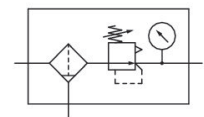


AVENTICS Series NL2 Air Preparation Units

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.

- Easy-to-assemble
- Manual, semi-automatic or fully-automatic condensate drains available
- Transparent reservoirs available
- Bayonet catches ensure easy maintenance



Technical data

Industry

Industrial

Note

Archive product: Do not use in new constructions!

Parts

Filter pressure regulator

Reservoir

reservoir, polycarbonate, without protective guard

Port

G 1/4

Nominal flow Qn

1650 l/min

Filter porosity

5 µm

Condensate drain

fully automatic, open without pressure

Pressure gauge

with pressure gauge

Min. working pressure

2 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
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm ³
Max. achievable compressed air class acc. to ISO 8573-1:2010	6 : 7 : -
Medium	Compressed air Neutral gases
Weight	0.628 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Material front plate	Acrylonitrile butadiene styrene
Material reservoir	Polycarbonate
Material filter insert	Polyethylene
Part No.	0821300312

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

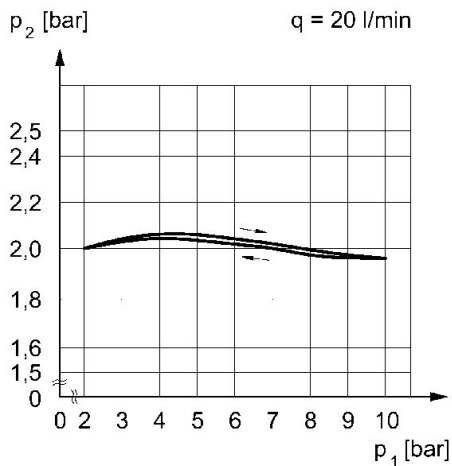
Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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.

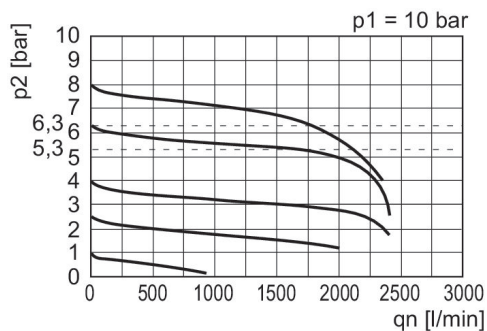
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Pressure characteristics curve



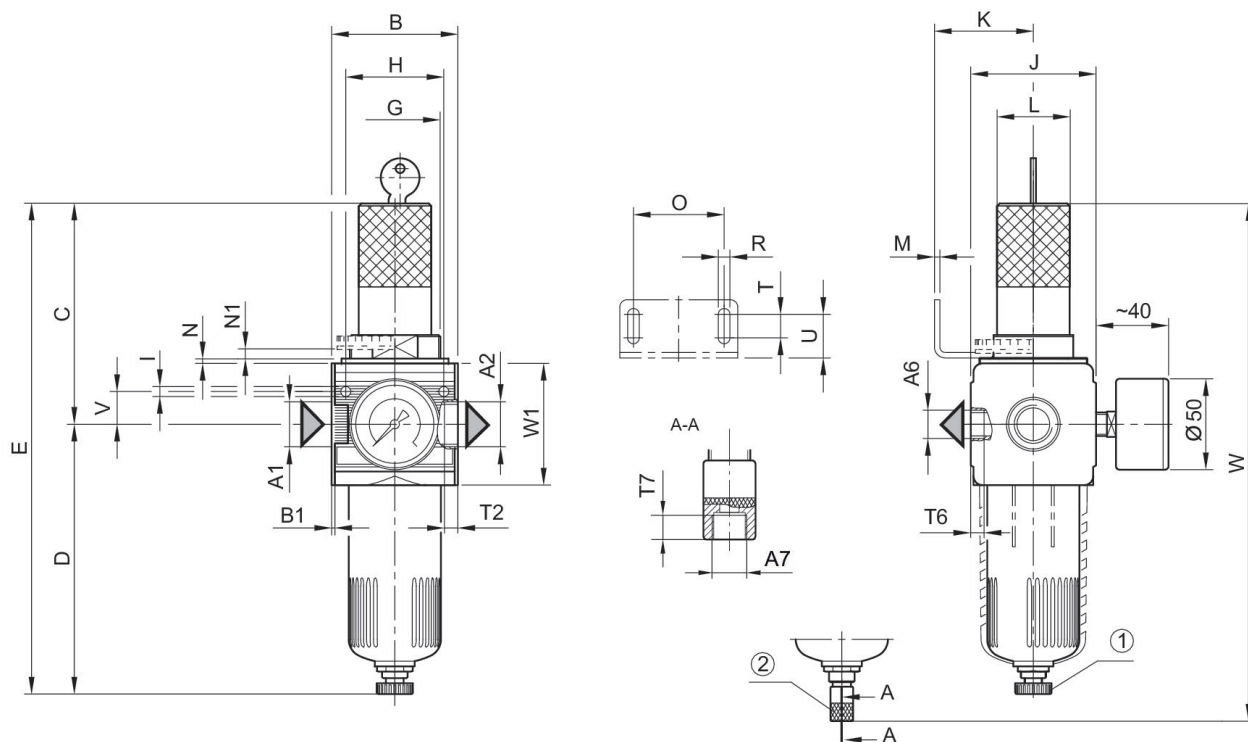
p_1 = working pressure p_2 = secondary pressure q = flow rate

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



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

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	B1	C	D	E	G
0821300306	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300220	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300221	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300312	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300222	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300223	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300336	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300224	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300226	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5
0821300228	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5

Part No.	H	I	J	K	L	M	N	N1	O	R
0821300306	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300220	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300221	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300312	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300222	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300223	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300336	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300224	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300226	36	4.4	47	43.5	28	3	3.5	3	38	5.4
0821300228	36	4.4	47	43.5	28	3	3.5	3	38	5.4

Part No.	T	T2	T6	T7	U	V	W	W1
0821300306	8	9.5	7	8.5	18.5	12.3	243	52
0821300220	8	9.5	7	8.5	18.5	12.3	243	52
0821300221	8	9.5	7	8.5	18.5	12.3	243	52
0821300312	8	9.5	7	8.5	18.5	12.3	243	52
0821300222	8	9.5	7	8.5	18.5	12.3	243	52
0821300223	8	9.5	7	8.5	18.5	12.3	243	52
0821300336	8	9.5	7	8.5	18.5	12.3	243	52
0821300224	8	9.5	7	8.5	18.5	12.3	243	52
0821300226	8	9.5	7	8.5	18.5	12.3	243	52
0821300228	8	9.5	7	8.5	18.5	12.3	243	52