

RM1 Miniature precision regulators

- Port size: M5, G1/8 or Cartridge style
- Miniature high performance regulator
- Suitable for oxygen service
- Compliant to:
BS EN ISO 15001:2011
BS EN ISO 10524-4:2008
RoHS
- Precision pressure regulation
- Excellent flow, pressure drop and hysteresis
- Cartridge design for manifold integration
- Design registration number:
000362165-0001/0002



Technical features

Medium:

Compressed air and medical gases

Maximum inlet pressure:

10 bar (145 psi)

Standard pressure range:

0 ... 0,35 bar (0 ... 5 psi)
0 ... 2 bar (0 ... 29 psi)
0 ... 2,75 bar (0 ... 39.9 psi)
0 ... 4 bar (0 ... 58 psi)

Port size:

M5 or G1/8 (Body version)
Alternative cartridge style

Flow range:

200 l/min - RM1L
500 l/min - RM1H
[P1 = 10 bar (145 psi) &
P2 = 2 bar (29 psi)]

Ambient/Media temperature:

-5 ... +95°C (+23 ... 203 °F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).

Wetted materials:

Housing: Aluminium
Polymers: PPS (FDA compliant)
Elastomers:
FPM (FDA compliant)
Metal components:
Stainless steel & Aluminium

Option selector

RM1★-★★★-N★V

Type	Substitute
Low flow	L
High flow	H
Type	Substitute
Body M5	5M
Body G1/8	1G
Cartridge style	NN

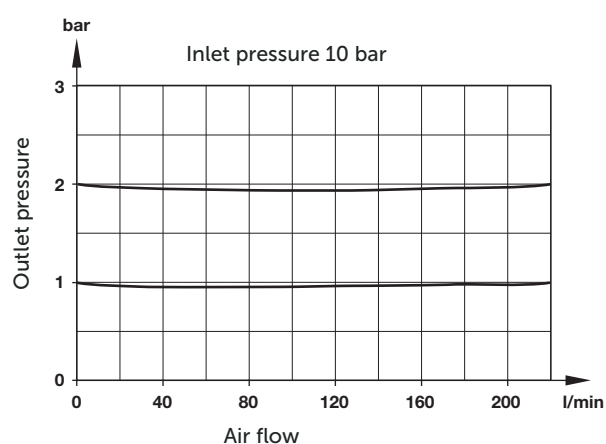
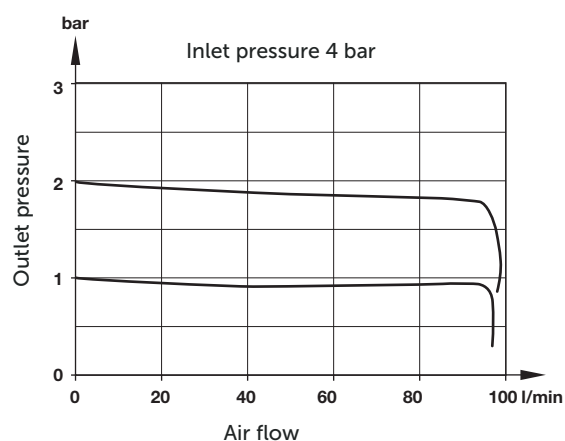
Springs	Substitute
0,35 bar	A
2,00 bar	C
2,75 bar	D
4,00 bar	F
Adjustment	Substitute
Not preset	D
Preset	S

Note: For pre-set units the following information is required:

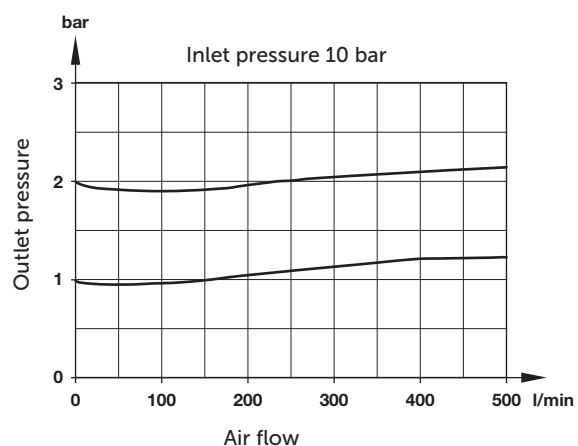
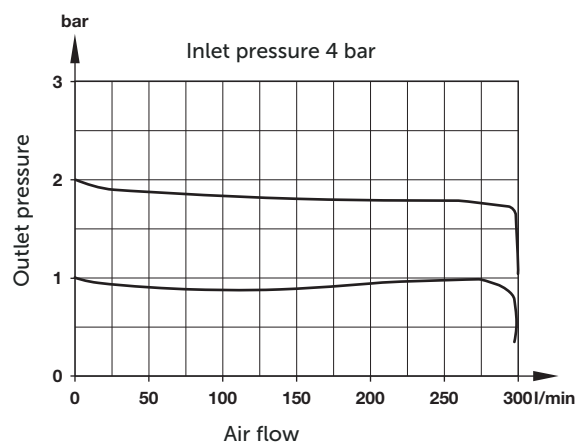
Primary pressure ± Tolerance
Pre-set pressure ± Tolerance
Setting flow ± Tolerance

