

5/2-way valve, Pneumatic, »4A«, monostable, G 1/4 - Riegler 116055

Item no. RGL-116055

Manufacturer Riegler

EAN 4047322309585

5/2-way valve, Pneumatic, »4A«, monostable, G 1/4

TECHNICAL DATA

Betriebsdruck max [bar]	8.000000
Country of Manufacture	China
Flow rate [l/min]	850
Function	5/2
Medium	filtered compressed air with or without lubrication. If lubricated, then continuously.
Pneumatic connection	G1/4 IG
Size BG	200
Weight	0.145 kg
Zolltarifnummer	84818079



DESCRIPTION

5/2-way valve, Pneumatic, »4A«, monostable, G 1/4, Operating pressure 1.5 - 8 bar, Temperature range max. 70 °C 5/2-way pilot valves - Pneumatic -

TECHNICAL DATA

Min. operating pressure	1.5 bar
Max. operating pressure	8 bar
Max. temperature range	70 °C
Flow rate measurement	at P1 = 8 bar, P2 = 6 bar and pressure drop $\Delta p = 1$ bar
Valve body	aluminium alloy
Medium	filtered compressed air with or without lubrication. If lubricated, then continuous.
Control air port	G 1/8 IT
Connection	G 1/4 IT
Function	5/2
Operation	monostable
Flow rate	850 l/min
Exhaust connection	G 1/8 IT
Size	200

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STANDARDS AND ORIGIN

- Customs tariff number: 84818079
- Country of origin: CN

ABOUT VALVES PNEUMATICALLY OPERATED

Pneumatically actuated directional valves switch the air path via a pneumatic pilot signal, with no electrical components on the valve itself. They operate at up to 10 bar and cover nominal sizes from DN 5 to DN 15. This makes them the choice for cylinders, grippers and clamping units in circuits that are built entirely in pneumatics.

WHAT MATTERS WHEN CHOOSING

- The function defines the job the valve does in the circuit. 3/2 NC and 3/2 NO suit single-acting actuators, 5/2 suits double-acting cylinders, and 5/3 is used where the piston has to hold a mid position.
- Connections run from M5 IT through G 1/8 and G 1/4 up to G 1/2. Base the choice on the cross section of the supply line rather than on cylinder size alone.
- Flow rate ranges from 250 to 2000 l/min depending on size and determines how fast the connected cylinder travels. Sizes BG 100 to BG 400 give the practical sorting order.
- Maximum operating pressure is 8 or 10 bar. The lower limit goes down to -0.99 bar on part of the range, so those versions also work under vacuum.
- Series 70 comes as a standard version and as a low temperature version. Cold environments call for the low temperature build, which uses components selected for that duty.

TYPICAL APPLICATIONS

- Control of double-acting cylinders in assembly and handling equipment
- Clamping and gripping units in machine building, with the valve mounted inline or directly on the cylinder via adapter
- Manifold builds on multiple base plates and single interlocking plates where several valves share one supply
- Vacuum circuits, since the lower pressure limit of the range reaches -0.99 bar
- Cold environment applications covered by the low temperature version of Series 70

Sealing is NBR and the bodies are anodised aluminium, reaching IP 65 protection on the version rated for it. The medium is filtered compressed air with or without lubrication, and once lubrication is introduced it has to be maintained continuously.