Regulator Safety Mounting Brackets

Model 8RM

Scott™ Brand Model 8RM Regulator Mounting Brackets help organize work areas, improve safety, and ensure gas purity by eliminating the installment of a regulator directly onto a gas cylinder valve. The fixed mounting of a cylinder regulator to an 8RM mounting bracket eliminates hazards incurred with regulator and cylinder during changeouts, while allowing fast and easy cylinder replacement.

The Model 8RM is available in wall-mount or bench-mount configurations to provide versatility to meet any application requirement. Both configurations are furnished with CGA outlets suitable for direct mounting of a single or two-stage regulator (sold separately) with matching inlet CGA connections.

The bench-mount model includes a built-in cylinder clamp and adjustable regulator mast. Two diaphragm seal inlet isolation valves are provided standard with dual-cylinder wall-mounted models.

Benefits/Features

- Fixed mounting eliminates recurring leaks, ensures proper regulator alignment, and prevents damage to regulator.
- Bracket dimensions allow for installment of single or two-stage regulators.
- Spare access port in block provides versatility to install options (i.e. pressure switches, valves or additional pigtails).

Optional Features

- Double-braided (all metal) stainless steel flexible hose maintains gas purity and provides ease of connecting cylinders.
- PTFE-lined stainless steel flexible hose provides convenience and reduces costs (not recommended for high-purity applications).
- Check valves prevent discharge of gas from regulator and pigtail during cylinder changeout.
- Purge and vent assemblies enhance system purity and operator safety.

Specifications

- **Inlet Pressure:** 3000 psig (207 bar) max.
- **Valve (dual cylinder only):** Model 62 Diaphragm Packless Valve (see catalog page 330)
- **Inlet Connection:** CGA connection as specified
- **Outlet Connection:** CGA connection as specified (suitable for direct mounting of pressure regulator with inlet CGA)
- **Plugged Access Port:** 1/4" NPT Female (on RM block)
- **Rigid Pigtail:**
  - 36" (91.4 cm) long
  - 0.25" (6.35 mm) OD tubing with 5" (12.7 cm) ID service loop providing 23" (58.9 cm) usable length

Flexible Hose (PTFE-lined):
- 36" (91.4 cm) long
- 0.25" (6.35 mm) nominal ID
- 0.375" (9.53 mm) nominal OD

Flexible Hose (all metal):
- 30" (76.2 cm) long
- 0.285" (7.24 mm) nominal ID
- 0.445" (11.3 mm) nominal OD

Approximate Weight:
- 8RMB: 9 lbs. (4.08 kg)
- 8RMW-X-1: 3 lbs. (1.36 kg)
- 8RMW-X-2: 5 lbs. (2.27 kg)

Materials of Construction

- **Block and CGA Fittings:** Brass with brass assemblies
- **Type 316 Stainless Steel with stainless steel assemblies**
- **Bracket and Clamp:**
  - 12-gauge hot-rolled steel with powder-coated epoxy finish

Pigtails:
- **Rigid:** Brass with brass assemblies, Type 316L Stainless Steel with stainless steel assemblies
- **Flexible Hose (PTFE-lined):** Extruded PTFE inner core with Type 304 Stainless Steel single-overbraid and Type 316 Stainless Steel fittings
- **Flexible Hose (all metal):** Type 316L Stainless Steel inner core with Type 321 Stainless Steel double-overbraid and Type 316 Stainless Steel end fittings

Seats:
- **Check Valves:** EPDM with brass systems, Viton® with stainless steel systems
- **Valves:** PCTFE

Air Liquide America Specialty Gases LLC

Wall-Mount Dual Cylinders (regulator sold separately)

Bench-Mount Single Cylinder (regulator sold separately)
Regulator Safety Mounting Brackets (cont’d.)

Model 8RM

Part Number Key for Ordering

<table>
<thead>
<tr>
<th>Model Number</th>
<th>8RM</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Bracket Style</th>
<th>Materials of Construction (metal parts)</th>
<th>Cylinder Leads (pigtails)</th>
<th>CGA Connection*</th>
</tr>
</thead>
<tbody>
<tr>
<td>B/W</td>
<td>Brass = B</td>
<td>316L SS Flexible Hose = F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Type 316L SS = S</td>
<td>PTFE-Lined Flexible Hose = T</td>
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<tr>
<td></td>
<td></td>
<td>Rigid Tubing = Leave blank</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Total # of Cylinders</th>
<th>Check Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (both models)</td>
<td>With Check Valves = CV</td>
</tr>
<tr>
<td>2 (8RMW model only)</td>
<td>Without Check Valves = Leave blank</td>
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</tbody>
</table>

*CGA Code: Use the code for the desired CGA from the table below. Other cylinder connections are available—please inquire.

<table>
<thead>
<tr>
<th>Gas Service</th>
<th>CGA Connection</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Air</td>
<td>590</td>
<td>A5</td>
</tr>
<tr>
<td>Argon, helium or nitrogen</td>
<td>580</td>
<td>N2</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>320</td>
<td>CD</td>
</tr>
<tr>
<td>Corrosives</td>
<td>660</td>
<td>C6</td>
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<tr>
<td>Hydrocarbons</td>
<td>510</td>
<td>HY</td>
</tr>
<tr>
<td>Hydrogen, methane or carbon monoxide</td>
<td>350</td>
<td>H2</td>
</tr>
<tr>
<td>Hydrogen chloride</td>
<td>330</td>
<td>HC</td>
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<tr>
<td>Oxygen</td>
<td>540</td>
<td>O2</td>
</tr>
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</table>

Ordering Information

To order a regulator safety mounting bracket, complete the part number using the Part Number Key. For example, to order a single cylinder wall-mount in brass with rigid pigtail, check valve and a CGA 580 connection, the part number would be 8RM-WB1-CV-N2.

Regulator safety mounting bracket assemblies for acetylene service require flashback arresters (IGAFAA4F4M). All assemblies ordered with CGA 510 will be billed and shipped with optional flashback arresters installed on each pigtail unless the order specifies with which gas it will be used.

Air Liquide does not recommend the use of PTFE-lined stainless steel flexible hoses in bracket assemblies designed for oxygen service and will not provide such assemblies when ordered with CGA 540 connections.

Air Liquide does not recommend the use of PTFE-lined stainless steel flexible hoses with hydrogen, helium or high-purity applications. Although these gases are compatible with the materials of construction, experience shows that permeation through the PTFE core can occur.