

# Pressure regulator, Series NL6-RGS

- G 3/4 G 1
- Qn = 15000 l/min
- Standard pressure regulator
- Activation Mechanical
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0,5 ... 20 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	Mechanical
Internal air consumption q max.	0,5 l/min
Weight	See table below

## Technical data

Part No.			Port	Flow	Pressure gauge	Weight	
				Qn			
0821302801		—	G 3/4	15000 l/min	-	1,46 kg	1)
0821302803			G 3/4	15000 l/min	with pressure gauge	1,55 kg	2)
0821302802		—	G 1	15000 l/min	-	1,46 kg	1)
0821302804			G 1	15000 l/min	with pressure gauge	1,55 kg	2)

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

1) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

2) Pressure gauge enclosed 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 .

Mounting: mounting bracket 1821336017 / block assembly kit 1827009593

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).

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

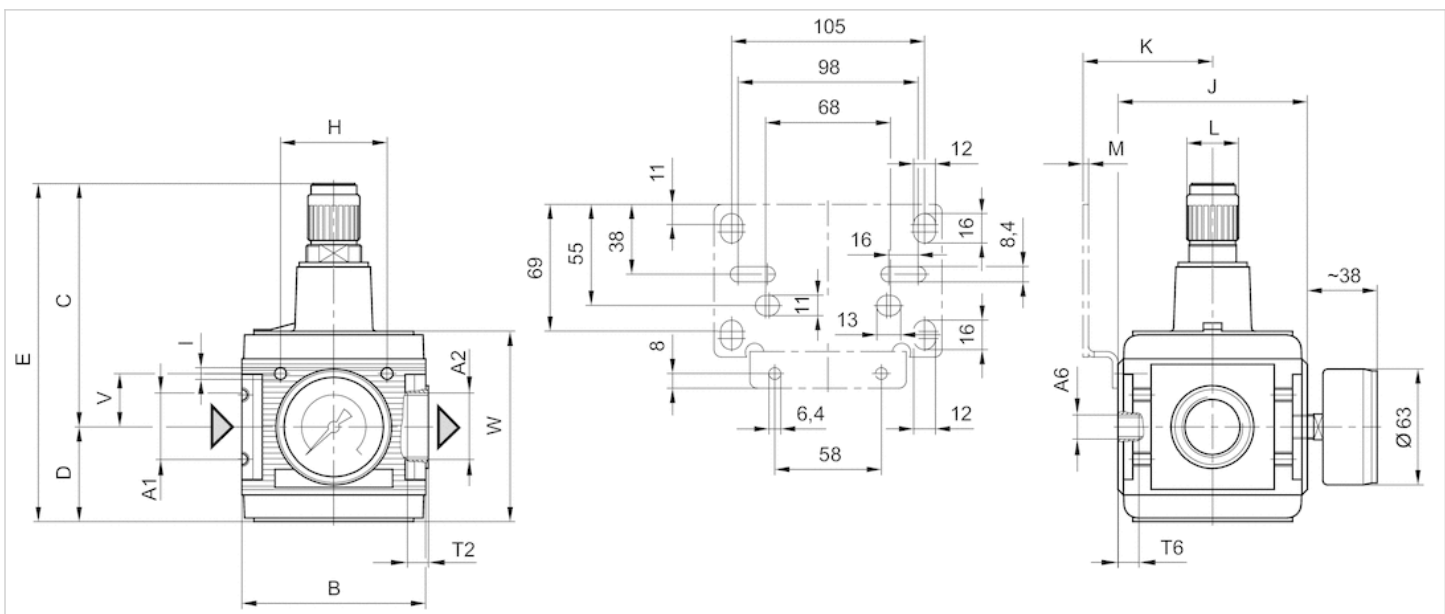
## Technical information

### Material

Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



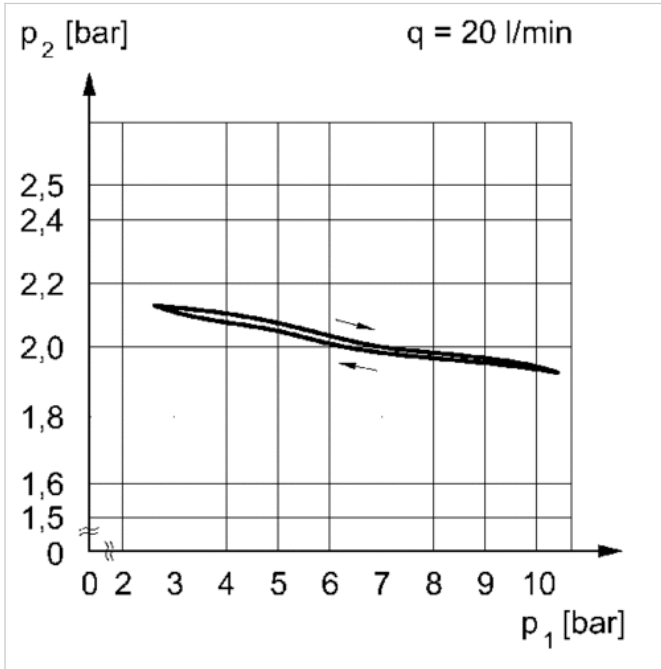
A1 = input A2 = output A6 = output

### Dimensions in mm

A1	A2	A6	B	C	D	E	H	I	J	K	L	M	T2	T6	V	W
G 3/4	G 3/4	G 1/4	100	132	51.5	183.5	58	M6	103	70.5	28	3	18	7	29	103.5
G 1	G 1	G 1/4	100	132	51.5	183.5	58	M6	103	70.5	28	3	18	7	29	103.5

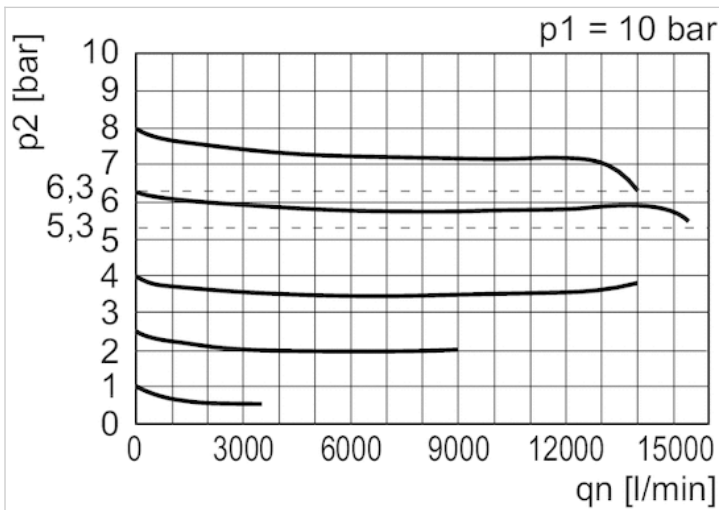
# Diagrams

## Pressure characteristics curve



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

## Flow rate characteristic (secondary range $p_2$ : 0.5 - 10 bar)



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