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
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

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 / customised versions
## DOME PRESSURE REGULATOR SET 737 LE-HD/S-ES FOR CO2

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<table>
<thead>
<tr>
<th>Model</th>
<th>Coefficient as per DIN EN ISO 7291</th>
<th>Temperature range</th>
<th>Filter</th>
<th>Pressure gauge</th>
<th>Housing</th>
<th>Cartridge</th>
<th>Membrane</th>
<th>O-Ring</th>
<th>Spring</th>
<th>Weight approx.</th>
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<tr>
<td>737LE-HD/S-ES</td>
<td>Coefficient of increase in pressure after closing R = 0.27</td>
<td>-30 °C to +50 °C</td>
<td>Bronze 80 µm</td>
<td>Stainless steel housing</td>
<td>Stainless steel (1.4404)</td>
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<td>NBR</td>
<td>Stainless steel (1.4310)</td>
<td>17.5 kg / 39 lb</td>
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<td>Coefficient of unevenness I = 0.32</td>
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### Specifications

- **Model**: 737LE-HD/S-ES
- **Max. inlet pressure**: CO₂ 100 bar / 1450 PSI
- **Outlet pressure**: 0.5 - 26 bar / 7 - 377 PSI
- **Order-No.**: 292-0103
- **Inlet**: G 3/4” female with filter
- **Outlet**: G 1” female
- **Kv-Value**: 1.65
- **Cv-Value**: 1.9
- **Coefficient of increase in pressure after closing**: R = 0.27
- **Coefficient of unevenness**: I = 0.32
- **Temperature range**: -30 °C to +50 °C
- **Filter**: Bronze 80 µm
- **Pressure gauge**: Stainless steel housing
- **Housing**: Stainless steel (1.4404)
- **Cartridge**: Stainless steel (1.4404)
- **Membrane**: CR
- **O-Ring**: NBR
- **Spring**: Stainless steel (1.4310)
- **Weight approx.**: 17.5 kg / 39 lb

### Dimensions in mm

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

Flow rate [m³/h], Pᵥ = Inlet pressure [bar]
1 m³/h = 35.3 scfh

Outlet pressure [bar]

Flow capacity "envelope"

Example:
Inlet-Pressure: 28 barₐ
Outlet-Pressure: 20 barₐ
Max. Flow: 446 Nm³/h
Gas: CO₂

individual graphs with your parameters upon request
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