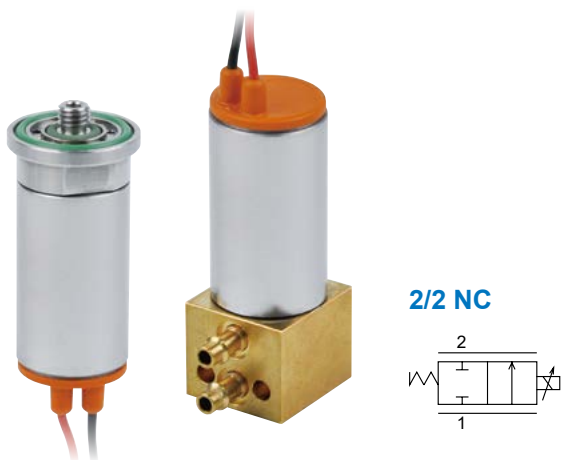
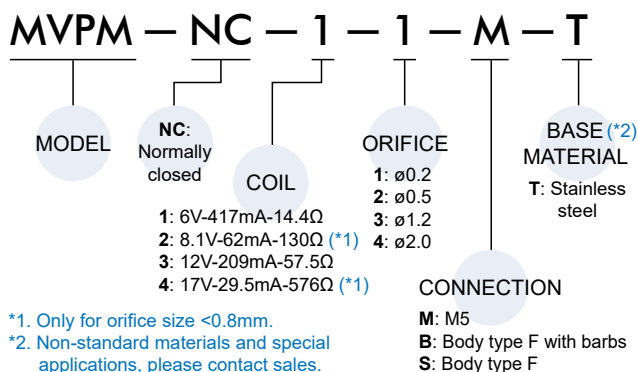




Order example

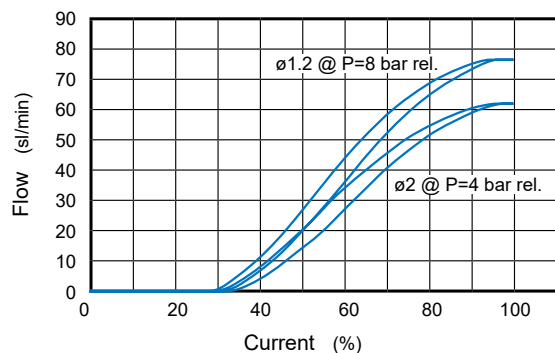
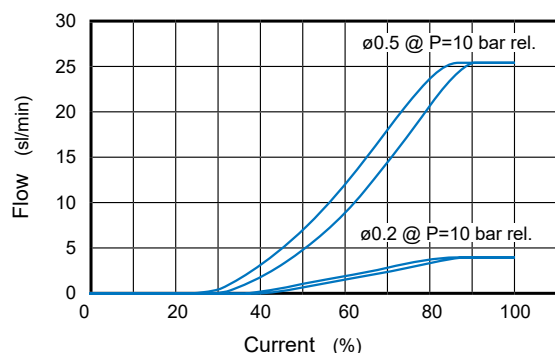


*1. Only for orifice size <0.8mm.

*2. Non-standard materials and special applications, please contact sales.

Flow rate characteristics

Don't use as reference.



Feature

- Direct acting orifice size from ø0.2 to 2 mm.
- Pressure up to 12 bar.
- Suited for dosing precisely gases in the medical and in the analytical field.

Application Industry

- Gas analysis, Chromatography,
- Biotechnology: bioreactors, instrumentation
- Semiconductor facility
- Liquid flow: mainly instrumentation, dental equipment, coffee machines, blood analyser.

Specification

Model		MVPM			
Type of acting		Direct acting			
Nb of ways / function		2/2 NC - Proportional			
Type of pneumatical connection		M5, Body type F, Body type F with barbs			
Orifice size	(mm)	ø0.2	ø0.5	ø1.2	ø2
Flow @ 20°C	(sl/min)	≥ 3.8	≥ 23	≥ 70	≥ 56
Power	(W)	0.5		2.5	
Materials in contact with media	Operator	Stainless steel			
	Subbase	Stainless steel			
	Seal	FPM			
Mounting orientation		Indifferent			
Media		Air, oxygen, neutral gases			
Pressure range @port 1	(bar rel.)	0~12		0~8	0~4
Internal leakage @ 20°C	(ml/min)	≤ 1 @ 0 ~ 12 bar rel.		≤1@ 0 ~ 8 bar rel.	≤1@ 0 ~ 4 bar rel.
External leakage @ 20°C	(ml/min)	≤ 1 @ 12 bar rel.		≤1@ 8 bar rel.	≤1@ 4 bar rel.
temperature	Storage (°C)	-20~+70			
	Media (°C)	5~+50			
	Ambient (°C)	5~+50			
Protection (DIN 40050)		IP51			
Duty cycle		100% ED			
Filter of front end	(µm)	5		20 recommended (not included)	
Weight	(g)	60 ± 15 (depends on type of body)			

