

Filter regulator »variobloc« with PC container, Size 1, G 3/8 - Riegler 100658

Item no. RGL-100658

Manufacturer Riegler

EAN 4047322168632

Filter regulator »variobloc« with PC container, Size 1, G 3/8

TECHNICAL DATA

Condensate drain	Manually
Control range max. [bar]	10
Country of Manufacture	Germany
Filter grade [µm]	40
Flow rate [l/min]	3000
Housing material	Die-cast zinc
Inlet pressure max. [bar]	16
Material	Die-cast zinc
Pneumatic connection	G3/8
Seal material	NBR
Series	variobloc
Size BG	1
Thread	G 3/8
Weight	0.453 kg
Zolltarifnummer	84811005



DESCRIPTION

Filter regulator »variobloc«, PC container and pressure gauge, Size 1, G 3/8, Input pressure max. 16 bar, Control range 0.5-10 bar Reversible diaphragm pressure regulators, independent of inlet pressure, with self-relieving design, combined with a centrifugal separator. The pressure setting can be locked by pushing the knob down. Approved series in modern industrial design, with the following key benefits: - Simple handling - Convenient modular assembly thanks to innovative fasteners - Excellent flow values

TECHNICAL DATA

Thread	G 3/8
Size	1
Housing	die-cast zinc
Sealant	NBR
Diaphragms	NBR
Filter rating	40 µm
Max. medium temperature	50 °C

Max. ambient temperature	50 °C
Spring bonnet	POM
Condensate drain	manual
Min. control range	0.5 bar
Max. control range	10 bar
Pressure gauge display min.	0 bar
Pressure gauge display max.	10 bar
Flow rate	3000 l/min
Max. input pressure	16 bar
Bowl	polycarbonate container
A	48.0 mm
B	203.0 mm
C	68.0 mm
Series	variobloc
Flow rate measurement	at P1 = 10 bar, P2 = 6 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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