

Filter regulator »FUTURA-mini« PC container, Size 0, G 1/4, 0.1-4 - Riegler 142420

Item no. RGL-142420

Manufacturer Riegler

EAN 4047322556453

Filter regulator »FUTURA-mini« PC container, Size 0, G 1/4, 0.1-4

TECHNICAL DATA

Condensate drain	fully automatic
Control range max. [bar]	4
Country of Manufacture	Germany
Filter grade [µm]	5
Flow rate [l/min]	1000
Housing material	PA66 GF60
Inlet pressure max. [bar]	12
Material	PA66 GF60
Medium	Compressed air, neutral gases
Pneumatic connection	G1/4
Seal material	NBR
Series	FUTURA-mini
Size BG	0
Thread	G 1/4
Weight	0.252 kg
Zolltarifnummer	84811005



DESCRIPTION

Filter regulator »FUTURA-mini«, PC container, Compact pressure gauge, 5 µm, Size 0, G 1/4, Control range 0.1 - 4 bar, Fully-auto. Filter regulators with excellent flow rates in modern design. The regulator knob can be latched.

TECHNICAL DATA

Thread	G 1/4
Size	0
Min. input pressure	1.5 bar
Max. input pressure	12 bar
Min. temperature range	-10 °C
Max. temperature range	50 °C
Housing	PA66 GF60
Connecting thread	plastic
Sealant	NBR

Diaphragms	NBR
Filter element	cellpor (PE)
Filter rating	5 µm
Flow rate	1000 l/min
Condensate drain	fully-automatic
Min. control range	0.1 bar
Max. control range	4 bar
Pressure gauge display min.	0 bar
Pressure gauge display max.	6 bar
Bowl	polycarbonate container
A	43.0 mm
B	206.0 mm
C	63.0 mm
Series	FUTURA-mini
Medium	compressed air, neutral gases
Flow rate measurement	at P1 = 10 bar, P2 = 6.3 bar and pressure drop $\Delta p = 1$ bar

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.

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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.

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