TAKASAGO

MTV 2R/3R/2K/3K Inert Isolation Valve

Solenoid Operated, PEEK & PPS Valves, 2 mm Orifice

DESCRIPTION

Model MTV-R/K inert isolation valves offer great performance and a choice of wetted materials for compatibility with aggressive media. The valves utilize unique soft elastomeric seals which are forgiving of particulate matter that would typically destroy an inert valve.

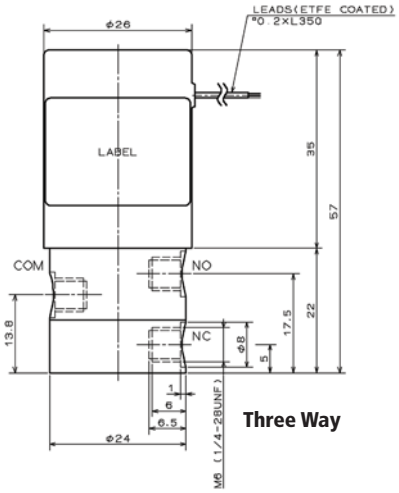
The MTV series are availabe in two way, normally open and normally closed; and three way configurations. Model MTV-2R and -3R valves have molded PPS bodies and Model MTV-2K and -3K valves have PEEK molded bodies. A choice of FPM or Perfluor seal materials is available.

SPECIFICATIONS

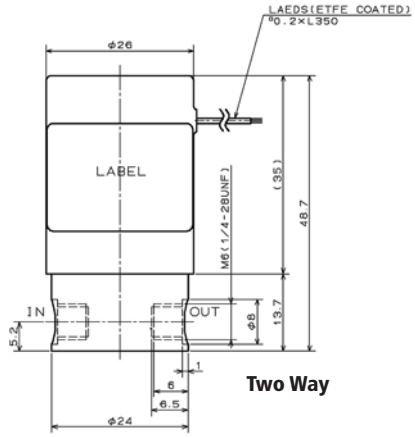
GENERAL

Rated Voltage- 12Vdc or 24Vdc
Min. Operating Voltage- 90% of rated voltage
Drop Out Voltage- 10% of rated voltage
Power Consumption- 2.6 Watts
Coil Temp. Rise- Max 50°C from room temperature
Orifice Diameter- 2mm
Solenoid Housing- SPS (Syndiotactic Polystyrene) encapsulated
Internal Volume, two way- IN, 30 micro liters; OUT 240 micro liters
Internal Volume, three way- COM, 30 micro liters; NC, 82 micro liters; NO, 194 micro liters
Operating Pressure, two way- IN, -700mmHg to 2.0 bar; OUT, 1.0 bar (Optional 7.0 bar IN, 2.0 bar OUT)
Operating Pressure, three way- Com,-700 mmHg to 2.0 bar; NC/NO,1.0 bar
Response Time- ON, 30ms; OFF, 7-15ms
Media Temperature Range- 5-60°C
Operating Life- 9 million cycles
Weight- two way, 85 grams; three way, 88 grams
Insulation Class- Class B
Insulation Resistance- 50 Mohm at 500 Vdc
Dielectric Strength- 1500 Vac/1 minute
Port Connection- 1/4-28 threaded, 4 mm barb connection, M6
Valve Body Material- PEEK or PPS
Isolating Diaphragm Material- PTFE
Valve Seat Seal Material-Dai-el Perfluor or FPM
"O" Ring Material (three way only)- Perfluor or FPM

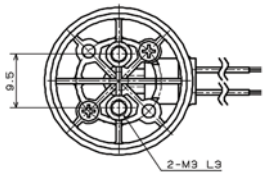
DIMENSIONS (MM)



Three Way



Two Way



ORDERING INFORMATION

ABCDE

EXAMPLE: MTV-3R1/4UF12V

A Config. & Body Material	B Connections	C Seat Material	D Options	E Voltage
MTV-2R= 2-way,NC,PPS MTV-2K=2-way,NC,PEEK MTV-3R= 3-way,PPS MTV-3K= 3-way,PEEK MTV-02R= 2-way,NO,PPS MTV-02K= 2-way,NO,PEEK	1/4U=1/4-28 threaded N4= 4mm barb M6= M6 threaded	F=FPM G=Perfluor	-=None H=High Pressure Option (Two way, N.C. only, 4.4 W power consumption)	12V=12Vdc 24V=24Vdc