MEDIA-SEPARATED SOLENOID VALVE

For controlling a wide variety of media - especially aggressive liquids or gases - used in devices or systems for the medical, laboratory, food & beverage as well as pharmaceutical industry

Valve solutions from RAPA have been used worldwide for many years - in a wide variety of industries and by leading companies. The media-separated solenoid valve Type DV128 has been specially designed for use with aggressive liquids or gases, such as rinsing-, cleaning- or buffer solutions, as well as for other products used in analytic and medical systems. This versatility opens up a great range of applications.

Media-separated solenoid valves enable the metering of media where either freedom from contamination or high chemical resistance is required. They are indispensable for the processing and control of critical media in the secondary industry, they are therefore a central component in the control of fluids in process plants. The DV128 media-separated solenoid valve is highly reliable and delivers fast and precise switching times with a long service life of over 1.5 million operations. Media separation is achieved by a rubber bellows that safely separates the medium from the solenoid part of the valve. This is essential, especially for aggressive liquids such as cleaning solutions. Due to the small valve chamber and a special design, the DV128 can be used in a frost-proof manner for industrial refrigeration technology or other low temperature applications. The wetted parts, such as bellows and valve body, are resistant to aggressive media. Ideally, the valve is controlled by pulse width modulation (PWM). The 2/2-way solenoid valve DV128 opens up great application potential in the following industries: Medical technology, biotechnology, chemistry, food & beverage, pharmaceutics, cosmetics, gas and cleaning systems, refrigeration technology (cooling systems) as well as in the perfume and aroma industry.

Single Valve Type DV128

Block Design

TECHNICAL DATA

Type	*2/2 way solenoid valve**
Construction	*media-separated*
Function	*2/2 NC*
Mounting position	*variable*
Medium	*Gases, air, water, antifreeze fluid, neutral and aggressive liquids*
Nominal width	*normally 2,5 mm*
Hydraulic connection	*Hose barb, flange gasket*
Electric connection	*preferably by plug*
Operation voltage	*typically 12 VDC*
Pressure range	*typically 1 to 6 bar relativ*
Switching time	*< 50 ms*
Environmental temperature	*-40 °C to + 80 °C*
Frost resistance	*> 5000 cycles (100% water filled)*
Protection class	*IP6k9k ISO 20653 (only in block design)*
Size	*approx. 77 mm H x 97 mm W x 33 mm D (dual valve block)*

* Status of development: Engineer-to-Order | Configure-to-Order | Make-to-Order; customer specific requirements are conceivable.

All information is without guarantee. Misprints, errors and technical changes are reserved.

CHARACTERISTICS & ADVANTAGES

- Media-separated
- Compact construction
- High lifetime
- Use of different media
- Micro-leakage internal and external
- Secure function and tightness in both flow directions and in the entire pressure range

CUSTOMIZED SOLUTIONS

- Frost-resistant variant available
- Special variant for dialysis device
- Single valve / block design with socketing
- Hydraulic and electric interfaces
- Pressure and power supply, PWM-control additional customizations conceivable

SPECIFIC INDUSTRIES

Medical and Laboratory technology | Biotechnology | Chemistry | Food & Beverage | Pharmaceutical Cleaning Systems | Refrigeration Industry | Perfume and Aroma Industry