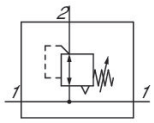
Precision pressure regulator, Series NL2-RGP-...-DS

2024-04-23

0821302528

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	Precision pressure regulator
Parts	Precision pressure regulator with continuous pressure supply
Pressure gauge	without pressure gauge
Mounting orientation	Any
Regulator type	Diaphragm-type pressure regulator
Port	G 1/4
Nominal flow Qn	1500 l/min
Min. regulation range	0.2 bar
Max. regulation range	6 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	double
Lock type	not lockable

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with continuous pressure supply	with continuous pressure supply
Max. internal air consumption q_v	2.6 l/min
Max. pressure gauge Ø in blocked state	50 mm
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.	0821302528

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

Order pressure gauge separately

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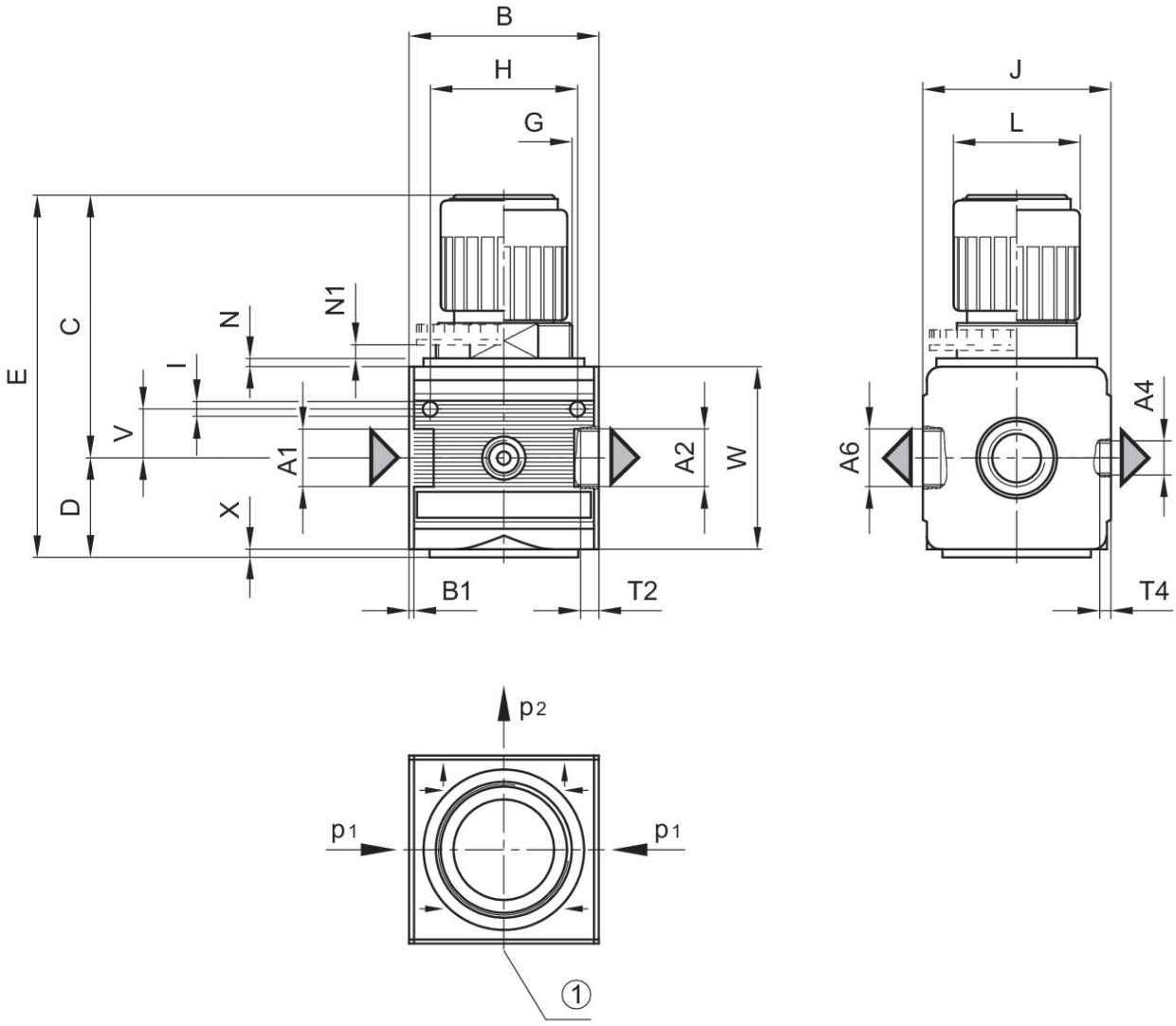
Dimensions



