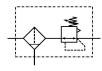
Filter pressure regulator, Series NL1-FRE

R412007619 2024-04-23

AVENTICS Series NL1 Air Preparation Units

The AVENTICS Series NL maintenance units are suitable for all areas: as individual components or as assembled maintenance units, for centralized or decentralized compressed air preparation, in compact or powerful versions, for use in high or low temperatures. This line offers a complete, customizable compressed air preparation technology. It includes an option to combine every component in the Series to achieve the desired function, making it possible to adjust the components precisely to the application requirements.





Technical data

Max. working pressure

Industry Industrial

Parts Filter pressure regulator

Reservoir reservoir, polycarbonate, without protective guard

16 bar

10 bar

Port G 1/4

Nominal flow Qn 1350 I/min

Filter porosity 5 µm

semi-automatic, open without pressure Condensate drain

without pressure gauge Pressure gauge

1.5 bar Min. working pressure

-30 °C Min. ambient temperature 50 °C Max. ambient temperature 0.5 bar Min. regulation range

Max. regulation range Lock type not lockable

Type 1-part

Type Can be assembled into blocks

Pressure supply single vertical Mounting orientation

Filter pressure regulator, Series NL1-FRE

NL1

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Regulator type Diaphragm-type pressure regulator

Regulator function with relieving air exhaust

Filter element exchangeable

Filter reservoir volume

16 cm³

Max. achievable compressed air class acc. to
6:7:-

ISO 8573-1:2010

Medium Compressed air

Neutral gases

Weight 0.334 kg

Material

Housing material Die cast zinc

Seal material Acrylonitrile butadiene rubber

Material front plate Acrylonitrile butadiene styrene

Material threaded bushing Die cast zinc
Material reservoir Polycarbonate
Material filter insert Polyethylene
Part No. R412007619

Technical information

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

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

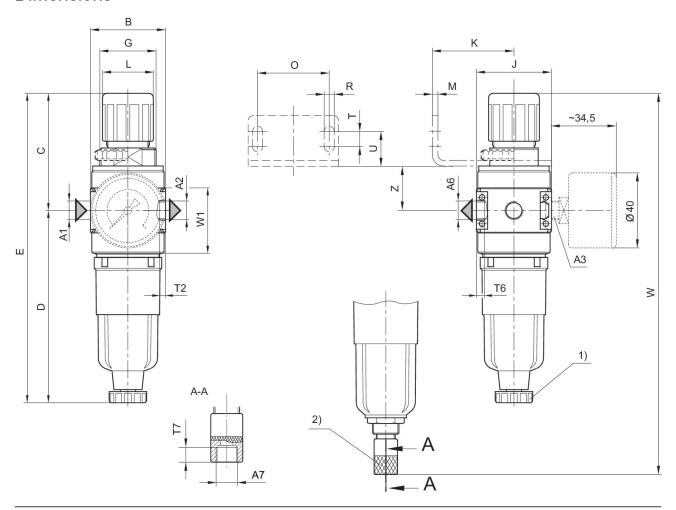
Also suitable for separation of fluid oil or water due to the design.

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Metal protective guard can be retrofitted for all polycarbonate reservoirs

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Dimensions



Dimensions in mm

Part No.	A1	A2	A3	A6	A7	В	С	D	Е
R412007618	G 1/8	40	62.5	102.5	165				
R412007619	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165

Part No.	G		К		М	0	R		T2
R412007618	M30x1,5	40	43.5	27	3	38	5.4	8	8
R412007619	M30x1,5	40	43.5	27	3	38	5.4	8	8

Part No.	T6	T7	U	W	W1	Z
R412007618	6	8.5	18.5	203	44	24.5
R412007619	6	8.5	18.5	203	44	24.5

A1 = input A2 = output A3 = output A6 = output

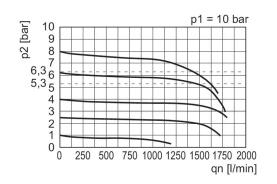
A7 = condensate drain

1) Semi-automatic condensate drain 2) fully automatic condensate drain

Filter pressure regulator, Series NL1-FRE

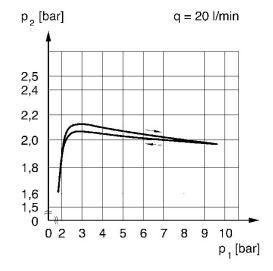
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Flow rate characteristic, p2 = 0,05 - 7 bar



p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Pressure characteristics curve



p1 = working pressure p2 = secondary pressure q = flow rate