Pressure regulator, Series NL2-RGS

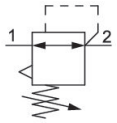
2024-04-23

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Series NL2

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
Function	Standard pressure regulator
Parts	Pressure regulator
Pressure gauge	without pressure gauge
Mounting orientation	Any
Regulator type	Diaphragm-type pressure regulator
Port	G 1/4
Nominal flow Qn	2000 l/min
Min. regulation range	0.5 bar
Max. regulation range	10 bar
Min. working pressure	0.5 bar
Max. working pressure	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	60 °C
Activation	Mechanical
Regulator function	with relieving air exhaust
Regulator type	Can be assembled into blocks
Pressure supply	single
Lock type	not lockable

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Medium	Compressed air Neutral gases
Recommended pre-filtering	5 µm
Weight	0.325 kg

Material

Housing material	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Seal material	Acrylonitrile butadiene rubber
Part No.	0821302401

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

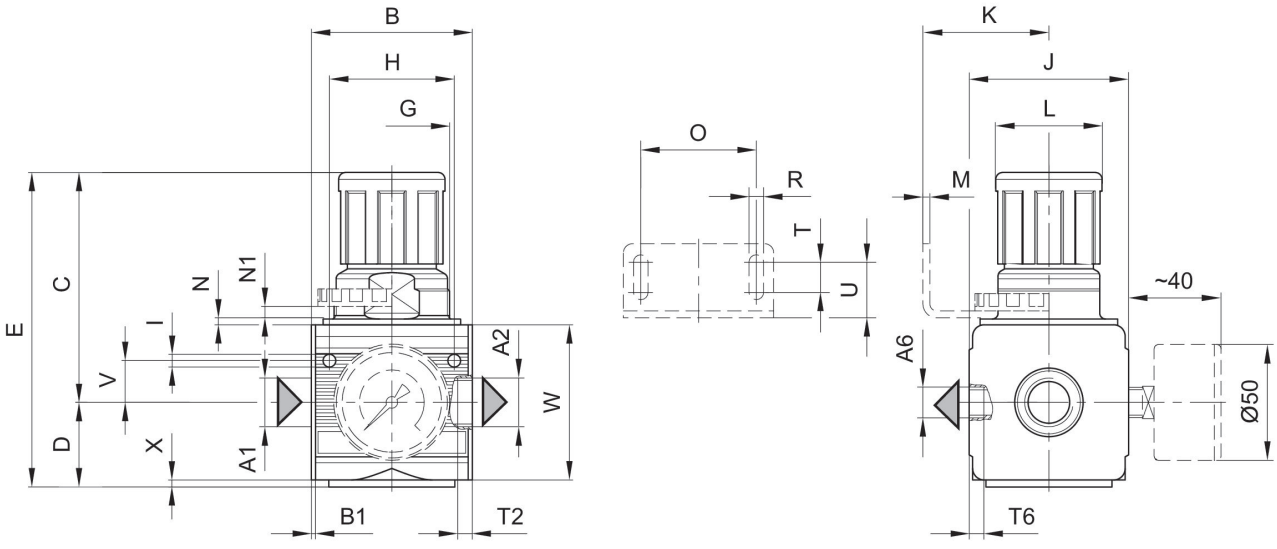
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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).

Relieving exhaust (≤ 0.3 bar over set pressure)

With rear exhaust (>3 bar)

Dimensions



A1 = input
A2 = output

A6 = output

Dimensions in mm

Part No.	A2	A6	B	B1	C	D	E	G	H
0821302404	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302560	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302400	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302451	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302452	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302440	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302405	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302406	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302401	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302444	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302453	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302441	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36

Part No.	I	J	K	L	M	N	N1	O	R
0821302404	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302560	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302400	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302451	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302452	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302440	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302405	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302406	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302401	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302444	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302453	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302441	4.4	47	43.5	28	3	3	3.5	38	5.4

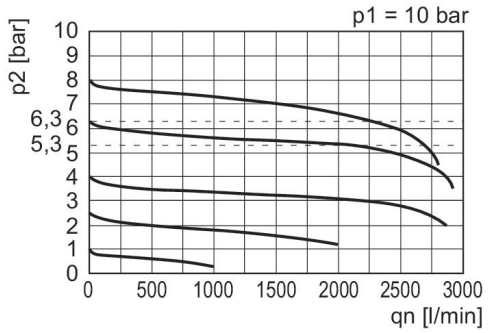
Part No.	T	T2	T6	U	V	W	X
0821302404	8	9.5	7	18.5	12.3	52	1
0821302560	8	9.5	7	18.5	12.3	52	1
0821302400	8	9.5	7	18.5	12.3	52	1
0821302451	8	9.5	7	18.5	12.3	52	1
0821302452	8	9.5	7	18.5	12.3	52	1
0821302440	8	9.5	7	18.5	12.3	52	1
0821302405	8	9.5	7	18.5	12.3	52	1
0821302406	8	9.5	7	18.5	12.3	52	1
0821302401	8	9.5	7	18.5	12.3	52	1
0821302444	8	9.5	7	18.5	12.3	52	1
0821302453	8	9.5	7	18.5	12.3	52	1
0821302441	8	9.5	7	18.5	12.3	52	1

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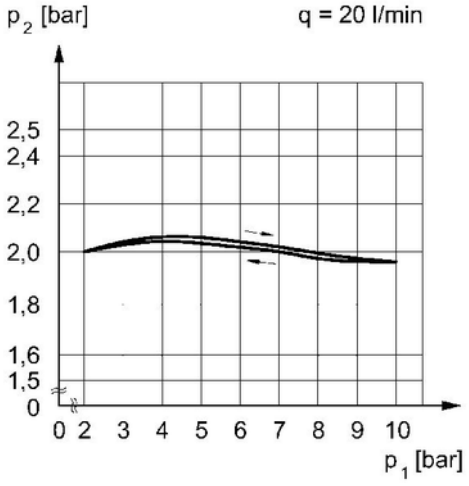
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Flow rate characteristic (setting range p2: 0.5 - 10 bar)



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

Pressure characteristics curve



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