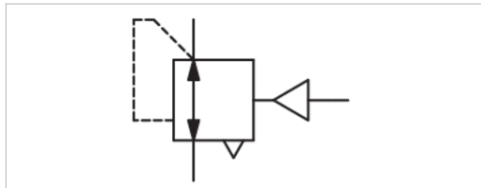


Pressure regulator, Series NL2-RGS

- G 1/4 G 3/8
- Qn = 2000 l/min
- Standard pressure regulator
- Activation Pneumatically
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0,5 ... 16 bar
Control pressure max.	10 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Regulator type	Diaphragm-type pressure regulator Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	0,5 ... 10 bar
Pressure supply	single
Activation	Pneumatically
Weight	0,325 kg

Technical data

Part No.	Port	Flow
		Qn
R412004950	G 1/4	2000 l/min
R412004951	G 3/8	2000 l/min

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar, Order pressure gauge separately

Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Suitable for use in Ex zones 1, 2, 21, 22

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.

Relieving exhaust (≤ 0.3 bar over set pressure)

With rear exhaust (> 3 bar)

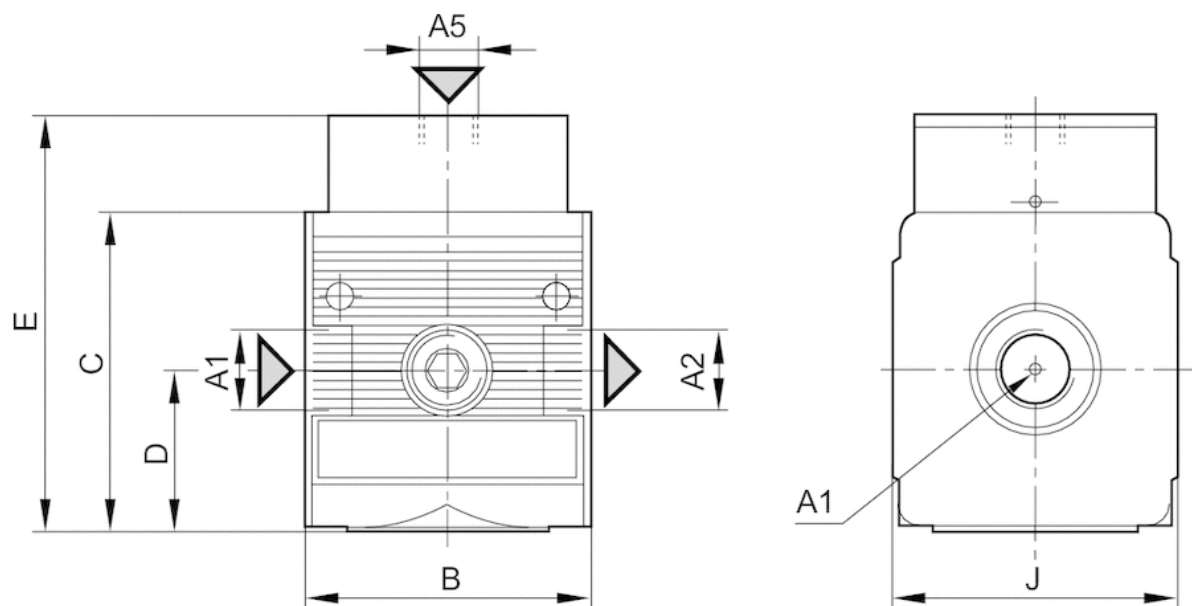
Recommended pre-filtering 5 μm

Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



A1 = input
A2 = output
A5 = control pressure connection

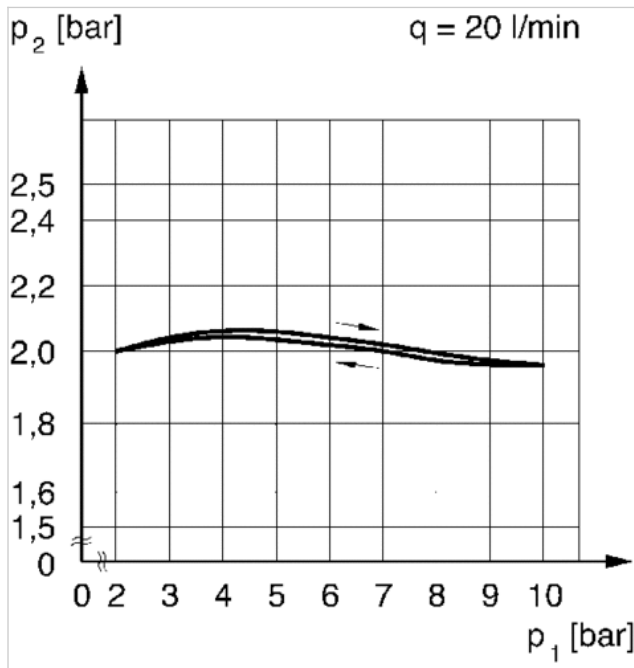
Dimensions in mm

A1	A2	A5	B	C	D	E	J
G 1/4	G 1/4	G 1/8	48	52.8	26.8	68.8	47
G 3/8	G 3/8	G 1/8	48	52.8	26.8	68.8	47



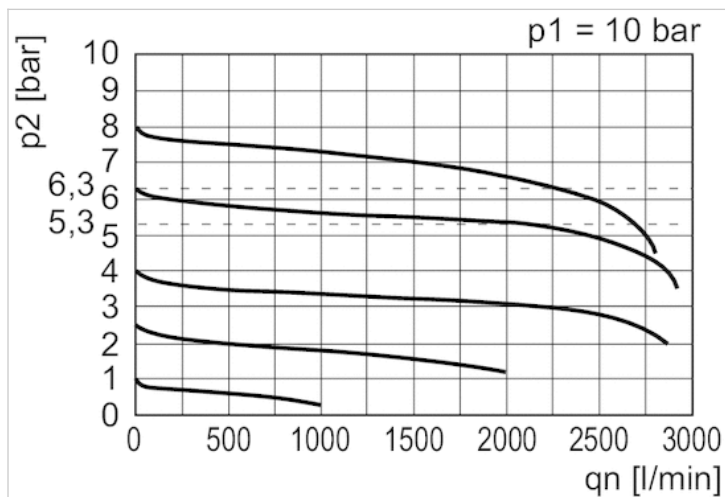
Diagrams

Pressure characteristics curve



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

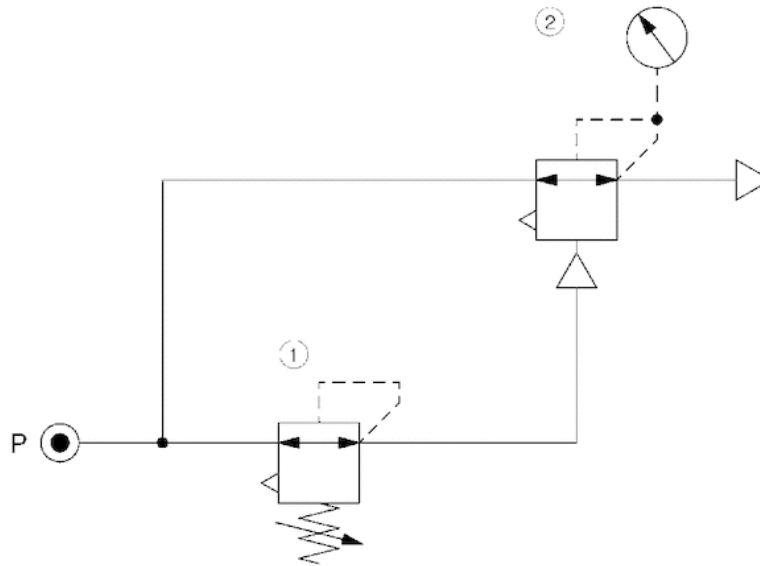
Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)



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

Circuit diagram

Application example



1) precision pressure regulator 2) pressure regulator valve, pneumatically operated