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### Important Note

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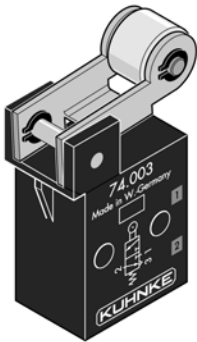
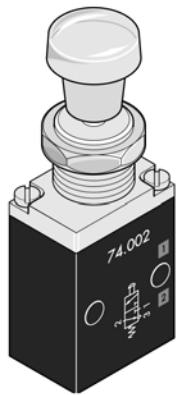
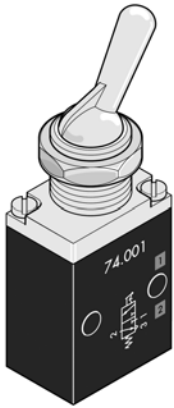
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# Miniature Valves

## Series 74 – 3 Way

Kuhnke Miniature Valves

### Modular Poppet Valves, Manually and Mechanically Operated



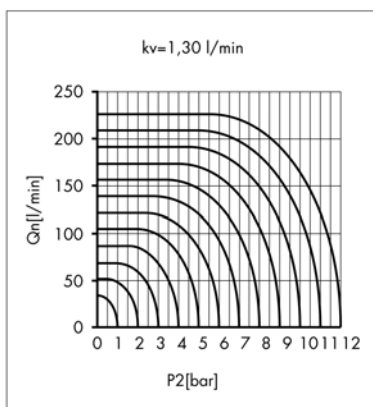
Series 74 valves feature a space saving modular design. Valve bodies take up less than one cubic inch of space and are constructed of a rugged zinc alloy.

Seven types of actuators provide this valve family with wide application possibilities. All designs have low actuation forces and can be applied on systems up to 175 PSI. Valves have a 3 way poppet design, with 10-32 (M5) ports. The exhaust port (3) is internal and non accessible.

All valve bodies can be mounted using (2) 3/16" through body holes; toggle, pushbutton and joystick operators can be panel mounted in a 1/2" diameter hole.

### Technical Specifications

Flow in Bars and Liters per Minute



(1 Bar = 14.5 PSI; 1 Liter = .03531 cubic feet)

**Operating Pressure:**

0 to 175 PSI

**Vacuum:**

Up to 90%, consult factory with specific application.

**Flow Rate:**

5.5 CFM @ 100 PSI  
2.8 CFM @ 45 PSI

**Cv / Kv:**

Cv - .1  
Kv - 1.3

**Orifice:**

2mm

**Connection:**

10-32 or M5 ports. Exhaust port 3 is non accessible.

**Media:**

Filtered air

**Actuation:**

Mechanical force required depends on system pressure. (1.75 lbs. @ 90 PSI). Spring assisted return.

**Materials:**

Zinc alloy housing, buna N seals, brass plunger, polyamide guide.

**Average Mechanical Life:**

100 million operations

**Operating Ambient:**

-10°C to 60°C (12°F to 140°F)

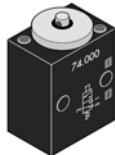
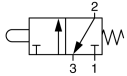
**Dimensions:**

Valve body- 1 3/32" L x 19/32" W x 5/8" H. For operator dimensions see valve description.

**Mounting:**

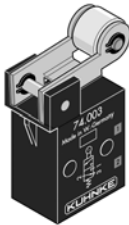
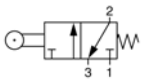
Valve body mounting holes (2) 3/16". Panel mounted types mount in a 1/2" diameter hole.

### 74000 Plunger Operated



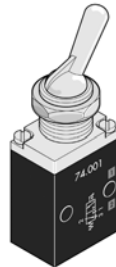
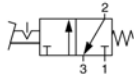
Plunger travel approximately 1/16", spring return. Actuation force at 90 PSI is 5.6 lbs. Used for end of travel applications. Dimension above valve body is 3/16". Weight 1.5 ozs. Can be face mounted via (2) M3 tapped holes.

### 74003 Roller Lever Operated



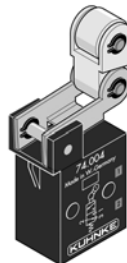
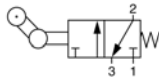
Used as pneumatic limit switch or position detector. Actuator travel 11/64" for valve operation. Actuation force approx. 2 lbs. Weight: 2 ozs. Dimension above valve body is 11/16". Body mount.

### 74001 Toggle Switch



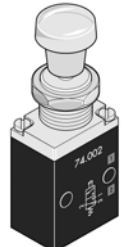
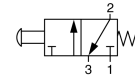
Two position toggle operated. Ideal for switching air supplies on small equipment. Valve can be panel mounted in a 1/2" dia. hole. Weight: 2 ozs. Above panel dimension: 1".

### 74004 1 Way Roller Lever Operated



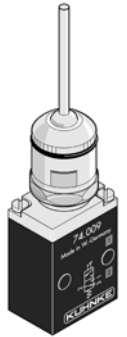
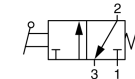
Limit switch operates valve only in one direction. Can be used for limiting travel on machinery. Actuator travels and force, same as 74003. Weight: 2 ozs. Dimension above valve body is 1 3/16". Body mount.

### 74002 Pushbutton



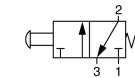
Pushbutton operated, (spring return). Used for momentary air pressure switching. Valve can be panel mounted in a 1/2" dia. hole. Weight 2 ozs. Above panel dimension 1".

### 74009 Joystick



Actuated by moving metal stick in any direction approx. 30°. Spring return to off. Air pilot provides low actuation force of 14.5 ozs. at 90 PSI. Valve can be panel mounted in a 1/2" dia. hole. Weight: 2.5 ozs. Above panel dimension 2 1/8".

### 74010-03 Valve for Oil-Tight Pushbuttons



Valve is designed for use with standard miniature size (7/8" dia.) pushbutton operators. Enables pneumatic switching to be combined with electromechanical switching on control consoles. Fits Moeller operators, see accessories. Weight (valve only): 2 .5 ozs.