The 633 Series Duplex supports two banks of high pressure cylinders for applications where continuous gas supply is not required. A heavy-duty valve manually controls the bank priority, and line or station regulators should be installed at the point of use to ensure constant delivery pressure. Use of Acetylene requires flashback arrestor on pigtails.

**Advanced Features**

- Manual Switchover
- 6700 Line Regulator
  - High flow capacity
- Pressure Ranges 0-15 to 0-200 PSIG
  - Broad range of applications
- Integral Maniflex Manifold System
  - Easy installation and expansion
- Left and Right Banks
  - Maintain reserve supply

**Applications**

**Pipeline Supply Source**
- 200 PSIG delivery pressure meets NFPA guidelines without compromising flow capacity (15 PSIG maximum for Acetylene)

**Fuel Gases**
- Safely supply acetylene and other fuel gases for cutting, heating or welding with OSHA regulation compliant manifold systems. Use of Acetylene requires flashback arrestor on pigtails. All fuel gases require flashback arrestors.

**Materials**

**Delivery Regulator Body**
- Brass barstock

**Delivery Regulator Bonnet**
- Forged Brass

**Master Valve**
- Forged Brass

**Diaphragm**
- Fabric-reinforced Neoprene

**Internal Seals**
- PTFE Teflon®

**Seat**
- Viton®

**Piping**
- Forged Brass

**Specifications**

**Maximum Inlet Pressure**
- 3000 PSIG (210 BAR)

**Temperature Range**
- -40 to 140°F (-40 to 60°C)

**Maximum Flow**
- 6000 SCFH (2830 lpm)

**Outlet Connection**
- ½” FPT

**Weight**
- 23 lbs. (10.4 kg)
Mounting and Dimensional Information for the 633 Series Duplex HF

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Outlet Pressure</td>
<td>Manifold Style</td>
<td>Pigtail Style</td>
<td>Stations/side</td>
<td>Inlet</td>
<td>Options</td>
</tr>
<tr>
<td>633</td>
<td>1: 0-15 PSIG</td>
<td>1: Standard Length (12’ between stations) with One Cylinder/Station</td>
<td>1: One Station</td>
<td></td>
<td>PTFE-lined pigtails for oxygen service include accumulator extensions to prevent ignition from adiabatic compression. Not for use with Helium or Hydrogen.</td>
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<tr>
<td></td>
<td>2: 0-40 PSIG</td>
<td>2: 24” Rigid Copper</td>
<td>2: Two Stations</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>3: 0-120 PSIG</td>
<td>3: Standard Length (12’ between stations) with 2 Cylinders/Station</td>
<td>3: Three Stations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: 0-200 PSIG</td>
<td>4: Compact Length (6’ between stations) with One Cylinder/Station</td>
<td>4: Four Stations</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>5: 0-15 PSIG (Redline)</td>
<td>5: 36” Flexible Stainless Steel Armor Case with Stainless Steel Core</td>
<td>5: Five Stations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6: Compact Length (6’ between stations) with 2 Cylinders/Station</td>
<td>6: 36” Flexible Stainless Steel Armor Case with Stainless Steel Core</td>
<td>6: Six Stations</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>7: 24” Flexible Stainless Steel Armor Case with Stainless Steel Core</td>
<td>7: Seven Stations</td>
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<tr>
<td></td>
<td>8: 36” Rigid Brass with Flash Arrestor (CGA 300 &amp; 510 Acetylene only)</td>
<td>8: Eight Stations</td>
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<tr>
<td>Related Options</td>
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<tr>
<td>Order Number</td>
<td>Description</td>
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<tr>
<td>830-7437</td>
<td>Supports 2 standard length (12”) manifold extensions installed consecutively</td>
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<tr>
<td>See page 40</td>
<td>Precise pressure delivery at the point of use</td>
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<tr>
<td>801-8530</td>
<td>Use of Acetylene requires flashback arrestors on pigtails. Meets OSHA and NFPA Std. 51 requirements and complies with ISO 5175 (heavy class) DIN 8521, and BS 6158. See pg. 44.</td>
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