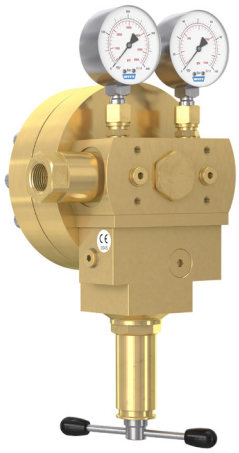
DOME PRESSURE REGULATOR SET 737 LE-HD/S

Complete solution - own medium controlled

www.wittgas.com



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

Depending on application, moving wetted parts may need replacement every 1-3 years.

For this we offer our Maintenance Set with original spare parts.

Options

- Lockable spindle cap
- Maintenance Set

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

Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems

Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

Available upon request

Certificates and test reports

Other Dome types

Switchover systems / parallel supply systems

Customer-specific / customised versions

WITT-Gasetechnik GmbH & Co KG, Salinger Feld 4-8, D-58454 Witten, Tel. +49 (0)2302-8901-0, witt@wittgas.com

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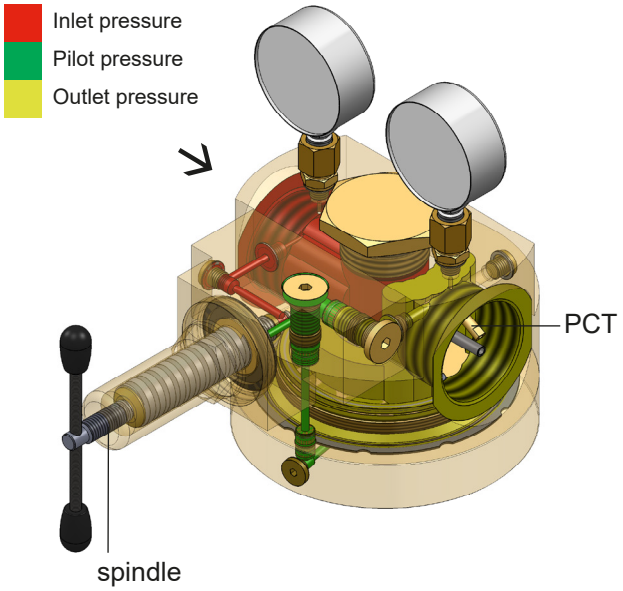
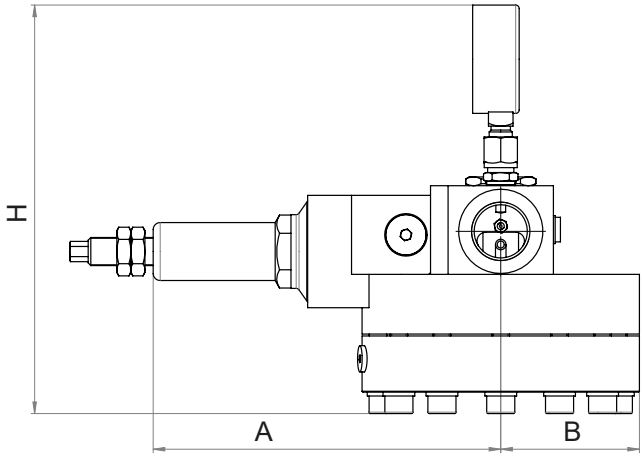
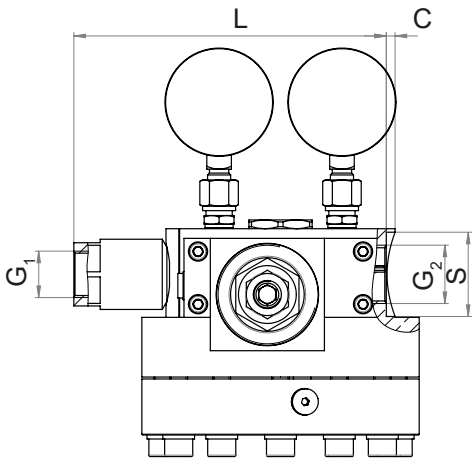
	Model		
	737LE-HD/S		
max. inlet pressure	CO_2 25 bar 363 PSI	O_2 200 bar 2901 PSI Burn out test BAM Report AZ 17055507	other gases 300 bar 4351 PSI
outlet pressure	0.5 - 16 bar 7 - 232 PSI	0.5 - 60 bar 7 - 870 PSI	
Order-No.	292-0004		
Inlet	G 3/4″ female with filter		
Outlet	G 1″ female		
Kv-Value	1.65		
Cv-Value	1.9		
Coefficient as per DIN EN ISO 7291	Coefficient of increase in pressure after closing R = 0.36 Coefficient of unevenness I = 0.04		
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_1	G_2	H	L	S
737LE-HD/S	198	79	5	3/4″ F	1″ F	approx. 233	178.5	48





