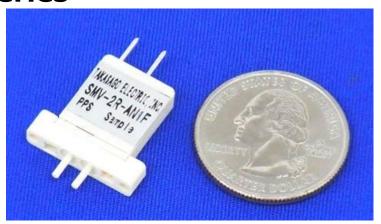
# **SMV Series**

(Patented)



#### **Features**

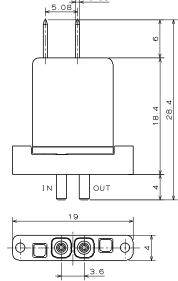
This valve is driven by a piece of shape memory alloy, giving it the following features:

- Compact and light weight: 19 x 18.4 x t4 mm and 1.5 g (approx.).
- Silent operation
- Low power consumption 0.3 W or less.
- Low cost and disposable.

### **Specifications**

Туре		2-Way N.C.		
Model		Standard	High pressure	
Orifice Diameter (mm)		0.4, 0.8	0.4	0.8
Port Connection		Hose pipe, O-ring (Manifold mount)		
Operating Pressure Range (kPa)	IN	0 ~ 100	0 ~ 250	0 ~ 200
	OUT	0 ~ 50	0 ~ 100	
Operating Temp. Range		5 ~ 40 °C		
Electrical Supply		Current 250 mA *1		
Response Time(Typ.) *2		ON: 600 ms, OFF: 600 ms		
Body		PPS		
Diaphragm		FPM or EPDM		
( ) i	meter ( nnection ing Range ) rating Range al Supp Time(Ty	meter (mm) nnection ing IN Range OUT rating Range al Supply Time(Typ.) *2 Body	Standard   Standard	Standard   High property

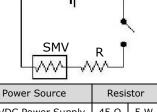
### **Dimensions**



- \*1: Please see "Cautions concerning Power Supply" below.
- \*2: Response times vary depending on the ambient temperature. The values above are measured at 30°C. Can be improved by controlling the applied current (e.x. PWM, a spike & hold circuit, etc.). Please contact us for details.

# Cautions concerning Power Supply

- 1. Power supply by a constant current circuit is recommended.
- Operation by 12 VDC power supply or batteries is also possible, but a resistor must be inserted between the valve and the power source. See diagram on right.
- 3. If you operate the valve by any other method, the shape memory alloy may burn out, resulting in the valve malfunctioning.



Power Source

Power SourceResistor12 VDC Power Supply45  $\Omega$ 5 WAA battery x 210  $\Omega$ 1 W

Note: Details including specifications may change without notification.

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