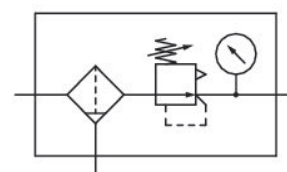


Filter pressure regulator, Series NL6-FRE

0821300860

General series information
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

Parts

Reservoir

Port

Nominal flow Q_n

Filter porosity

Condensate drain

Pressure gauge

Working pressure min.

Working pressure max

Min. ambient temperature

Max. ambient temperature

Regulation range min.

Regulation range max.

Industrial

Filter pressure regulator

reservoir, polycarbonate, with metal protective guard

G 1

15000 l/min

40 µm

fully automatic, open without pressure

with pressure gauge

1.5 bar

16 bar

-10 °C

60 °C

0.5 bar

10 bar

Lock type	not lockable
Type	1-part
Type	Can be assembled into blocks
Pressure supply	single
Mounting orientation	vertical
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	2.28 kg

Material

Housing material	Die-cast aluminum
Seal material	Acrylonitrile butadiene rubber
Material front plate	Acrylonitrile butadiene styrene
Material reservoir	Polycarbonate
Material protective guard	Steel
Material filter insert	Polyethylene
Part No.	0821300860

Technical information

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

Nominal flow Qn with secondary pressure p2 = 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.

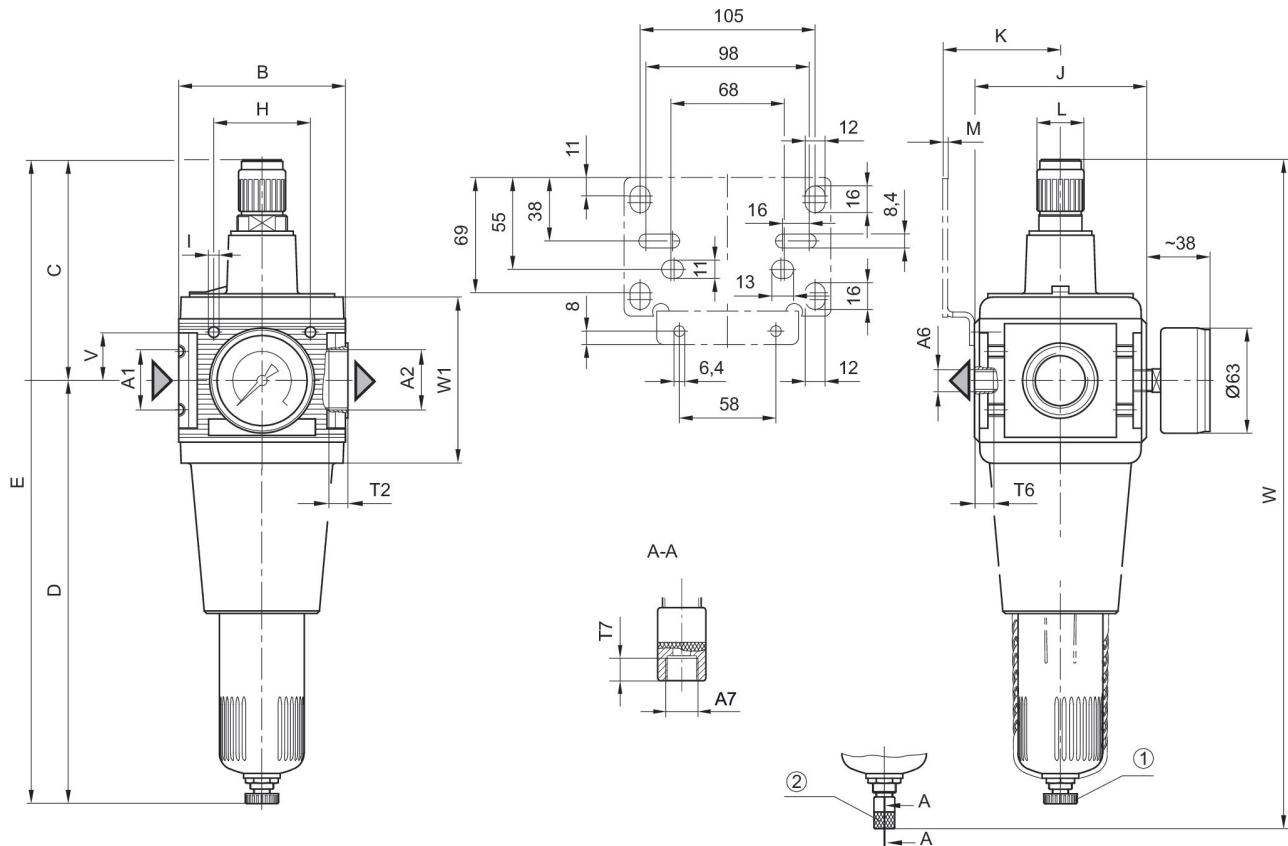
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Mounting: mounting bracket 1821336017 / block assembly kit 1827009593

