

SOLENOID VALVE

Series DMH

Cat No DMH - 01 - 02 - B

2/2 Normally Closed, Pilot operated solenoid valve - G1/2

Features

- ☐ Diaphragm operated poppet seat type
- ☐ Wide range of coil voltages
- ☐ Continues duty cycle
- ☐ Good flow characteristics
- ☐ Compact in size



Technical Specifications

Model	DMH	
Type	2/2 NC	
Design	Diaphragm type	
Port Size	Inlet, Outlet - G1/2	
Medium	Water, Hot water, Air	
Working pressure range	0,5 to 7 bar	
Ambient temperature	-10° to +60° C	
Medium Temperature	+5° to +100° C	
Type of pilot control	Internal piloted	
Type of mounting	In-line installation	
Mounting position	Vertical	
Nominal size	mm	13
Standard nominal flow rate @	lts/min	G1/2 - 2500 (Air flow)
Weight	kg	0.76
Materials of construction	Housing - Brass, Seals: FKM Other components: Stainless Steel, Brass, Copper, Polyamide	
Electrical		
Coil width	32 mm	
Voltage (V) ± 10%	AC (50 Hz) - 24, 48, 110, 220	
	DC - 12, 24, 48, 110	
Power consumption	AC - 6W, DC - 8W (12V DC - 9W)	
Duty cycle	Continuous	
Class of insulation	Class H	
Type of coil protection	IP65	

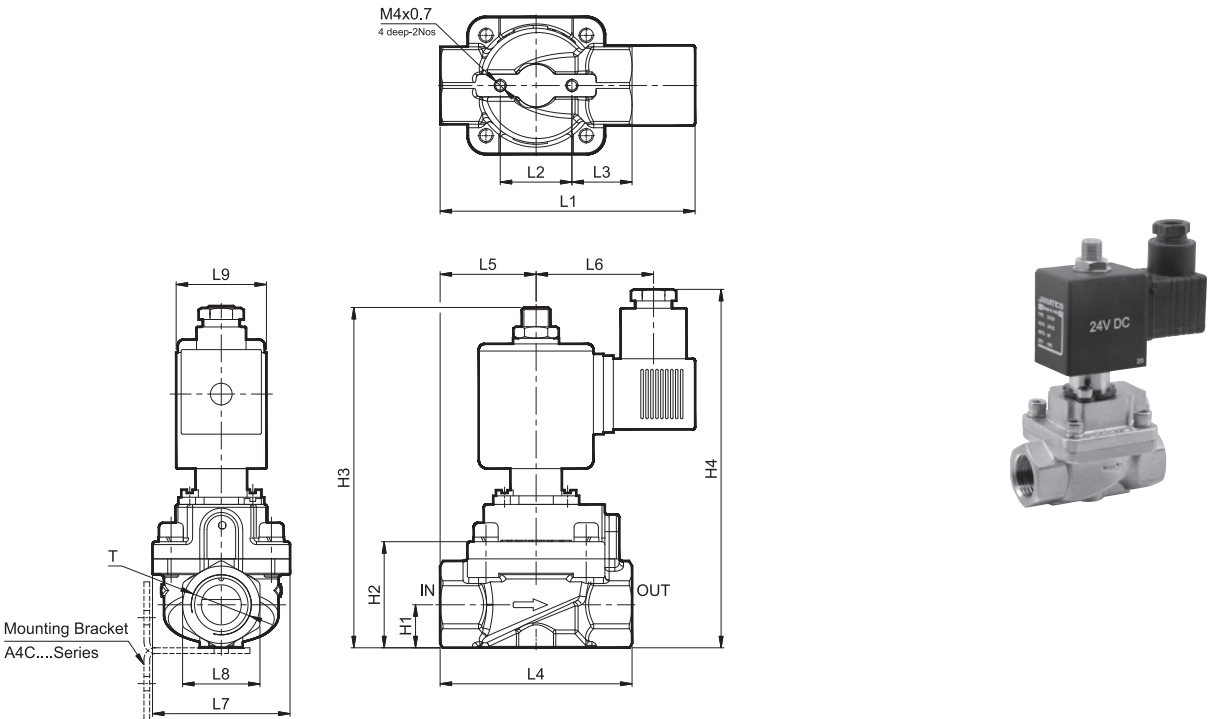
@ Inlet pressure 6 bar, and pressure drop 1 bar

