numatics®
Precision Regulators

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R89 Series

Application
The Instrument Air Regulator is designed to provide clean, accurate air pressure to instruments, valves, and other automatic control equipment. It is used extensively to supply air to pneumatic controllers, transmitters, transducers, valve positioners, air cylinders, and a wide range of pneumatic control systems.

Features
- Stable output and repeatability
- Corrosion-resistant construction
- 5 micron depth filter
- Self-relieving
- Low droop at high flow levels
- Tight shut off

Materials of Construction
Body: die cast aluminum alloy, iridite, baked epoxy finish
Filter: 5 micron phenolic impregnated cellulose
Diaphragms: nitrile elastomer and nylon fabric
Valve Seat Plug: nitrile elastomer
Additional Materials: brass, zinc, plated steel, acetal

Mounting Bracket
The mounting bracket for the R89 Series Instrument Air Regulator, part number PK89, is available and sold separately.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Instrument Air Regulator R89 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Size</td>
<td>1/4 NPT</td>
</tr>
<tr>
<td>Standard Output Pressure</td>
<td>0 - 120 PSIG (0 - 800 kPa)</td>
</tr>
<tr>
<td>Maximum Supply Pressure</td>
<td>250 PSIG (1700 kPa)</td>
</tr>
<tr>
<td>Mounting</td>
<td>pipe or integral mounting</td>
</tr>
<tr>
<td>Flow Capacity</td>
<td>see flow characteristics (next page)</td>
</tr>
<tr>
<td>Exhaust Capacity</td>
<td>.1 SCFM (.17 m3/hr) @ 5 PSIG (35 kPa) above set point</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1” (2.5 cm) of water</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>less than 5 SCFH (.17 m3/hr)</td>
</tr>
<tr>
<td>Effect of Supply Pressure Variation</td>
<td>less than .2 PSIG (1.4 kPa) @ 25 PSI (170 kPa) change</td>
</tr>
<tr>
<td>Weight</td>
<td>1.6 lbs (.74 kg)</td>
</tr>
</tbody>
</table>

How To Order

Model
R = Regulator
89 = Instrument Air Regulators
0 = All Instrument Air Regulators
Threads
- = NPTF

Options
B = 0-10 PSIG
C = 0-30 PSIG
E = 0-60 PSIG
F = 0-125 PSIG
G = Gauge
K = Knob
M = Mounting Bracket
N = Non-Relieving
P = Panel Mount

Port Size
02 = 1/4

Note: R89 Series available in NPT only.
Flow Ratings (based on 100 PSIG inlet)

Dimensions: Inches (mm)

Note:
This view shown with optional panel mount capability.