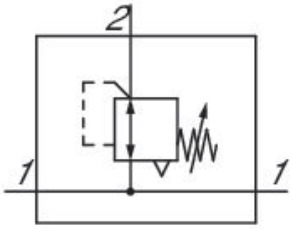
Pressure regulator, Series NL2-RGS-...-DS

0821302408

General series information
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 with continuous pressure supply
Port	G 1/4
Nominal flow Qn	2000 l/min
Pressure gauge	without pressure gauge
Mounting orientation	Any
Regulator type	Diaphragm-type pressure regulator
Regulation range min.	0.5 bar
Regulation range max.	10 bar
Working pressure min.	0.5 bar
Working pressure max	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
with continuous pressure supply	with continuous pressure supply
Medium	Compressed air Neutral gases
Recommended pre-filtering	5 µm
Max. pressure gauge Ø in blocked state	40 mm
Weight	0.325 kg

Material

Housing material	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Seal material	Acrylonitrile butadiene rubber
Part No.	0821302408

Technical information

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

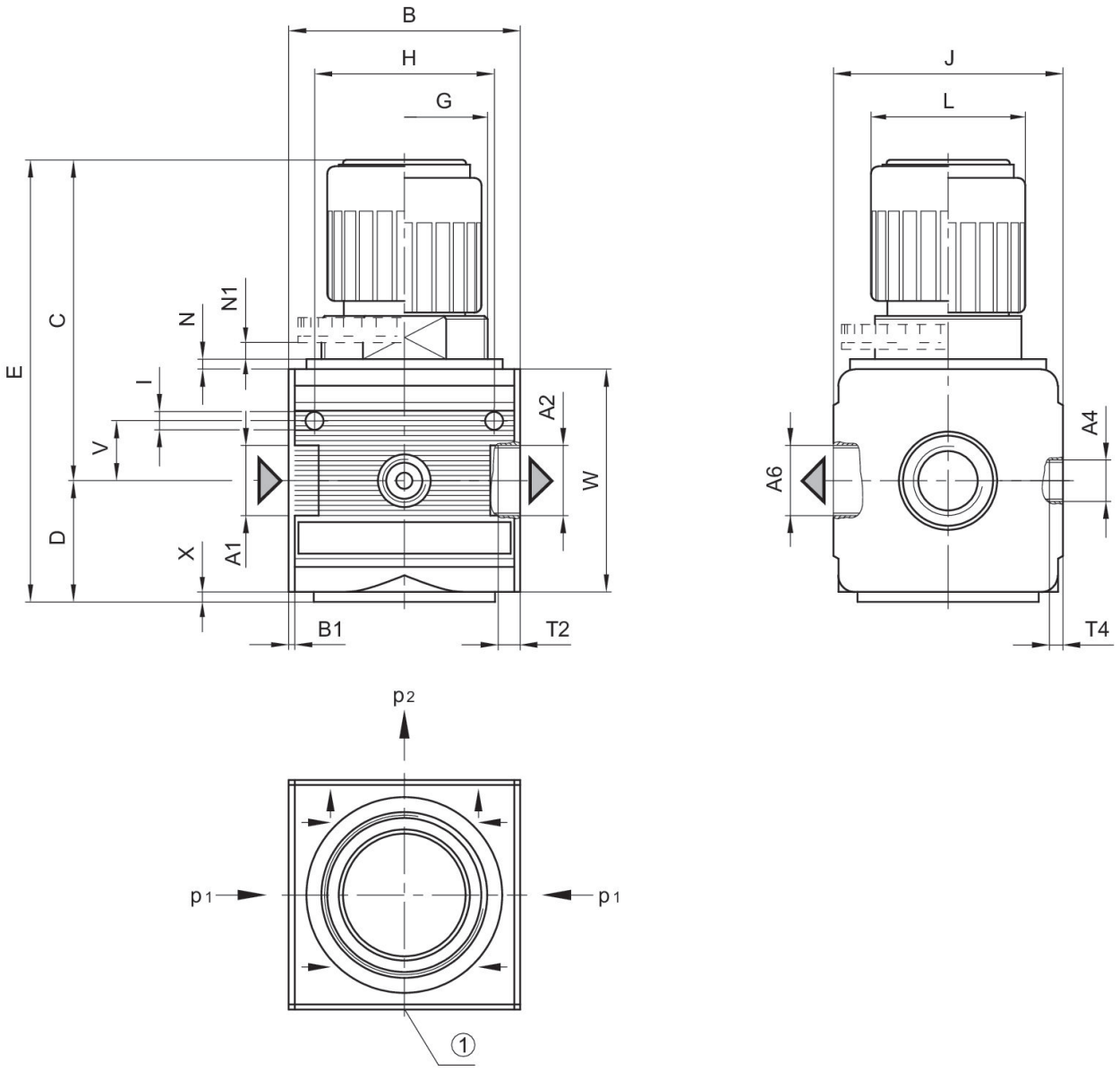
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

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
A4 = pressure gauge connection
A6 = ventilation port
1) pressure gauge connection p1 = working pressure p2 = secondary pressure

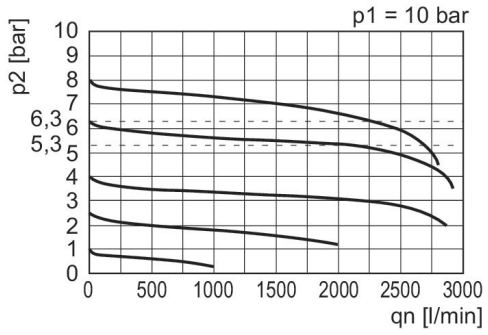
Dimensions in mm

Part No.	A1	A2	A4	A6	B	B1	C	D	E
0821302411	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98
0821302409	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98
0821302408	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98

Part No.	G	H	I	J	L	N	N1	T2	T4
0821302411	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302409	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302408	M30x1,5	36	4.4	47	28	3	3.5	9.5	7

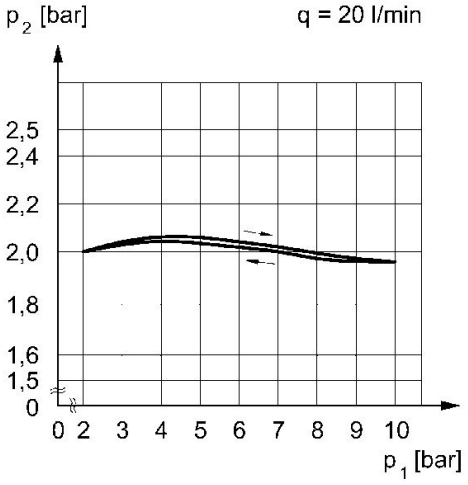
Part No.	V	W	X
0821302411	12.3	52	1
0821302409	12.3	52	1
0821302408	12.3	52	1

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



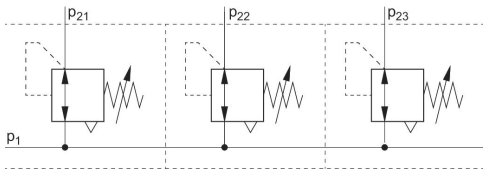
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure characteristics curve



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

Application example



p1 = Working pressure