

- > 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 l/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

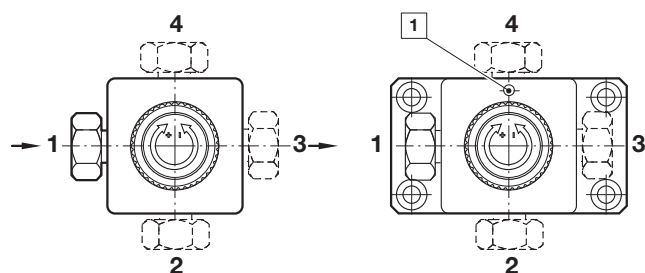
Option selector

Function	Substitute
Standard	None
Quick Exhaust	Q
Mounting	Substitute
Subbase	0
1/4"Port	2
Operation	Substitute
Standard	00
Gearbox operated (6:1 ratio)	10
Pilot operated	34

LR27H★-★★★-RNL★-★★★

Relief port position	Substitute
Left	1
Front	2
Right	3
Back	4
Filter	Substitute
Without	N
With	S
Thread	Substitute
ISO G Parallel	G
NPT	A

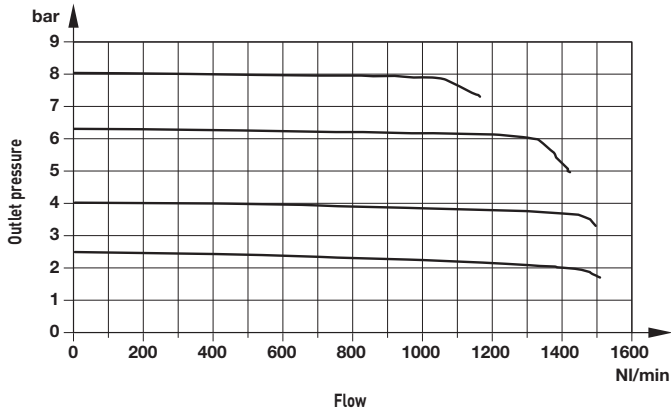
Relief port position



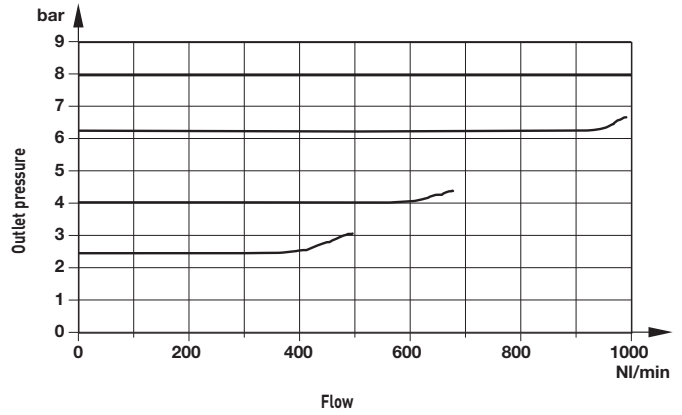
1 Location pin hole

Flow characteristics

Forward flow (Inlet pressure 10 bar)



Relief flow (Inlet pressure 10 bar)



Accessories

Series	ISO G port		NPT port		Model
	Port size	Diameter	Pressure range (bar)	Pressure range (psi)	
LR27H (ISO G port)	R 1/8	40 mm	0 ... 10	0 ... 140	18-013-989 *
LR27H (NPT port)	1/4 PTF	2"	0 ... 11	0 ... 160	18-013-209