Flow characteristics

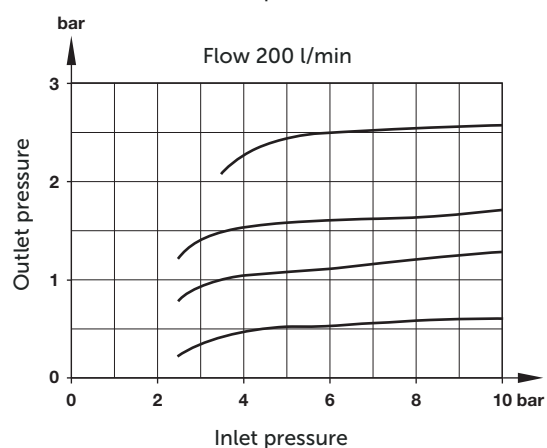
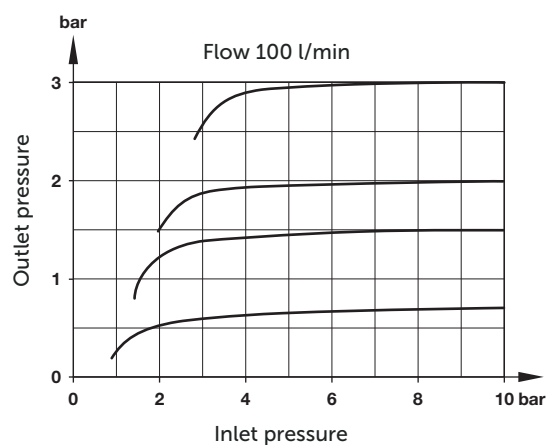
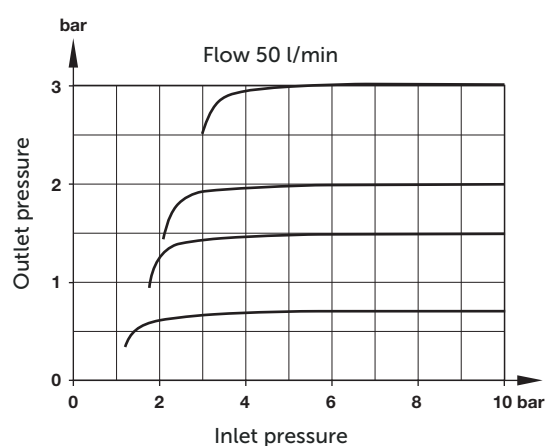
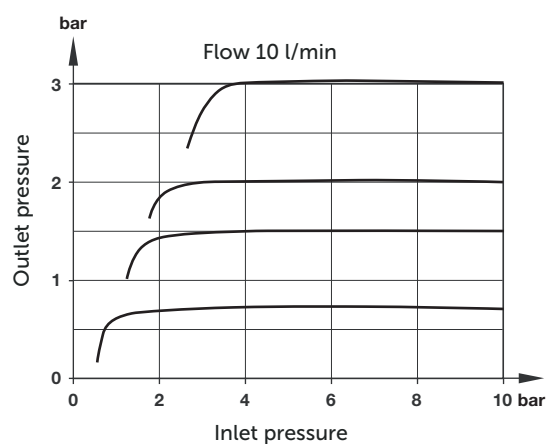
Model: RM1L...



Model: RM1H...

