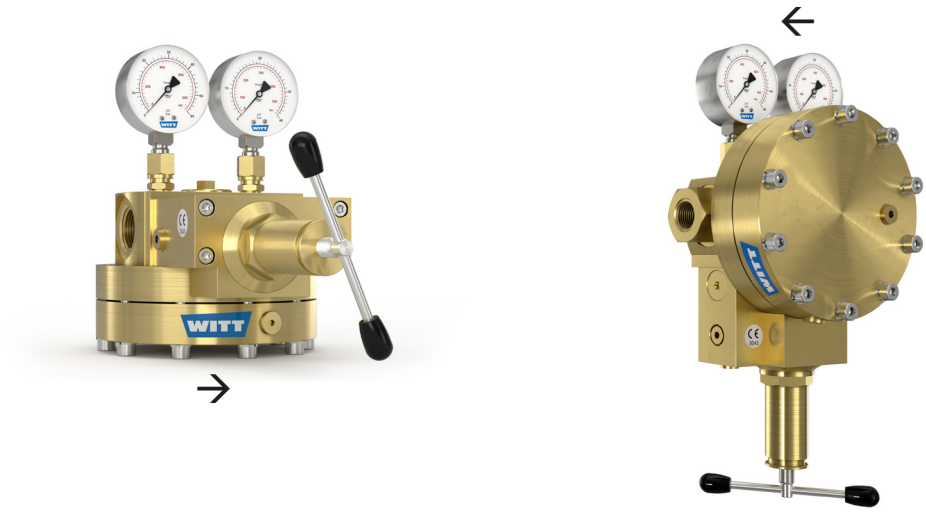
DOME PRESSURE REGULATOR SET 737 LE/S

Complete solution, own-medium controlled

www.wittgas.com



High performance dome-loaded pressure regulator set.

For high and varying flows requiring maximum pressure stability.

Features

- **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
  (no separate gas supply required)
- **Closed system**
  Self-relieving design, but 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.
- Glycerine-filled manometer,
  unfilled version for oxygen

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.

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

Complies with the requirements of EU Directive 2014/68/EU (Pressure Equipment Directive) in accordance with Article 4(3)

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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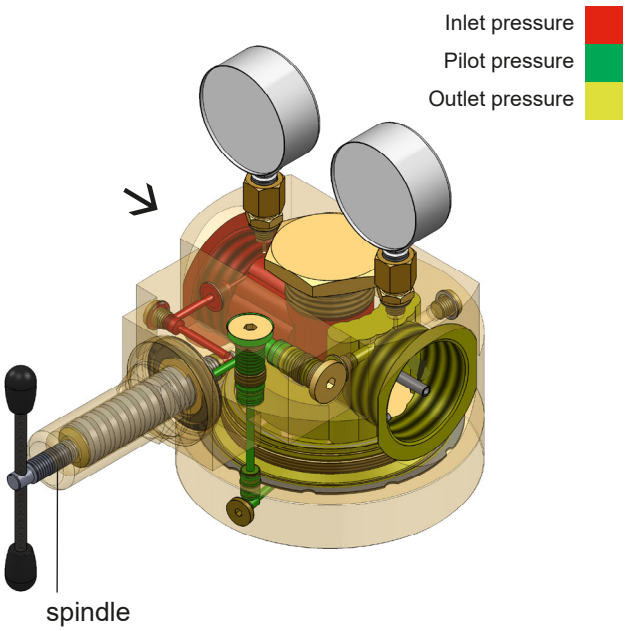
	Model		
	737LE/S		
Max. inlet pressure	CO_2 25 bar 363 PSI	O_2 30 bar 435 PSI	other gases 40 bar 580 PSI
Outlet pressure	0.5 - 10 bar 7 - 145 PSI		
	0.5 - 16 bar 7 - 232 PSI	0.5 - 29 bar 7 - 421 PSI	0.5 - 30 bar 7 - 435 PSI
Connections	G 3/4 female, 3/4″ NPT female		
Kv-Value	2.4		
Cv-Value	2.8		
Coefficient as per DIN EN ISO 7291	Coefficient of increase in pressure after closing R = 0.12 Coefficient of unevenness I = 0.01		
Temperature range	-30 °C to +50 °C -22 °F to +122 °F		
Housing	Brass		
Cartridge	Stainless steel (1.4305)		
Membrane	CR		
O-Ring	NBR		
Spring	Stainless steel (1.4310)		
Pressure gauge	Stainless steel housing DIN EN ISO 5171 for O_2, DIN EN 837-1 glycerine-filled for other gases		
Weight approx.	16.5 kg / 36 lb		

