

5/3-way valve, pneumatic, G 1/4, mid-position pressurised - Riegler 106513

Item no. RGL-106513

Manufacturer Riegler

EAN 4047322097307

5/3-way valve, pneumatic, G 1/4, mid-position pressurised

TECHNICAL DATA

Ausführungstyp	pneumatisch
Betriebsdruck max [bar]	10.000000
Country of Manufacture	Italy
Function	5/3
Medium	filtered compressed air with or without lubrication. If lubricated, then continuously.
Nominal size DN [mm]	7,5
Pneumatic connection	G1/4
Seal material	NBR
Series	Reihe 70
Weight	0.199 kg
Zolltarifnummer	84818079



STANDARDS & COMPLIANCE

ISO 8573-14.7.3

DESCRIPTION

5/3-way valve, pneumatic, G 1/4, mid-position pressurised, p=vacuum to 10 bar, control press. 2.5-10 bar, Temp. -10°C to 60°C, Alu Traditional way valves of series 70 in pneumatic version. These valves have a wide range of applications as bushing valves, direct mounting on the cylinder with special adapters or as series valves with multi-base plates and individual interlinking plates (supply strips).

TECHNICAL DATA

Min. operating pressure	-0.99 bar
Max. operating pressure	10 bar
Min. pilot pressure	2.5 bar
Max. pilot pressure	10 bar
Min. temperature range	-10 °C
Max. temperature range	60 °C
Flow rate measurement 1	flow rate at 6 bar and Δp 0.5 bar

Flow rate measurement 2	flow rate at 6 bar and Δp 1 bar
Sealant	NBR
Medium	filtered compressed air with or without lubrication. If lubricated, then continuous.
Required purity class in accordance w. ISO 8573-1	4.7.3
Series	series 70
Connection	G 1/4
Function	5/3
Operation	mid-position pressurised
Flow rate 1	750 NI/min
Flow rate 2	1100 NI/min
DN	7.5 mm
Version	pneumatic

STANDARDS AND ORIGIN

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

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.