

Proportional control valve »sentronic LP«, 24 V DC, G 1/4, DN 4 - Riegler 135885

Item no. RGL-135885

Manufacturer Riegler

EAN 4047322501262

Proportional control valve »sentronic LP«, 24 V DC, G 1/4, DN 4

TECHNICAL DATA

Betriebsdruck max [bar]	10.000000
Country of Manufacture	Germany
Flow rate [l/min]	470 l/min
Housing material	Aluminium
Material	Aluminium
Medium	Air or neutral gases, filtered 50 µm, lubricated or unlubricated
Nominal size DN [mm]	4
Pneumatic connection	G1/4
Seal material	NBR
Thread	G 1/4
Weight	0.464 kg
Working pressure max. [bar]	10
Zolltarifnummer	84818079



DESCRIPTION

Proportional control valve »sentronic LP«, 3-way design, with control circuit, 24 V DC, G 1/4, DN 4, Pressure range 0 - 10 bar Proportional valve for simple and efficient pressure regulation. With low space requirement, simple operation, modular design and modern software (see Downloads), the valve offers many options for optimising your processes. Digital communication and control technology. Low power consumption < 4 W through servo-assisted pilot valves. Other functions are diagnostics, parameterisation and service. Servo-assisted proportional valve, conforms to RoHS, REACH. The target value is preset via the electrical plug connection as a standard signal (0 - 10 V).

TECHNICAL DATA

Thread	G 1/4
DN	4 mm
Housing	aluminium
Sealant	NBR
Min. medium temperature	0 °C
Max. medium temperature	60 °C
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C

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Page 1/3

Operation	3-way valves
Min. working pressure	0 bar
Max. working pressure	10 bar
Internal parts	POM
Piloting	0 - 10 V
Electrical setpoint	0 - 10 V
B	52.0 mm
H	115.0 mm
Medium	air or neutral gases, filtered 50 µm, lubricated or unlubricated
Flow rate measurement	at P2 = 6 bar
Failsafe behaviour	maintenance of press. in case of loss of voltage-non control
Reproducibility	1 % FS
Hysteresis	1 % full scale
Flow rate	470 l/min

STANDARDS AND ORIGIN

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

ABOUT PROPORTIONAL CONTROL VALVES

Proportional valves set pressure or flow continuously from an electrical setpoint instead of only switching between open and closed. The group covers nominal sizes DN 1.2 to 8 mm on G 1/8, G 1/4 and G 3/8 threads. Some valves control pressure across 0 to 10 bar, others control flow.

WHAT MATTERS WHEN CHOOSING

- Decide on the controlled variable first: the pressure regulators are 3-way designs rated for a working pressure of 0 to 10 bar, the flow regulators are normally closed and are sized via the maximum differential pressure.
- DN 1.2 to 8 mm together with the flow rate of 470, 780 or 1750 l/min. Nominal size governs how much air passes when the valve is open and therefore the dynamics of the control loop.
- Thread G 1/8, G 1/4 or G 3/8 to suit the existing pipework. Within this group the larger nominal sizes come with the larger threads.
- Medium: part of the range is released for air, neutral gases, water and oil, the rest for air or neutral gases only, filtered to 50 µm, lubricated or unlubricated.
- Seal material FKM or NBR and housing in brass, aluminium or PA. FKM widens media compatibility, the housing material follows the installation environment and the permitted medium temperature of -10 to 0 °C at the low end and 50 to 90 °C at the top.

TYPICAL APPLICATIONS

- Electronic pressure control on test benches and measuring stations

- Force and clamping pressure control on pneumatic cylinders and fixtures
- Metering and flow control of air or neutral gases in process plant
- Control loops carrying water or oil where the selected version is released for it
- Setpoint driven systems with 24 V DC control and digital communication

Sealing is by FKM or NBR, housings are brass, aluminium or PA. Versions with a filter requirement need air preparation down to 50 µm, and production takes place in Germany, Poland, Hungary and the Netherlands.

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Page 3/3