For more pressure regulator visit www.domepressureregulators.com

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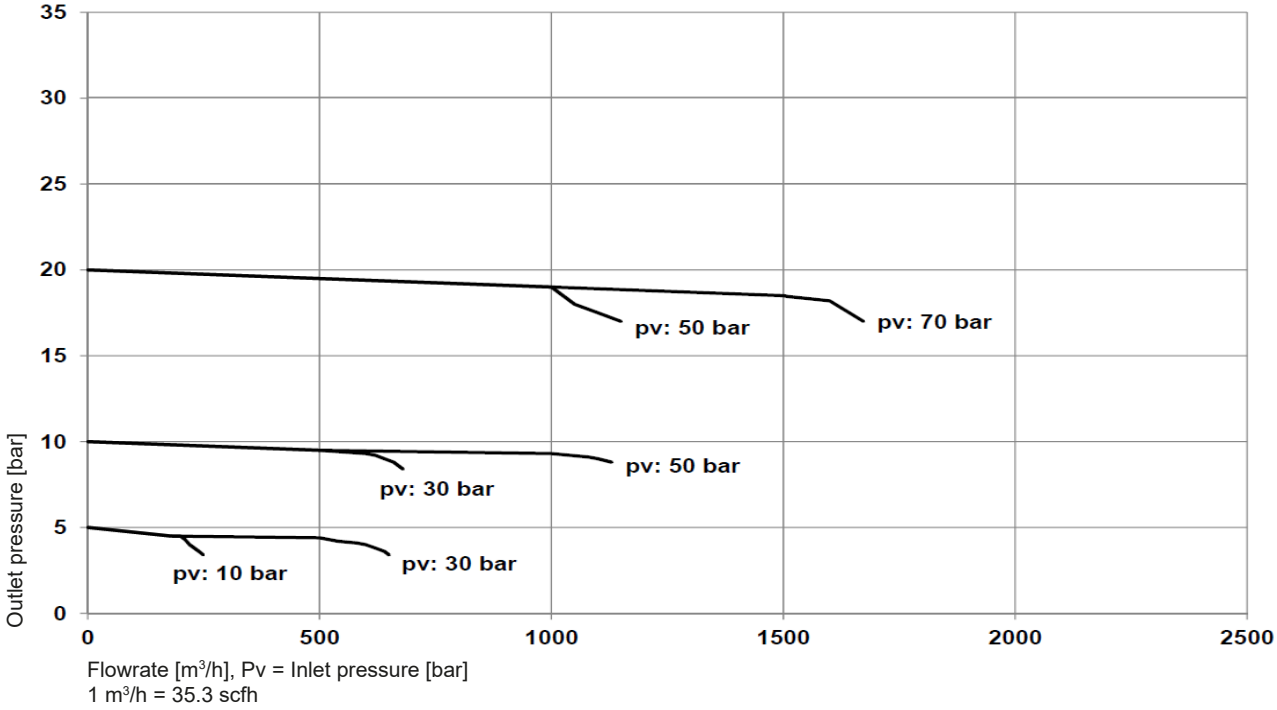
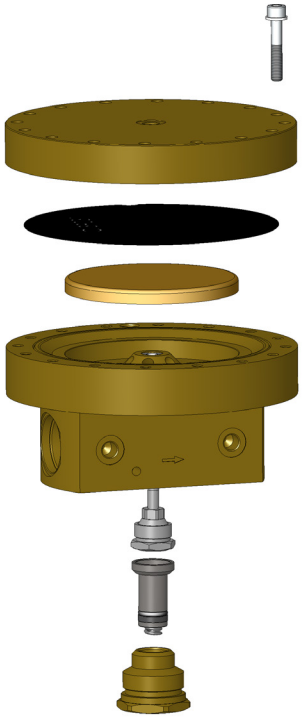
Pressure control performance examples (N_2, 20 °C : apply conversion factor of x 0.8 for CO_2)

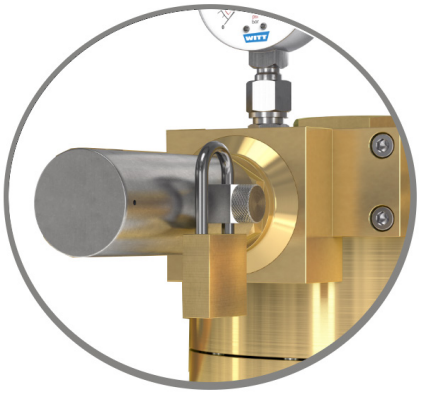


Flowrate [m³/h], Pv = Inlet pressure [bar]
1 m³/h = 35.3 scfh

Maintenance Set	
Model	**Order-No.**
737LE-HD/S	962.000084

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





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