• **High Flow Engine Start Reducing Station**

**FEATURES**

- Isolators and bypass facility allows supply of air during regulator maintenance.
- Non-isolatable relief valve protections of downstream system and pipe work.
- Downstream pressure gauge isolator with vent for gauge blow-down.
- 50 micron inlet filter protects regulator and downstream equipment.
- Cartridge principle allows full maintenance of all valves with block in situ.
- Material selection provides good resistance to corrosive marine environment.

**SPECIFICATIONS**

- Application: Brief bursts of high flow energy for engine start application.
- Design Pressure: 6000 psig (420 bar) at 100°F (38°C)
- Temperature Range: -4 to 240°F Fahrenheit (116°F)
- Shock tested to Grade A medium-weight shock, Class 1, Type A Hull mounted, MIL-S901D
- Vibration tested to MIL-STD-167-1, Type 1

**APPLICATIONS**

- Air, CO2, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

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**TABLE**

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Weight lbs (Est'd)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP 1539</td>
<td>1400</td>
<td>3”</td>
<td>3½”</td>
<td>Length, L (13.4”)</td>
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<td>30.4”</td>
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</tbody>
</table>
• **Breathing Air Reducing Station**

**FEATURES**
- Regulator isolators and bypass facility for ease of maintenance.
- Non-isolatable relief valve for protection of downstream system and pipe work.
- Downstream pressure gauge isolator with vent for gauge blow-down.
- 50 micron inlet filter protects regulator, downstream valves and equipment.
- Cartridge principle allows maintenance of all valves with block left in situ.
- All materials and cleaning compatible with breathing requirements.

**SPECIFICATIONS**
- Applications: Divers Quality Air, Workshop Compressed Air, Engine Start Air
- Design Pressure: 6000 psig (420 bar) at 100°F (38°C)
- Temperature Range: -4 to 240° Fahrenheit (116°C)
- Max. Flow Rates: "To Customer Specifications."
- Shock tested to Grade A medium-weight shock, Class 1, Type A Hull mounted, MIL-S901D
- Vibration tested to MIL-STD-167-1, Type 1

**APPLICATIONS**
- Air, CO2, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

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<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight lbs (Est'd)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
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<tbody>
<tr>
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<td>⅛&quot;</td>
<td>⅛&quot;</td>
<td>Length, L: 8.3&quot;</td>
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<tr>
<td>CC-0505-101</td>
<td>110</td>
<td>⅛&quot;</td>
<td>⅛&quot;</td>
<td>Width, W: 6&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Height, H: 3.75&quot;</td>
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</tbody>
</table>

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Rev. 9/9/14
Breathing Air Twin Reducing Station

**FEATURES**

- Regulator isolators and bypass facility allows supply of air during maintenance.
- Non-isolatable relief valve protections of downstream system and pipe work.
- Upstream and downstream pressure gauge isolators with vent for gauge blow-down.
- 50 micron inlet filter protects regulator and downstream equipment.
- Cartridge principle allows full maintenance of all valves with block in situ.
- Twin Regulators give back-up in the event of failure of one regulator.

**SPECIFICATIONS**

- Applications: Breathing air supply to hyperbaric chambers.
- Design Pressure: 4000 psig (280 bar) at 100°F (38°C)
- Temperature Range: -4 to 240° Fahrenheit (116°C)
- Max. Flow Rates: "To Customer Specifications."
- Shock tested to 80g for 5 milliseconds in half sine wave. Any orientation.
- Vibration tested to MIL-STD-167-1, Type 1

**APPLICATIONS**

- Air, CO₂, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

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**SCHEMATIC DIAGRAM**

**FEATURES**

- Inlet Stop Valve
- Inlet Gauge Valve
- Regulator 1
- Regulator 2
- Outlet Valve
- Outlet Relief Valve
- Outlet Gauge Valve
- Bypass Valve

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight lbs (Est’d)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
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<tbody>
<tr>
<td>RSA 01</td>
<td>136</td>
<td>3”</td>
<td>3½”</td>
<td>Length, L: 12.6” Width, W: 6.5” Height, H: 5.5”</td>
</tr>
</tbody>
</table>

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**APPLICATIONS**

- SSN’s
- SSBN’s
- DIESEL ELECTRIC
- CVN’s
- DD’s and CG’s
- LNG

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www.dynamiccontrols.co.uk

www.cunicocorp.com
Two Stage Gas Reducing Station

- Regulator isolators and bypass facility allows supply of air during maintenance.
- Non-isolatable relief valve protects downstream system and pipe work.
- Upstream and downstream pressure gauge isolators with vent for gauge blow-down.
- 50 micron inlet filter protects regulator and downstream equipment.
- Cartridge principle allows full maintenance of all valves with block in situ.