other material (material combinations) upon request

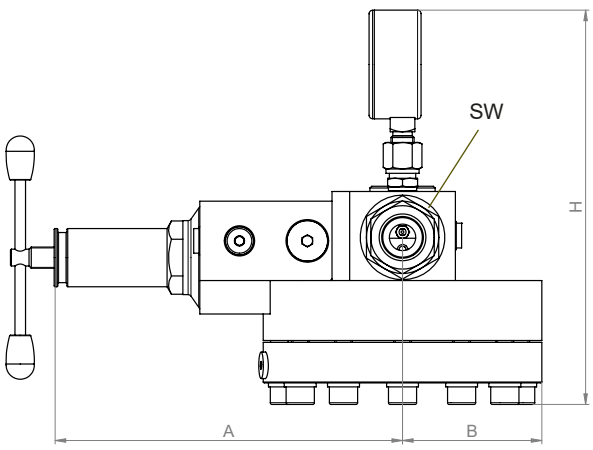


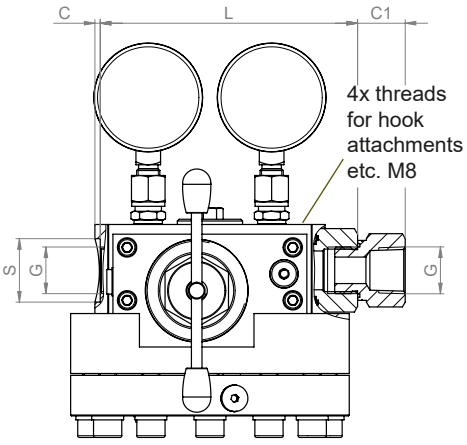
Model	Connection G	Dimensions in mm							
		A	B	C	C_1	H	L	S	SW
737	3/4″ female	197	79	3	-	approx. 224	146	36	32
	3/4″ NPT female	197	79	3	27	approx. 224	200 (L+2xC_1)	36	36

other connections upon request

version

3/4″ female 3/4″ NPT female





For more pressure regulators visit www.domepressureregulators.com

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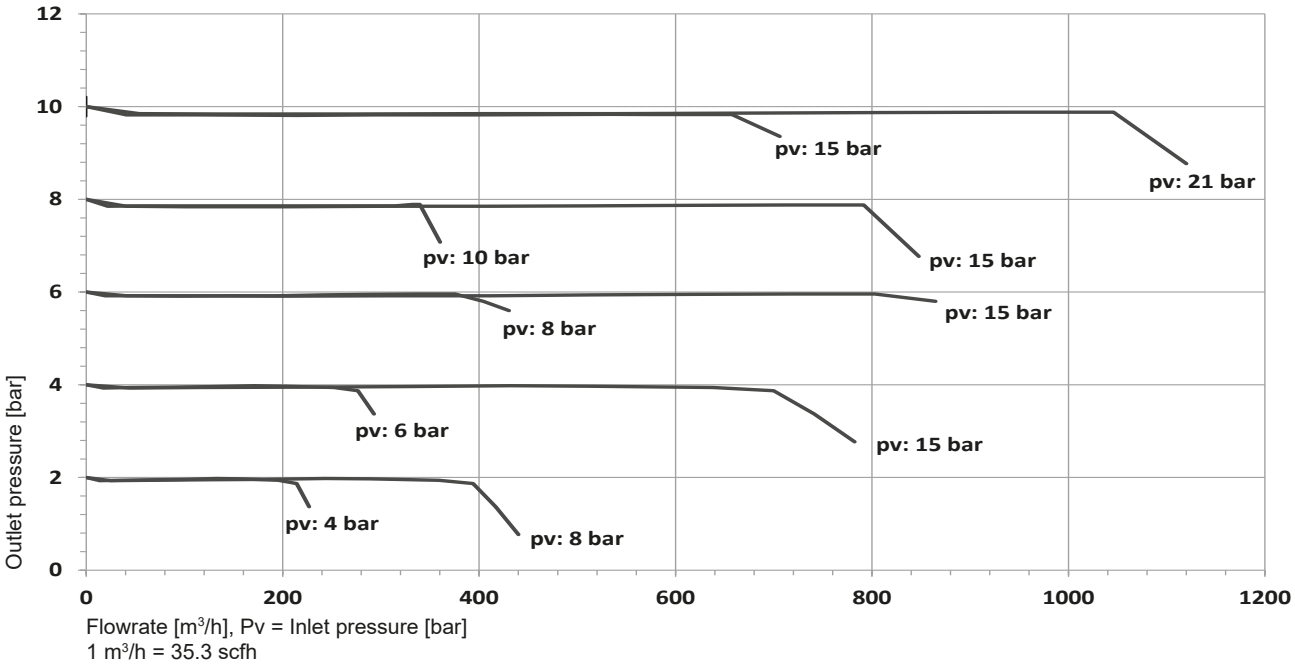
Pressure control performance examples (N_2, 20 °C : apply conversion factor of x 0.8 for CO_2)

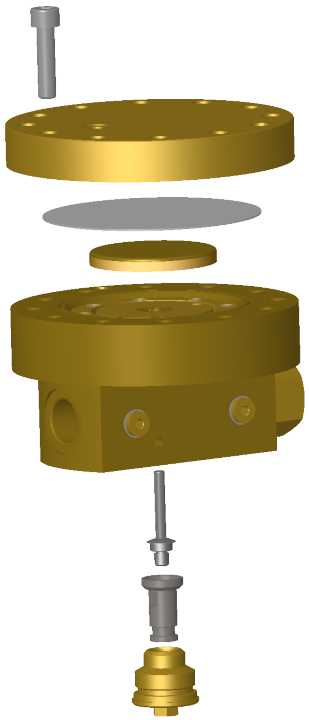


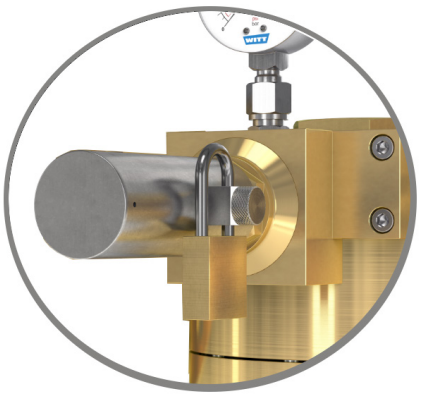
Flowrate [m³/h], Pv = Inlet pressure [bar]
1 m³/h = 35.3 scfh

individual graphs with your parameters upon request

Maintenance Set	
Model	**Order-No.**
737LE/S	962.000162

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





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