SRV 803
Safety Relief Valve

The SRV 803 relief valve is installed downstream of pressure regulators to relieve limited volumes of gas. Used where venting to the atmosphere is acceptable, it provides a cost-effective solution to prevent safety shut-off valves from triggering in case of creep leaks from regulators. This valve is ideal for medium pressure settings and offers a wide setting range and robust performance.

**KEY BENEFITS**
- Compact design
- Accurate operation
- High flow capacity
- Easy maintenance
- Reliable
- Tight shut-off

**DESCRIPTION**
The SRV 803 relief valve is a spring-loaded throttling relief valve, where a diaphragm measures the system (inlet) pressure, a spring provides the initial load to the diaphragm and establishes the relief set point, and a valve throttles the relief flow.

**Technical Specifications**
- Maximum relief (inlet) pressure: 5 bar
- Relief set pressure range: 0.15 - 5 bar
- Operating temperature: -20°C to +60°C
- Acceptable gases: Natural gas, town gas, propane, butane, air, nitrogen or any non-corrosive gas

**Sizes & Connections**
- Sizes: DN 1"
- Type: Gas female threaded

**Materials**
- Body-Casing-Cover: Spheroidal graphite cast iron SFP 50
- Valve: Nitrile Rubber
- Diaphragm: Rubber, fabric reinforced
- Internal Parts: Brass and Stainless Steel
### Flow Capacity

<table>
<thead>
<tr>
<th>Relief Set Pressure (bar)</th>
<th>Buildup Over Relief Pressure Setting (mbar)</th>
<th>Capacity at Standard Conditions (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>80</td>
<td>38</td>
</tr>
<tr>
<td>0.8</td>
<td>160</td>
<td>96</td>
</tr>
<tr>
<td>1.5</td>
<td>150</td>
<td>48</td>
</tr>
<tr>
<td>1.5</td>
<td>300</td>
<td>125</td>
</tr>
</tbody>
</table>

### SRV Spring Selection Tables - DN 1"**

<table>
<thead>
<tr>
<th>SRV</th>
<th>Spring Code</th>
<th>Spring Characteristic</th>
<th>Wu (bar)</th>
<th>Maximum Available Relief (inlet) Pressure bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>803</td>
<td>20565125</td>
<td>2.5 35 6</td>
<td>0.15 ÷ 0.25</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>20565126</td>
<td>3 35 6</td>
<td>0.20 ÷ 0.68</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>20565127</td>
<td>3.5 35 6</td>
<td>0.20 ÷ 0.85</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>20565128</td>
<td>4 35 6</td>
<td>0.40 ÷ 1.50</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>20565129</td>
<td>4.5 35 6</td>
<td>0.50 ÷ 230</td>
<td>2.5</td>
</tr>
<tr>
<td>803/TR</td>
<td>20565127</td>
<td>3.5 35 6</td>
<td>0.40 ÷ 1.30</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>20565128</td>
<td>4 35 6</td>
<td>0.80 ÷ 2.20</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>20565129</td>
<td>4.5 35 6</td>
<td>1.80 ÷ 2.30</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>20565131</td>
<td>5 35 6.5</td>
<td>2.50 ÷ 5.00</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**Note:** Accuracy at the initial leak point, at which the relief valve begins to discharge, is in the range of ± 5% of the setting.

### Standard Conditions:
- Absolute pressure of 1.013 bar
- Temperature of 15°C
The flow rates are indicated for a 0.6 specific gravity gas

### Overall Dimensions (mm)

Type SRV 803/803/TR / Weight 2.2 kg

### Information to be specified when ordering:
- Model
- Inlet pressure
- Relief pressure range
- Connection type
- Maximum flow rate
- Kind of gas
- Quantity required

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For more information, contact your local sales representative or agency:

Itron GmbH
Hardeckstraße 2
D-76185 Karlsruhe
Germany
Phone: +49-721 5981 0
Fax: +49-721 5981 189

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