Miniature Series 07
General Purpose Regulator
1/8” and 1/4” Port Sizes

- Compact design
- Full flow gauge ports
- Low torque, non-rising adjusting knob
- Snap action knob locks pressure setting when pushed in
- Standard relieving models allow reduction of outlet pressure even when the system is dead-ended
- Can be disassembled without the use of tools or removal from the air line

Technical Data
Fluid: Compressed air
Maximum pressure: 20 bar (300 psig)
Operating temperature: -20° to +65°C (0° to +150°F) *
* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
Typical flow at 10 bar (150 psig) inlet pressure, 6.3 bar (90 psig) set pressure and a droop of 1 bar (15 psig) from set:
  1/8” ports: 6.5 dm³/s (14 scfm)
  1/4” ports: 7 dm³/s (15 scfm)
Gauge ports:
  1/8” PTF with PTF main ports
  1/8” ISO Rc with ISO Rc main ports
  1/8” ISO Rc with ISO G main ports
Materials:
  Body: Zinc
  Bonnet: Acetal
  Valve: Brass/nitrile
  Valve seat: Acetal
  Elastomers: Nitrile

Ordering Information
See Ordering Information on the following pages.

ISO Symbols

Relieving

Non relieving
Our policy is one of continuous research and development. We reserve the right to amend, without notice, the specifications given in this document.

### Typical Performance Characteristics

![Graph showing flow characteristics]

#### Ordering Information

Models listed include ISO G threads, relieving diaphragm, 0.3 to 7 bar (5 to 100 psig) outlet pressure adjustment range* without gauge.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model Number</th>
<th>Flow† dm³/s (scfm)</th>
<th>Weight kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>R07-100-RNKG</td>
<td>6.5 (14)</td>
<td>0.19 (0.31)</td>
</tr>
<tr>
<td>G1/4</td>
<td>R07-200-RNKG</td>
<td>7 (15)</td>
<td>0.19 (0.31)</td>
</tr>
</tbody>
</table>

† Approximate flow at 7 bar (100 psig) inlet pressure, 6.3 bar (90 psig) set pressure and a droop of 1 bar (14.5 psig) from set.

### Alternative Models

- **Port Size**
  - 1/8"
  - 1/4"

- **Option**
  - Not applicable

- **Substitute**
  - Standard
  - Low flow seat
  - H.P. unit, 10 bar (150 psig)

- **Threads**
  - PTF
  - ISO Rc taper
  - ISO G parallel

- **Outlet Pressure Adjustment Ranges**
  - 0.1 to 0.7 bar (1 to 10 psig)
  - 0.3 to 3.5 bar (5 to 50 psig)
  - 0.3 to 7 bar (5 to 100 psig)
  - 0.3 to 10 bar (5 to 150 psig)

- **Gauges**
  - With
  - Without

- **Diaphragm**
  - Relieving
  - Non relieving

### Accessories

- **Wall Mounting Bracket and Panel Nut for P1H Unit**
  - Plastic: 18-025-003
  - Metal: 2962-04

- **Panel Nut**
  - Plastic: 2962-89
  - Screw only: 6097-08

- **Tamper Resistant Field Modification**
  - Knob and screw: 18-001-092

- **Ø 40 mm Pressure Gauge**
  - 2 bar (30 psig): 18-013-214
  - 4 bar (60 psig): 18-013-990
  - 10 bar (150 psig): 18-013-989

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**Dimensions mm (inches)**

Panel mounting hole diameter 30 mm (1.19")
Maximum panel thickness 0 to 6 mm (0 to 0.25")

**Bracket Mounting**

Use 3 mm (1/8") screws to mount bracket to wall.

**Bracket Kit Reference**

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>18-025-003</td>
</tr>
</tbody>
</table>

**Service Kits**

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service kit</td>
<td>Relieving</td>
<td>3407-02</td>
</tr>
<tr>
<td>Non relieving</td>
<td>Non relieving</td>
<td>3407-01</td>
</tr>
</tbody>
</table>

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.
Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under ‘Technical 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.

Water vapor will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.