

## Data Sheet

Test valve  
Type **MBV 5000**

Heavy duty marine applications



The pressure test valve, type MBV 5000 is a part of the block concept which has been developed to save space, weight and costs. The test valve is intended for use in many applications, for example monitoring, alarm indication, shut-down, diagnosing on equipment such as motors, gears, thrusters, pumps, filters, compressors etc.

The block valve is designed in many different configurations for use in the marine industry. The valve meets demands for fast installation, simple isolation and easy test pressure connection. In addition to the test valves the block concept consists of block pressure and temperature controls – type MBC, block pressure transmitters – type MBS and accessories.

The test valves meet the strict demands on marine equipment, including EU stipulations on such products.

**Features**

- Compact design
- Many configuration possibilities
- Low installation cost
- Fast and easy to operate
- Aluminum version suitable for liquid media only. Stainless steel version for liquid and air

## Product specification

### Technical data

**Table 1: Performance**

<b>Pressure</b>	Operating pressure	0 – 180 bar 0 – 60 bar <sup>(1)</sup>
	Burst pressure	720 bar 240 bar <sup>(1)</sup>
<b>Temperature</b>	Operating temperature	-20 – 120 °C
	Ambient temperature	-20 – 120 °C
	Temperature of medium	-20 – 120 °C

<sup>(1)</sup> For 061B7055 MBV 5000-2211S only

**Table 2: Mechanical specification**

<b>Material</b>	Housing	AW-6082T6 (AlMgSi1)
	Nipple	AW-6082T6 (AlMgSi1)
	Ball	Stainless steel 1.4404
	Gasket	PEEK/FPM
<b>Material for stainless steel version</b>	Housing	Stainless steel 1.4401
	Nipple	Stainless steel 1.4401
	Ball	Stainless steel 1.4404
	Gasket	PEEK/FPM
<b>Pressure connection</b>	Input	G ¼
	Output	Flange / M5 x 8

### Standard specification and code numbers

**Table 3: Pressure connection: G ¼. Test pressure connection: M16 x 2**

Type no.	Symbol	Type	Output no.	Weight [kg]	Length [mm]	Height [mm]	Width [mm]	Code no.	
MBV5000-1111		1	x1	0.40	36	80	40	061B7000	
MBV5000-1111S		1	x1	0.85	36	80	40	061B7051	
MBV5000-1211		1	x2	0.80	76	80	40	061B7001	
MBV5000-1311		1	x3	1.20	116	80	40	061B7002	
MBV5000-1411		1	x4	1.60	156	80	40	061B7003	
MBV5000-1511		1	x5	2.00	196	80	40	061B7004	
MBV5000-2211			2	x2	0.80	76	80	40	061B7005
MBV5000-2211S			2	x2	2.00	76	80	40	061B7055
MBV5000-2311			2	x3	1.20	116	80	40	061B7006
MBV5000-2411			2	x4	1.60	156	80	40	061B7007
MBV5000-2511	2		x5	2.00	196	80	40	061B7008	
MBV5000-3211			3	x2	0.70	76	80	40	061B7009
MBV5000-3311			3	x3	1.00	116	80	40	061B7010
MBV5000-3411			3	x4	1.30	156	80	40	061B7011
MBV5000-3511			3	x5	1.60	196	80	40	061B7012



