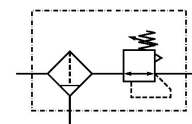


AVENTICS Series NL1 Air Preparation Units

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

Industry

Note

Parts

Reservoir

Port

Nominal flow Qn

Filter porosity

Condensate drain

Pressure gauge

Min. working pressure

Max. working pressure

Min. ambient temperature

Max. ambient temperature

Min. regulation range

Max. regulation range

Lock type

Type

Type

Pressure supply

Industrial

Archive product: Do not use in new constructions!

Filter pressure regulator

reservoir, polycarbonate, without protective guard

G 1/8

1350 l/min

5 µm

semi-automatic, open without pressure

without pressure gauge

1.5 bar

16 bar

-30 °C

50 °C

0.5 bar

10 bar

not lockable

1-part

Can be assembled into blocks

single

Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	16 cm ³
Max. achievable compressed air class acc. to ISO 8573-1:2010	6 : 7 : -
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.	R412007618

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 Q_n with secondary pressure p₂ = 6 bar at Δp = 1 bar

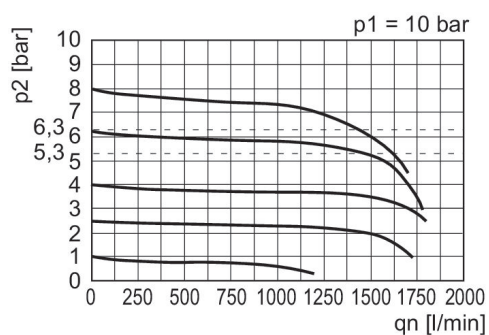
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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).

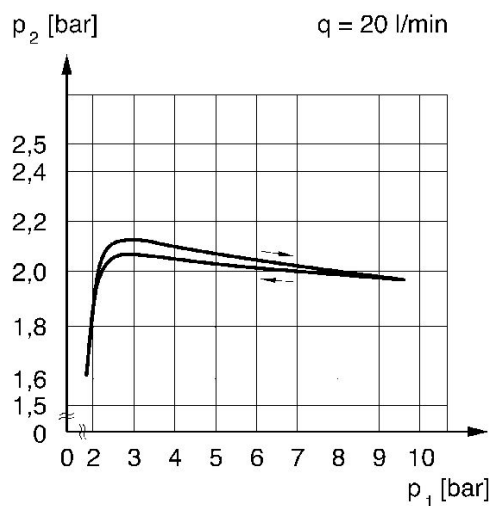
Metal protective guard can be retrofitted for all polycarbonate reservoirs

Flow rate characteristic, $p_2 = 0,05 - 7$
bar



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

Pressure characteristics curve



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

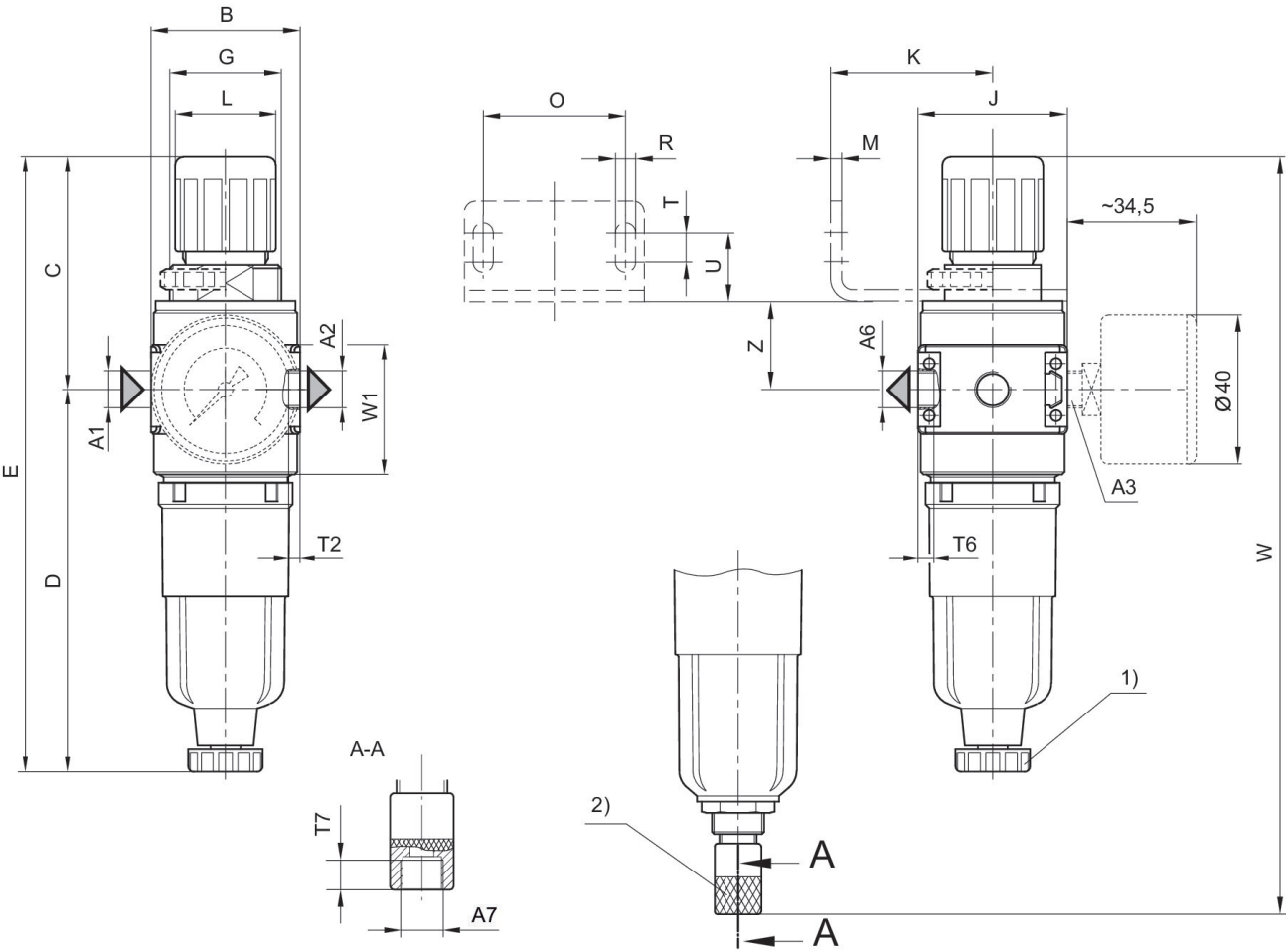
Filter pressure regulator, Series NL1-FRE

R412007618

NL1

2026-03-19

Dimensions



A1 = input A2 = output
A3 = output A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain 2) fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A3	A6	A7	B	C	D	E	G
R412007618	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165	M30x1,5
R412007619	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165	M30x1,5

Part No.	J	K	L	M	O	R	T	T2	T6	T7
R412007618	40	43.5	27	3	38	5.4	8	8	6	8.5
R412007619	40	43.5	27	3	38	5.4	8	8	6	8.5

Part No.	U	W	W1	Z
R412007618	18.5	203	44	24.5
R412007619	18.5	203	44	24.5