Filter pressure regulator, Series 653 G653APBK6GA00NN

General series information Series 653

The AVENTICS Series 653 is an easy-toinstall line of pneumatic filters, regulators and lubricators (FRLs) that offer the industry's highest flow rates and widest temperature ratings. Available in 1/2-inch, 3/4-inch, and 1-inch port sizes, these FRLs are ideal for automotive and tire, packaging, food and beverage, and process applications requiring highly reliable operation and robust, modern-looking equipment. Available with integrated redundant safe exhaust valve and IIoT enabled air flow sensor.



Technical data

Industry Parts Reservoir Port Nominal flow Qn Filter porosity Condensate drain Working pressure min. Working pressure max Min. ambient temperature Max. ambient temperature Regulation range min. Regulation range max. Type Type Industrial Filter pressure regulator Metal reservoir without window G 1 9000 l/min 5 µm semi-automatic, open without pressure 0 bar 20 bar -20 °C 50 °C 0.5 bar 16 bar 1-part Can be assembled into blocks



Hysteresis Medium

Medium temperature note

Weight

Material

Housing material Seal material Material front plate Material reservoir Material filter insert Material condensate drain Part No. 0,4 bar Compressed air Neutral gases Extended temperature range min./max. (optional) -40 °C ... 80 °C 1.56 kg

Aluminum Nitrile butadiene rubber Polyamide Aluminum Sintered bronze Plastic G653APBK6GA00NN

Technical information

Max. achievable compressed air class acc. to ISO 8573-1:2010 5 : 8 : 4 (5 μm filter porosity) und 6 : 8 : 4 (25 μm filter porosity)

Other filter porosities on request.

Nominal flow Qn at p1= 10 bar, p2= 6,3 bar and Δp = 1 bar

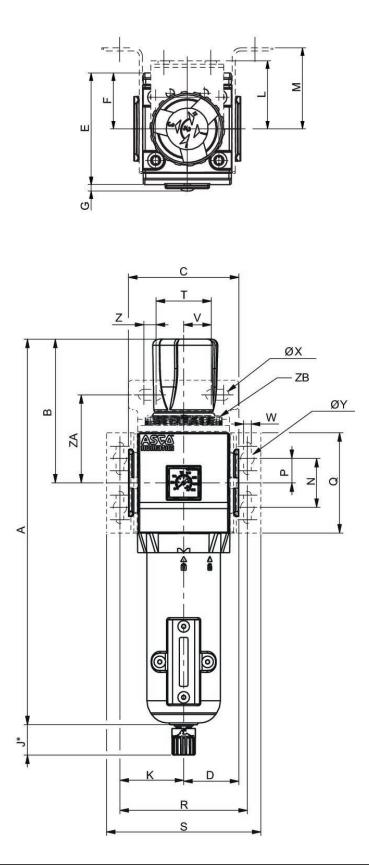
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



Dimensions

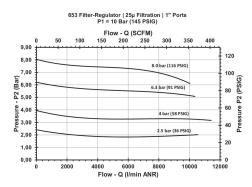


To remove the reservoir, allow a clearance of [[105] mm] from the bottom of the reservoir drain. *Variable dimension based on the type of drain specified, if an automatic drain is specified, add another [[5] mm] to the "J" dimension.

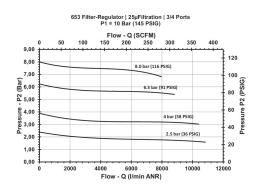


Series	653
А	329,5
В	132
С	90
D	45
E	93,6
F	46,2
G	2,7
Н	158,9
J	25
К	41,75
L	42
М	50
N	20
Р	10
Q	61,5
R	84
S	105,5
т	29
V	14,5
W	6,3
х	7
Y	11

Flow diagram G 1



Flow diagram G 3/4





Accessories overview

