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

High-performance 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.

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 FOR CO2

**Complete solution - own medium controlled**

<table>
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<tr>
<th>Model</th>
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<td><strong>737LE-HD/S</strong></td>
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**max. inlet pressure**
- CO₂: 1450 PSI

**outlet pressure**
- 7 - 377 PSI

**Order-No.**
- 292-0058

**Inlet**
- G 3/4" female with filter

**Outlet**
- G 1" female

**Kv-Value**
- 1.65

**Cv-Value**
- 1.9

**Coefficient as per DIN EN ISO 7291**
- Coefficient of increase in pressure after closing: R = 0.27
- Coefficient of unevenness: I = 0.32

**Temperature range**
- -22 °F to +122 °F

**Filter**
- Bronze 80 µm

**Pressure gauge**
- Stainless steel housing DIN EN ISO 5171

**Housing**
- Brass

**Cartridge**
- Stainless steel (1.4305)

**Membrane**
- CR

**O-Ring**
- EPDM

**Spring**
- Stainless steel (1.4310)

**Weight approx.**
- 39 lb

**Model** | **Dimensions in inches**
---|---
**737LE-HD/S** | **A** | **B** | **C** | **G₁** | **G₂** | **H** | **L** | **S**
| 7.8 | 3.11 | 0.67 | 3/4" F | 1" F | approx. 9.17 | 7.01 | 1.89 |
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Pressure control performance examples (N₂, 68°F : apply conversion factor of x 0.8 for CO₂)

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

Outlet pressure [bar]

Flow capacity "envelope"

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

individual graphs with your parameters upon request
DOME PRESSURE REGULATOR SET 737 LE-HD/S FOR CO2
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<table>
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