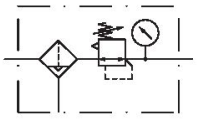
Filter pressure regulator, Series NL2-FRE

0821300308

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	semi-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	0.2 bar
Max. regulation range	6 bar
Type	1-part
Type	Can be assembled into blocks
Pressure supply	single
Mounting orientation	vertical

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Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Filter element	exchangeable
Filter reservoir volume	25 cm³
Max. achievable compressed air class acc. to ISO 8573-1:2010	6 : 7 : -
Medium	Compressed air Neutral gases
Weight	0.542 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.	0821300308

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

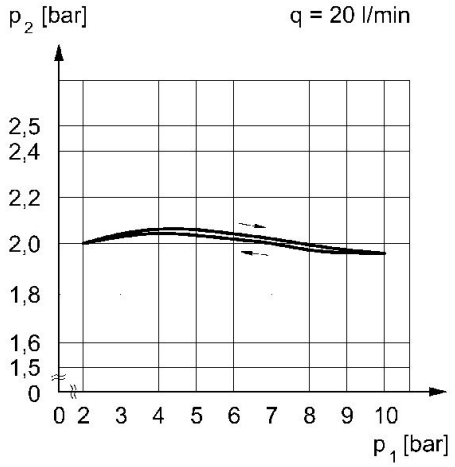
Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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.

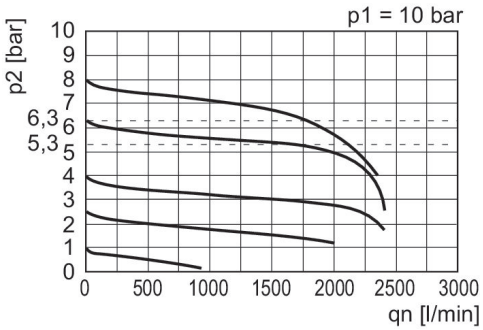
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Pressure characteristics curve



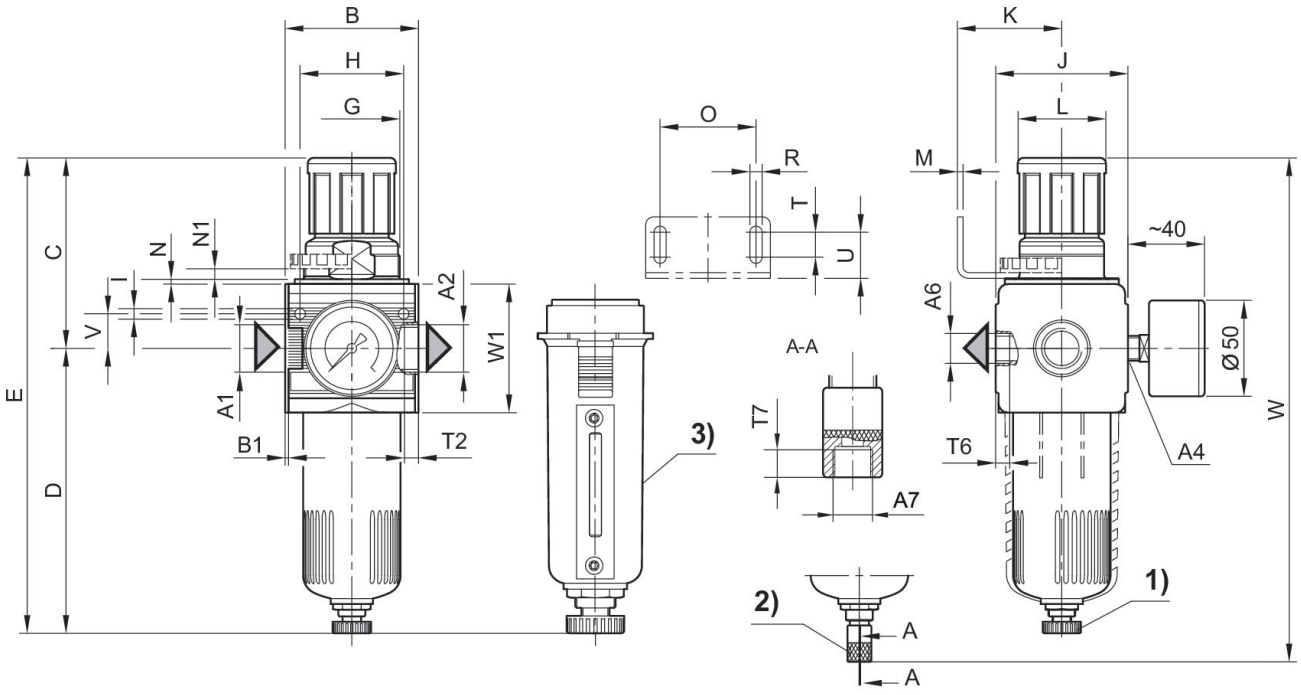
p1 = working pressure p2 = secondary pressure q = flow rate

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



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

Dimensions



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

Dimensions in mm

Part No.	A1	A2	A4	A6	A7	B	B1	C	D	E
0821300300	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300301	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300302	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300303	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300304	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300307	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300308	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300305	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300330	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300331	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300332	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300333	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300334	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191
0821300335	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5	191

Part No.	G	H	I	J	K	L	M	N	N1	O
0821300300	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300301	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300302	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300303	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300304	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300307	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300308	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300305	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300330	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300331	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300332	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300333	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300334	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38
0821300335	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38

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Part No.	R	T	T2	T6	T7	U	V	W	W1
0821300300	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300301	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300302	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300303	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300304	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300307	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300308	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300305	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300330	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300331	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300332	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300333	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300334	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52
0821300335	5.4	8	9.5	7	8.5	18.5	12.3	217.5	52