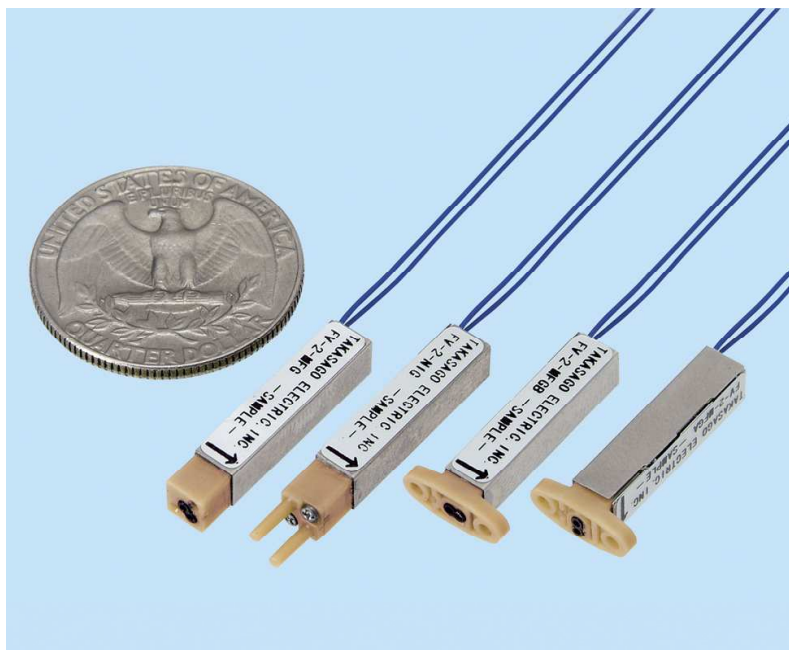


Ultra-small Diaphragm-isolation Solenoid Valve

FV Series



1. 4.2mm square: $4.2 \times 4.2 \times 23.1\text{mm}^*1$

An innovative and groundbreaking ultra-small solenoid valve - can be mounted in the smallest of spaces, minimizing the manifold size and shortening the length of flow paths.

*1 Dimensions for FV-2-MFG, not including wire connections

2. Diaphragm valve

Excellent chemical resistance - PEEK and perfluoroelastomer are used for wetted materials (materials can be changed according to your requirements).

3. Internal volume only $1.1\mu\text{l}^*2$

Through pursuing miniaturization to the uttermost limits, internal volume is now only $1.1\mu\text{l}$ - contributes to reductions in reagent and sample quantities and improvements in analysis accuracy.

*2: value for FV-2-MFGA(B). FV-2-N1G: $4.3\mu\text{l}$, FV-2-MFG: $1.5\mu\text{l}$

REMARKS

The FLV series is a model that uses a latching solenoid. This FV series is a normal solenoid valve. This product doesn't require a polarity change, which is necessary for the actuation of the FLV series.

Note: Details including specifications may change without notification

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Specifications

Model number	FV-2-N1G	FV-2-MFGA(B)* ¹	FV-2-MFG
Type	2 Way N.C.		
Orifice Diameter	0.4mm		
Port Connection	Hose Barb	Gasket	
Operating Pressure Range	IN: 0 - 100kPa		
	OUT: 0 - 50kPa		
Fluid Temp. Range	10 - 50°C		
Ambient Temp. Range	10 - 50°C		
Voltage	5VDC		
Power Consumption	1W		
Duty Cycle	Intermittent ED=40%		
Coil Temp. Increase	Max. 80 °C From Ambient Temperature (when energized for 1.5 minutes at rated voltage)		
Max. Energizing Time	1.5 minutes		
Diaphragm Material	Perfluoroelastomer (Optionally FPM)		
Body Material	PEEK (Optionally PPS)		
Hose Barb Material	PEEK (Optionally PPS)		

*¹ A and B have a 90° difference in port orientation.

Dimensions

