DOME PRESSURE REGULATOR SET 757 LE/S
Complete solution, own-medium controlled

NEW – with smart-option
See page 3

High performance dome-loaded pressure regulator set.
For high and varying flows requiring maximum pressure stability.

Features

- **Pilot Control Tube (PCT)**
  One of the features enabling highly accurate control of outlet pressure

- **Balanced Seat Design (BSD)**
  Further enabling control precision, high reliability and low maintenance

- **A complete solution, ready to use**
  With integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested

- **Own-medium controlled**
  Enabling autonomous operation (no separate gas supply required)

- **Closed system**
  Self-relieving design, but no gas is released to atmosphere

- **Simple to install and operate**
  Removable spindle enables simple setting of the required outlet pressure
  Can be positioned at any angle / orientation
  For indoor and outdoor installation.

- **Glycerine-filled manometer,**
  unfilled version for oxygen

Maintenance

Annual testing of body leak tightness is recommended. Depending on application, moving wetted parts may need periodic replacement.

Device-specific Repair-Kit available upon request.

Approvals

Company certified according to ISO 9001, ISO 22000 and PED 2014/68/EU Module H

CE-marked according to PED 2014/68/EU

ATEX 2014/34/EU with ignition hazard analysis according to EN 1127-1, DIN EN 13463-1 and ZH1/200

Analysed for Food Safety per HACCP-Analysis

Fulfills the requirements of EU Regulations (EC) 1935/2004, and (EC) 2023/2006

Fulfills the requirements of German Food and Feed (LFGB) Law, and is suitable for contact with food gases

Available upon request

Lockable spindle cap

Certificates and test reports

Other Dome types

Switchover systems / parallel supply systems

Customer-specific / customised versions
## DOME PRESSURE REGULATOR SET 757 LE/S

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<table>
<thead>
<tr>
<th>Model</th>
<th>Max. inlet pressure</th>
<th>Outlet pressure</th>
<th>Connections</th>
<th>Kv-Value</th>
<th>Cv-Value</th>
<th>Coefficient as per DIN EN ISO 7291</th>
<th>Temperature range</th>
<th>Housing</th>
<th>Cartridge</th>
<th>Membrane</th>
<th>O-Ring</th>
<th>Spring</th>
<th>Pressure gauge</th>
<th>Weight approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>757LE/S</td>
<td>CO₂ 25 bar 363 PSI</td>
<td>0.5 - 10 bar 7 - 145 PSI</td>
<td>Flange DN 50/PN40 DIN EN 1092-1 G 2 female 2&quot; NPT female</td>
<td>15</td>
<td>17.4</td>
<td>Coefficient of increase in pressure after closing $R = 0.27$ Coefficient of unevenness $I = 0.32$</td>
<td>-30 °C to +50 °C -22 °F to +122 °F</td>
<td>Brass</td>
<td>Stainless steel (1.4305)</td>
<td>CR</td>
<td>NBR</td>
<td>Stainless steel (1.4310)</td>
<td>Stainless steel housing DIN EN ISO 5171 for O₂, DIN EN 837-1 glycerine-filled for other gases</td>
<td>with flange approx. 26 kg / 57 lb without flange approx. 17 kg / 37 lb</td>
</tr>
</tbody>
</table>

### Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</th>
<th>G</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>H</th>
<th>L</th>
<th>O (O-ring)</th>
<th>S</th>
<th>SW</th>
</tr>
</thead>
<tbody>
<tr>
<td>757</td>
<td>2&quot; female</td>
<td>G</td>
<td>197.6</td>
<td>79</td>
<td>8.5</td>
<td>approx. 237</td>
<td>141</td>
<td>–</td>
<td>77</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>2&quot; NPT female</td>
<td>G</td>
<td>197.6</td>
<td>79</td>
<td>8.5</td>
<td>approx. 237</td>
<td>205 (L+2xC₁)</td>
<td>–</td>
<td>77</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>DN 50/PN 40</td>
<td>G</td>
<td>197.6</td>
<td>79</td>
<td>8.5</td>
<td>approx. 237</td>
<td>281</td>
<td>62</td>
<td>77</td>
<td>90</td>
</tr>
</tbody>
</table>

For more pressure regulators visit www.domepressureregulators.com
DOME PRESSURE REGULATOR
with smart-option

Top quality valves combined with high-tech sensors and electronic components – that's the smart-option from WITT.

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<thead>
<tr>
<th>Model</th>
<th>757LE/S - with smart-option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases</td>
<td>non-flammable gases</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 67</td>
</tr>
<tr>
<td>Parameters / Accuracy</td>
<td>Temperature ± 2 °C, Pressure ± 0.7% end value 100 bar, current gas flow - upon request</td>
</tr>
<tr>
<td>Interface</td>
<td>M12, 12-pin plug</td>
</tr>
<tr>
<td>Signals</td>
<td>4 - 20 mA</td>
</tr>
<tr>
<td>Weight</td>
<td>with flange approx. 26 kg</td>
</tr>
<tr>
<td></td>
<td>without flange approx. 17 kg</td>
</tr>
</tbody>
</table>

other materials / material combinations upon request

Smart functions of dome pressure regulator

- measurement of inlet, outlet and pilot pressure
- measurement of inlet and outlet gas temperature
- calculation of current gas flow
- digital display (option)
- analogue 4 – 20 mA signals

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Pressure control performance examples (N₂, 20 °C : apply conversion factor of x 0.8 for CO₂)

Flow capacity “envelope”

Example:
Inlet pressure: 32 bar
Outlet pressure: 26 bar
Max. Flow: 5,000 Nm³/h
Gas: N₂

individual graphs with your parameters upon request
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Connection combinations

<table>
<thead>
<tr>
<th>Repair-Kit</th>
<th></th>
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<tr>
<td><strong>Model</strong></td>
<td><strong>Order-No.</strong></td>
</tr>
<tr>
<td>757LE/S</td>
<td>962.000065</td>
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<th>lockable spindle cap</th>
<th></th>
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<tr>
<td><strong>Model</strong></td>
<td><strong>Order-No.</strong></td>
</tr>
<tr>
<td>757LE/S</td>
<td>966.061400</td>
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