Metal protective guard can be retrofitted for all polycarbonate reservoirs

Pressure gauge enclosed separately

Dimensions



A1 = input A2 = output A6 = output

A7 = condensate drain

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

Dimensions in mm

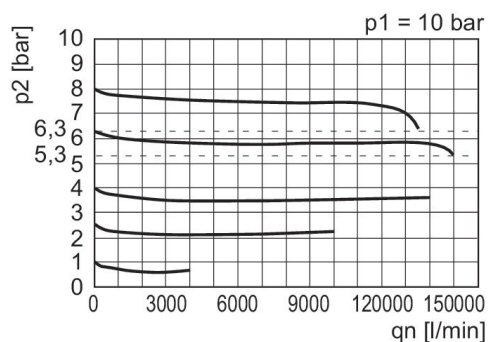
Part No.	A1	A2	A6	A7	B	C	D	E	H
0821300850	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300851	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300852	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300853	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300854	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300855	G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58
0821300856	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58
0821300857	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58
0821300858	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58
0821300859	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58
0821300860	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58
0821300861	G 1	G 1	G 1/4	G 1/8	100	132	253	385	58

Part No.	I	J	K	L	M	T2	T6	T7	V
0821300850	M6	103	70.5	28	3	18	7	8.5	29

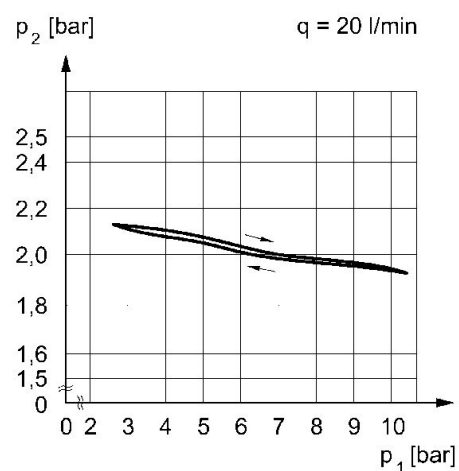
Part No.	I	J	K	L	M	T2	T6	T7	V
0821300851	M6	103	70.5	28	3	18	7	8.5	29
0821300852	M6	103	70.5	28	3	18	7	8.5	29
0821300853	M6	103	70.5	28	3	18	7	8.5	29
0821300854	M6	103	70.5	28	3	18	7	8.5	29
0821300855	M6	103	70.5	28	3	18	7	8.5	29
0821300856	M6	103	70.5	28	3	18	7	8.5	29
0821300857	M6	103	70.5	28	3	18	7	8.5	29
0821300858	M6	103	70.5	28	3	18	7	8.5	29
0821300859	M6	103	70.5	28	3	18	7	8.5	29
0821300860	M6	103	70.5	28	3	18	7	8.5	29
0821300861	M6	103	70.5	28	3	18	7	8.5	29

Part No.	W	W1
0821300850	403	101.5
0821300851	403	101.5
0821300852	403	101.5
0821300853	403	101.5
0821300854	403	101.5
0821300855	403	101.5
0821300856	403	101.5
0821300857	403	101.5
0821300858	403	101.5
0821300859	403	101.5
0821300860	403	101.5
0821300861	403	101.5

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



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



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