SPECIFICATIONS

- Applications: Air supply to all functions or gas supply.
- Design Pressure: 280 bar (4000 psig) at 40°C
- Temperature Range: -25 to 120°C
- Shock tested to 80g for 5 milliseconds in half sine wave. Any orientation.
- Vibration tested to MIL-STD-167-1, Type 1 (available on request).

APPLICATIONS

- Air, CO2, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight kg (Est’d)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
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<tbody>
<tr>
<td>RSA</td>
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<td>¼” NPS</td>
<td>½” NPS</td>
<td>Length, L 13.6”</td>
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<tr>
<td></td>
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<td></td>
<td>Width, W 12.5”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Height, H 6.8”</td>
</tr>
</tbody>
</table>

www.dynamiccontrols.co.uk

www.cunicocorp.com
• **2 Stage High Flow Reducing Station with Remote Actuation For Rocket Launch Application**

**FEATURES**

- Outlet stop valve is actuated using 80psig pneumatic actuator gives remote on/off operation.
- Non-isolatable relief valve protects downstream system and pipe work.
- Intermediate relief valve not required.
- Cartridge principle allows full maintenance of all valves with block welded in situ.
- Material selection provides good resistance to humid environment on site.
- Instrumentation drillings removes requirement for substantial pipe work.

**SPECIFICATIONS**

- Application: Remote Switch on/off of high flow supply of air or gas.
- Design Pressure: 6000 psig (400 bar) at 100 °F (38°C).
- Temperature Range: -4 to 248°F (-20 to 120°C).
- Max. Flow Rate: *"To Customer Specifications."*
- Relief valve blow-down 10% and accumulation 10%.
- Outlet pressure ranges from 1Barg to 280Barg with 10% lockup and 10% droop.
- Non-return valve cracking pressure 0.1Barg.
- Switched non-return valve provides indication of relief valve operation.

**APPLICATIONS**

- Air, CO2, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

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**Drawing Information**

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Weight lbs (Est’d)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
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<tbody>
<tr>
<td>RRU 6010-RB/1</td>
<td>1000</td>
<td>1½“</td>
<td>3½“</td>
<td>Length, L 18.7”</td>
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**Rev. 9/9/14**

www.dynamiccontrols.co.uk  www.cunicocorp.com
• Single Stage Reducing Station with Remote Actuation for Helium For Rocket Launch Application

**FEATURES**

- Outlet stop valve is actuated using 80psig pneumatic actuator gives remote on/off operation.
- Non-isolatable relief valve protects downstream system and pipe work.
- Intermediate relief valve not required.
- Cartridge principle allows full maintenance of all valves with block welded in situ.
- Material selection provides good resistance to humid environment on site.
- Instrumentation drillings removes requirement for substantial pipe work.

**SPECIFICATIONS**

- Application: Remote Switch on/off of helium shroud gas supply.
- Design Pressure: 6000 psig (400 bar) at 100 °F (38°C).
- Temperature Range: -4 to 248°F (-20 to 120°C).
- Max. Flow Rate: “To Customer Specifications.”
- Relief valve blow-down 10% and accumulation 10%.
- Outlet pressure ranges from 1Barg to 280Barg with 10% lockup and 10% droop.
- Non-return valve cracking pressure 0.1Barg.
- Switched non-return valve provides indication of relief valve operation.

**APPLICATIONS**

- Air, CO2, Hydrogen, Methanol, Nitrogen, Water, Oil, Methane

**Drawing No.**

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Weight lbs (Est’d)</th>
<th>Inlet Pipe Size</th>
<th>Outlet Pipe Size</th>
<th>Block Dimensions</th>
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<tbody>
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<td>Length, L: 8.3”</td>
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<td>Width, W: 8.3”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Height, H: 5.1”</td>
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</tbody>
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