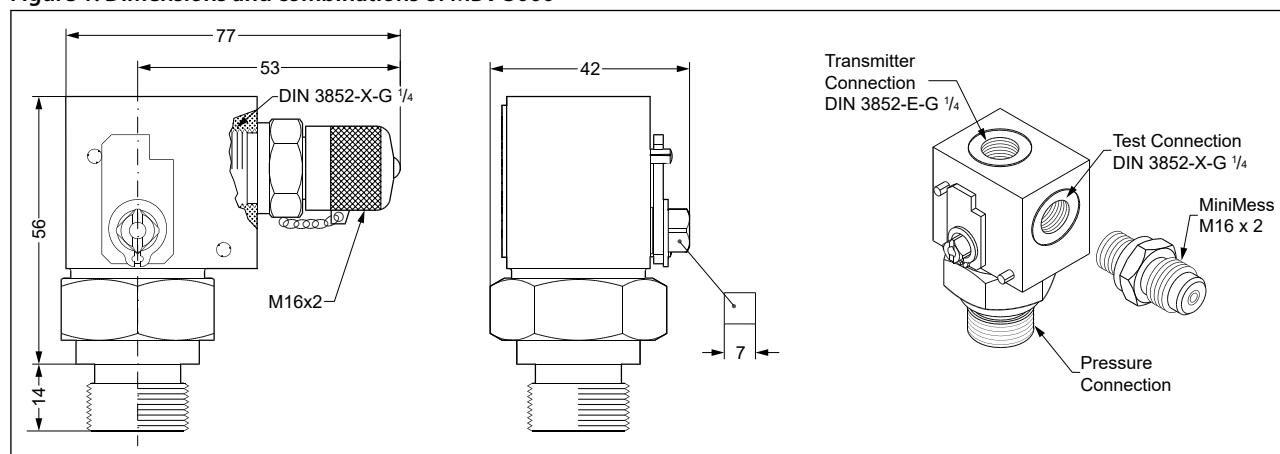
Standard specification and code numbers

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 1/4	Yes	061B6100
MBV 3000-11S	0 – 120	DIN 3852-E-G 1/2	DIN 3852-E-G 1/4	Yes	061B6110

Dimensions / Combinations

Figure 1: Dimensions and combinations of MBV 3000



Ordering

Ordering standard

MBV 3000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure connection		
G 1/2 (DIN 3852-E)	<input type="checkbox"/>	<input type="checkbox"/>
Others	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test connection (MiniMess)		
Yes	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>

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-ДК.Б/108.В.03644	EAC Declaration	Machinery & Equipment	EAC

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