PEEK Moulded Valve

MTV-K Series



- PEEK is as chemically inert as Teflon but being harder, ensures that fittings remain tightly installed.
- \cdot Threaded type (1/4-28UNF or M6) and Barbed type are available for port connection
- Unique "Soft-seal" prevents leakage problem caused by particulate matter in the fluid.
- · A high pressure version (600kPa rated) is available in this series.

E-mail: info@takasago-elec.co.jp URL: http://www.takasago-elec.com

Specifications

Model Number	MTV-2K-NM6(1/4U)F	MTV-2K-NM6(1/4U)G	MTV-3K-NM6(1/4U)F	MTV-3K-NM6(1/4U)G	
Type*	2 Way Nor	mally Closed	3 Way		
Orifice Diameter	2mm		2mm		
Port Connection	M6, 1/4-28UNF or Barbed		M6, 1/4-28UNF or Barbed		
Operating pressure	IN : −90~200kPa (−675mmHg~2.0bar)		COM. : -90~200kPa (-675mmHg~2.0bar)		
	OUT : 0~100kPa (0~1.0bar)		N.C., N.O. : 0~100kPa (0~1.0bar)		
Fluid Temp. Range	0~60°C	5∼60°C	0~60°C	5∼60°C	
Ambient Temp. Range	0~60°C	5∼60°C	0~60°C	5∼60°C	
Rated Voltage*	12 or 24VDC		12 or 24VDC		
Power Consumption	2.6W		2.6W		
Operating Duration	Continuous Duty		Continuous Duty		
Coil. Temp. Increase*	MAX.50°C		MAX.50°C		
Internal Volume	IN : 30 μ l OUT : 240 μ l		COM : 80 μ l		
			NC : 83 μ Ι NO : 170 μ Ι		
Insulation Class	Class B		Class B		
Dielectric Strength	1500VAC for 60s		1500VAC for 60s		
Diaphragm Material	PTFE		PTFE		
Seal Material	FPM	Perfluoroelastomer	FPM	Perfluoroelastomer	
Body material	Р	EEK	PEEK		

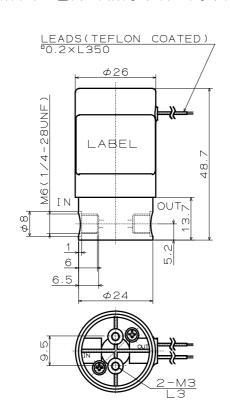
Notes (*)

Type: 2-way normally open is available on request.

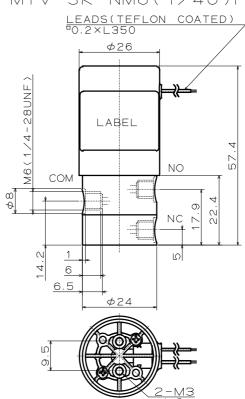
Rated Voltage: Other voltages are available on request.

Coil Temp. Increase: From room temperature when continuously energized





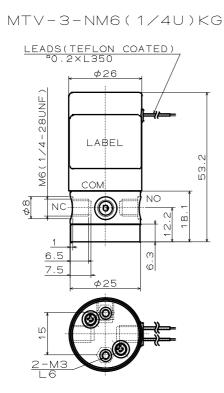
MTV-3K-NM6(1/4U)F

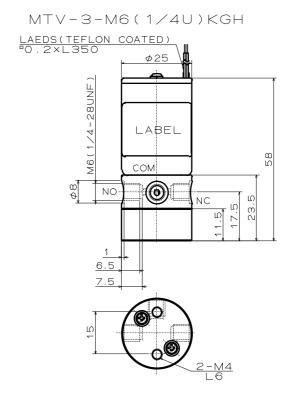


Specifications

Model Number	MTV-3-NM6(1/4U)KG	MTV-3-M6(1/4U)KGH		
Туре	3 way	3 way		
Orifice Diameter	1.8mm	1.6mm		
Port Connection	M6 or 1/4-28UNF	M6 or 1/4-28UNF		
Operating pressure	COM: −80~200kPa	COM: −80 ~ 600kPa		
	N.C.、N.O.: 0∼100kPa	N.C.、N.O.: 0∼500kPa		
Fluid Temp. Range	5∼60°C	5∼60°C		
Ambient Temp. Range	5∼50°C	5~40°C		
Rated Voltage	12 or 24VDC	24VDC		
Power Consumption	4.4W	9W		
Operating Duration	Continuous Duty	Intermittent (4min, ED 20%)		
Coil. Temp. Increase*	MAX.75°C			
Internal Volume	COM: 61 μ I	COM: 61 μ I		
	N.C.、N.O.: 72 <i>μ</i> Ι	N.C.、N.O.: 72 μ Ι		
Insulation Class	Class B	Class B		
Dielectric Strength	1500VAC for 60s	1500VAC for 60s		
Diaphragm Material	PTFE	PTFE		
Seal Material	Perfluoroelastomer	Perfluoroelastomer		
Body Material	PEEK	PEEK (Optionally PPS)		

Notes (*)
Coil Temp. Increase: From room temperature when continuously energised





VALVE BODY MATERIAL, PEEK (POLYARYLETHERKETONE)

Features:

- High Resistance to Chemicals (See Table Below)
- · High Rigidity And High Mechanical Strength
- Deformation Temperature: 150°C and above.

Chemical Compatibility Comparison Data

	PEEK	PPS	PTFE	SUS316	FPM (FKM)	EPDM
Acetaldehyde	Α	Α	Α	Α	D	В
Acetone	Α	Α	Α	Α	D	В
Ammonia	Α	В	Α	Α	Α	Α
Hydrochloric Acid (20%)	A(10%)	Α	Α	D	Α	Α
Sea Water	Α	Α	Α	С	Α	_
Hydrogen Peroxide (30%)	Α	В	Α	С	Α	С
Sodium Hydroxide (50%)	_	Α	Α	С	D	Α
Xylene	Α	Α	Α	Α	Α	_
Chloroform	_	Α	Α	Α	D	D
Acetic Acid (10%)	Α	Α	Α	Α	В	D
Pure Water (Ion-Exchange Water)	А	А	А	Α	Α	Α
Sodium Hypochlorite (5%)	Α	Α	Α	D	Α	В
Nitric Acid (10%)	Α	Α	Α	Α	Α	В
Tetrahydrofuran	Α	Α	Α	Α	D	_
Toluene	Α	Α	Α	Α	В	D
Benzene	Α	Α	Α	Α	В	D
Formalin (37%)	Α	Α	Α	С	Α	Α
Sulphuric Acid (30%)	В	Α	Α	D	Α	Α
Phosphoric Acid	Α	Α	Α	D	Α	_

A: Compatible

B: Mostly Compatible

C: Compatible Under Some Conditions

D: Not Compatible

-: No Data

[•] The above are only reference data. Testing with your application is recommended.