DOME PRESSURE REGULATOR SET 747 LE/S-ES
Complete solution, own-medium controlled

High performance stainless steel 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

Operation / Usage

Ideal for process gas supply where pressure accuracy is required even when inlet pressures and flow rates are varying.

High flow rates and outlet pressure accuracy are achieved, even when the difference between inlet and outlet pressures is small.

Also suitable for various aggressive and toxic gases.
**DOME PRESSURE REGULATOR SET 747 LE/S-ES**

Complete solution, own-medium controlled

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</th>
<th>Dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>747</td>
<td>1&quot; female</td>
<td>A: 197.6 B: 79 C: 5 approx. 214 H: 120.5 L: 48 S: 48 SW: –</td>
</tr>
<tr>
<td></td>
<td>1&quot; NPT female</td>
<td>A: 197.6 B: 79 C: 5 approx. 214 H: 182.5 (L+2xC) L: 48 S: 41</td>
</tr>
</tbody>
</table>

**Inlet pressure**
- CO₂: 25 bar (363 PSI)
- O₂: 30 bar (435 PSI)
- other gases: 40 bar (580 PSI)

**Outlet pressure**
- 0.5 - 10 bar
- 7 - 145 PSI
- 0.5 - 16 bar
- 7 - 232 PSI
- 0.5 - 30 bar
- 7 - 435 PSI
- 0.5 - 30 bar
- 7 - 435 PSI

**Connections**
- G 1 female
- 1" NPT female

**Kv-Value**
- 3.6

**Cv-Value**
- 4.2

**Coefficient as per DIN EN ISO 7291**
- Coefficient of increase in pressure after closing: R = 0.22
- Coefficient of unevenness: I = 0.08

**Temperature range**
- -30 °C to +50 °C
- -22 °F to +122 °F

**Housing**
- Stainless steel (1.4404)

**Cartridge**
- Stainless steel (1.4404)

**Membrane**
- CR

**O-Ring**
- NBR

**Spring**
- Stainless steel (1.4310)

**Pressure gauge**
- Stainless steel housing DIN EN 5171 for O₂
- DIN EN 837-1 glycerine-filled for other gases

**Weight approx.**
- 14 kg / 31 lb

For more pressure regulators visit www.domepressureregulators.com
DOME PRESSURE REGULATOR SET 747 LE/S-ES
Complete solution, own-medium controlled

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

Flow capacity “envelope”

Example:
- Inlet pressure: 32 bar<sub>abs</sub>
- Outlet pressure: 26 bar<sub>abs</sub>
- Max. Flow: 1,200 Nm<sub>3</sub>/h
- Gas: N₂

individual graphs with your parameters upon request
DOME PRESSURE REGULATOR SET 747 LE/S-ES
Complete solution, own-medium controlled

<table>
<thead>
<tr>
<th>Repair-Kit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Order-No.</td>
</tr>
<tr>
<td>747LE/S-ES</td>
<td>962.000073</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>lockable spindle cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>747LE/S-ES</td>
</tr>
</tbody>
</table>