

# DOME PRESSURE REGULATOR SET 737 LE-HD/S

## 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.

#### 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.

#### 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

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

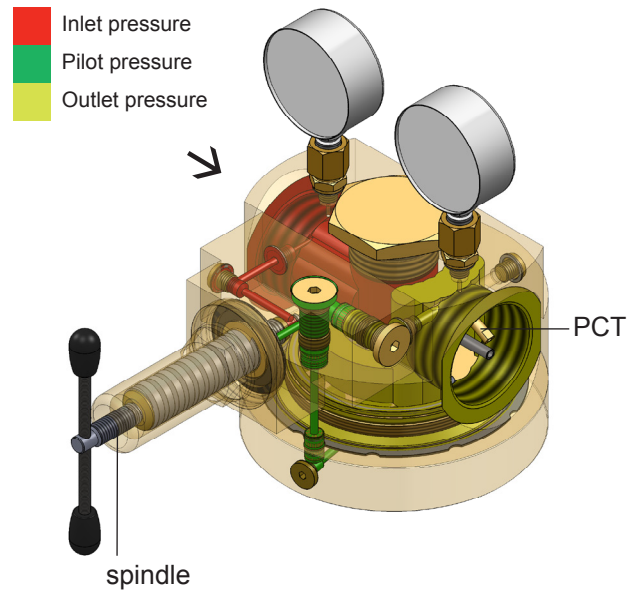
Switchover systems / parallel supply systems

Customer-specific / customised versions

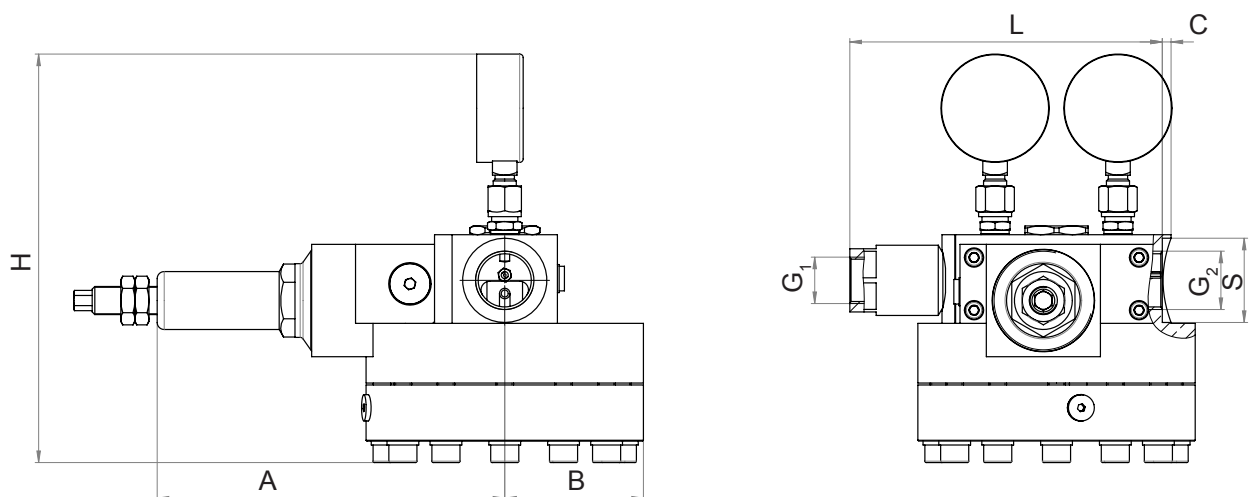
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	Model		
	737LE-HD/S		
max. inlet pressure	CO <sub>2</sub> 25 bar 363 PSI	O <sub>2</sub> 200 bar 2901 PSI Burn out test BAM Report AZ 17055507	other gases 300 bar 4351 PSI
outlet pressure	0.5 - 60 bar 7 - 870 PSI		
Order-No.	292-0004		
Inlet	G 3/4" 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	-30 °C to +50 °C -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	NBR		
Spring	Stainless steel (1.4310)		
Weight approx.	17.5 kg / 39 lb		



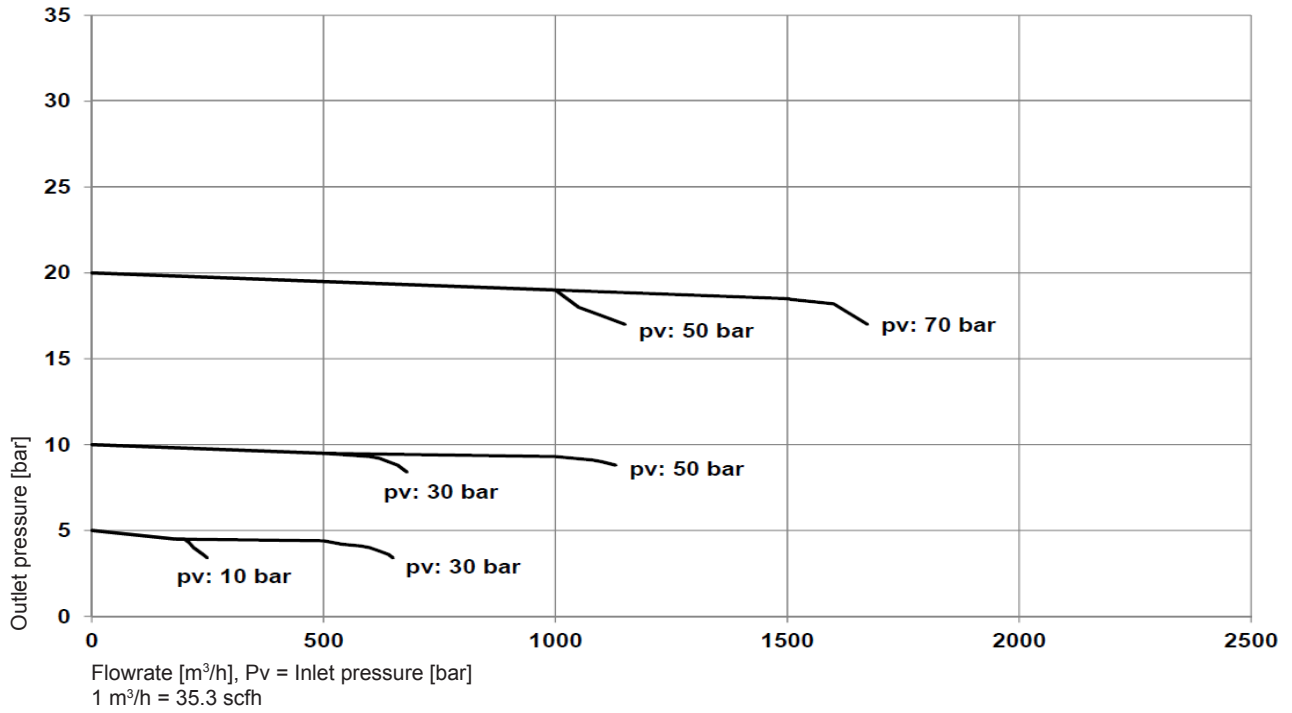
Model	Dimensions in mm							
	A	B	C	G <sub>1</sub>	G <sub>2</sub>	H	L	S
737LE-HD/S	198	79	17	3/4" F	1" F	approx. 233	178	48



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Pressure control performance examples (N<sub>2</sub>, 20 °C : apply conversion factor of x 0.8 for CO<sub>2</sub>)



Repair-Kit	
Model	Order-No.
737LE-HD/S	962.000084

lockable spindle cap	
Model	Order-No.
737LE-HD/S	966.061400

