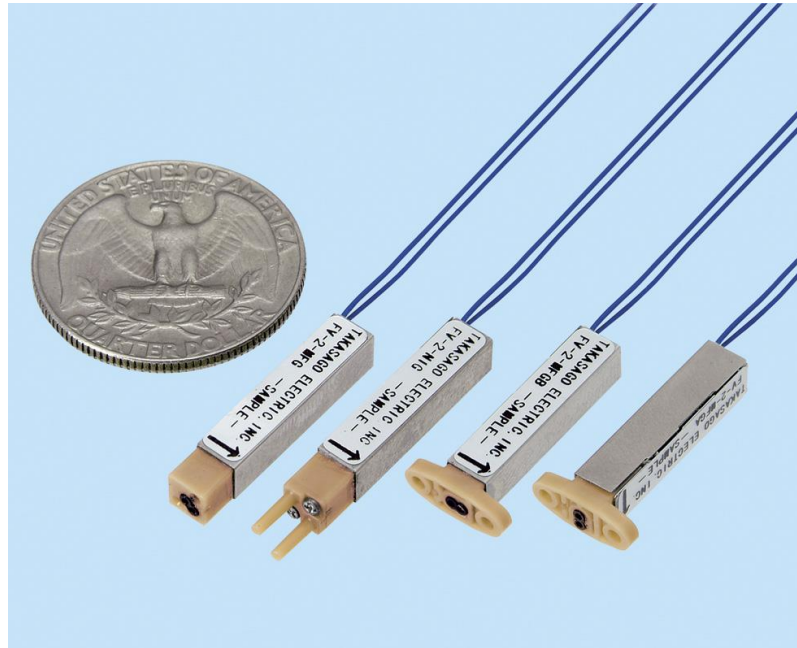


TFS Ultra-small Diaphragm-isolation Solenoid Valve FV Series



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.

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

TAKASAGO ELECTRIC, INC.

No.5 XingHan Street BLK B# 06-01/08 SuZhou Indusric Park SuZhou City
JiangSu Province China

Tel +86-512-67610522 Fax +86-512-67610533

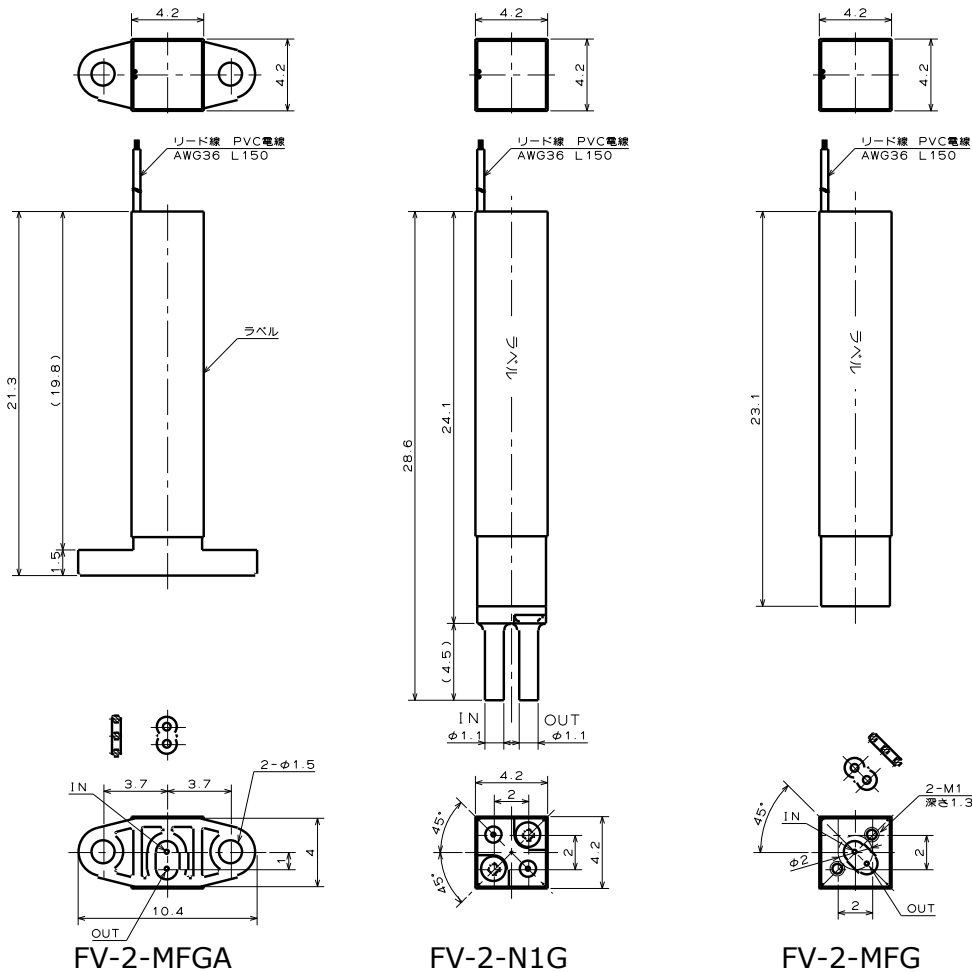
E-mail: info@takasago-elec.net URL: <http://www.takasago-elec.com.cn/>

