DOME PRESSURE REGULATOR SET 737 LE-HD/S-ES FOR CO₂
Complete solution - own medium controlled

High-performance stainless steel dome-loaded pressure regulator-set.
For high and varying flows requiring maximum pressure stability.
A complete solution, applicable as a manifold pressure regulator per DIN EN ISO 7291.

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

- **Closed system**
  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

Maintenance

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

- Device-specific Maintenance-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
- Analyzed 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

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.

Own-medium controlled, with integrated pilot gas regulator, meaning no separate gas supply is required.

Also suitable for various aggressive and toxic gases.

Available upon request

- Lockable spindle cap
- Certificates and test reports
- Other Dome types
- Switchover systems/parallel supply systems
- Customer-specific/customized versions
DOME PRESSURE REGULATOR SET 737 LE-HD/S-ES FOR CO2
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<table>
<thead>
<tr>
<th>Model</th>
<th>max. inlet pressure</th>
<th>CO₂</th>
<th>1450 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>outlet pressure</td>
<td>7 - 377 PSI</td>
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</tr>
<tr>
<td>Order-No.</td>
<td></td>
<td>292-0103</td>
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</tr>
<tr>
<td>Inlet</td>
<td>G 3/4&quot; female with filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>G 1&quot; female</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kv-Value</td>
<td></td>
<td>1.65</td>
<td></td>
</tr>
<tr>
<td>Cv-Value</td>
<td></td>
<td>1.9</td>
<td></td>
</tr>
<tr>
<td>Coefficient as per DIN EN ISO 7291</td>
<td>Coefficient of increase in pressure after closing</td>
<td>R = 0.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coefficient of unevenness</td>
<td>I = 0.32</td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-22 °F to +122 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter</td>
<td>Bronze 80 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure gauge</td>
<td>Stainless steel housing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>Stainless steel (1.4404)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cartridge</td>
<td>Stainless steel (1.4404)</td>
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<tr>
<td>Membrane</td>
<td>CR</td>
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</tr>
<tr>
<td>O-Ring</td>
<td>NBR</td>
<td></td>
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</tr>
<tr>
<td>Spring</td>
<td>Stainless steel (1.4310)</td>
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</tr>
<tr>
<td>Weight approx.</td>
<td></td>
<td>39 lb</td>
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For more pressure regulators visit www.wittgas.us

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Pressure control performance examples (\(N_2\), 68°F : apply conversion factor of x 0.8 for CO\(_2\))

Flow capacity "envelope"

Example:
- Inlet-Pressure: 28 bar\textsubscript{abs}
- Outlet-Pressure: 20 bar\textsubscript{abs}
- Max. Flow: 446 Nm\(^3\)/h
- Gas: CO\(_2\)

individual graphs with your parameters upon request
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<table>
<thead>
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DR2.3a ES USA - 01/18 subject to change