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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.

Logic Valves and Flow Controls

Series 47

Kuhnke System Logic Devices

AND/OR Logic Valves



47002 AND Valve (Dual Pressure)

47003 OR (Shuttle) Valve

And valve opens when pressure is present at both inlet ports. **Or** valve opens when pressure is present at either inlet port. Design uses piston construction, providing smooth output flow.

Flow: 200 l/m @ 8 bar

Min. Op. Pressure: 1 bar

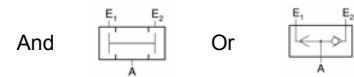
Through Body Mtg. Holes:

3.4mm dia. on 17mm centers.

Dimensions: 24mm H x 25mm W x 12mm D.

Ports: M5

Material: Anodized Aluminum Housing



Check Valve (Non Return)



47260

In line mounted, valve allows for flow in one direction only. Arrow on body shows direction of flow.

Flow: 225 l/m at 8 bar

Operation: Opens at 0.5 bar

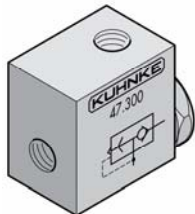
Dimensions: 21.5mm L x 9mm Hex.

Ports: M5

Material: Brass



Quick Exhaust Valve



47300

In line mounted, outlet port exhausts directly to atmosphere at loss of inlet pressure.

Dimensions:

18mm H x 21mm W x 12.5mm D.

Ports: M5

Material: Brass



Non Adjustable One Way Flow Control



47251- **

Mounts directly in port of valve or cylinder. Various fixed orifices reduce flow to a low and constant value. Check valve prevents flow in reverse direction.

Available with .10/.16/.25/.40/.60mm orifices. Add aperture size to catalogue number.

Flow @ 7 bar:

**** .10** – 0.34 l/m

**** .16** – 1.40 l/m

**** .25** – 3.40 l/m

**** .40** – 8.50 l/m

**** .60** – 19.8 l/m

Check Valve: opens at 0.5 bar

Dimensions: 28mm H. x 8mm Hex.

Ports: M5

Material: Brass



Adjustable Exhaust Flow Control

47200

Flow full open: 30 l/m @ 7 bar
13 l/m @ 3 bar
Dimensions: 14mm L x 8mm Hex.
Thread: M5
Material: Brass

For direct mounting on exhaust ports. Adjustable, equipped with locking nut to prevent tampering or loosening after setting is made.



Adjustable Flow Control

Brass 47220

Brass nickel plated 47220-01

Flow full open: 55 l/m @ 7 bar
24 l/m @ 3 bar
Dimensions: 40.5mm H x 12mm Hex.
Ports: M5
Material: Brass

Needle valve type flow control for direct mounting or panel mounting through a 8.5mm dia. hole. Equipped with mounting nut. The knurled adjustment knob for fine adjustment has screw driver slot and shaft is equipped with locking nut to prevent tampering after proper setting is made.

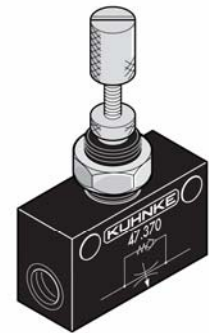


Adjustable One Way Flow Control

47370

Flow full open: 70 l/m @ 7 bar
28 l/m @ 3 bar
Check Valve: Opens at 0.5 bar
Dimensions: 39mm H x 25mm W x 10mm D.
Through Body Mounting Holes:
4.3mm dia. on 18mm centers.
Housing: Zinc alloy.
Ports: M5

Finger adjustable via knurled knob equipped with screw slot. Has lock nut to lock adjustment. Can be mounted with screws through body or panel mounted through a 8.5mm dia. hole.

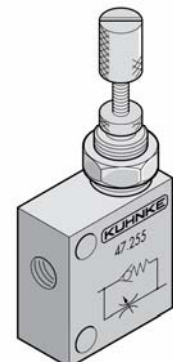


Brass Adjustable One Way Flow Control

47255

Flow full open: 75 l/m @ 7 bar
33 l/m @ 3 bar
Check Valve: Opens at 0.5 bar.
Dimensions: 47mm H x 20mm W x 10mm D.
Through Body Mounting Holes:
3.6mm dia. on 15mm centers.
Housing: Brass
Ports: M5

Finger adjustable via knurled knob equipped with screw slot. Has lock nut to lock adjustment. Can be mounted with screws through body or panel mounted through a 8.5mm dia. hole.



Logic Valves and Flow Controls

Series 47

Kuhnke System Logic Devices

Push-In Fittings with One Way Adjustable Flow Controls



For Inlet Ports:

47076 – 4x1 mm tubing, M5 thread

47091 – 6x1mm tubing, G1/8 thread

For Exhaust Ports:

47075 – 4x1 mm tubing, M5 thread

47090 – 6x1mm tubing, G1/8 thread

For direct mounting on cylinder or valve ports, with L-banjo type instant push-in fitting and captive adjusting screw.

Flow Full Open:

M5 – 80 l/m @ 7 bar

15 l/m @ 3 bar

G1/8 – 320 l/m @ 7 bar

50 l/m @ 3 bar

Dimensions:

M5- 23mm L x 6.5mm W x 21mm H

G1/8- 31.5mm L x 14mm W x 32mm H



Inlet



Exhaust

Barbed Fittings with One Way Adjustable Flow Controls



For Inlet Ports:

47071 - 5x1mm tubing, M5 thread

47081 - 6x1mm tubing, M5 thread

47086 - 6x1mm tubing, G1/8 thread

For Exhaust Ports:

47070 - 5x1mm tubing, M5 thread

47080 - 6x1mm tubing, M5 thread

47085 - 6x1mm tubing, G1/8 thread

For direct mounting on valve or cylinder ports, with captive adjusting screw and L-banjo type barb fitting.

Flow Full Open:

M5 - 3.35 CFM @ 100 PSI

1.4 CFM @ 45 PSI

G1/8 - 3.1 CFM @ 100 PSI

1.3 CFM @ 45 PSI

Dimensions:

M5- 18.5mm H x 6.5mm W x 21mm H

G1/8- 21mm H x 14.5mm W x 32mm H

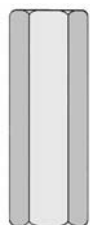


Inlet



Exhaust

Accessories for Flow Controls



47266 Protective Cover

Brass cover can be used to cap off adjustable flow controls, preventing tampering after adjustment is set.

Dimensions: 30mm H x 10mmHex.



38305 Flat Mounting Bracket

38306 L Shaped Mounting Bracket



Used to mount flow controls. Made from zinc plated sheet steel. Mounting holes are 3.5mm dia. on 18mm centers. "L" Bracket has a 9.5mm return flange.

Dimensions:

Flat – 23mm H x 25mm W.

L shape – 16mm H. x 25mm W
x 9.5mm D