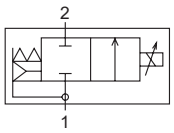
MVPH series

HIGH-FLOW **PROPORTIONAL VALVE**

2/2 NC



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.

Order example

MVPH — NC — 1 — S — P

- MODEL
- **NC**: Normally closed
- COIL — **1**: 6V-417mA-14.4Ω; **2**: 12V-209mA-57.5Ω
- CONNECTION — **C**: Cartridge; **S**: Subbase type F
- BASE MATERIAL (*) — **P**: PEEK

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

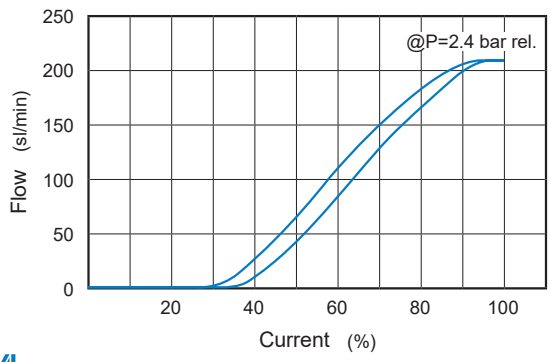
Specification

Model		MVPH
Type of acting		Compensated
Nb of ways / function		2/2 NC - Proportional
Type of pneumatical connection		Cartridge, Subbase type F
Orifice size	(mm)	ø4.6
Materials in contact with media	Operator	Stainless steel
	Orifice	Stainless steel
	Subbase	PEEK
	Seal	FPM
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.
Temperature — Storage	(°C)	–20~+70
Temperature — Ambient operating	(°C)	5~+50
Temperature — Media operating	(°C)	5~+50
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

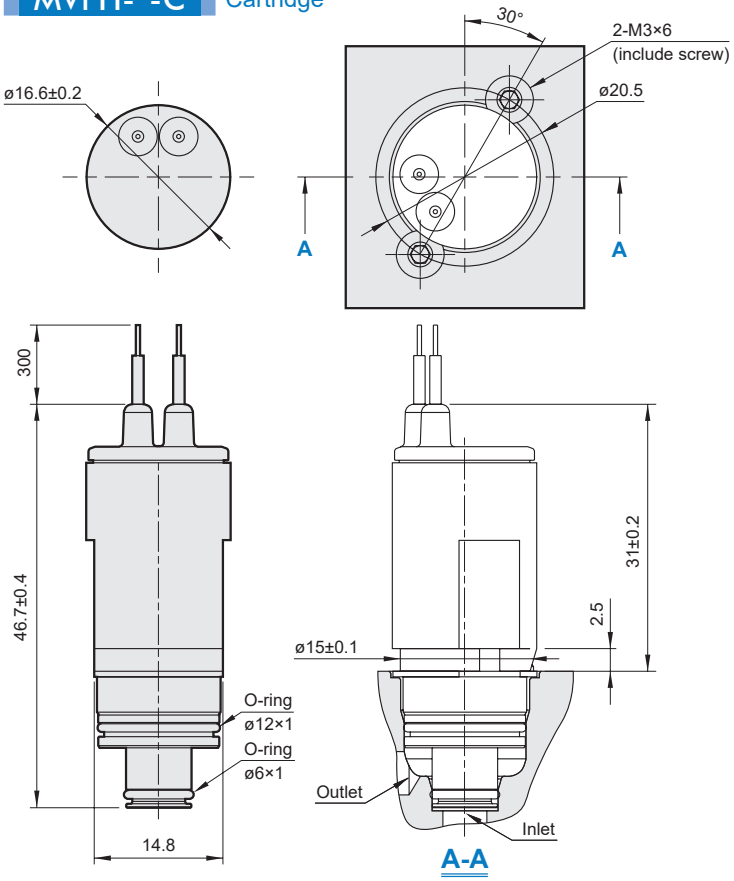
Don't use as reference.



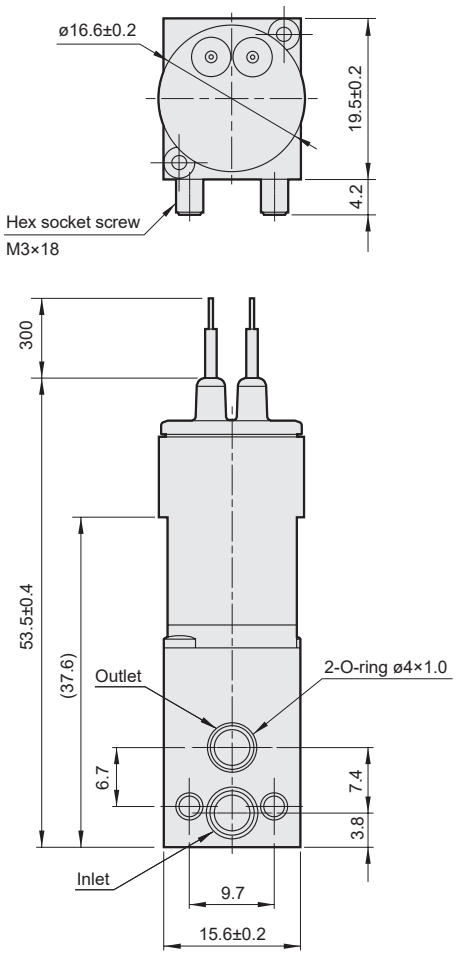
Coil specification

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-*-C Cartridge

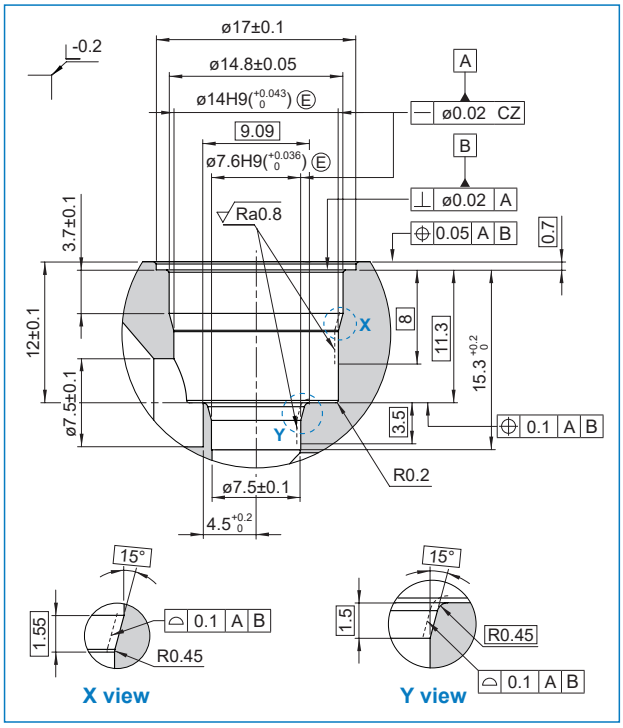


MVPH-*-S Sub-base type F



Cartridge hole

Valve footpring



Subbase type F

Valve footpring