Specifications

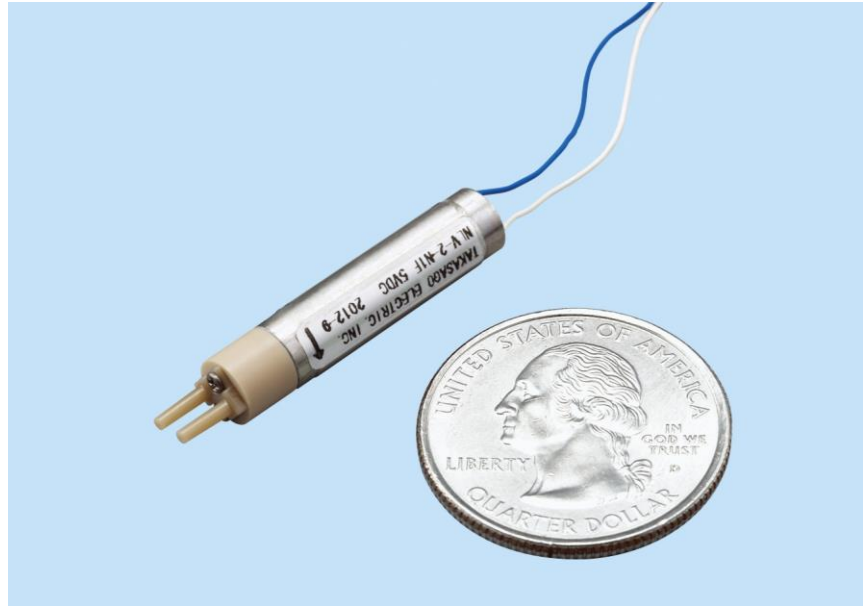
Model number	FV-2-N1G	FV-2-MFGA(B)*1	FV-2-MFG
Type	2 Way N.C.		
Orifice Diameter	0.4mm		
Port Connection	Hose Barb	Gasket	
Operating Pressure Range	IN: 0 - 100kPa		
	OUT: 0 - 50kPa		
Fluid Temp. Range	10 - 50°C		
Ambient Temp. Range	10 - 50°C		
Voltage	5VDC		
Power Consumption	1W		
Duty Cycle	Intermittent 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



ULTRA-SMALL LATCHING SOLENOID VALVE

NLV Series**Features****1. Outer dimensions: Dia. 5.7 mm x H32.5 mm**

An innovative ultra-small solenoid valve - can be mounted in the smallest of spaces, miniaturising application space and shortening the length of flow paths.

2. Highly chemically inert diaphragm valve

PEEK and Perfluoroelastomer are used for wetted materials. Materials can be changed according to your requirements.

3. Internal volume only 4.3 μ l

Through pursuing miniaturisation to the uttermost, internal volume is now only 4.3 μ l. The internal volume of the valve chamber, which can be a dead volume, comprises only 0.75 μ l of this. This contributes to reductions in reagent/sample quantities and improvements in analysis accuracy.

4. Latching solenoid valve

The open/closed status of valve is maintained by permanent magnetic force. No energisation is required to maintain the valve status. Contributes to energy saving and lower heat generation due to energisation. Power is required while changing the status (Open to Closed, Closed to Open). Also, it is necessary to reverse the current's polarity to change the status.

TAKASAGO ELECTRIC, INC.

