Type 850/860/870
Type 850 Miniature Air Pressure Regulator
Type 860 Miniature Water Pressure Regulator
Type 870 Miniature Potable Water Pressure Regulator

The ControlAir Type 850/860/870 Series are compact units that provide economical, high performance pressure regulation of compressed air (Type 850), water (Type 860) or drinkable water (Type 870). Designed specifically for the OEM market, these units are ideal for compressed air or water pressure control applications. The highly sensitive diaphragm-operated design delivers accurate downstream pressure by eliminating the problems caused by sticking in piston designs utilized by competitors. A molded rubber supply valve provides accurate regulation and helps prevent leakage.

The Type 850/860 is recommended for use in any industrial application that requires water or air pressure regulation and low cost. The Type 870 is designed for use in potable water systems. Materials in contact with water are approved by National Sanitation Foundation (NSF) or the Food and Drug Administration (FDA) for use in potable water systems. Elastomers in the Type 870 are food grade.

Features
• Easy and Accurate Adjustment
• Relieving and Non-relieving Models
• 1/8" and 1/4" NPT and BSP Porting
• Compact & Lightweight
• Low Cost

Type 850
1/4" NPT Port, 0-100 psig Range, 100 psig Supply;
Flows for Outputs of 20, 40, 60, & 80 psig

Type 860 / Type 870
1/4" NPT Port, 0-100 psig Range, 100 psig Supply;
Flows for Outputs of 20, 40, 60, & 80 psig
**Type 850/860/870** Miniature Air and Water Pressure Regulators

### Specifications

<table>
<thead>
<tr>
<th>Type/Media</th>
<th>850: Compressed Air</th>
<th>860: Compressed Air or Water</th>
<th>870: Food Grade Potable Water Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Capacity</td>
<td>24 scfm (679 Nl/min) at 100 psig (6.9 BAR) supply, 60 psig (4.1 BAR) output</td>
<td>2.2 gal/min.</td>
<td>N/A</td>
</tr>
<tr>
<td>Relief Capacity</td>
<td>0.5 scfm (14 Nl/min) Downstream pressure 10 psig (0.7 BAR) above setpoint</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Maximum Supply Pressure</td>
<td>250 psig (17.2 BAR)</td>
<td>150 psig (10.0 BAR)</td>
<td>N/A</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>Less than 6 scfh (0.17 m³/hr)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°F to 150°F (-18°C to 60°C)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Porting</td>
<td>Inlet and outlet-1/8&quot; or 1/4&quot; NPT/BSP Gauge (2) - 1/8&quot; NPT/BSP</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Output Ranges</td>
<td>0-5 psig (0-0.4 BAR) 0-15 psig (0-1.0 BAR) 0-30 psig (0-2.1 BAR)</td>
<td>0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR)</td>
<td>N/A</td>
</tr>
<tr>
<td>Materials</td>
<td>Body: Epoxy Coated Zinc Acetal Nitrile/Nylon Brass/Nitrile</td>
<td>Electroless Nickel Plated Zinc Acetal Nitrile/Nylon Brass/Nitrile</td>
<td>NSF Electrodeposited Chromium Plated Zinc FDA Acetal Food Grade Nitrile/brass/lead-Free Brass/food Grade Nitrile</td>
</tr>
<tr>
<td>Weight</td>
<td>4.0 oz. (113 g)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Dimensional Drawings

**Optional Mounting Bracket**  
P/N 446-707-100

**Optional Panel Nut**  
P/N 442-734-040

### Ordering

Use this coding system to order

- **Model**
  - 850
  - 860
  - 870
- **Port Size**
  - A 1/8" NPT
  - B 1/4" NPT
  - C 1/8" BSP
  - D 1/4" BSP
- **Output psig**
  - E 0-5
  - A 0-15
  - B 0-30
  - C 0-60
  - D 0-100
- **BAR**
  - 0-0.4
  - 0-1.0
  - 0-2.1
  - 0-4.1
  - 0-6.9
- **Options**
  - N Non-Relieving
  - For constant flow or downstream pressure relief applications

### Accessories

- Mounting Bracket:  
  
  - Gauge: 0-15 psi  
    - P/N 446-707-100
  
  - Gauge: 0-60 psi  
    - P/N 446-725-007

- Panel Nut:  
  
  - Gauge: 0-15 psi  
    - P/N 446-724-040
  
  - Gauge: 0-60 psi  
    - P/N 446-725-008

### Warranty

ControlAir LLC products are warranted to be free from defects in materials and workmanship for a period of eighteen months from the date of sale, provided said products are used according to ControlAir LLC recommended usages. ControlAir LLC’s liability is limited to the repair, purchase price refund, or replacement in kind, at ControlAir LLC’s sole option, of any products proved defective. ControlAir LLC reserves the right to discontinue manufacture of any products or change products materials, designs or specifications without notice. Note: ControlAir does not assume responsibility for the selection, use, or maintenance of any product. Responsibility for the proper selection, use, and maintenance of any ControlAir product remains solely with the purchaser and end user. Drawing downloads available at www.controlair.com