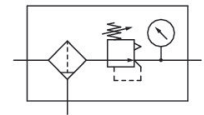


AVENTICS Series NL6 Air Preparation Units

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	Industrial
Parts	Filter pressure regulator
Reservoir	reservoir, polycarbonate, without protective guard
Port	G 1
Nominal flow Qn	15000 l/min
Filter porosity	40 µm
Condensate drain	semi-automatic, open without pressure
Pressure gauge	without pressure gauge
Min. working pressure	1.5 bar
Max. working pressure	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Min. regulation range	0.5 bar
Max. regulation range	10 bar
Lock type	Standard locking, with key
Type	1-part
Type	Can be assembled into blocks
Pressure supply	single
Mounting orientation	vertical

Filter pressure regulator, Series NL6-FRE

NL6

0821300863

2024-04-24

Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Max. Internal air consumption	0.5 l/min
Filter element	exchangeable
Filter reservoir volume	125 cm ³
Max. achievable compressed air class acc. to ISO 8573-1:2010	7 : 7 : -
Medium	Compressed air Neutral gases
Weight	2.26 kg

Material

Housing material	Die-cast aluminum
Seal material	Acrylonitrile butadiene rubber
Material front plate	Acrylonitrile butadiene styrene
Material reservoir	Polycarbonate
Material filter insert	Polyethylene
Part No.	0821300863

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 $p_2 = 6$ bar at $\Delta p = 1$ bar

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

Pressure gauge enclosed separately

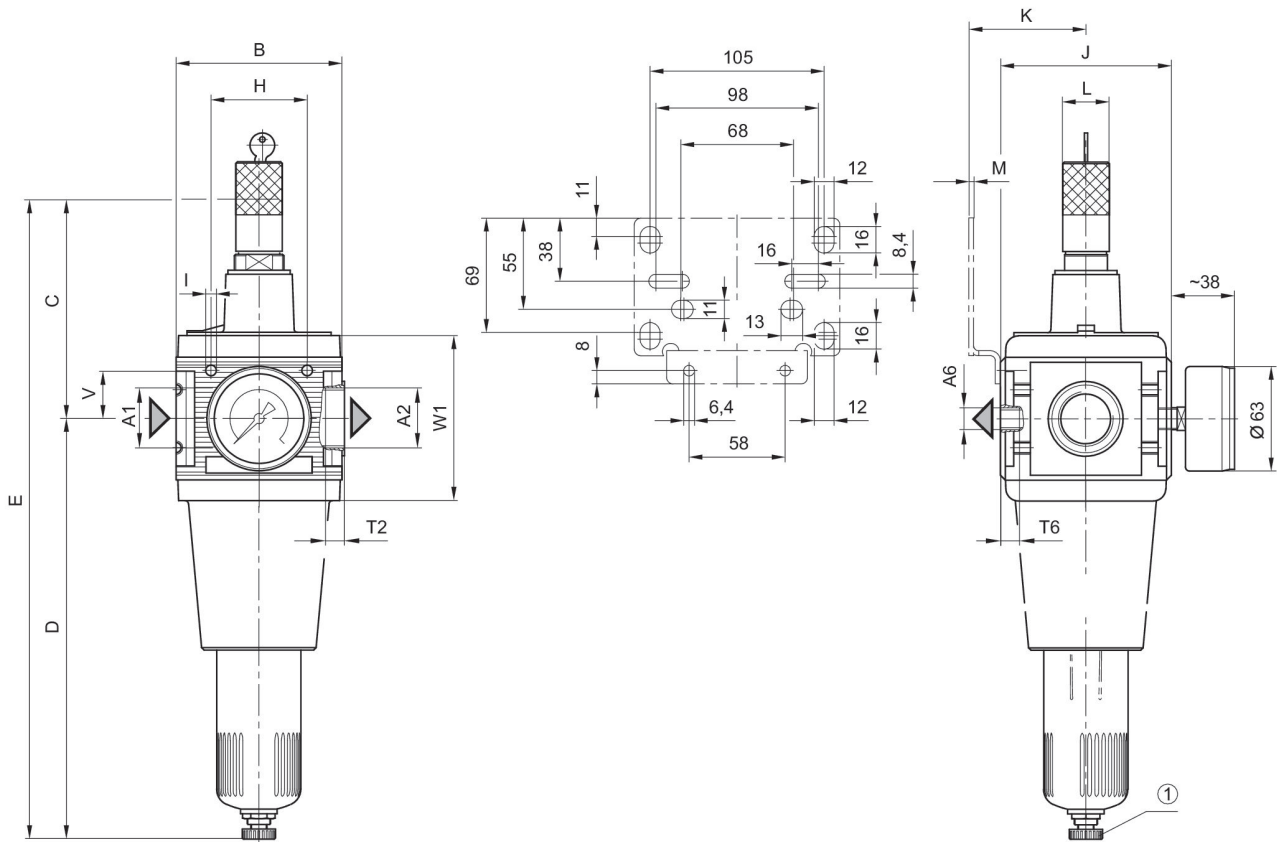
Filter pressure regulator, Series NL6-FRE

NL6

0821300863

2024-04-24

Dimensions



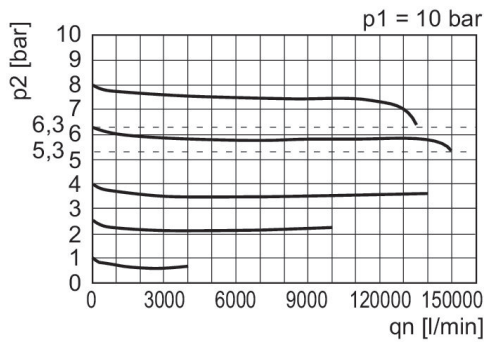
A1 = input A2 = output A6 = output
1) semi-automatic condensate drain

Dimensions in mm

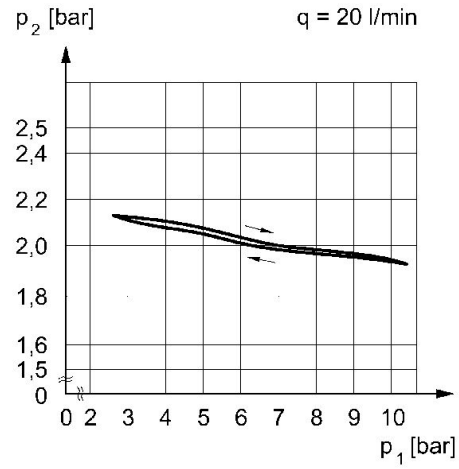
Part No.	A1	A2	A6	B	C	D	E	H	I
0821300862	G 3/4	G 3/4	G 1/4	100	157	253	410	58	M6
0821300863	G 1	G 1	G 1/4	100	157	253	410	58	M6

Part No.	J	K	L	M	T2	T6	V	W1
0821300862	103	70.5	28	3	18	7	29	101.5
0821300863	103	70.5	28	3	18	7	29	101.5

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



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow



p_1 = working pressure p_2 = secondary pressure q = flow rate