No.5 XingHan Street BLK B# 06-01/08 SuZhou Industric Park SuZhou City
JiangSu Province China

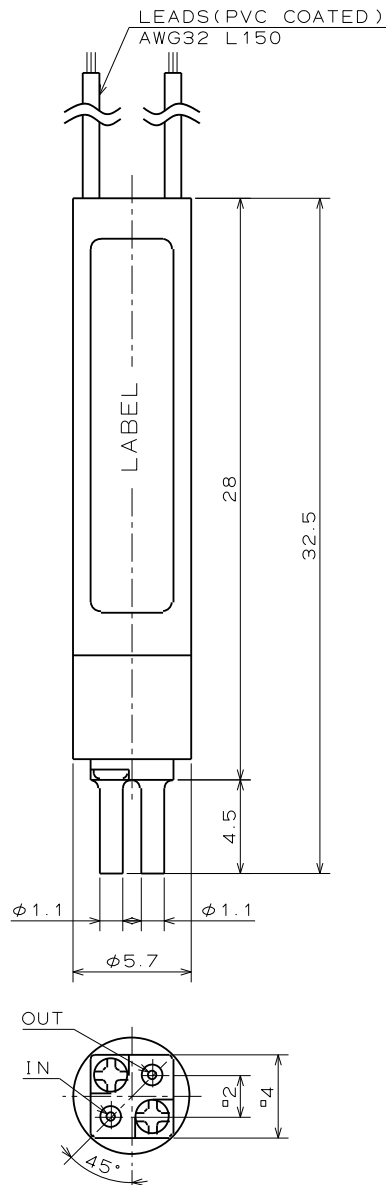
Tel +86-512-67610522 Fax +86-512-67610533

E-mail: info@takasago-elec.net URL: <http://www.takasago-elec.com.cn/>

Specifications

Model Number	NLV-2-N1G
Type	2-way
Orifice Diameter	0.4 mm
Port Connection	Hose barb
Operating Pressure Range	IN:0 ~ 100 kPa
	OUT:0 ~ 50 kPa
Fluid Temp. Range	10 ~ 50 °C
Ambient Temp. Range	10 ~ 50 °C
Rated Voltage	5 VDC, 12 VDC
Power Consumption	1.5 W (when energised)
Coil Type	Latch Type Solenoid
Insulation Class	Class B
Dielectric Strength	800 VAC 60 seconds
Diaphragm Materials	Perfluoroelastomer (Optionally FPM)
Body/Hose Barb Materials	PEEK (Optionally PPS)

Dimensions



Note: Details including specifications may change without notification.

TFS Slim Diaphragm-isolated Solenoid Valve KV Series



1. 6mm Slim Design

This small valve enables you to reduce not only the installation space but also internal pipe length of your manifold by making it possible to mount at 6mm intervals.

2. Capacity for Bilateral Connection

Easy to make manifolds (see page 3)

3. Small Internal Volume

Only 10 micro liters (each port)

4. Excellent Chemical Resistance

PEEK molded body and Perfluoroelastomer diaphragm

TAKASAGO ELECTRIC, INC.

No.5 XingHan Street BLK B# 06-01/08 SuZhou Industric Park SuZhou City
JiangSu Province China

Tel +86-512-67610522 Fax +86-512-67610533

E-mail: info@takasago-elec.net URL: <http://www.takasago-elec.com.cn/>

Specifications

Model Number	KV-2-NCG	
Type	2-way N. C.	
Orifice Diameter	0.8mm	
Port Connection	O-ring Seal	
Operating Pressure Range	IN: 0 - 100kPa OUT: 0 - 50kPa	
Fluid Temp. Range	0 - 50 °C	
Ambient Temp. Range	0 - 40 °C	
Voltage	12VDC, 24VDC	
Power Consumption	1.8W	
Duty Cycle	Continuous Duty	
Coil Temp. Increase	Max. 90 °C From Ambient Temperature	
Internal Volume	Inlet: 10 micro liters Outlet: 10 micro liters	
Insulation Class	Class B	
Dielectric Strength	1500VAC for 60s	
Weight	8g	
Wetted Materials	Diaphragm	Perfluoroelastomer
	O-ring	Perfluoroelastomer
	Body	PEEK (poly ether ether ketone)

Dimensions

