

PINCH VALVES

High Durability

- 20,000,000 cycles
- *as tested by Takano Co. in a standard testing environment

Unique Bottom-Mounted Lead Line

- No need for complicated mounting treatments: fits easily into narrow spaces.

57 (mm) or less



φ26 (mm)

Low-Heat

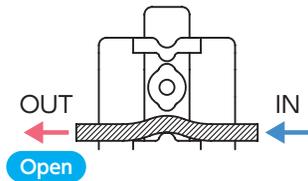
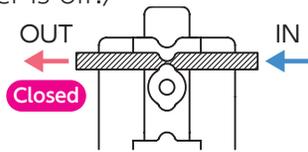
- Featuring a unique magnetic circuit designed to reduce heat generation, the temperature rise of this pinch valve after continuous operation is only 65°C.
- *as tested by Takano Co. in a standard testing environment

FEATURES

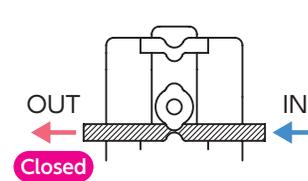
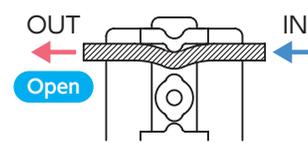
1 Multi-Purpose

When used with one tube inserted into the device, it becomes an ON/OFF valve.

<when power is off:>

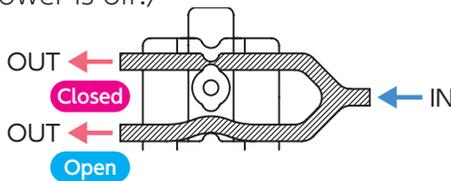


<when power is on:>

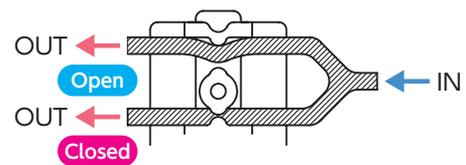


When used with two tubes and the assistance of a Y-pipe, it can function as a 3-way valve to divert fluids.

<when power is off:>

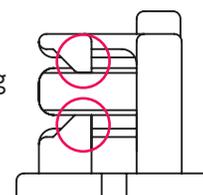
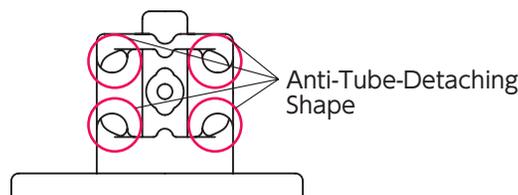


<when power is on:>



2 Fitting Shape Prevents Accidental Tube Detachment

The plastic molding on the pinch mechanism has been specially designed so that the supply tube will not fall off from repeated use.



◆ Main Specifications

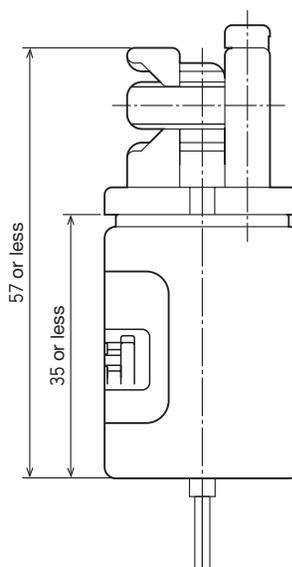
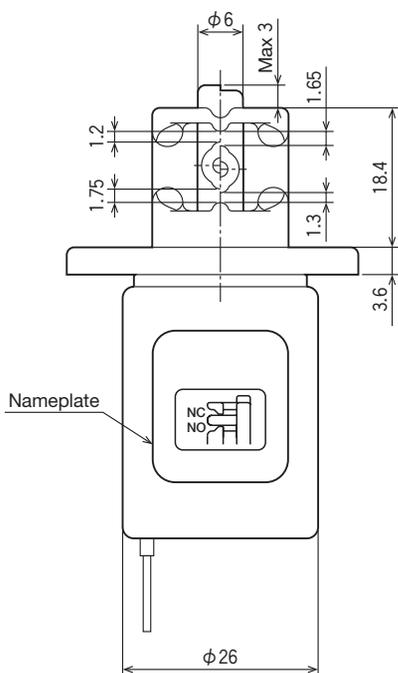
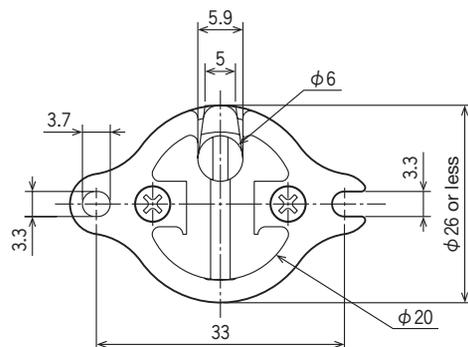
Model Number	TPV-N040	TPV-N160
Fluid	Water, Pure Water, Chemicals * ¹	
Operating Pressure Range	0 ~ 150 (kPa)	
Compatible Tube Diameter	O.D.3/I.D.1 (mm)	
Compatible Tube Types	Silicone Rubber, PharMed * ²	
Fluid Temperature	0 ~ 50 (°C)	
Ambient Temperature	0 ~ 50 (°C)	
Ambient Humidity	30 ~ 90 (%)	
Mounting Orientation	at will	
Mass	115 (g)	
Life Cycle/Durability * ³	2,000,000 (cycles)	
Electrical Specifications		
Working Voltage	12 (V DC)	24 (V DC)
Allowable Voltage Fluctuation	±10 (%)	
Power Consumption	3.6 (W)	
Heat-Resistant Class	Class E (120°C)	

* 1: please use chemicals that do not corrode the materials used in the wetted part of the valve.

* 2: PharMed is a registered trademark of Saint-Gobain Performance Plastics Corporation.

* 3: measurement conditions: measured by Takano Co. in a standard testing environment.

◆ External Dimensions (mm)



Terminal Specifications

Lead Wire Length (mm) : 500
AWG Size : 28

Regarding Your Order

Bi-stable Rotary Solenoids

Driver Board for Bi-stable Rotary Solenoids

Step Rotary Solenoids

Latching Solenoids

Compact 2-Way/3-Way Solenoid Valves for Chemical Liquids

Generic 2-Way/3-Way Solenoid Valves

Pinch Valves

Bi-stable Rotary Optical Shutters

Linear Optical Shutter

Electro-magnets