Norgren is a leading world manufacturer and supplier of pneumatic solutions, offering a comprehensive range of pneumatic components and automation systems via a global sales and service network which covers 70 countries worldwide. The company is a principal member of the diverse and internationally successful £1.4 billion IMI Group.

### Actuators
- Stability
- Precision
- Durability

### Automotive Division
- Germany
  - Tel: + 49 61 22 900 0
  - Fax: + 49 61 22 900 99
- Italy
  - Tel: + 39 11 96 710 43
  - Fax: + 39 11 95 17 715
- Asia/Pacific/South America
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  - Fax: + 31 204 294 800
- UK
  - Tel: + 44 1543 450 550
  - Fax: + 44 1543 450 550
- USA
  - Tel: + 1 800 204 9000
  - Fax: + 1 800 204 9115

### Pneumatic control and process valves
- Stability
- Precision
- Durability

### Air preparation
- Stability
- Precision
- Durability

### Fittings and accessories
- Stability
- Precision
- Durability

### Handling components
- Stability
- Precision
- Durability

### Handling systems
- Stability
- Precision
- Durability

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**Norgren market companies worldwide**

- **Australia**
  - Tel: + 61 3 9233 0800
  - Fax: + 61 3 9233 0890
- **Austria**
  - Tel: + 43 2266 63 500
  - Fax: + 43 2266 63 500 20
- **Belgium**
  - Tel: + 32 2 776 60 20
  - Fax: + 32 2 776 24 34
- **Brazil**
  - Tel: + 55 11 522 1044
  - Fax: + 55 11 523 2053
- **Canada**
  - Tel: + 1 905 625 4060
  - Fax: + 1 905 625 8271
- **China**
  - Tel: + 86 21 648 57935
  - Fax: + 86 21 649 56042
- **Czech Republic**
  - North
    - Tel: + 42 044 2010
    - Fax: + 42 044 2010 20
  - South
    - Tel: + 42 062 96 33404
    - Fax: + 42 062 96 33404
- **Denmark**
  - Tel: + 45 46 63 05 12
  - Fax: + 45 46 63 05 52
- **France**
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  - Fax: + 33 1 60 05 50 52
- **Germany (Eastern Europe)**
  - Tel: + 49 28 02 4900
  - Fax: + 49 28 02 49356
- **Hungary**
  - Tel: + 36 1 284 9000
  - Fax: + 36 1 284 8900
- **Ireland**
  - Tel: + 35 318 300 288
  - Fax: + 35 318 300 082
- **Italy**
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  - Fax: + 39 039 60 42 361
- **Japan**
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  - Fax: + 81 6 876 8929
- **Mexico**
  - Tel: + 52 5 565 7521
  - Fax: + 52 5 565 7072
- **Netherlands**
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  - Fax: + 31 33 462 0893
- **New Zealand**
  - Tel: + 64 9 519 235
  - Fax: + 64 9 519 2351
- **Norway**
  - Tel: + 47 9 66 60 03
  - Fax: + 47 9 66 60 24
- **Singapore**
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  - Fax: + 65 662 1847
- **Slovakia**
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  - Fax: + 38 661 571 212
- **Spain**
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  - Fax: + 34 3 739 0839
- **Sweden**
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  - Fax: + 46 46 49 15 95
- **Switzerland**
  - Tel: + 41 71 973 62 00
  - Fax: + 41 71 973 62 01
- **UK**
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  - Fax: + 44 1543 265 815
- **USA**
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  - Fax: + 1 303 795 9470

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The R27 Precision Pressure Regulator

Precision pressure control, a requirement in many industrial applications, is often complicated by changes in supply pressure, flow and ambient temperature. The R27 precision regulator is designed to give stable and accurate pressure control under conditions of flow and zero flow (dead end). Using proven instrumentation technology the R27 can add a degree of precision to any application imaginable using more traditional regulation solutions.

- **DEAD-END APPLICATIONS** - the R27 is designed to control pressure under forward and relief flow conditions. This makes it ideal for use with actuators and closed volumes.
- **PRECISION** - with accuracies of 0.02%, sensitivity better than 0.3mbar (0.005psi) and hysteresis and repeatability less than 0.05%, this regulator provides precision control under the most adverse operating conditions.
- **STABILITY** - the integrated measuring capsule, a sophisticated barometric measuring element, offers extreme stability under all operating conditions.
- **SIMPLE DESIGN** - the R27’s uncomplicated design is effective and reliable, providing accuracy and precision in thousands of applications around the globe.

Pneumatically balanced, servo controlled poppet valve design - high flow under forward and relief conditions

Stability

Control stem - double start threads to allow high resolution

Precision

Beryllium copper capsule - responds to any pressure variation to give output stability regardless of flow or supply pressure variation

Low volume pilot chamber - has small constant bleed to ensure responsiveness under dead end conditions

Product Selection

Please quote the following part numbers when ordering

- **R27**: Precision Pressure Regulator
- **200**: Handwheel Operated
- **230**: Lever Operated
- **232**: Plunger Operated
- **234**: Pneumatic Relay
- **236**: Pneumatic Relay with manual bias

RNC: 0.14 - 2 bar range
RNF: 0.14 - 4 bar range
RNL: 0.14 - 8 bar range
G: G1/4

Specifi at a glance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output pressure</td>
<td>See product selector</td>
</tr>
<tr>
<td>Max supply pressure</td>
<td>10 bar (140 psig)</td>
</tr>
<tr>
<td>Air supply</td>
<td>Oil free, dry air or other gases, filtered to 25 microns</td>
</tr>
<tr>
<td>Flow capacity</td>
<td>Up to 300 l/min (10 scfm)</td>
</tr>
<tr>
<td>Response time</td>
<td>Less than 0.2 seconds for 50% load change</td>
</tr>
<tr>
<td>Hysteresis and Repeatability</td>
<td>Less than 0.05% at mid-range</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Better than 0.3mbar (0.005psi)</td>
</tr>
<tr>
<td>Temperature effect</td>
<td>Better than +/-1% change of full span between -20C and +70C</td>
</tr>
<tr>
<td>Weatherproof</td>
<td>IP65</td>
</tr>
<tr>
<td>Vibration effect</td>
<td>Unaffected by moderate vibration</td>
</tr>
<tr>
<td>Mounting orientation</td>
<td>Any, integral mounting nut supplied</td>
</tr>
</tbody>
</table>

eg R27 236 RNF is a lever operated 0.14 - 4 bar unit.