



















Pressure regulator, Series NL1-RGS

- G 1/8 G 1/4
- Qn = 1350 l/min
- Pressure regulator, high flow rate
- Activation Mechanical
- suitable for ATEX



| | |
|-------------------------------|--|
| Parts | Pressure regulator |
| Mounting orientation | Any |
| Certificates | suitable for ATEX |
| Working pressure min./max. | 0,5 ... 16 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. | See table below |
| Pressure supply | single |
| Activation | Mechanical |
| Weight | See table below |

Technical data

| Part No. | | | Port | Flow | Adjustment range min./max. | Pressure gauge |
|------------|---|---|-------|------------|----------------------------|---------------------|
| | | | | Qn | | |
| 0821302708 |  |  | G 1/8 | 1350 l/min | 0,1 ... 3 bar | with pressure gauge |
| 0821302709 |  |  | G 1/8 | 1350 l/min | 0,2 ... 6 bar | with pressure gauge |
| 0821302710 |  |  | G 1/8 | 1350 l/min | 0,5 ... 10 bar | with pressure gauge |
| 0821302705 |  | — | G 1/8 | 1350 l/min | 0,1 ... 3 bar | - |
| 0821302706 |  | — | G 1/8 | 1350 l/min | 0,2 ... 6 bar | - |
| 0821302707 |  | — | G 1/8 | 1350 l/min | 0,5 ... 10 bar | - |
| 0821302714 |  |  | G 1/4 | 1350 l/min | 0,1 ... 3 bar | with pressure gauge |
| 0821302715 |  |  | G 1/4 | 1350 l/min | 0,2 ... 6 bar | with pressure gauge |
| 0821302716 |  |  | G 1/4 | 1350 l/min | 0,5 ... 10 bar | with pressure gauge |
| 0821302711 |  | — | G 1/4 | 1350 l/min | 0,1 ... 3 bar | - |
| 0821302712 |  | — | G 1/4 | 1350 l/min | 0,2 ... 6 bar | - |
| 0821302713 |  | — | G 1/4 | 1350 l/min | 0,5 ... 10 bar | - |

| Part No. | Weight |
|------------|----------|
| 0821302708 | 0,314 kg |
| 0821302709 | 0,314 kg |
| 0821302710 | 0,314 kg |
| 0821302705 | 0,26 kg |
| 0821302706 | 0,26 kg |
| 0821302707 | 0,26 kg |
| 0821302714 | 0,314 kg |
| 0821302715 | 0,314 kg |
| 0821302716 | 0,314 kg |

| Part No. | Weight |
|------------|---------|
| 0821302711 | 0,26 kg |
| 0821302712 | 0,26 kg |
| 0821302713 | 0,26 kg |

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

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.

Relieving exhaust (≤ 0.3 bar over set pressure).

With rear exhaust (> 3 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).

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.

