

Data sheet

Test valve for pressure cartridge transmitters

Type MBV 3000



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
- 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

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Technical data

Performance (EN 60770)

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	7.5 g _{rms} , 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⁾ 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-G 1/2	DIN 3852-X-G 1/4	Yes	MBV 3000-11	061B6100

Ordering standard

MBV 3000		X	X
Pressure connection			
G 1/2 (DIN 3852-E)		1	
Others		X	
Test connection (MiniMess)			
Yes		1	
No		2	

Dimensions / Combinations

