PRESSURE RELIEF VALVE SV 811L
4.5 up to 45.0 bar


Benefits
- type-approval from Federal Motor Transport Authority according to Regulation (EC) 79/2009 and (EC) 406/2010
- individual opening pressure from 4.5 up to 45.0 bar
- TÜV-certification of pressure setting
- stainless steel 1.4404
- compact size for easy, problem free installation
- range of inlet connections
- adapter for connection to ventilation pipe

Approvals
Company certified according to ISO 9001 and PED 2014/68/EU Module H
CE-marked according to:
- PED 2014/68/EU
- type-approval from Federal Motor Transport Authority e1 00 0006

SV811L

| Type-approval          | Influence of pressure
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 30 bar</td>
<td>no type-approval is required according to Regulation (EC) No. 79/2009 Appendix I b</td>
</tr>
<tr>
<td>&gt; 30 bar</td>
<td>e1 00 0006</td>
</tr>
</tbody>
</table>

| Opening pressure       | 4.5 up to 45.0 bar     |
| Gases                 | hydrogen               |
| Material              | housing and metal turned parts made of stainless steel 1.4404, pressure spring made of stainless steel 1.4310, valve seal EPDM |
| Width across flats    | 27 mm                  |
| Weight                | approx. 360 g          |
| Drill hole (d₀)       | 6.0 mm                 |
| Temperature range     | -40 °C/-40 °F up to max. +85 °C/+185 °F |
| Adapter               | for connection to ventilation pipe at the outlet |
| Burst pressure of housing | 900 bar |
|                        | heavy duty version (Model SV811) 1600 bar |
PRESSURE RELIEF VALVE SV 811L
4.5 up to 45.0 bar

Flow capacity for hydrogen at 23 °C / 73.4 °F (valid only for atmospheric back pressure)

<table>
<thead>
<tr>
<th>Opening pressure [bar]</th>
<th>4.5</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
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</thead>
<tbody>
<tr>
<td>Volume flow [m³/h]</td>
<td>194</td>
<td>216</td>
<td>259</td>
<td>302</td>
<td>345</td>
<td>388</td>
<td>431</td>
<td>474</td>
<td>517</td>
<td>560</td>
<td>603</td>
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<tr>
<td>Opening pressure [bar]</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
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<td>25</td>
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<tr>
<td>Volume flow [m³/h]</td>
<td>646</td>
<td>689</td>
<td>732</td>
<td>914</td>
<td>964</td>
<td>1015</td>
<td>1065</td>
<td>1116</td>
<td>1166</td>
<td>1216</td>
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<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
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<td>36</td>
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<tr>
<td>Volume flow [m³/h]</td>
<td>1312</td>
<td>1362</td>
<td>1412</td>
<td>1462</td>
<td>1512</td>
<td>1562</td>
<td>1612</td>
<td>1662</td>
<td>1712</td>
<td>1762</td>
<td>1812</td>
</tr>
<tr>
<td>Opening pressure [bar]</td>
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<td>38</td>
<td>39</td>
<td>40</td>
<td>41</td>
<td>42</td>
<td>43</td>
<td>44</td>
<td>45</td>
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<tr>
<td>Volume flow [m³/h]</td>
<td>1862</td>
<td>1912</td>
<td>1962</td>
<td>2011</td>
<td>2161</td>
<td>2211</td>
<td>2261</td>
<td>2210</td>
<td>2260</td>
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</table>

Type / Variants / Versions

<table>
<thead>
<tr>
<th>Overall length [mm]</th>
<th>Inlet male thread (M)</th>
<th>Outlet female thread (F)</th>
<th>Drill hole d₀ [mm]</th>
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</thead>
<tbody>
<tr>
<td>SV811L</td>
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</tr>
<tr>
<td>95.2</td>
<td>11/16-16 UNF-2A</td>
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<tr>
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<tr>
<td>96.5</td>
<td>G 1/4; 1/4&quot; NPT</td>
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<td>M24 x 1</td>
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<tr>
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<td>G 3/8; 3/8&quot; NPT</td>
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<tr>
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<td>6.0</td>
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</tr>
<tr>
<td></td>
<td>G 3/4; 3/4&quot; NPT</td>
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</tr>
<tr>
<td></td>
<td>M20 x 1.5</td>
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