

**MEDIA SEPARATED
SOLENOID VALVES
SERIES KDV**



HIGH CHEMICAL RESISTANCE IN CONTACT WITH FLUIDS

The media-separating solenoid valves Series KDV are designed to control critical fluids such as aggressive, high-purity or temperature-sensitive fluids. To prevent the controlled fluid from interacting with the internal mechanical part of the valve, the orifices are opened or closed using a separating diaphragm, driven by an actuator.



In addition to protecting the controlled fluid from contamination or excessive temperature fluctuations, the diaphragm protects the actuator system from any possible corrosion caused by aggressive fluids.

Furthermore, the overall dimensions and reduced footprint allow easy and quick integration with manifold or subbase systems within small equipment as well as portable devices.

Its compact design, light weight and low power consumption make the Series KDV the ideal solution for Life Science applications, such as mass spectrometry, liquid and gas chromatography and molecular analysis.

BENEFITS



Suitable for aggressive, high-purity or temperature-sensitive fluids



Compact design and light weight for portable devices



Easy and quick assembly



High reliability



Energy efficient

Sectors and applications



General data

TECHNICAL FEATURES

Function	2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI
Operation	direct acting with fluid separation membrane
Pneumatic connections	flanged for subbase or manifold
Orifice diameter	0.8 ... 1.3 mm
Flow coefficient kv (l/min)	0.2 ... 0.4
Operating pressure	-0.95 ... 2.0 bar
Operating temperature	0 ÷ 50 °C (FKM/EPDM) / 10 ÷ 50 °C (FFKM)
Media	inert or corrosive liquids and gases compatible with the materials in contact
Response time	ON ≤ 20 ms - OFF ≤ 20 ms
Installation	In any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PEEK
Seals	FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage	6 ... 24 V DC - other voltages on demand
Voltage tolerance	±5%
Power consumption	4/1 W
Duty cycle	ED 100%
Electrical connection	connector mod. 121-8... - 300 mm flying leads
IP protection class	IP40 with connector

Contacts

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