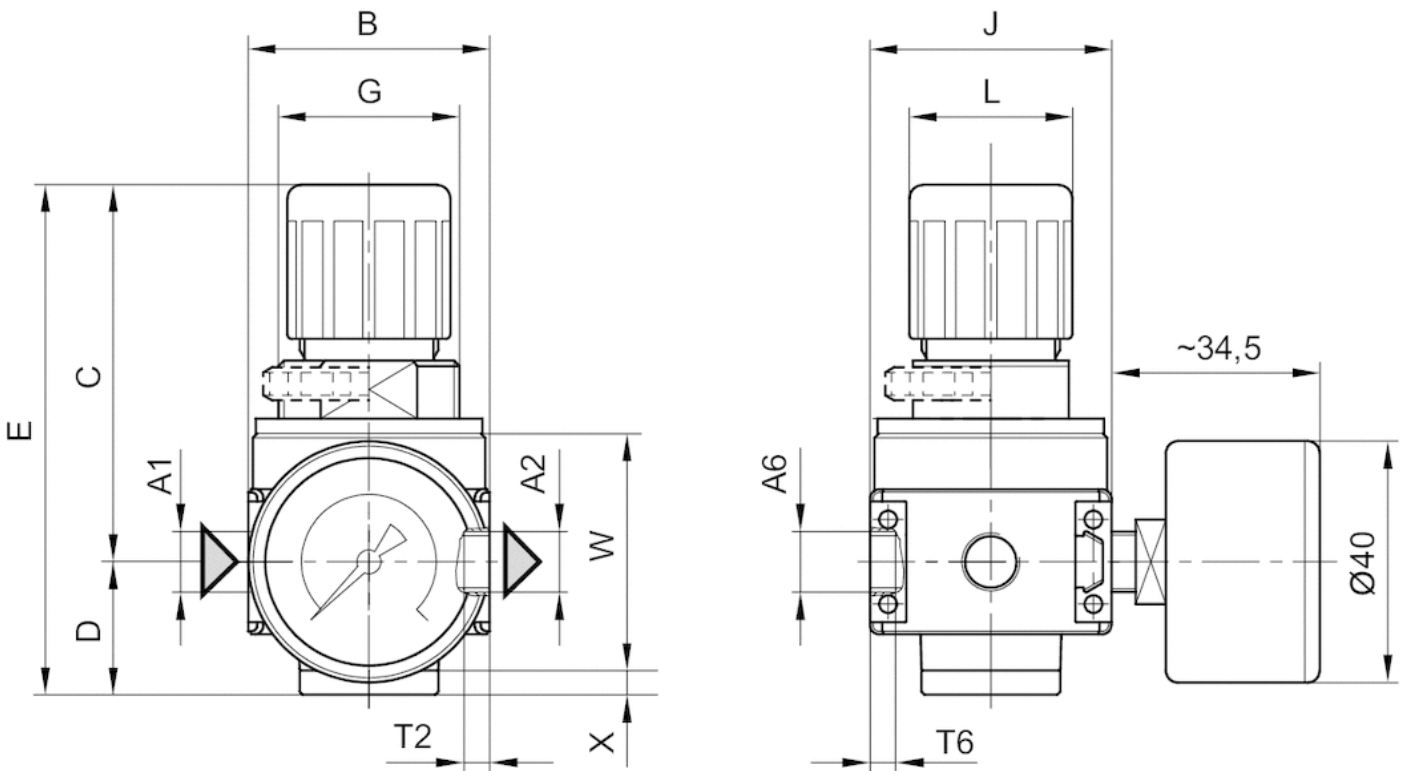
Recommended pre-filtering 5 μ m

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



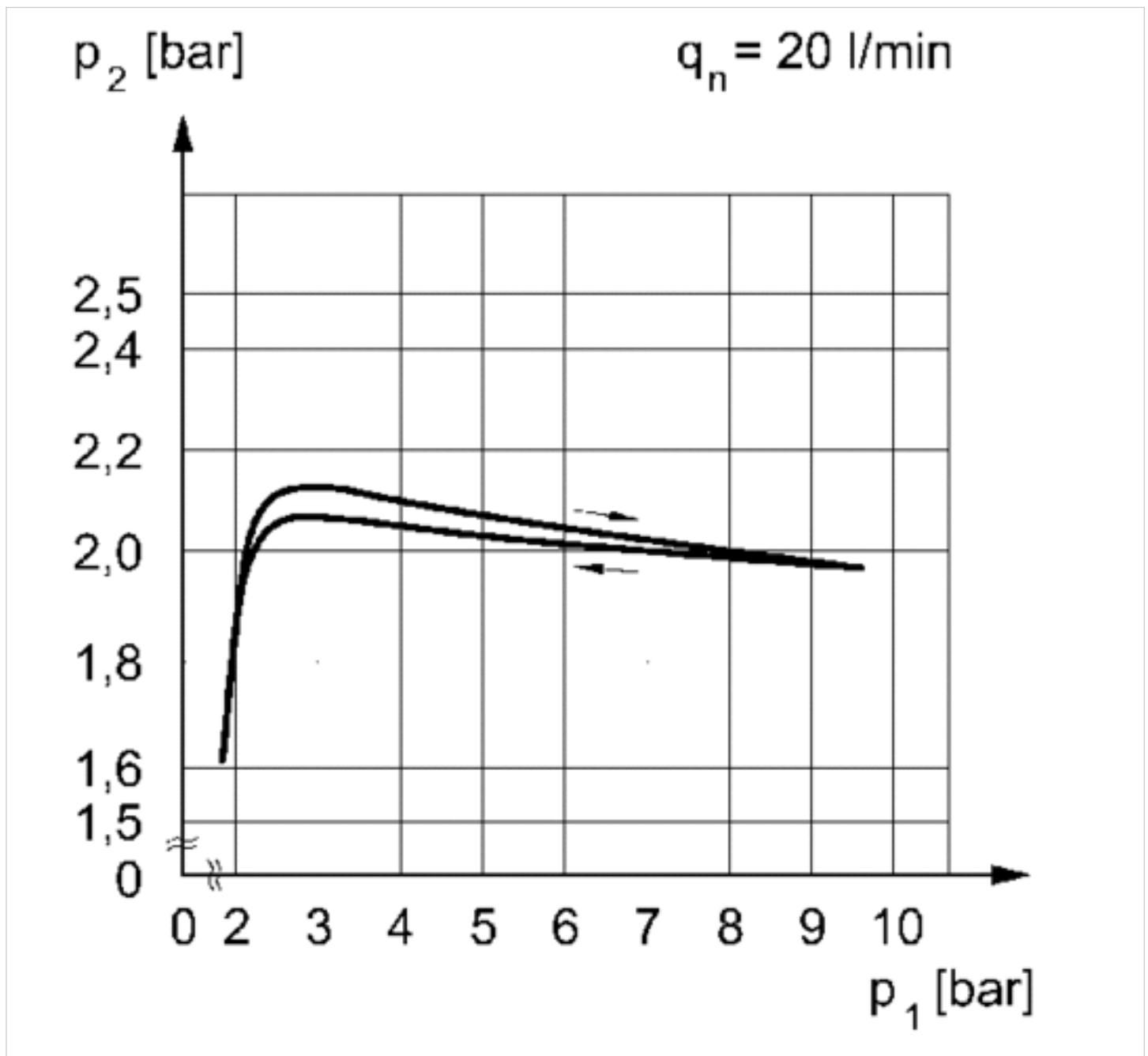
A1 = input
A2 = output
A6 = output

Dimensions in mm

| A1 | A2 | A6 | B | C | D | E | G | J | L | T2 | T6 | W | X |
|-------|-------|-------|----|------|----|------|---------|----|----|----|----|------|---|
| G 1/8 | G 1/8 | G 1/8 | 40 | 62.5 | 22 | 84.5 | M30x1,5 | 40 | 27 | 8 | 6 | 39.5 | 4 |
