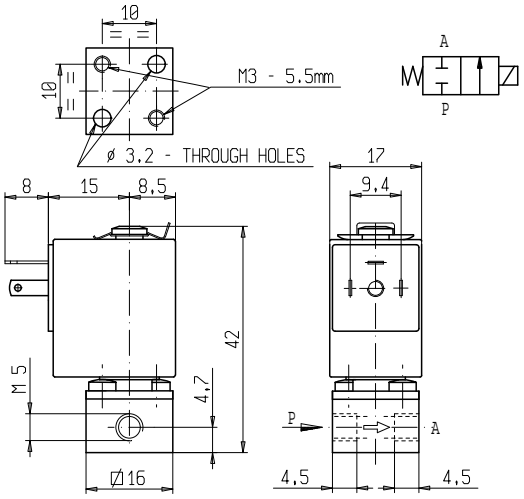
MICRO SOLENOID VALVE
2/2 - NC (Normally closed)
Direct acting
M5

V165



► GENERAL FEATURES

Direct acting micro solenoid valve; minimum overall dimensions.
Quick response time and high number of cycles.
Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with materials in contact).

► TECHNICAL FEATURES

Maximum allowable pressure (PS)	16 bar
Opening time	from ~5ms to ~10ms
Closing time	from ~5ms to ~10ms
Fluid temperature	0°C +130°C (FPM)
	0°C +140°C (FFPM)
	-10°C +90°C (HNBR)
Max viscosity	3°E (~22 cStokes or mm²/s)

► MATERIALS IN CONTACT WITH FLUID

Body	Brass (see notes)
Sealing	FPM or FFPM or HNBR
Internal components	Stainless steel
Seat	Brass
Guide assembly	Brass
Shading ring	Copper
(only for V165V02)	

► COIL

Continuous duty		ED 100%
Encapsulation material		PET (polyethylene terephtalate) fiberglass reinforced
Coil insulation class		F (155°C)
Ambient temperature		-10°C +60°C
Electric connections		DIN 46340 - 3 micro-poles connectors
Protection degree		IP 65 (EN 60529) with plug micro-connector
Voltages	*DC*	12-24V (+10% -5%)
	AC	24V/50Hz (+10% -15%)
		(Other voltages and frequencies on request.- AC: max 24V)

Port size ISO-UNI 4534	Orifice size (mm)	Differential pressure (bar)					Kv (m³/h)	Series and type		Power absorption			Sealings	Notes	Weight (kg)
		Δp min	Δp max												
			Gases		Liquids			Valve	Coil	AC. (VA)		DC. (W)			
			AC	DC	AC	DC				Inrush	Holding				
M5	1,1	0	-	0,5	-	0,5	0,04	V165V03	Z031L	-	-	0,5	FPM	-	0,060
			14	10	14	10		V165V02	Z031C	4	3	2,5		1	
			-		-			V165V04		-	-			-	
				14		14		V165V01	Z031A			4	HNBR	2	
	2		8	4	8	4	0,10	V165V02	Z031C	6	5		FPM	-	
			5	1,5	5	1,5				4	3	2,5			
			-	4	-	4		V165V01	Z031A	-	-	4	FFPM	1 - 3	
								V165Z08						1 - 3 - 4	
								V165Z15							

► NOTES

- These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrusting residues or similar.
- Seal: FPM = Fluoro-carbon elastomer FFPM = Perfluorate elastomer HNBR = Hydrogenated nitrile-butylene elastomer

1 - Solenoid valves with body, guide assembly and bonnet in chemically nickel plated brass (Ni-P).
2 - Particularly suitable to shut off refrigerating fluids (version available on request)
3 - OR guide assembly and OR body in FFPM
4 - FFPM complying with FDA standards; particularly suitable for applications in the food and pharmaceutical sector (version available on request).

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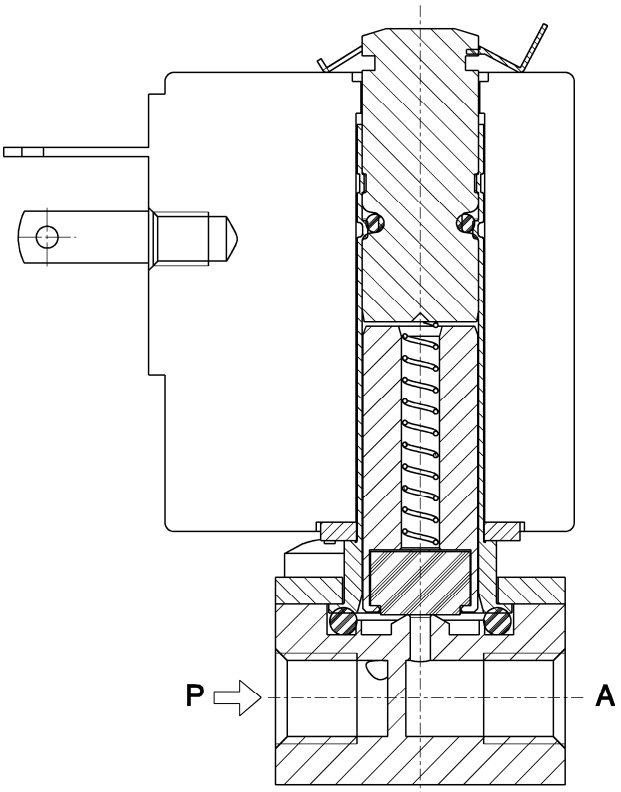
►SPARE PARTS



► MOUNTING

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