Test pressure connection



Shut-off valve

**Code numbers for standard flange → G 1/8 (aluminium) or G 1/4 (stainless steel)**

**Table 4: Aluminium adapters**

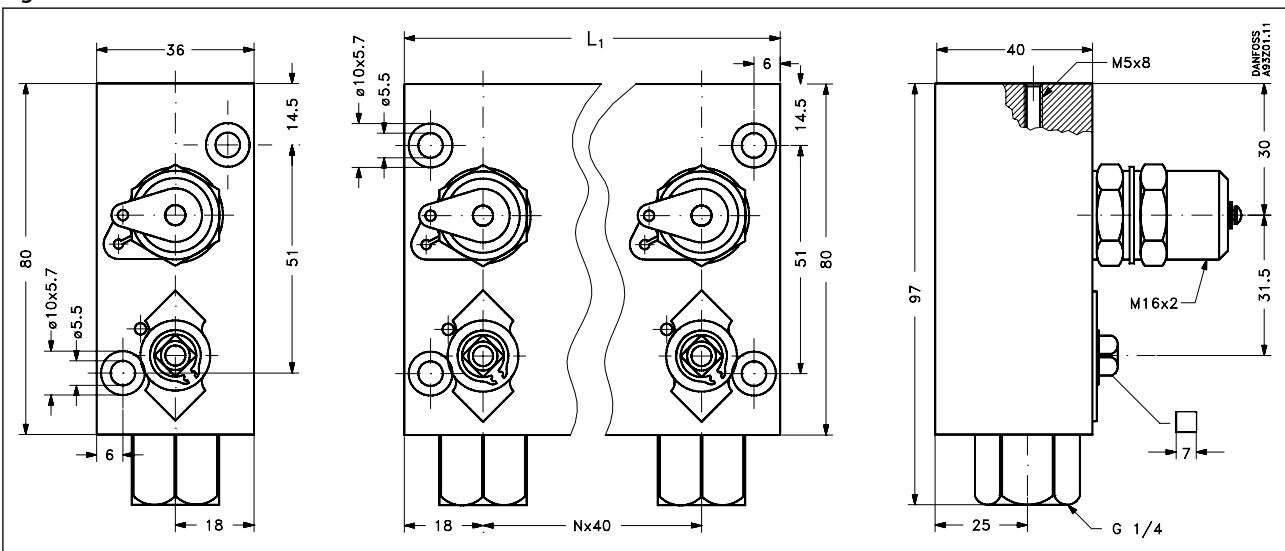
Description	Code no.
Cover	061B720066
Angleway adapter	061B720166
Straightway adapter	061B720266

**Table 5: Stainless steel adapters**

Description	Code no.
Angleway adapter	061B721766
Straightway adapter	061B720866

**Dimensions [mm]**

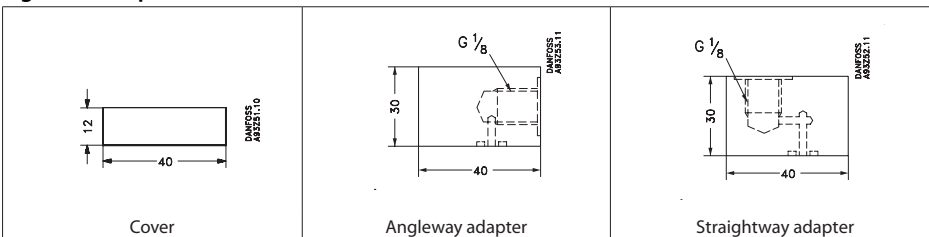
**Figure 1: Test valve**



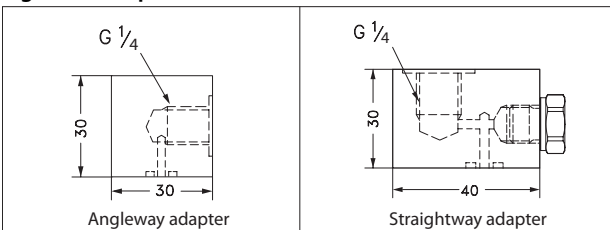
**Table 6: Test valve**

Outputs	1	2	3	4	5
L <sub>1</sub> [mm]	36	76	116	156	196

**Figure 2: Adapters (aluminium version)**



**Figure 3: Adapters (stainless steel version)**



## Ordering

### Ordering special versions

Type no: MBV 5000-	x	x	x	x	x
					— 6082 (AlMgSi1) version S Stainless steel (1.4401) version x Other
<b>Type</b> Separate inputs and separate test functions Common input and separate test functions Common input and common test function Other	1 2 3 x			1 2 x	<b>Pressure connection</b> G 1/4 M10 x 1 Other
<b>Number of outputs (n)</b> 1 Output (only for type 1) 2 Outputs 3 Outputs 4 Outputs 5 Outputs Other		1 2 3 4 5 x	0 1 x		<b>Test pressure connection</b> Hole plug G 1/4 Pressure gauge connection M16 x 2 Other

## 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.

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**Table 7: Declarations and approvals**

File name	Document type	Document topic	Approval authority
EAC RU Д-ДК.БЛ08.В.03644	EAC Declaration	Machinery & Equipment	EAC

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