

# LR27H series High-flow precision pressure regulator

- Port size: 1/4" (ISO G, NPT) or interface version
- Ideally suited to Pantograph application
- > High-precision manual pressure regulator
- Highly sensitive and accurate
- > Perfect for dead-end applications

- Excellent long term stability
- Very high forward and relief flow capability
- Optional quick exhaust function
- > Wide temperature range
- Shock and vibration tested to EN 61373, Category 1, class A and B



# **Technical features**

#### Medium:

Oil free, dry air filtered to 25 µm Note: for use with gases other than compressed air please consult NORGREN

#### Operation:

Optional - see option selector for details

### Working pressure range:

1 ... 8 bar (15 ...120 psi)

#### Inlet pressure:

10 bar (145 psi) At least 0.2bar (3 psi) above output pressure

# Air and gauge ports:

G1/4 or 1/4 NPT

# Flow capacity:

Up to 1500 I/min

#### Sensitivity:

Better than 0,3 mbar per bar of supply pressure change.

#### Hysteresis & repeatability:

Typically < 0,05% at mid range **Air Consumption:** 

Typically < 4,0 l/min

#### Ambient/Media temperature:

-40 ... +70°C (-40 ... +158°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

#### Materials:

Body: passivated zinc die casting,

black powder coated Pilot operator and sub base interface plate are anodised aluminium, black powder coated

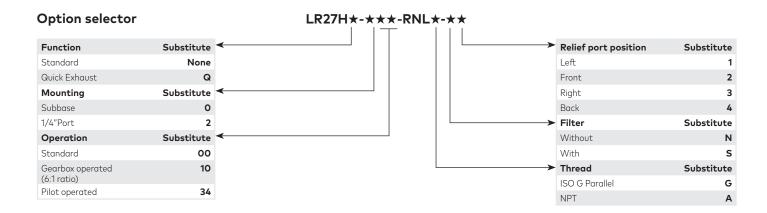
Elastomers: reinforced nylon Pressure capsule: beryllium copper

# Technical data, standard version, left relief port position with filter

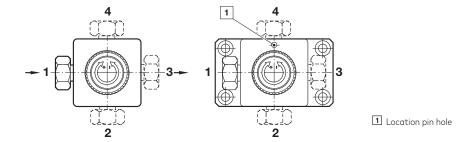
Symbol	Port size	Actuated	Gauge	Weight (kg)	Model
	G1/4	Manual	Without	0,890	LR27H-200-RNLG-S1
	1/4 NPT	Manual	Without	0,890	LR27H-200-RNLA-S1





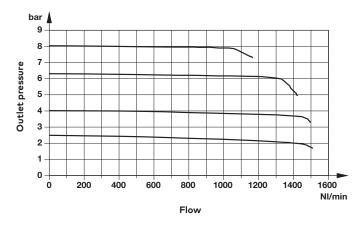


# Relief port position

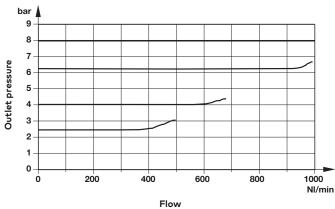


# Flow characteristics

# Forward flow (Inlet pressure 10 bar)

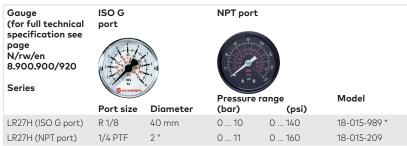


# Relief flow (Inlet pressure 10 bar)





#### **Accessories**

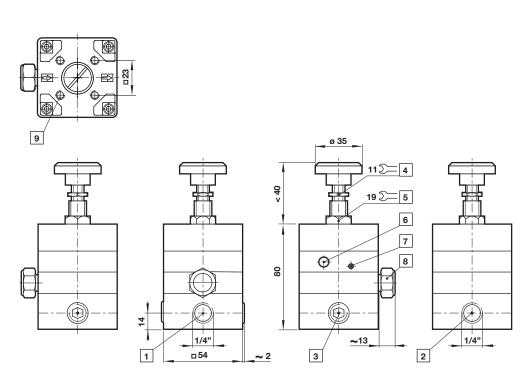


Series Model LR27H (ISO G port) M/1512 LR27H (NPT port) MV002A

Exhaust filter

# **Dimensions**

# Standard (typical for other inline versions)



- 1 Inlet port
- 2 Working port
- 3 Gauge port
- 4 Lock nut, recommended torque: 3...5 Nm
- 5 Mounting nut, recommended torque: 6...8 Nm

- 6 Bleed hole
- 7 Quick exhaust pilot vent
- 8 Relief port
- 9 Mounting threads M5, 8 mm deep

Dimensions in mm Projection/First angle

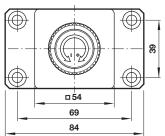


<sup>\*</sup> Please order a BSP connector 160232818 (G1/4 o/f to G1/8 i/f) separately

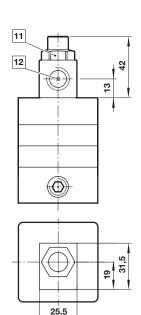


#### Sub base version

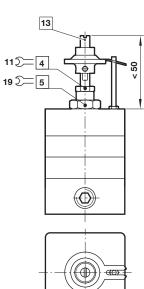
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#### Pilot operated



# Gearbox operated



Dimensions in mm Projection/First angle



- 1 Inlet port, 2,1 mm deep
- 2 Working port, 2,1 mm deep
- 4 Lock nut, recommended torque: 3...5 Nm
- 5 Mounting nut, recommended torque: 6...8 Nm
- **9** Two O-Rings are supplied
- 11 Cap nut, A/F 20 mm
- 12 Pilot port 1/4" rotable 4 x 90° positions
- 13 Adjusting screw
- 14 Location pin hole, Ø 2 mm, 3 mm deep

#### Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under "Technical features/data".

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.