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

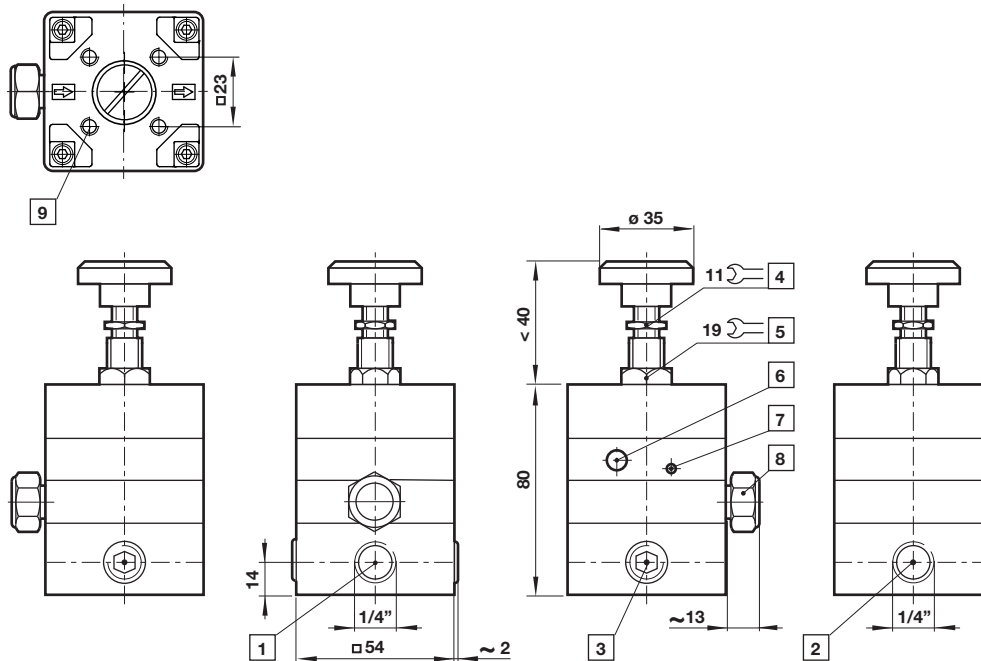
Exhaust filter

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

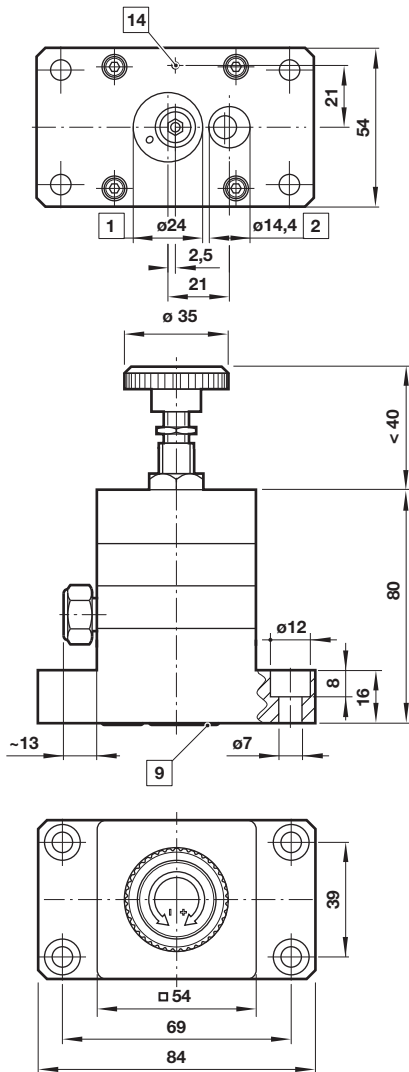
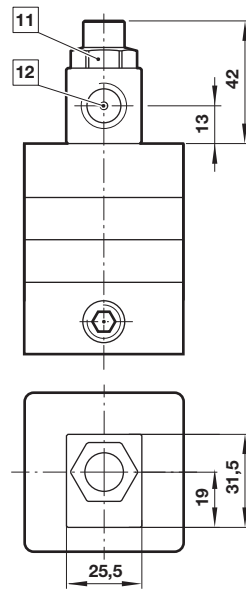
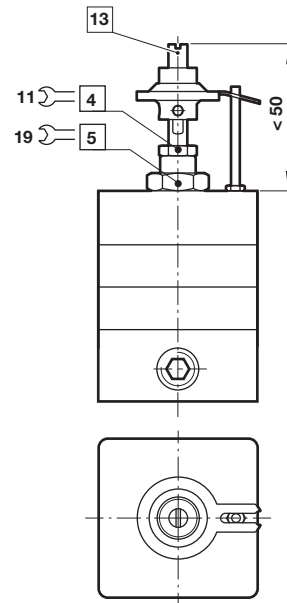
Dimensions

Standard (typical for other inline versions)

Dimensions in mm
Projection/First angle



- 1 Inlet port
- 2 Working port
- 3 Gauge port
- 4 Locknut
- 5 Mounting nut
- 6 Bleed hole
- 7 Quick exhaust pilot vent
- 8 Relief port
- 9 Mounting threads M5, 8 mm deep

Sub base version

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 Locknut
- 5 Mounting nut
- 9 Two O-Rings are supplied
- 11 Cap nut, A/F 20 mm
- 12 Pilot port 1/4" rotatable 4 x 90° positions
- 13 Adjusting screw
- 14 Location pin hole, \varnothing 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 IMI 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.