Direct-acting 2/2 or 3/2-way solenoid valve

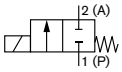
- Direct-acting, media-separated valve up to DN 25
- Vibration resistant, block mounted coil system
- Energy saving power reduction for DC versions
- High safety due to electrical position feedback
- Robust, service friendly manual override

DTS 1000010907 EN Version: E Status: RL (released | freigegeben | validé) printed: 06.04.2018

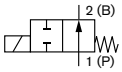
The valve operates according to the lever principle and can therefore switch big orifices directly. Available in 2/2-way version as well as a 3/2-way valve. The armature works horizontally on a tightly coupled toggle. The cylinder seal, located at the lower lever, is pressed by the horizontal movement of the valve seat. The plastic-coated metal lever forms a unit with the implemented gas-tight membrane. With this construction the actuator is disconnected from the media fluid housing.

Circuit functions

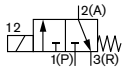
A 2/2 way direct-acting solenoid valve, normally closed



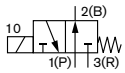
B 2/2 way direct-acting solenoid valve, normally open



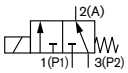
C 3/2 way direct-acting solenoid valve, normally closed



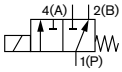
D 3/2 way direct-acting solenoid valve, normally open



E 3/2 way mixing solenoid valve



F 3/2 way direct-acting, distribution solenoid valve



Technical data	
Body material	PVC, PVDF, brass
Seal material	NBR, EPDM, FKM
Medium	Aggressive and non-aggressive fluids, neutral gases, aggressive gases according to their diffusion properties
Medium temperature (Body + Seal)	PVC / EPDM -10 to +50 °C PVC / FKM -10 to +50 °C Brass / EPDM -30 to +130 °C * Brass / FKM -10 to +130 °C * Brass / NBR -10 to +90 °C PVDF / FKM -10 to +70 °C PVDF / EPDM -10 to +70 °C
Ambient temperature	Max. +50 °C
Viscosity	37 mm²/s
Operating voltage	24 V / UC, 230 V / UC, 24 V / 50 Hz, 230 V / 50 Hz
Voltage tolerance	±10 %
Cycling rate	60/min at AC Max. 6/min at UC
Duty cycle	100%
Electrical connection	Cable plug (supplied as standard)
Protection class	IP65 with cable plug
Installation	As required, preferably with actuator upright

* High performance version, AC/DC max. +90 °C

Response times [ms]:	Measured at valve outlet at 6 bar and +20°C.
Opening (10 t0 20)	Pressure rise 0 to 90%,
Closing (40 to 60)	Pressure relief 100 to 10%

Electrical power consumption			
Inrush		**Hold**	
AC [VA]	**UC [W]**	**AC [VA/W]**	**UC [W]**
100-120	100	48/16	9

Flow rate: Kv value water [m³/h]
Measured at +20 °C, 1 bar pressure at valve inlet and free outlet

Pressure values [bar]
Overpressure with respect to atmospheric pressure