

Filter regulator »Standard«, Protective cage, 40 µm, Size 4, G 1 - Riegler 174095

Item no. RGL-174095

Manufacturer Riegler

EAN 4047322658584

Filter regulator »Standard«, Protective cage, 40 µm, Size 4, G 1

TECHNICAL DATA

Condensate drain	semi-automatic
Control range max. [bar]	10
Country of Manufacture	Germany
Filter grade [µm]	40
Flow rate [l/min]	12000
Housing material	Aluminium, painted silver
Inlet pressure max. [bar]	16
Material	Aluminium, painted silver
Medium	Compressed air, neutral gases
Nominal size DN [mm]	25
Pneumatic connection	G1
Seal material	NBR
Series	Standard
Size BG	4
Thread	G 1
Weight	2.6 kg
Zolltarifnummer	84811005



DESCRIPTION

Filter regulator »Standard«, PC container, Protective cage, 40 µm, Size 4, G 1, PE max. 16 bar, 0.5 - 10 bar, pilot controlled Reversible diaphragm pressure regulators, independent of inlet pressure, with selfrelieving design, combined with a centrifugal separator.

TECHNICAL DATA

Thread	G 1
Gauge port size	G 1/4
Size	4
Max. input pressure	16 bar
Min. medium temperature	-10 °C
Max. medium temperature	60 °C
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C

Sealant	NBR
Flow rate	12000 l/min
Min. control range	0.5 bar
Max. control range	10 bar
Pressure gauge display min.	0 bar
Pressure gauge display max.	16 bar
Condensate drain	semi-automatic
DN	25 mm
Housing	aluminium, painted silver
Filter rating	40 µm
Bowl	polycarbonate container with protective cage
A	125.0 mm
C	129.0 mm
D	263.0 mm
Series	Standard
Flow rate measurement	at P1 = 8 bar, P2 = 6 bar and pressure drop $\Delta p = 1$ bar
Medium	compressed air, neutral gases

STANDARDS AND ORIGIN

- Customs tariff number: 84811005
- Country of origin: DE

ABOUT FILTER REGULATORS

A filter regulator combines particle separation and pressure control in one body, which saves a connection point in the air preparation unit. The range filters at 5 to 50 µm and regulates to outlet pressures between 1 and 17.5 bar. Permissible inlet pressure runs from 10 to 60 bar depending on version.

WHAT MATTERS WHEN CHOOSING

- Thread and DN: Ports run from G 1/8 to G 1, nominal bores from 5 to 25 mm. Thread size alone is not enough as a criterion, because only the nominal bore describes the actual flow cross section.
- Filter rating: 5 to 50 µm. The coarse end is enough for general tool and cylinder supply, finer elements protect sensitive valve technology and trade that against a higher pressure drop.
- Control range and inlet pressure: Lower limits lie between 0 and 1.7 bar, upper limits between 1 and 17.5 bar. The target working pressure should sit inside the range rather than at its edge, and the inlet pressure of 10 to 60 bar has to match the supply.
- Flow rate: Listed values run from 1000 to 15000 l/min. What counts is the peak demand of all downstream consumers, not their average.
- Condensate drain: Manual drain, hand drain valve, semi-automatic and fully automatic versions are available, including a normally closed type. Where the unit sits in a poorly accessible spot, the

fully automatic drain is the practical option.

TYPICAL APPLICATIONS

- Central air preparation unit ahead of valve manifolds and cylinders on a machine.
- Supply for pneumatic tools at assembly and workshop stations.
- Packaging and filling lines with fluctuating air demand.
- Paint and coating equipment that requires finely filtered, oil-free air.
- Test benches that need a stable outlet pressure independent of line pressure.

Documented sealing materials are NBR, PU with HNBR and FKM. Housing materials include PA66 GF60, technopolymer, zinc and aluminium die casting as well as stainless steel 1.4404 (AISI 316L) and 1.4401 (AISI 316). The 420 items belong to the FUTURA, SYNTESI, multifix, variobloc, GA and Standard series along with their mini sizes.