A1 = input A2 = output A6 = output
1) pressure gauge connection p1 = working pressure p2 = secondary pressure

Dimensions in mm

Part No.	A1	A2	A4	A6	B	B1	C	D	E
0821302527	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5
0821302528	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5
0821302529	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5

Part No.	G	H	I	J	L	N	N1	T2	T4
0821302527	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302528	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302529	M30x1,5	36	4.4	47	28	3	3.5	9.5	7

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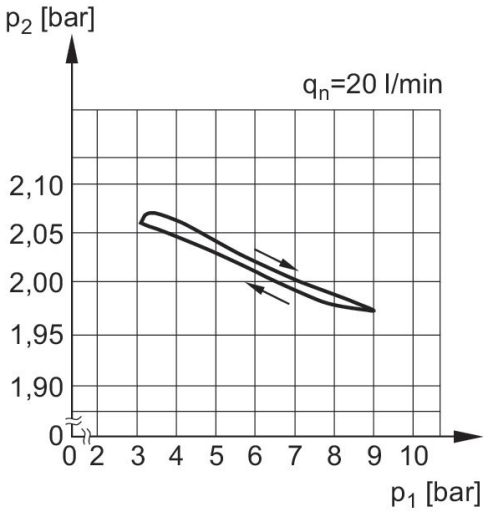
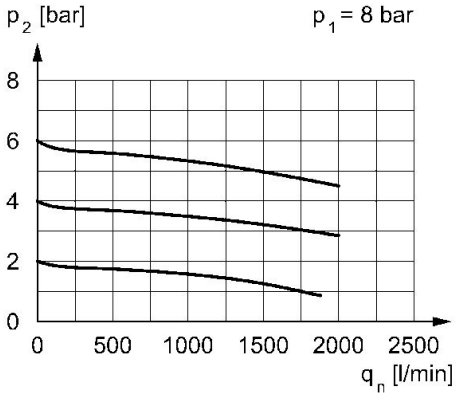
Part No.	V	W	X
0821302527	12.3	52	1
0821302528	12.3	52	1
0821302529	12.3	52	1

Pressure characteristics curve



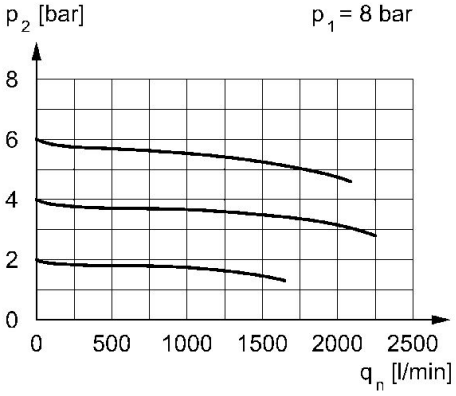
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



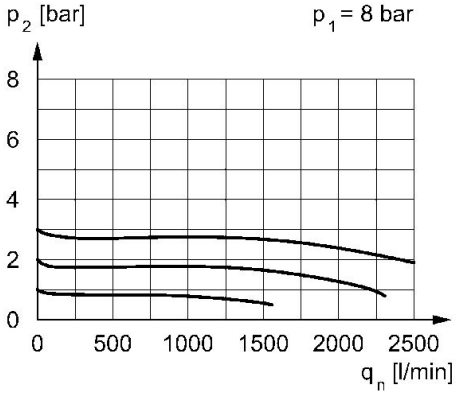
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,5 - 10 bar

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



p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,2 - 6 bar

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



p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,1 - 3 bar

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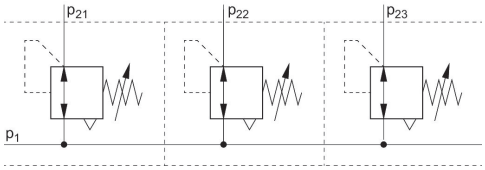
Application example



p1 = Working pressure