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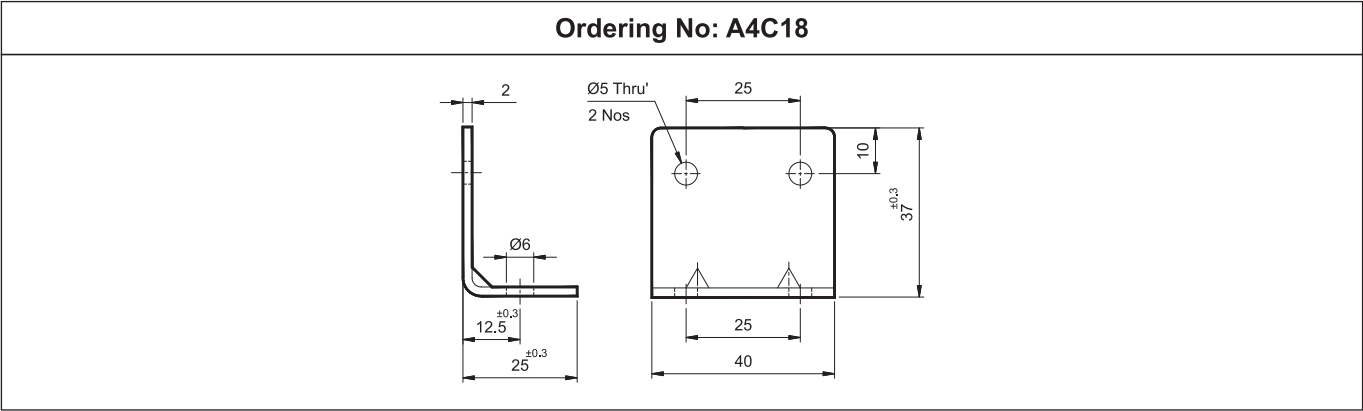
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2/2 NC Pilot Operated - G1/2



Model No	T	L1	L2	L3	L4	L5	L6	L7	L8	L9	H1	H2	H3	H4
DMH527B63	G1/2	89	25	21	67	33.5	41	SQ48	27 A/F	32	15	37	120	125

Mounting bracket



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Caution

Air Supply:

1. Use clean air. Do not use compressed air that contains chemicals, synthetic oils, organic solvents, salt, corrosive gases, etc., as it can cause damage or malfunction.
2. Install air filters close to valves on their upstream side. Filtration of 5µm or less should be selected.
3. Compressed air that contains excessive drainage may cause valve malfunctions. To prevent this, install an air dryer, etc.

Water Supply:

1. Use of a fluid containing foreign objects will lead to sticking of foreign objects to the sliding parts of the armature, which can cause malfunction and seal failure. Install a suitable filter (strainer with 100 mesh) immediately upstream from the valve.
2. Install water softening equipment and a filter (strainer) directly upstream from the valve to remove hard sediment or sludge such as calcium and magnesium, since this sludge can cause the valve to malfunction.

Wiring:

1. Install a surge suppressor in parallel with the solenoid to avoid surges.
2. Use a voltage within $\pm 10\%$ of the rated voltage.

Warning

Water Supply:

1. Rapid pressure fluctuation in the system can lead to effects such as water hammer, etc., which may damage the solenoid valve.
2. Before using any fluid, check for material compatibility.
3. When a brass body is used, depending on the water quality, corrosion and internal leakage may occur.
4. The water pressure for tap water is normally 4 bar or less. For a high-rise building, the pressure may be 7 bar. For tap water, take care of the maximum operating pressure differential.
5. When using water or heated water, poor operation or leaks may be caused by dezincification, erosion, corrosion, etc. For corrosion resistance applications, use stainless steel material products.

Design:

1. This valve cannot be used as an emergency shutoff valve, etc.
2. Check the operating conditions before use. Sudden decrease in inlet pressure and sudden increase in outlet pressure repeatedly, the diaphragm will be damaged, leading to the failure of the valve.
3. Extended periods of keeping the solenoid coil in power ON condition will generate heat when continuously energized. Avoid using it in a tightly shut container. Install it in a ventilated area, and do not touch it while it is being energized.

Selection & Mounting:

1. Unstable flow may cause a valve malfunction under any of the following conditions:
 - Low flow from the pump or compressor.
 - Use of several elbows or tees in the circuit.
 - Thin nozzles installed at the end of the piping.
2. Do not mount the coil downward. If the coil position is downward, dust particles in the fluid will cause the actuator assembly to malfunction.
3. If air or water leakage increases, do not operate the product.
4. At the coil area, do not apply external force.

Maintenance:

1. The valve will reach a high temperature during continuous operation. When removing the product, confirm that the valve temperature has dropped to avoid the danger of being burned.

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Environmental Condition:

- 1. Use these products within the specified ambient temperature range.
- 2. Check the compatibility of materials for the specific ambient atmosphere.
- 3. Check that the product is not in direct contact with corrosive gases, chemicals, seawater, etc.
- 4. Do not use the product in explosive atmospheres.
- 5. Do not use the product near sources of radiated heat.

How to order

DM	H	5	2	7	B	63	—	A					
Seals		Material		Function		NW		Coil type		Port		Voltage	
H	FKM	5	Brass	2	NC	7	13	B	32mm	63	G1/2	A	220V AC
												B	110V AC
												D	48V AC
												G	24V AC
												Q	110V DC
												S	48V DC
												W	24V DC
												R	12V DC

Ordering Example:

The ordering no. for Pilot operated valve G1/2, 2/2 NC, 220V AC, FKM seals with Brass body: **DMH527B63-A**