

MICRO SOLENOID VALVE 2 ways - NC (Normally closed) Direct acting

M5





► GENERAL FEATURES

Direct acting micro solenoid valve. Minimum overall dimensions. Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with materials in contact).

The flow rate is proportional to the input electric signal.

The proportional response feature (flow rate/electric signal) can be calibrated by the customer so to match several applications. Overleaf the charts show the features of standard valves calibrated at the factory as example of the possible operating conditions.

► CALIBRATION

The flow calibration has to be carried out as if the valve was in operation:

- inlet fluid pressure at the selected constant value
- operating simulator at the outlet

- energizing the valve with the chosen electric signal. Adjust the calibration screw till the desired flow is achieved.

De-energize the coil and check the valve tightness (1). Rectify the calibration if necessary and check the flow rate again. Once the valve is calibrated seal the calibration screw by using any suitable sealant.

(We recommend the use of 3M Scoth-Weld [™] DP 190).

WARNING: the calibration screw does not guarantee the tightness, Therefore, during the calibration there will be a weak leakage; don't calibrate the valve while using toxic fluids.

► TECHNICAL FEATURES

Maximum allowable pressure (PS) 16 bar Fluid temperature -10°C +90°C Max viscosity 3°E (22 cStokes or mm²/s)

▶ MATERIALS IN CONTACT WITH FLUID

Body	Brass
Sealing	NBR
Internal components	Stainless steel
Seat	Brass
Core tube	Stainless steel

► COIL

ED100% (see note "A" overleaf)				
PA (Polyamide) fiberglass reinforced				
F (155°C)				
-10°C / +60°C				
DIN 46340				
IP 65 (EN 60529) with micro plug connector				
12 - 24V				

[Port size	Orifice	Inlet differential pressure (bar)	Kv (m³/h)	Series et type		Power absorption					
15	ISO-UNI	size			Valve	Coil	AC (VA)		DC	Sealings	Notes	(ka)
	4534	4534 (mm)					Inrush	Holding	(W)			(9)
	ME	1.4	0,5 ÷ 5	V164P00	ZE30A			4	NDD		0.040	
	CIVI	1,0	0,2 ÷ 3	0,04	J4 V104D90	ZE30C	-	-	2,5	INDR	-	0,000

► NOTE

- These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar. - Seal: NBR = Nitrile-butylene elastomer

- Factory calibrated versions are available, ask for the relative data sheet

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(1) The maximum sealing pressure at de-energized coil changes in relation with the calibration.



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► INSTALLATION

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.

►NOTA "A"

It is necessary to keep the current circulating in the coil constant, so as to maintain the solenoid valve in any pre-determined position. In case the solenoid valve is energised by voltage variation, it has to be considered that the resistance of winding increases because of the continued energizing and consequently the power decreases. Therefore, it is necessary to compensate such power decrease by increasing the voltage to re-establish the initial current value.



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