

Operating Instructions

SOLENOID VALVE BMV62012 with check valve

as CO₂ night shutdown
for aquaristics



Electrical connection

The solenoid valve is supplied ready to plug in with a Schuko plug and approx. 1.60 m PVC cable 3x0.75 mm².

Attention: This product is only approved for indoor use.

The connection may only be made to a well-earthed socket. If in doubt, consult an electrician.

Gas connection

The solenoid valve has been designed for use with carbon dioxide gas. Before using it for other media, consult your supplier. It is not permitted to use the valve for pure oxygen or explosive media such as petrol or propane gas.

A direct connection of the valve to a gas cylinder under overpressure is not permitted. A pressure reducing valve must be installed between the gas cylinder and the solenoid valve. The pressure reducing valve must be adjusted so that a maximum pressure of 2 bar is applied to the solenoid valve.

The solenoid valve is prepared to be connected on the inlet and outlet side (see flow direction arrow on the valve) to plastic hoses with an inner diameter of 4 mm and an outer diameter of 6 mm. To do this, remove the union nuts (cap nuts) on both sides and push them onto the hoses. Then push the hoses onto the hose nipples as far as they will go and secure the hoses against slipping by screwing the union nuts on hand-tight.

It is essential to ensure that the hoses are well secured, otherwise the carbon dioxide gas can escape in a short time. Therefore, make sure that the hoses are not frayed or "worn out" at the connection to the solenoid valve.

Technical data

2/2-way Coaxial Solenoid Valve BMV62012
Normally closed

Nominal diameter: 1.0 mm

Outlet / inlet: quick connector for hoses with
Outer diameter: 6 mm / Inner diameter: 4 mm

Operating voltage: 230 V AC, 50/60 Hz
Rated power: 1.6 W

Max. Switching pressure: 16 bar
Kv value: 0.56 l/min (0.034 m³/h)

Ambient temperature: - 20°C to +80°C

Insulation class: F
Protection class in conjunction with firmly screwed plug: IP 65
Duty cycle ED: 100% (suitable for continuous operation)

Mounting position: any

Solenoid plug with 1.60 m cable and Schuko plug

Materials

Inner elements: stainless steel
Housing / connections: Nickel-plated brass
Seals: EPDM

Other variants on request, e.g. 12 V DC (0.8 W) / without non-return valve / FKM / other operating voltages