

### Order example

**MVPH – NC – 1 – S – P**

MODEL      NC: Normally closed      COIL      CONNECTION      BASE (\*) MATERIAL

C: Cartridge      S: Subbase type F      P: PEEK

1: 6V-417mA-14.4Ω  
2: 12V-209mA-57.5Ω

\* Non-standard materials and special applications, please contact sales.  
\* Only for (S) subbase type F.

### Feature

- High-flow pressure compensated proportional valve designed primarily for mixing and dosing of gases in ventilation, respiratory equipment, anesthesia, and analytical instruments.
- Product life: 100 million.

### Application Industry

- Printing industry.
- Textile industry: Rapid response for yarn, waving machines.
- Packaging industry: N2 or controlled vacuum for food.
- Fuel cell: Air dosing.

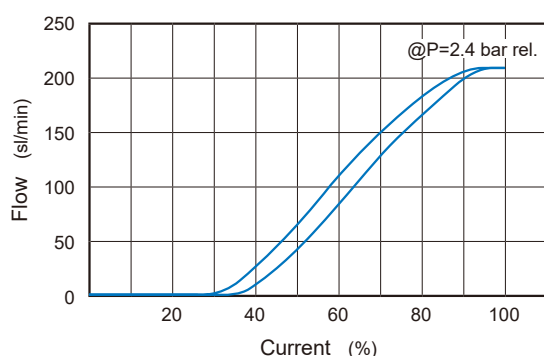
### Specification

Model	MVPH
Type of acting	Compensated
Nb of ways / function	2/2 NC - Proportional
Type of pneumatical connection	Cartridge, Subbase type F
Materials in contact with media	Operator
	Orifice
	Subbase
	Seal
Mounting orientation	Indifferent
Media	Air, oxygen, neutral gases
Pressure range @port 1 (bar rel.)	0 ~ 7
Back pressure @port 2 (*)	≤ 10% of the inlet pressure
Flow @ 2.4 bar rel. @ 20°C (sl/min)	≥ 190
Internal leakage @ 20°C (ml/min)	≤ 1 @ 0 ~ 7 bar rel.
External leakage @ 20°C (ml/min)	≤ 1 @ 7 bar rel.
Storage (°C)	-20~+70
Temperature	Ambient operating (°C)
	Media operating (°C)
Protection (DIN 40050)	IP51
Duty cycle	100% ED
Filter of front end (μm)	20 recommended (not included)
Weight (g)	40 ± 5

\* The pressure on the outlet must keep ≤10% of the inlet, in order to guarantee good regulation for pressure.

### Flow rate characteristics

Don't use as reference.



### Coil specification

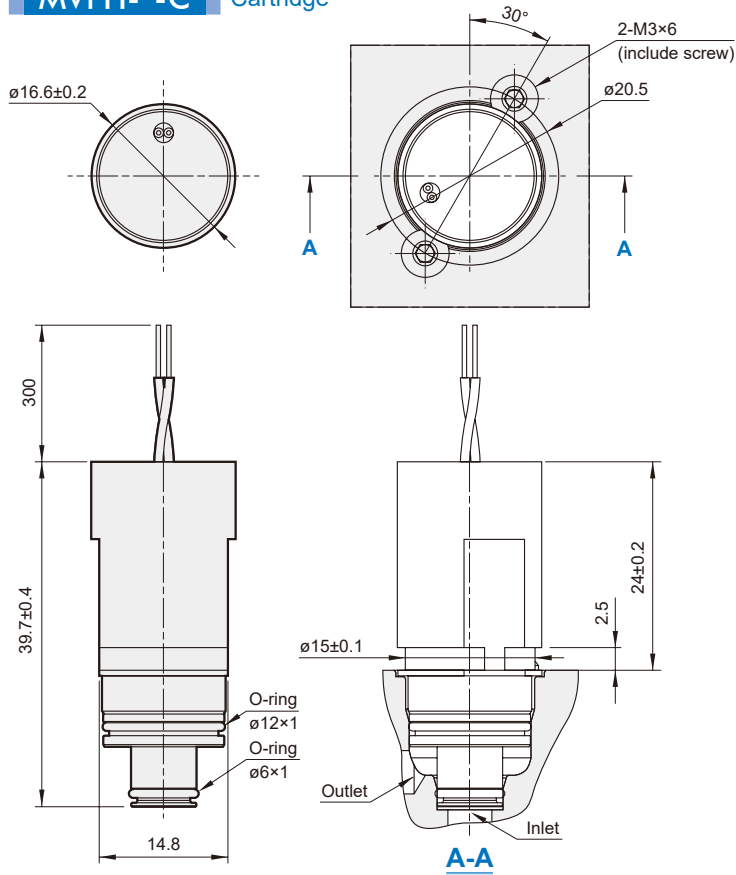
Nominal voltage @ 20°C (V)	12	6
Maximum voltage (V)	18	9
Nominal current ±3% @ 20°C (mA)	209	417
Nominal power @ 20°C (W)	2.5	
Nominal resistance ±3% @ 20°C (Ω)	57.5	14.4
Electrical insulation (V AC)	500	
Maximum coil temperature (°C)	< 120	
Electrical connection	300mm AWG 26 Flying leads	
Recommended supply voltage (V)	24	12

