07R Regulators – Standard

Features
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Easily serviced.
- Removable non-rising knob for panel mounting and tamper resistance.
- High Flow: 1/2" – 90 SCFM §
  3/4" – 90 SCFM §

<table>
<thead>
<tr>
<th>Port Size</th>
<th>NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Gauge</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>07R313AC</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>07R413AC</td>
</tr>
<tr>
<td>With 160 PSI Gauge</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>07R318AC</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>07R418AC</td>
</tr>
</tbody>
</table>

Standard part numbers shown bold. For other models refer to ordering information below.

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

ordering Information

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Pressure Range</th>
<th>Relief</th>
<th>Engineering Level</th>
<th>Port Type</th>
<th>Options</th>
<th>Preset / Pressure Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 1/2 Inch</td>
<td>11 60 psig</td>
<td>A Relieving</td>
<td>C Current</td>
<td>Blank</td>
<td>Blank</td>
<td>None</td>
</tr>
<tr>
<td>3 1/2 Inch</td>
<td>13 125 psig</td>
<td>L Non-Relieving</td>
<td></td>
<td>NPT 1&quot;</td>
<td>No Options</td>
<td>XXX*</td>
</tr>
<tr>
<td>3 1/2 Inch</td>
<td>15 250 psig</td>
<td></td>
<td></td>
<td>BSPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 1/2 Inch</td>
<td>16 60 psig</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 3/4 Inch</td>
<td>18 125 psig</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 3/4 Inch</td>
<td>21 250 psig</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Includes 1-1/2” Dial Face Gauge

07R Regulator Dimensions

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.24</td>
<td>2.74</td>
<td>4.79</td>
<td>1.61</td>
<td>6.40</td>
</tr>
<tr>
<td>(82)</td>
<td>(70)</td>
<td>(122)</td>
<td>(41)</td>
<td>(163)</td>
</tr>
</tbody>
</table>

Inches (mm)

⚠️ WARNING
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.

Spring Type by Preset / Limited Pressure:
For Preset / Limited Pressure 26 to 50 use 60 PSI Spring
For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

BOLD ITEMS ARE MOST POPULAR.
Technical Information

CAUTION:
REGULATOR PRESSURE ADJUSTMENT –
The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

07R Regulator Kits & Accessories

Bonnet Assembly Kit ................................................. PS715P
Control Knob .......................................................... P04069B
Gauges – 2" Dial Face
   60 psig (0 to 4.1 bar) ........................................ K4520N14060
   160 psig (0 to 11.0 bar) .................................... K4520N14160
   300 psig (0 to 20.0 bar) .................................... K4520N14300
1-3/4" Digital Round Face
   160 psig (0 to 11.0 bar) .................................... K4517N14160D
Mounting Bracket Kit (Includes Panel Mount Nut) …… PS807P
Panel Mount Nut – Plastic ........................................ P04082
   Metal ....................................................... P04079B
Reverse Flow Service Conversion Kit –
   Relieving ...................................................... PS808RP
   Service Kit – Relieving (Includes Poppet) .......... PS808P
   Non-Relieving (Includes Poppet) ..................... PS809P
Springs – 1-30 psig Range ..................................... P01698
   1-60 psig Range .......................................... P04062
   2-125 psig Range ........................................ P04063
   5-250 psig Range ........................................ P04064
Tamperproof Kit .................................................. PS737P

Specifications

Gauge Ports (2) .......................................................... 1/4 Inch
(Can be used as additional High Flow 1/4 Inch Outlet Ports)
Port Threads ....................................................... 1/2, 3/4 Inch
Primary Pressure Rating –
   Maximum Primary Pressure ................................ 250 psig (17.2 bar)
Secondary Pressure Ranges –
   Standard Pressure .................................. 2 to 125 psig (0 to 8.6 bar)
   Low Pressure ........................................... 1 to 60 psig (0 to 4.1 bar)
   High Pressure ........................................... 5 to 250 psig (0.4 to 17.2 bar)
Temperature Rating ............................................ 32°F to 175°F (0°C to 80°C)
   Low Temperature ...................................... -4°F to 125°F (-20°C to 52°C)
Weight .............................................................. 2.5 lb. (1.1 kg)

Materials of Construction

Adjusting Stem ...................................................... Steel
Body ................................................................. Zinc
Bonnet, Piston Stem, Valve Poppet & Cap ............. Plastic
Collar, Knob ........................................................ Plastic
Diaphragm .......................................................... Nitrile
Seals ................................................................. Nitrile
Springs – Poppet ..................................................... Stainless
   Control ......................................................... Steel