SERIES S 20 AD | LINE REGULATOR FOR ACETYLENE (C₂H₂)

APPLICATIONS
- The Series S 20 AD is used as line regulator or point of use for acetylene applications such as atomic absorption analyzers.

KEY FEATURES
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- With its compact design, the rear threads and its fixing ring (option) it can be used for wall or panel mounting.
- Multiple mounting positions possible due to multiple inlet ports.
- For use with acetylene: this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.

★ Accurate pressure delivery
★ Compact design
★ 2 inlets / 2 outlets
★ Rear inlet for panel mounting
★ Acetylene applications

Special requirements on request

ACETYLENE APPLICATION REGULATORS

- Bellow single stage
- Purity up to 6.0
- Inlet pressure:
  20 bar (290 psi)
- Outlet pressure:
  1.5 bar (21.75 psi)

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Female ports</th>
<th>Weight</th>
<th>Inlet pressure</th>
<th>Outlet pressure</th>
<th>Nominal Flow</th>
<th>Oxygen use</th>
</tr>
</thead>
<tbody>
<tr>
<td>G ¾ or ¼ NPT (inlet/outlet)</td>
<td>± 0.5 kg</td>
<td>20 bar</td>
<td>1.5 bar</td>
<td>1.5 Nm³/h (C₂H₂)</td>
<td>No</td>
</tr>
<tr>
<td>EPDM</td>
<td>± 1.1 lbs</td>
<td>290 psi</td>
<td>21.75 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPDM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AISI 316L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FLOW CURVES**

**FLOW CURVE S 20-AD REGULATOR**

SET: 1.5 bar / 21.75 psi

Blue line P₁ = 20 bar / 290 psi
Red line P₁ = 10 bar / 145 psi

**FLOW RATE - Nm³/h (NLpm) in Nitrogen (N₂)**

**PRODUCT CONFIGURATOR**

<table>
<thead>
<tr>
<th>Body Material</th>
<th>End Connections</th>
<th>Gauges</th>
<th>Ports Configuration</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome plated brass</td>
<td>L</td>
<td>1</td>
<td>Without</td>
<td>FR0</td>
</tr>
<tr>
<td>¾ NPT - ¼ NPT</td>
<td>G ¾ - G ¾</td>
<td>A</td>
<td>Standard Configuration</td>
<td>A</td>
</tr>
<tr>
<td>Without Fixing Ring</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reverse inlet/outlet</td>
<td></td>
<td>R</td>
<td>With Fixing Ring</td>
<td>FR1</td>
</tr>
</tbody>
</table>
**SERIES S 25 AD | CYLINDER REGULATOR FOR ACETYLENE (C$_2$H$_2$)**

- Bellow single stage
- Purity up to 6.0
- Inlet pressure: 20 bar (290 psi)
- Outlet pressure: 1.5 bar (21.75 psi)

**APPLICATIONS**
- Used as a cylinder regulator for acetylene applications such as atomic absorption analyzers.

**KEY FEATURES**
- Bellow technology provides a large range of accurate outlet pressures in a compact design.
- The Series S 25 could be equipped with several cylinder connection types.
- 2 gauges for high and low pressure.
- For use with acetylene, this product must imperatively be installed with a flash back arrestor complying with standard EN 730 located downstream.

**Acetyle applications**

★ Accurate pressure delivery
★ Compact design
★ 1 inlet / 2 outlets
★ Rear Inlet with cylinder connection
★ Acetylene applications

Special requirements on request

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**Right view**

Dimensions:
- 131 mm (5.16”)
- 37.5 mm (1.48”)
- 50 mm (1.97”)
- 121.5 mm (4.76”)
- 40°
- 108 mm (4.25”)
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Inlet ports</th>
<th>Outlet ports</th>
<th>Weight</th>
<th>Leak rate</th>
<th>Temperature range</th>
<th>Nominal Flow</th>
<th>Oxygen use</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₂H₂, Cylinder connection in accordance to standard</td>
<td>G ¾ or ¼ NPT</td>
<td>± 0.5 kg</td>
<td>10⁻⁹ mbar l/s He</td>
<td>-20°C to +60°C</td>
<td>1.5 Nm³/h (C₂H₂)</td>
<td>No</td>
</tr>
</tbody>
</table>

| | | | | | | |
| Seat seal | O-ring | Bellow | | | | |
| EPDM | EPDM | AISI 316L | | | | |

<table>
<thead>
<tr>
<th>Inlet pressure</th>
<th>Outlet pressure</th>
<th>Flow Curve S 2.5-AD Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 bar 290 psi</td>
<td>1.5 bar 21.75 psi</td>
<td>SET: 1.5 bar / 21.75 psi</td>
</tr>
</tbody>
</table>

### FLOW CURVES

FLOW CURVE S 2.5-AD REGULATOR  
SET: 1.5 bar / 21.75 psi

### PRODUCT CONFIGURATOR

<table>
<thead>
<tr>
<th>S</th>
<th>L</th>
<th>25</th>
<th>AD</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Gauges</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>25</td>
<td>AD</td>
<td>AFNOR H Type (cylind. connect.)</td>
<td>H G ¾ - G ¾</td>
<td>EPDM</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25</td>
<td>AD</td>
<td>British Standard</td>
<td>BS4 ¼ NPT - ¼ NPT</td>
<td>G</td>
<td>Without high and low pressure gauges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25</td>
<td>AD</td>
<td>CGA Standard</td>
<td>510</td>
<td></td>
<td>With high and low pressure gauges</td>
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<tr>
<td></td>
<td></td>
<td>25</td>
<td>AD</td>
<td>DIN Standard</td>
<td>477-12</td>
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