





Servo-assisted 2/2-way diaphragm valve

- Servo-assisted diaphragm valve with an orifice up to DN50
- Fix-coupled diaphragm opens without differential pressure
- Vibration-proof, block screwed coil system
- Energy-saving power reduction for all DC variants



Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type 2518 Cable Plug DIN EN 175301-803 - Form A	▶
	Type 1087 Timer	▶

Type description

Valve 0290 is a servo-assisted diaphragm valve of the S.EV series. The valve opens without differential pressure. The opening process is facilitated by the fix coupling of the diaphragm to the magnetic core. The integrated 'soft-kick' function ensures gentle opening. Depending on the actual applications, there are various diaphragm materials available. The range of bodies additionally includes stainless steel variants. The solenoid coils are encapsulated with a chemically resistant epoxy. 'Kick and drop' electronics are moulded into the coil of all DC variants to reduce electrical power consumption. In combination with a plug to DIN EN 175301-803 Form A, the valves satisfy protection class IP65 – and NEMA 4X when combined with a stainless steel body.

1. General technical data

Product characteristics	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 5.
Nominal size	
Standard version	DN12 ... DN50
With approval according to DIN EN 161	DN12 ... DN25
Materials	
Body	Brass, stainless steel 1.4581
Coil	Epoxide
Inner valve parts	Brass, stainless steel
Seal	NBR, FKM, EPDM
Thermal insulation class coil	H
Performance data	
Response times^{1.)}	
DN12...DN25	Opening: 100...250 ms Closing: 700...2000 ms
DN32...DN65	Opening: 100...250 ms Closing: 700...2000 ms
DN12...DN25 with approval according to DIN EN 161	Opening: 120...150 ms Closing: 130...250 ms
Pressure data [bar]	Overpressure to the atmospheric pressure
Electrical data	
Voltage	024/50, 024/DC, 024/UC, 110/50, 230/50
Voltage tolerance	± 10 %
Nominal operating mode	Continuous operation 100 % duty cycle (unless otherwise specified on the type plate)
Electrical connection	Cable plug according to DIN EN 175 301 - 803 Form A
Protection class	IP65 with cable plug
Medium data	
Medium	
NBR	Neutral media, compressed air, water, hydraulic oil, oils without additives
FKM	Per solutions, hot oils with additives
EPDM	Oil and grease-free media, e.g. hot water
NBR with approval according to DIN EN 161	Fuel gases of the 1st, 2nd and 3rd gas family
Medium temperature^{2.)}	
NBR	- 10 °C... + 80 °C
FKM	0 °C... + 120 °C
EPDM	- 30 °C... + 120 °C
NBR with approval according to DIN EN 161	0 °C... + 80 °C
Environment and installation	
Ambient temperature	
Standard version	Max. +55 °C
With approval according to DIN EN 161	0 °C to +55 °C
Installation position	Any, preferably actuator face up
Approvals and certificates	
with approval according to DIN EN 161 (optional)	

1.) Measured with water at the valve outlet at 6 bar and + 20 °C. Öffnen: Druckaufbau 0...90 %, Schließen: Druckabbau 100...10 %

2.) Max. medium temperature for variants with high-performance electronics (encryption .../UC) is 90 °C.