DOME PRESSURE REGULATOR SET 767 LE/S
Complete solution, own-medium controlled

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
Fulfils the requirements of EU Regulations (EC) 1935/2004, and (EC) 2023/2006
Fulfils 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 767 LE/S

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<table>
<thead>
<tr>
<th>Model</th>
<th>Connections</th>
<th>Max. inlet pressure</th>
<th>Outlet pressure</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>767LE/S</td>
<td>Flange DN 100/PN40 or Flange DN 80/PN40 DIN EN 1092-1 G 3 female 3&quot; NPT female</td>
<td>CO₂ 25 bar 363 PSI</td>
<td>0.5 - 10 bar 7 - 145 PSI</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>45 kg / 99 lb</td>
</tr>
</tbody>
</table>

### Connections
- Flange DN 100/PN40 or Flange DN 80/PN40 DIN EN 1092-1 G 3 female 3" NPT female

### Specifications
- **Outlet pressure**: 0.5 - 16 bar 7 - 232 PSI
- **Max. inlet pressure**: CO₂ 25 bar 363 PSI, O₂ 30 bar 435 PSI, other gases 40 bar 580 PSI
- **Coefficient of increase in pressure after closing**: R = 0.27
- **Coefficient of unevenness**: I = 0.32
- **Temperature range**: -30 °C to +50 °C, -22 °F to +122 °F

### Other Material
Other material (material combinations) upon request

### Dimensions in mm

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</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>767</td>
<td>3&quot; female</td>
<td>237.6</td>
<td>124</td>
<td>17</td>
<td>approx. 316</td>
<td>214</td>
<td>–</td>
<td>122</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>3&quot; NPT female</td>
<td>237.6</td>
<td>124</td>
<td>17</td>
<td>approx. 316</td>
<td>320 (L+2xC₁)</td>
<td>–</td>
<td>122</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>DN 100/PN 40</td>
<td>237.6</td>
<td>124</td>
<td>17</td>
<td>approx. 316</td>
<td>444</td>
<td>123.6</td>
<td>122</td>
<td>95</td>
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<tr>
<td></td>
<td>DN 80/PN 40</td>
<td>237.6</td>
<td>124</td>
<td>17</td>
<td>approx. 316</td>
<td>424</td>
<td>113</td>
<td>122</td>
<td>95</td>
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Other connections upon request

For more pressure regulators visit www.domepressureregulators.com
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Pressure control performance examples ($N_2$, 20 °C : apply conversion factor of x 0.8 for CO$_2$)

Flow capacity “envelope”

Example:
Inlet pressure: 32 bar$_{\text{abs}}$
Outlet pressure: 26 bar$_{\text{abs}}$
Max. Flow: 10,000 Nm$^3$/h
Gas: $N_2$

individual graphs with your parameters upon request
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Connection combinations

![Diagram of DOME PRESSURE REGULATOR SET 767 LE/S]

Repair-Kit

<table>
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<tr>
<th>Model</th>
<th>Order-No.</th>
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<tr>
<td>767LE/S</td>
<td>962.000061</td>
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Lockable spindle cap

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<td>966.061400</td>
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