

Power Pinch Valve (PPV)

KENDRION develops powerful solenoid pinch valves designed for clamping miscellaneous tubes.

With its high clamping force of 40N, our pinch valves are best suitable for PVC and silicone tubes with an outer diameter of max. 7 mm.

This solenoid valve is designed based on our single-stroke linear solenoid.

Typical applications for this valve are medical, laboratory systems, vending machines and agriculture e.g. for watering systems.

The valve assembly with precisely tuned magnetic and spring-loaded force takes care of secure clamping. Clamping of the tube can be achieved either via the magnetic force (Normally Open) or spring-loaded (Normally Closed). Both functions are available. For increased safety requirements, an electronic control system for condition monitoring or flow detection can be integrated.

Advantages at a glance

- Medium completely separated from valve parts.
- High clamping force of approx. 40N.
- Universal use for miscellaneous tube materials (PVC and Silicone).
- Suitable for tubes outer diameter of 4 - 7mm.
- Chemical resistance depends on the tube material.
- No dead spots as in usual valve body.
- Flow in both direction possible.



Preliminary design of solenoid pinch valve
2/2 Way NO
2/2 Way NC

Technical data (preliminary)	Direct acting solenoid pinch valve 2/2 way
Dimension (Length x Width x Height)	84 mm x 53 mm x 146 mm
Function	Normally Open (NO) / Normally Closed (NC) selectable
Nominal voltage	24 VDC
Power consumption, Duty cycle	18 W, 100% ED
Clamping force	40 N
Medium	Depending on tube
Medium temperature	Max. 90°C (depending on tube)
Ambient temperature	0°C – 50°C
Operating pressure	0 – 2 bar (depending on tube)
Tube	Outer diameter 4 – 7 mm; thickness 1 – 1,5 mm; PVC and Silicone

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