**APPLICATIONS**
- Designed for cylinder regulator applications
- Ideally suited for pure, inert and corrosive gas
- Applications such as:
  - Calibration gases
  - Controlled atmosphere
  - High purity gas carrying

**KEY FEATURES**
- This single stage regulator is based on the Cartridge seat Technology.
- Compact, ergonomic and lightweight design makes this regulator suitable for many applications.
- Accurate pressure control for reliable service.
- Handwheel in compliance with ATEX regulation and easy to clean
- Could be equipped with a shut off valve
- Relief valve seat seals material*  
  - Brass Version: EPDM
  - Stainless Steel: FPM

*Other on demand

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Refer to page 90

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SINGLE STAGE HIGH-PRESSURE REGULATORS

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Female ports</th>
<th>Weight</th>
<th>Inlet pressure</th>
<th>Outlet pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼” NPT (inlet / outlet)</td>
<td>± 1.3 kg ± 2.4 lbs</td>
<td>200/300 bar 2900/4350 psi</td>
<td>1,5/4/10/16/35 bar 21.75/58/145/232/508 psi</td>
</tr>
<tr>
<td>Valve seal</td>
<td>Leak rate</td>
<td>Nominal Flow</td>
<td>Oxygen use</td>
</tr>
<tr>
<td>PTFE</td>
<td>10⁻⁶ mbar l/s He</td>
<td>Cv</td>
<td>OK with brass and stainless steel</td>
</tr>
<tr>
<td>O-ring</td>
<td>Temperature range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTFE</td>
<td>-40°C to + 60°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diaphragm</td>
<td>Gauges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hastelloy®</td>
<td>High and low pressure (¼” NPT)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FLOW CURVES**

FLOW CURVE SC 380-3 REGULATOR

- **SET:** 4 bar / 43.5 psi
- **PRESSURE** bar and psi
- **OUTLET PRESSURE** bar and psi
- **FLOW RATE** in Nitrogen (N₂)

FLOW CURVE SC 380-10 REGULATOR

- **SET:** 10 bar / 145 psi
- **PRESSURE** bar and psi
- **OUTLET PRESSURE** bar and psi
- **FLOW RATE** in Nitrogen (N₂)

FLOW CURVE SC 380-16 REGULATOR

- **SET:** 16 bar / 232 psi
- **PRESSURE** bar and psi
- **OUTLET PRESSURE** bar and psi
- **FLOW RATE** in Nitrogen (N₂)

FLOW CURVE SC 380-35 REGULATOR

- **SET:** 35 bar / 507.5 psi
- **PRESSURE** bar and psi
- **OUTLET PRESSURE** bar and psi
- **FLOW RATE** in Nitrogen (N₂)

**PRODUCT CONFIGURATOR**

<table>
<thead>
<tr>
<th>Body Material</th>
<th>Inlet Pressure</th>
<th>Port Configuration</th>
<th>Outlet pressure</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Gauges</th>
<th>Gas Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC L</td>
<td>200 bar</td>
<td>280</td>
<td>10</td>
<td>N</td>
<td>N</td>
<td>Without</td>
<td>0</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>300 bar</td>
<td>380</td>
<td>L</td>
<td>10</td>
<td>1.5 NPT</td>
<td>4 Compression tube fitting UMS16</td>
<td>With</td>
</tr>
</tbody>
</table>

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