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Hard copy product catalogues, and CDROMs have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.
Mechanically Operated Micro Valves

The Series 72 micro air valve was developed as a low cost, reliable signal element for mounting in confined spaces. The valve has an air assisted servo plunger design providing a low actuation force of 100 grams.

Valves are designed to match the dimensions of standard electrical micro switches and have similar actuating forces. Mounting is via through body holes which minimise the need for brackets and allow the valve to be mounted in very tight spaces.

These valves are equipped with instant push in fittings to accommodate flexible 4mm O.D. tubing, eliminating the need for extra fittings. The exhaust port (3) is internal and non accessible.

An air assisted servo controlled pilot consumes approximately .07 litres per minute and provides an air cushion for the plunger operator. The pilot supply is internally connected to port 1 (air supply) of the valve.

Technical Specifications

- **Operating Pressure:** 1.5 to 8 bar.
- **Vacuum:** Not applicable.
- **Flow Rate:** See flow chart.
- **Kv/Cv:** 
  - Kv - .8
  - Cv - .06
- **Orifice:** 2mm
- **Connection:** Push in fittings for 4mm flexible tubing. Exhaust port 3 is non accessible.
- **Media:** Filtered air.
- **Operation:** Air assisted servo controlled element. Supply pressure must be connected to port 1.
- **Operating time:** 65 ms @ 6 bar.
- **Actuation Force:** 100g. @ 8 bar.
- **Actuator Travel:** Approx. 0.8mm.
- **Total Travel (override):** 1.2mm.
- **Air Consumption:** Approx. .07 l/min @ 6 bar.
- **Materials:** Polyamide housing, aluminum plunger, Buna N seals, brass fitting inserts.
- **Average Mechanical Life:** 10 million operations
- **Operating Ambient:** -10°C to 60°C (12°F to 140°F)
- **Dimensions:** Valve body- 35mm L x 10mm W x 19.6 H.
- **Mounting:** (2) 3mm through body mounting holes.
Miniature Valves

Kuhnke Miniature Valves

Series 72 - 3 Way Micro

72010
Norm. Closed
Plunger Operator

72015
Norm. Open
Plunger Operator

Plunger operated valve can be used as a trigger mechanism on air guns, or to detect end of travel on machinery, tool in position functions, etc. Actuator travel is 1.2mm and actuation occurs at 0.8mm of travel.

Weight: 8g.

72020
Norm. Closed
Roller Lever

72025
Norm. Open
Roller Lever

Roller lever allows valve to be mounted in small parts conveyors or moving rail applications. Roller has an override of 1.2mm. Actuation occurs at 0.8mm of travel.

Weight: 9g.

72030
Air Jet Detector

Valve is actuated by remote air jet nozzle, connected to valve via a 4mm O.D. hose equipped with a special nozzle. Air jet is supplied by valve. A stream of air is sent from the nozzle. When an object blocks off the flow of air at the nozzle, the build up of back pressure activates the valve. Any length of hose can be used, however, length of tube (volume) determines valve switch over time. Uses hose kit cat. no. 43138, see accessories.

Weight: 8g.

Valve body dimensions are 35mm L x 19.6mm W x 10mm H. Through body mounting holes 3mm.

For detail dimensions contact us.