# MVPH Dimensions

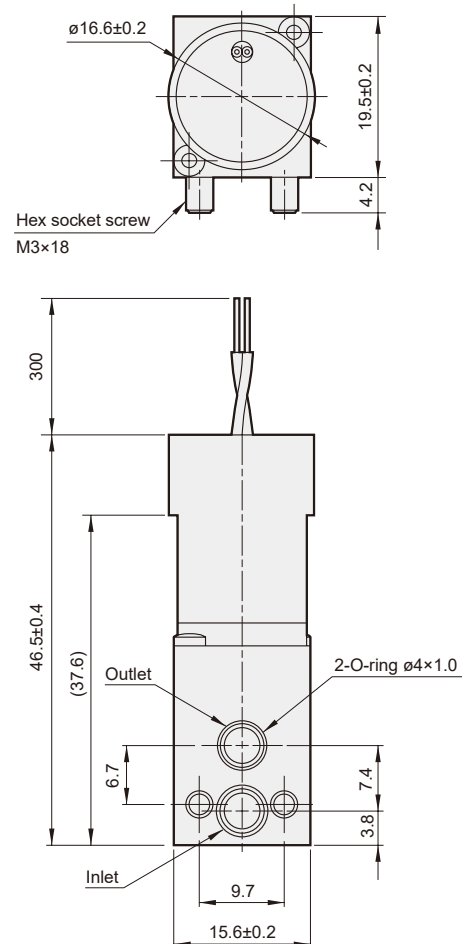
## HIGH-FLOW PROPORTIONAL VALVE



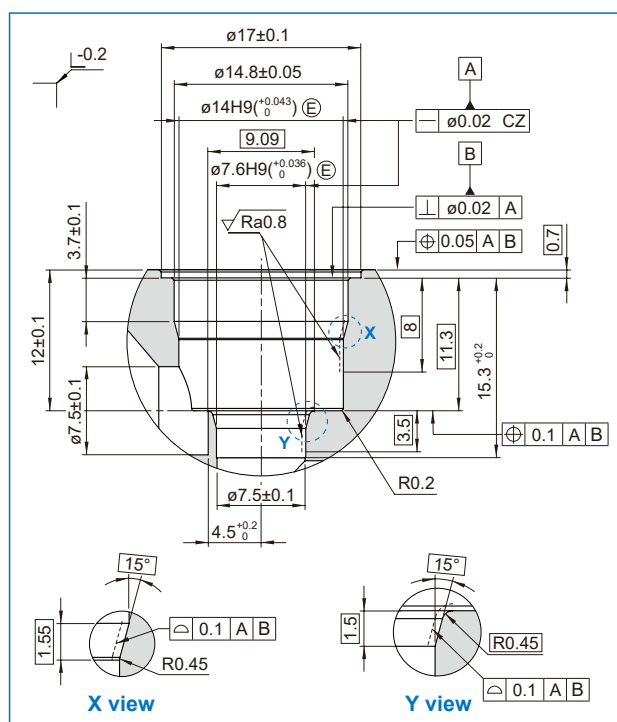
**MVPH-\*-C** Cartridge



**MVPH-\*-S** Sub-base type F



**Cartridge hole**  
Valve footprint



**Subbase type F**  
Valve footprint

