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

**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**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Actuated</th>
<th>Gauge</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G1/4</td>
<td>Manual</td>
<td>Without</td>
<td>0.890</td>
<td>LR27H-200-RNLG-S1</td>
</tr>
<tr>
<td></td>
<td>1/4 NPT</td>
<td>Manual</td>
<td>Without</td>
<td>0.890</td>
<td>LR27H-200-RNLA-S1</td>
</tr>
</tbody>
</table>

**Option selector**

<table>
<thead>
<tr>
<th>Function</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>None</td>
</tr>
<tr>
<td>Quick Exhaust</td>
<td>Q</td>
</tr>
<tr>
<td>Mounting</td>
<td>Substitute</td>
</tr>
<tr>
<td>Subbase</td>
<td>0</td>
</tr>
<tr>
<td>1/4°Port</td>
<td>2</td>
</tr>
<tr>
<td>Operation</td>
<td>Substitute</td>
</tr>
<tr>
<td>Standard</td>
<td>00</td>
</tr>
<tr>
<td>Gearbox operated (6:1 ratio)</td>
<td>10</td>
</tr>
<tr>
<td>Pilot operated</td>
<td>34</td>
</tr>
</tbody>
</table>

**Relief port position**

- **Relief port position Substitute**
  - Left: 1
  - Front: 2
  - Right: 3
  - Back: 4

- **Filter Substitute**
  - Without: N
  - With: S

- **Thread Substitute**
  - 6G G Parallel: G
  - NPT: A

- **Location pin hole**
Flow characteristics

Forward flow (Inlet pressure 10 bar)

Relief flow (Inlet pressure 10 bar)

Accessories

<table>
<thead>
<tr>
<th>Gauge (for full technical specification see page N/rw/en 8.900.900/920)</th>
<th>ISO G port</th>
<th>NPT port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Port size</td>
<td>Diameter</td>
</tr>
<tr>
<td>LR27H (ISO G port)</td>
<td>R 1/8</td>
<td>40 mm</td>
</tr>
<tr>
<td>LR27H (NPT port)</td>
<td>1/4 PTF</td>
<td>2 &quot;</td>
</tr>
</tbody>
</table>

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

Dimensions

Standard (typical for other inline versions)
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.