Guarantee and Service

The manufacturer is responsible for the solenoid valve properties during 12 months since delivery. In case of any claim it is required to present the solenoid valve, a document about buying (payment receipt) and these Installation, Service and Maintenance Instructions. The guarantee is not approved if the damages are caused by inappropriate impact to the regulator or with not following these Instructions.

Under-and out-of –guarantee repairs can be performed by the manufactures.

Product liquidation

Components and pack can be used as source of secondary raw material.
Product is not source of environmental pollution and doesn't include danger scrap.

INSTALLATION, SERVICE AND MAINTENANCE INSTRUCTION

2-way solenoid valve pilot operated Normally closed (NC)

Type: 2 VE 13 DSB
2 VE 16 DSB
2 VE 25 DSB

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Tel.:+421 51 7480464, 7480465
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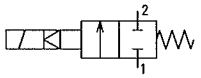
75 0341 03

2-way solenoid valves pilot operated, Normally closed (NC)



Application

Two-way (2/2) solenoid valves pilot operated can be used for flow control of steam and hot water. Valves are closed at the basic position without voltage. After bringing of voltage to the coil the valve is open.

2-way solenoid valves pilot operated - technical data according TP 75 0339/02

Type	Connection	Flow [1] Factor Kv [m³/h]	Operating pressure [MPa] min	Operating pressure [MPa] max.	Voltage / Power consumption	Medium temperature [°C]	Ambient temperature [°C]	Weight [kg]
2VE13DSB	G 1/2	2,5	0,05	0,6	AC / 8,8 VA DC / 4 W	160	-10 ÷ +50	1,3
2VE16DSB	G 3/4	3,1						1,3
2VE25DSB	G 1	7,8						2,0

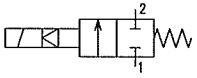
Applied materials

Body, flange..... .....brass
Internal parts .....stainless steel, brass
Seals..... .....PTFE, CSF Sheet Jointing, FPM (Viton)
Coil .....thermal class F according to EN 60085
Degree of protection according to EN 60529....IP 65

Ports

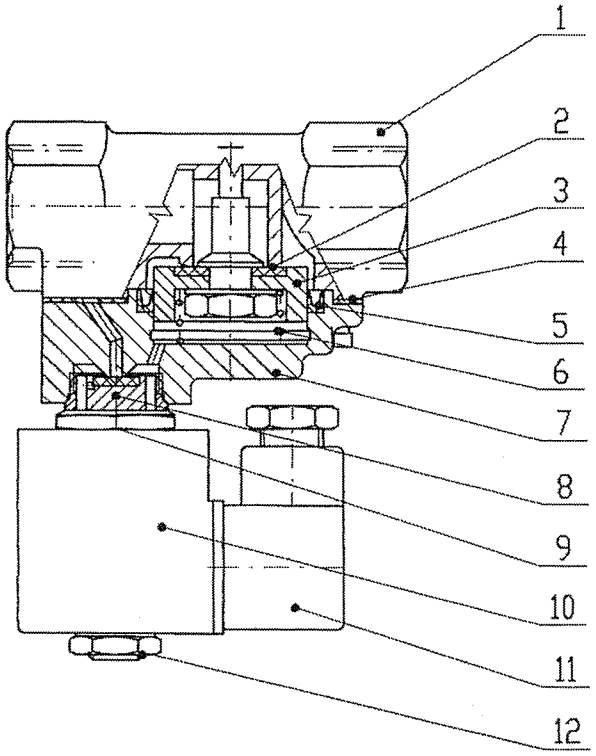
1 - Inlet
2 - Outlet

Valve cut
Type 2VExxDSB



Legend

1 – Body
2 – Seal (PTFE)
3 – Piston
4 – Seal (CSF Sheet Jointing)
5 – Flexible seal (PTFE)
6 – Spring
7 – Flange
8 – Core
9 – Armature guide
10 – Coil
11 – Connector
12 – Nut



Operation description

Valve consists of body (1), flange (7) and solenoid. Valve body has two necks with internal thread for connection to pipeline. There is a piston (3) inside of body and flange which close medium flow passing through. Solenoid consists of coil (10), armature guide (9) and core with seal (8).
At the basic position without voltage on coil, medium is flowing through the inlet neck and the hole in piston to the space above the piston and core of solenoid pressing piston on the seat in body.
Valve is closed. After voltage bringing, core is opening auxiliary hole which connects space over the piston with outlet neck. Pressure over the piston is lower than pressure below the piston. Differential pressure caused opening of the valve, medium is flowing through the valve.

Installation

Clean thoroughly pipeline system before valve installing. Dirt causes malfunction. Necessary fit filter with 0, 2 mm filtration softness of valve inlet. The valve will not open or close if the control ducts or the armature are blocked by dirt. Electromagnet may not be used to capture the torque when fitting into the pipe.

Operating position of valves is mounting with coil upright under the body valves to horizontal pipeline !!!!!!!!

Controlled medium has to flow through in direction of arrow as marked on the body. Valve is running correctly only in marked flow direction.

Electrical connection

Connect the coil in accordance with National electrical Engineering Standards. Before coil connection check electric data on coil and mains voltage. Voltage is connected to terminals marked on terminal board. Protective conductor must by safely connected to protective terminal, which is marked on the terminal board. The electrical cable must by effectively sealed in a plug. Electric connector plug provides protection for coil IP 65.
Coil is mounted to valve rotated in 360°. The plug can be positioned on the coil by 4 x 90 °.

Voltage can be connected to the coil only when assembled on the valve, the coil for alternating power can be damaged during connection, if is not slipped on the core guide !!!!!

Instruction for operation

Operating conditions should correspond with valve technical data. Temperature and medium type should correspond with seals and material of valve. By valve running is it necessary to check function rightness, seals and joints tightness.

For proper function of valves there is differential pressure between input and output of valve required !!!!!!!

Valves are designed for use in closed rooms (buildings) where is not the action of atmospheric precipitation, solar radiation and moisture condensation.

Maintenance

Maintenance is necessary in case of valve failure only (no function rightness, no tightness). Preventive maintenance is advised in case of worse operating conditions, often initializing of valve or by medium pollution.
Maintenance work must be carried out only by the absence of pressure in the pipeline and with solenoid disconnected from the voltage supply.
After valve repair or replacing test the valve with 1,5 multiple of maximum operating pressure. Valve should be not initializing by testing, valve could be opened or closed by testing.
Upon request, manufacturer is able to supply some kinds of spare parts and brochures with sectional drawing and assembly instructions. By coil ordering is it necessary to set number and kind of voltage (AC or DC).