

TAKASAGO MODEL PL LATCHING PINCH VALVE

Solenoid Operated, Two Way N.O. and Two Way N.C. Configurations

DESCRIPTION

Model PL pinch valve has a latching solenoid, which maintains the valve's open or closed state through the utilization of a permanent magnet. PL valves offer excellent reliability in a compact, versatile design. Reasonable cost and consistent performance are accomplished through molding and automated assembly technology.

Model PL is available in two way normally open (single tube) or two way normally closed (single tube) configurations.

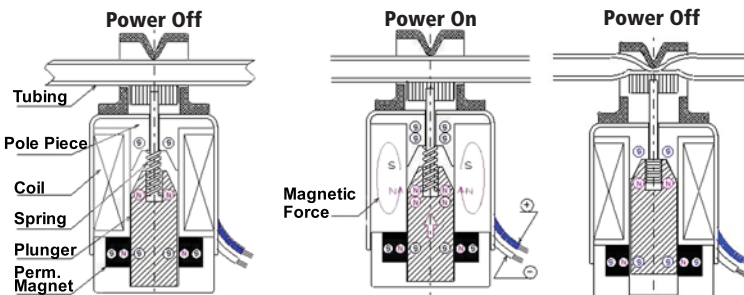
Tube changes are facilitated by a convenient push button manual solenoid override.

SPECIFICATIONS

GENERAL

- Rated Voltage- 12Vdc or 24Vdc
- Duty Cycle- Intermittent
- Power Consumption- 8 Watts
- Ambient Temperature Range- 0-40°C
- Tube Material- Silicone Rubber
- Tube Size- 1.0 mm I.D., 3 mm O.D.
- Tube Holder- Delrin®
- Pinching Head- PBT (Polybutylene Terephthalate)
- Max Operating Pressure- 1.5 bar (21.77 PSI)
- Dielectric Strength- 1500 Vac/1 minute

LATCHING SOLENOID



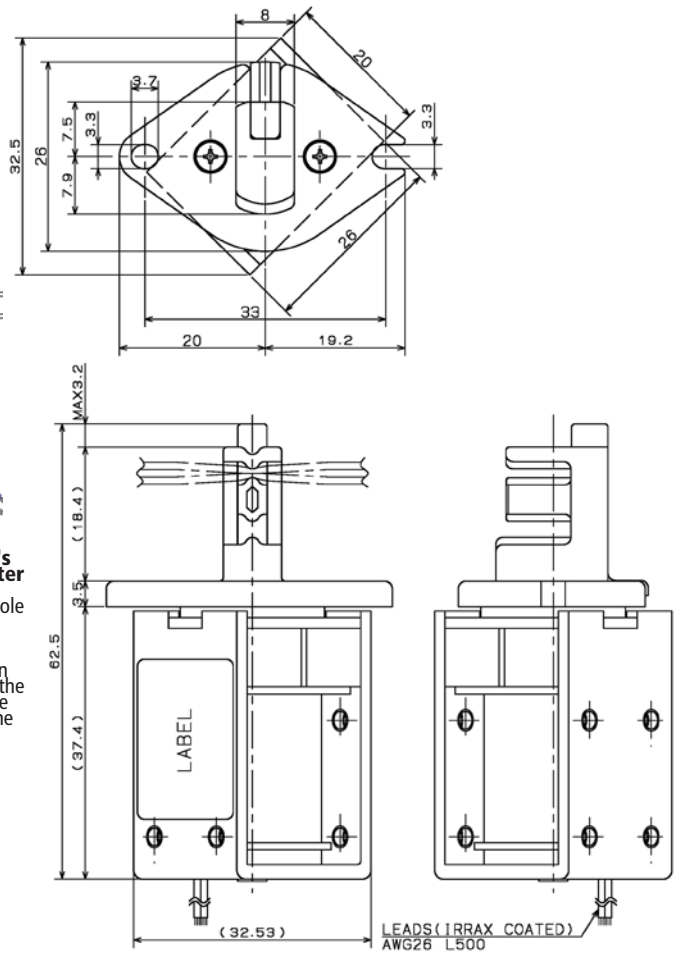
Permanent magnet's attractive force less than spring force:
There is an open space between the pole piece and the plunger and the attractive force of the permanent magnet is lower than the force of the spring

Current flows to the coil, the electromagnetic force is created in such direction that the attractive force increases and becomes stronger than the spring. Then, the plunger moves towards the pole piece.

Permanent magnet's attractive force greater than spring force:
The space between the pole piece and the plunger narrows and so the attractive force strengthens. Even when the magnetic force from the coil is cut, the attractive force is stronger than the force of the spring.



DIMENSIONS(MM)



ORDERING INFORMATION

Model	Config.	Tubing	Tubing I.D.	Tubing O.D.	Operating Pressure
PL-1015NC(12V, 24V)	2-Way, N.C.	Silicone	1 mm	3 mm	1.5 bar (21.77 PSI)
PL-1015NO(12V, 24V)	2-Way, N.O.		1 mm	3 mm	

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