





Servo-assisted 2/2 way diaphragm valve

- Servo-assisted diaphragm with diameter of up to DN40
- Spring coupled diaphragm opens without differential pressure
- Damped design for quiet closing
- Compact construction with high flow rate
- Energy-saving double coil technology with kick and drop design

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 2513 Cable plug acc. to DIN EN 175301 - 803 Form A	▶
	Type 1087 Timer	▶

Type description

The 6213 EV valve is a servo-assisted solenoid valve of the S.EV series. The spring coupling of the diaphragm supports the opening process of the valve. In its standard version, the valve is suitable for use in liquids. A minimum differential pressure is required for complete opening. A special version (HP00) which opens the valve without differential pressure is available for gas and vacuum applications. Various diaphragm material combinations are available depending on the application. The standard brass housing satisfies all European drinking water requirements. Dezincification-resistant brass is available for other markets. The housing offering is rounded off with a stainless steel version. To reduce power consumption in operation, coils with "Kick and Drop" (KD) electronics (double coil technology) are available. In combination with a plug in accordance with DIN EN 175301-803 Form A, the valves satisfy protection class IP65 – in combination with a stainless steel housing NEMA 4X.

1. General technical data

Product properties

Materials

Body	Brass acc. to DIN EN 50930-6 Stainless steel 1.4408 Gunmetal (external thread) DN10...DN20
Coil	Polyamide, epoxy (insulation class H)
Seal	NBR, FKM, EPDM
Inner part of valve	Brass body: Brass, stainless steel and PPS Stainless steel body: Stainless steel and PPS Gunmetal body: Stainless steel and PPS (external thread) DN10...DN20
Orifice	Standard: DN10...DN40 HP00: DN13...DN20

Electrical data

Voltage tolerance	± 10 %
Voltages	Standard: 024/DC, 024/50, 230/50, 110/50, 120/60 HP00: 24 V (50...60 Hz), 230 V (50...60 Hz)

Performance data

Duty cycle	100 % continuous rating; KD coil; max. rating 6 circuit switches/minute
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Response times^{1.)} AC / DC

DN10...DN13	Opening: 10...100 ms Closing: 100...200 ms
DN20	Opening: 200...300 ms Closing: 400...700 ms
DN25...DN40	Opening: 300...400 ms Closing: 800...1400 ms

Power consumption	Depending on orifice and coil size For detailed information, see "5. Performance specifications" on page 9
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Medium data

Medium

NBR	Neutral fluids, water, hydraulic oil, oil without additives
FKM	Per-solutions, hot oils with additives
EPDM	Oil and fat-free fluids and gases

Medium temperature

NBR	-10 °C... +80 °C
FKM	0 °C... +90 °C with polyamide coil 0 °C... +120 °C with epoxy coil
EPDM	-30 °C... +90 °C with polyamide coil -30 °C... +100 °C with epoxy coil

Viscosity	Max. 21 mm²/s
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Approvals and certificates

Protection class	IP65 with cable plug and cable connection IP65 with terminal box (further versions on request)
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Product connections

Electrical connection	Tag connector acc. to DIN EN 175 301 - 803 Form A (see "6.4. Ordering chart accessories" on page 14)
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Environment and installation

Installation	As required, preferably with actuator upright
Ambient temperature	Max. +55 °C

1.) Measurement with water at valve outlet 6 bar and +20 °C. Opening: Pressure build-up 0 to 90 %, Closing: Pressure drop 100 to 10