

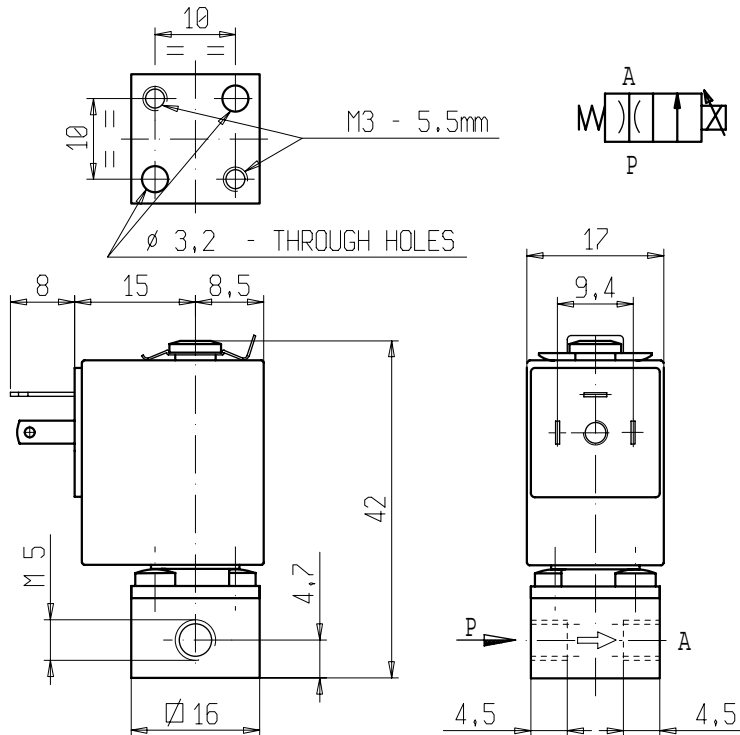


MICRO SOLENOID VALVE
2 ways - NC (Normally closed)
 Direct acting
M5

V164B05

PROPORTIONAL

FLOW CONTROL



► **GENERAL FEATURES**

Direct acting micro solenoid valve with by-pass hole; minimum overall dimensions.
 The flow rate is proportional to the input electric signal.
 The chart overleaf shows an example curve of flow rate / electric signal at 3,5 bar inlet pressure.
 Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with materials in contact).
 Not suitable for use with dangerous fluids listed in Group 1, therefore they are free from CE marking in conformity with article 3 § 3 of the European Directive 97/23/EC (Pressure Equipment Directive).

► **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 Laiton
 Sealing NBR
 Internal components Stainless steel
 Seat Brass
 Core tube Brass with chemical nickel coating (Ni-P)

► **COIL**

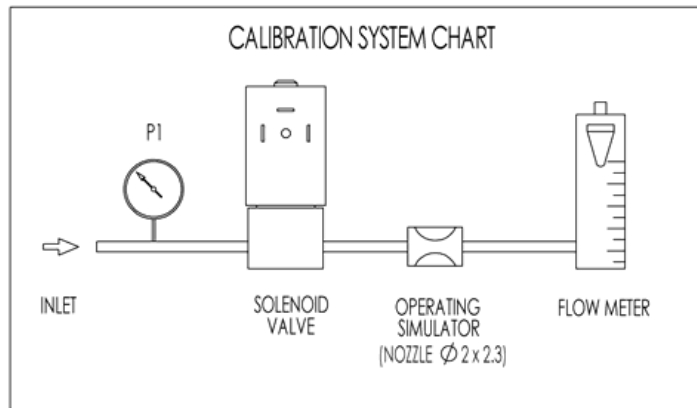
Continuous duty ED 100% (see note "A" overleaf)
 Coil impregnation Polyester resin
 Encapsulation material PET (polyethylene terephthalate) fiberglass reinforced
 Insulation class F (155 °C)
 Ambient temperature -10 °C +60 °C
 Electric connections DIN 46340- 3 poles micro plug connectors (DIN 43650)
 Protection degree IP 65 (EN 60529) with micro plug connector
 Voltages DC 12 - 24V

NON STANDARD

Port size ISO-UNI 4534	Orifice size (mm)	Inlet differential pressure (bar)		Kv (m ³ /h)	Series et type		Power absorption			Sealings	Notes	Weight (kg)
		Min	Max		Valve	Coil	AC (VA)		DC (W)			
							Inrush	Holding				
M5	1,6	0	5	0,06	V164B05	Z031A	-	-	4	NBR	-	0,060

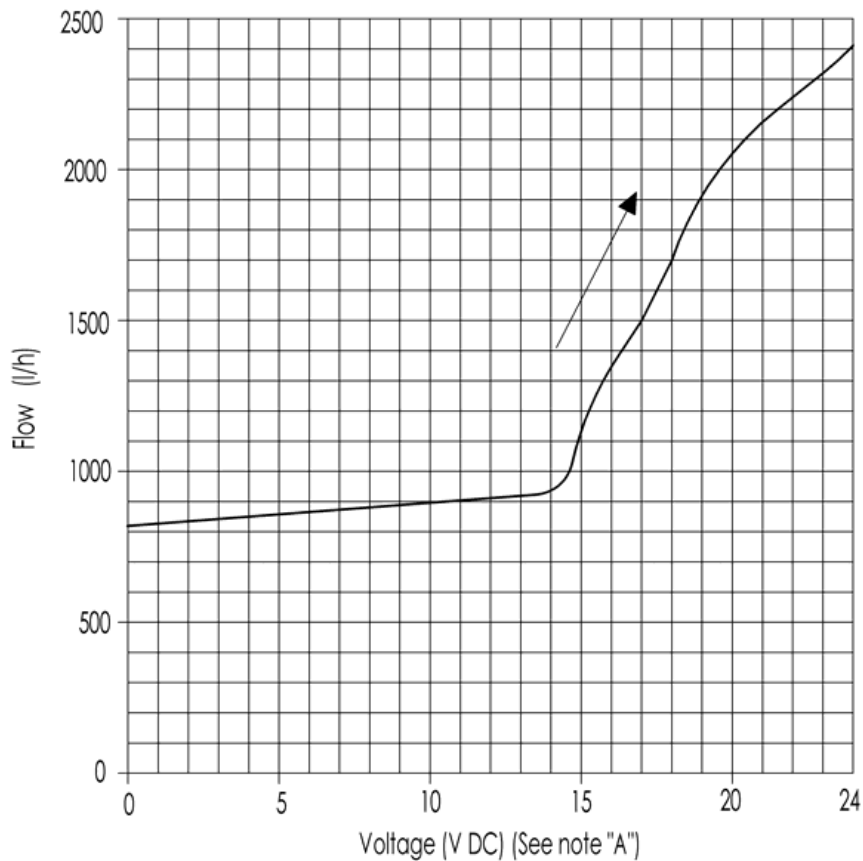
► **NOTES**

- These micro-solenoid valves are not suitable for stagnating media subject to vaporization which deposit solid, calcareous, incrustant residues or similar.
- Seal: NBR = Nitrile butylene elastomer
- Contact us for different pressure ratings and different proportionality features (flow rate / electric signal).



V164B05 - Z031A (orifice size 1.6 mm)

CHARACTERISTIC CURVE AT INLET PRESSURE = 3.5 bar (dehumidified and non-lubricated air)



► 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 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 so to re-establish the initial current value.