| G 1/4 | G 1/4 | G 1/8 | 40 | 62.5 | 22 | 84.5 | M30x1,5 | 40 | 27 | 8 | 6 | 39.5 | 4 |

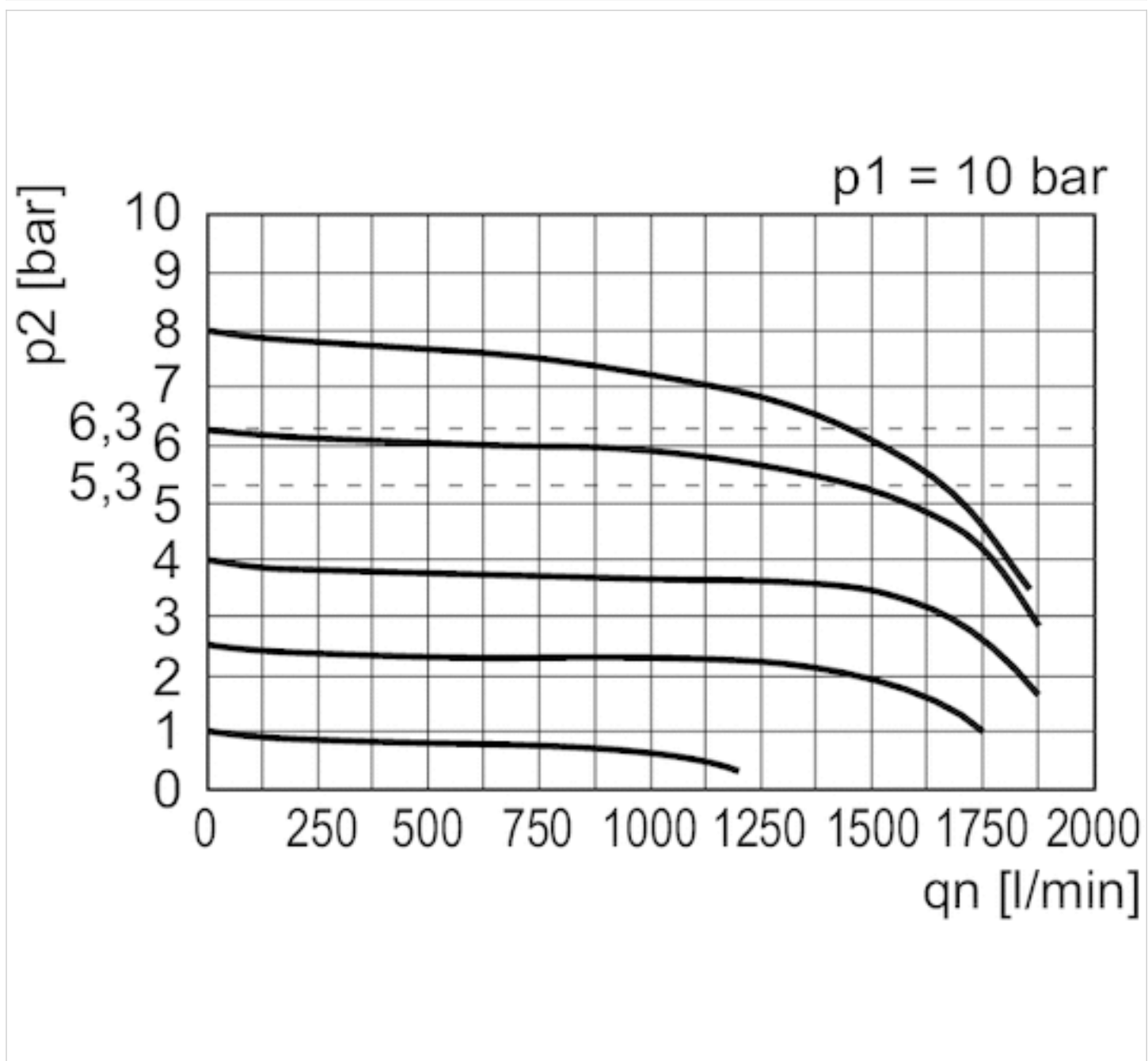
Diagrams

Pressure characteristics curve



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

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



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

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