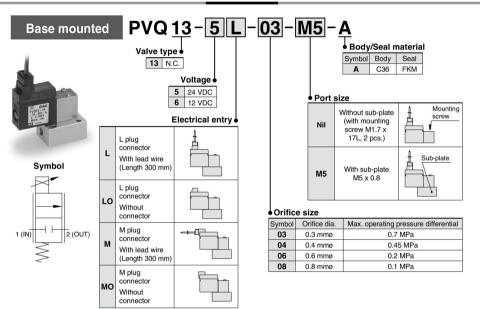
## Compact Proportional Solenoid Valve PVQ10 Series

## **How to Order**



## \* Refer to page 981 for the different lead wire lengths of L and M plug connectors.

## **Specifications**

Standard specifications	Valve construction	Direct operated poppet		
	Fluid	Air		
	Seal material	FKM		
	Body material	C36		
	Fluid temperature	0 to +50°C		
	Ambient temperature Note 1)	0 to +50°C		
	Action	N.C. (Normally closed)		
	Mounting orientation	Unrestricted		
0,	Port size	M5		
Coil	Power supply	24 VDC	12 VDC	
	Coil current	0 to 85 mA	0 to 170 mA	
	Power consumption	0 to 2 W		
sbe	Coil insulation	Class B		

Characteristic specifications	Orifice diameter (mmø)	0.3	0.4	0.6	0.8
	Max. operating pressure differential (MPa) Note 2)	0.7	0.45	0.2	0.1
	1 0	1 MPa			
	Min. operating pressure (MPa) (Vacuum) Note 3)	0 (0.1 Pa.abs)			
	Flow rate (L/min) (at max. operating pressure differential)	0 to 5	0 to 6		0 to 5
	Hysteresis (at max. operating pressure differential)	10% or less			
	Repeatability (at max. operating pressure differential)	3% or less			
	Start-up current (at max. operating pressure differential)	50% or less			

Note 1) Indicates the ambient temperature when the valve is not energized.

When the valve is continuously energized (when applying maximum current) and the ambient temperature is kept at 50°C due to the convection of the air around the valve, the coil outer surface reaches approximately 90°C, and the coil proximal section (1 mm) reaches approximately 60°C. Use the product at a temperature of not more than 50°C.

Refer to the Specific Product Precautions "Continuous Energization."

Note 2) Maximum operating pressure differential indicates pressure differential (difference between inlet and outlet pressure) which can be allowed for operation with the valve closed or open. If the pressure differential exceeds the max. operating pressure differential of orifice, the valve may leak.

Note 3) For vacuum application, max. operating pressure range is 0.1 Pa-abs to max. operating pressure differential. A(2) port is applicable for vacuum pressure.