Coil specification

Nominal voltage @ 20°C (*1) (V)	17	12	8.1	6
Maximum voltage (*2) (V)	20.4	18	9.72	9
Nominal current ±3% (mA)	29.5	209	62	417
Nominal power @ 20°C (*3) (W)	0.5	2.5	0.5	2.5
Nominal resistance ± 3% @ 20°C (Ω)	576	57.5	130	14.4
Electrical insulation (V AC)	500			
Maximum coil temperature (°C)	< 120			
Electrical connection	300mm AWG 26 Flying leads			
Recommended supply voltage (*4) (V)	24		12	

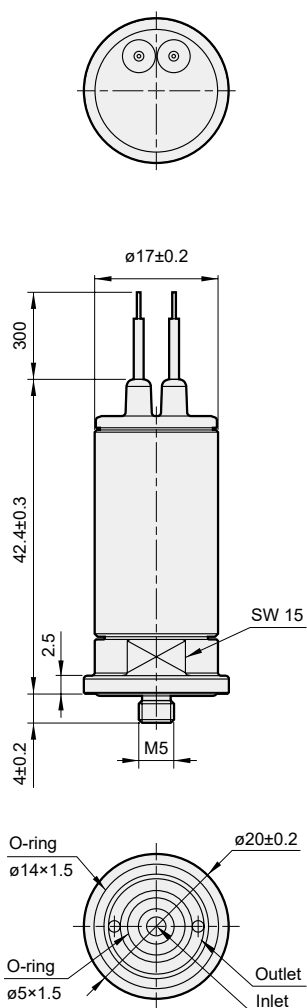
*1. Operating voltage (Nominal power = nominal voltage × nominal current)

*2. When power is continuously supplied, resistance may increase and current may decrease, potentially resulting in insufficient flow. To address this, the operating voltage may need to be increased. However, to prevent coil burnout, the operating voltage must not exceed the maximum voltage. It is recommended to use current control instead of voltage control. The advantage of current control is that it maintains the current within the rated range even when resistance increases due to continuous power supply, ensuring stable product performance.

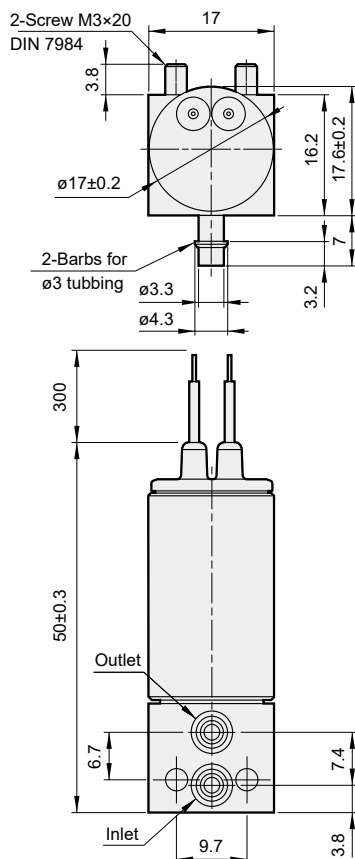
*3. The reduced power (0.5W) only concerns holes <0.8mm.

*4. To meet the requirements of maximum voltage usage, the power supply voltage specification should exceed the maximum voltage. Do not directly connect the power supply voltage to the product, as this may result in coil burnout.

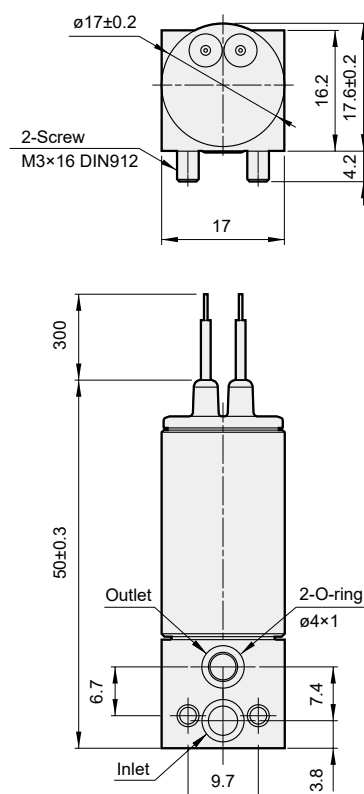
M5



MVPM-* -B Body type F
with barbs

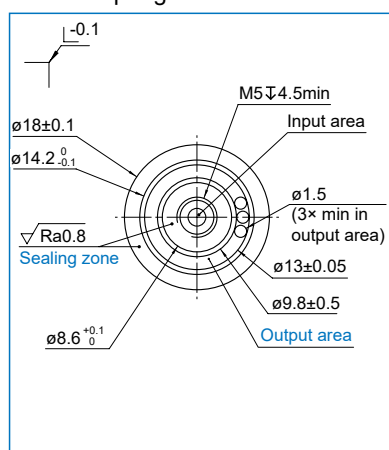


MVPM-* -S Body type F



M5

Valve footpring



Body type F with barbs

Valve footpring