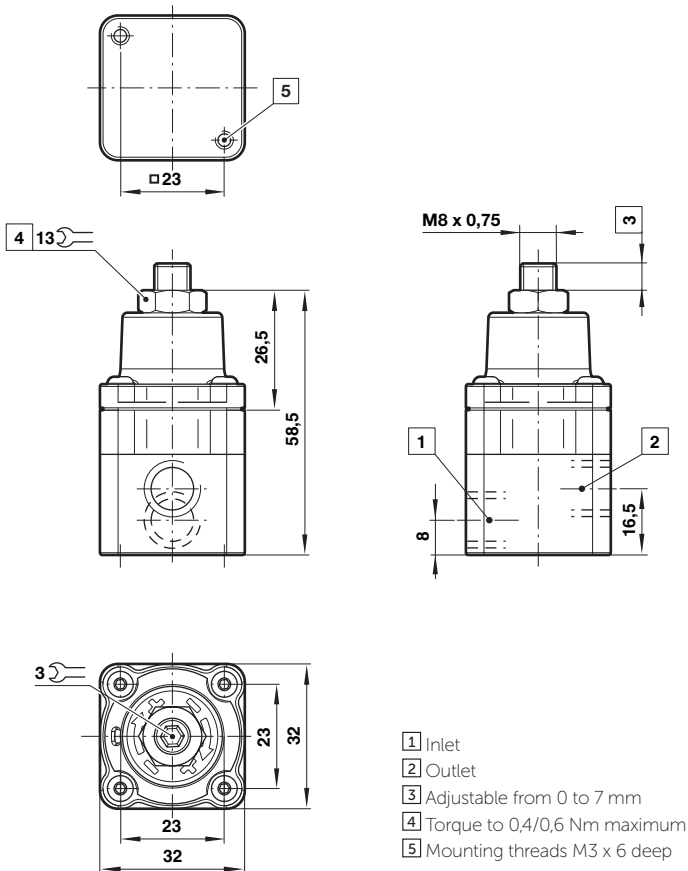


Regulation characteristics

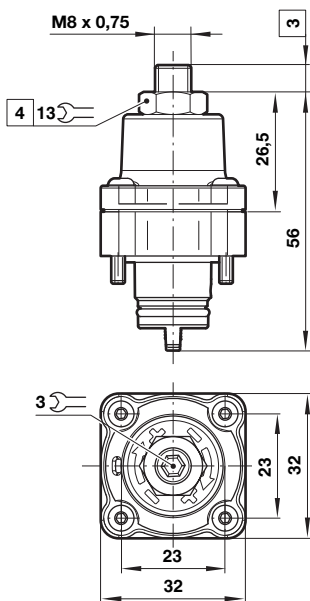


Dimensions Body version

Dimensions shown in mm
Projection/First angle

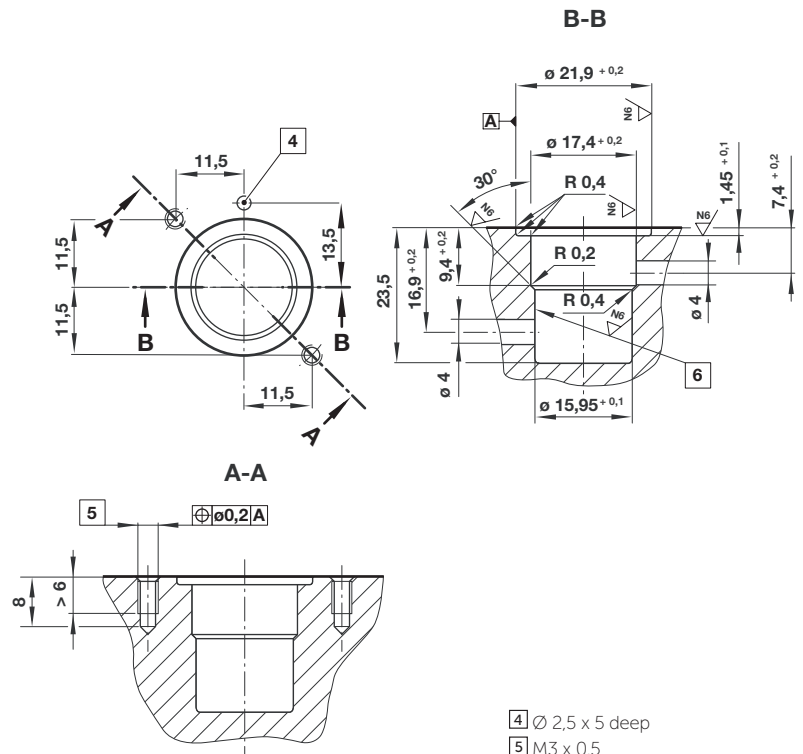


Cartidge style version



- 3 Adjustable from 0 to 7 mm
- 4 Torque to 0,4/0,6 Nm maximum

Installation dimensions



Warning

These products are intended for use in life sciences & medical applications with compressed gases only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.