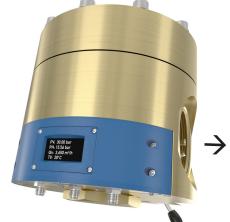


DOME PRESSURE REGULATOR SET 757 LE/S SMART Complete solution, own-medium controlled,

including smart features

High performance dome-loaded pressure regulator set for inline installation, combined with high-tech sensor technology and electronic components. The dome pressure regulator 757LE/S Smart can signal, for example, pressures, temperatures and an indication of the flow rate. These signals can be used to optimize performance, safety and maintenance regimes.

WITT dome pressure regulator technology is unique in the world as it offers maximum pressure constancy even at high and fluctuating flow rates or with small differences between inlet and outlet pressure. Now the dome pressure regulator 757LE/S is also available with smart functions: Important operating parameters can be displayed via 4-20 mA signals, enabling the gas supply to be monitored and optimised. Continuous data logging enables quality control and is an important step towards networked production.



Features of WITT dome pressure regulator technology

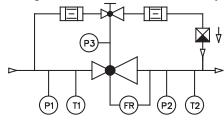
The extraordinary pressure constancy of WITT dome pressure regulators is the result of a complex technology consisting of perfectly matched components:

- 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, 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

Smart Features

In the smart dome pressure regulator, temperature and pressure values are captured by high-tech sensors and transmitted via 4-20 mA signals. Depending on customer requirements, the following features are available individually or combined:

- Signaling and display of inlet pressure (P1) and outlet pressure (P2) in bar and temperature (T1 and T2) in °C
- Signaling and display of the pilot pressure (P3) in bar
- Indication of the instantaneous gas flow rate (FR) in Nm³/h



Model variations Smart	Features
"Standard"	Display, indication of inlet pressure and temperature as well as outlet pressure and temperature
"Standard + P3"	"Standard" features, plus indication of pilot pressure
"Standard + Flow"	"Standard" features, plus indication of flow rate
"Standard + P3 + Flow"	"Standard" features, plus indication of pilot pressure and flow rate

Approvals

Company certified according to ISO 9001, ISO 22000 and PED 2014/68/EU Module H CE-marked according to PED 2014/68/EU

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

Optional

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

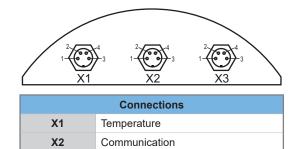
DOME PRESSURE REGULATOR SET 757 LE/S SMART **Technical data**



	757LE/S Smart						
	CO ₂	0,	other gases				
Max. inlet pressure	25 bắr	40 bar					
	363 PSI 435 PSI 580 PS 0.5 - 10 bar						
Outlet pressure	7 - 145 PSI						
Outlet pressure	0.5 - 16 bar 7 - 232 PSI	0.5 - 30 bar 7 - 435 PSI					
Connections	Flange DN 50/PN40 DIN EN 1092-1 G 2 female 2″ NPT female						
Kv-Value	15						
Cv-Value	17.4						
	Coefficient of increase						
Coefficient as per	in pressure after closing R = 0.17						
DIN EN ISO 7291	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)						
Application	Non-flamr Flammabl	Non-flammable gases including O ₂ Flammable gases outside Ex Zone					
Power supply	24 V DC						
Protection class	IP 44						
Parameters /	Temperature ± 2 °C						
Accuracy	Pressure approx. 1.5%						
Interface	current gas flow - upon request M12, 4-pin plug						
Signals	4 - 20 mA						
0	with flange approx. 26 kg / 57 lb						
Weight	without flange approx. 20 kg / 07 kg without flange approx. 17 kg / 37 lb						



Installation position 757LE/S Smart



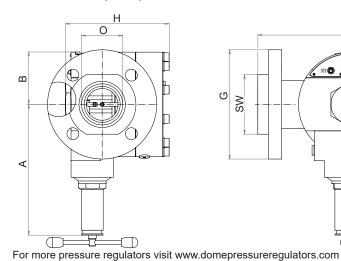
Pressure

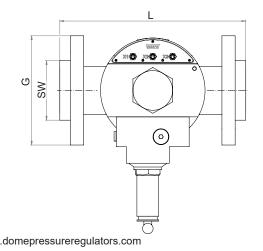
other materials / material combinations upon request

Model	Connection	Dimensions in mm								
	G	А	в	С	C ₁	н	L	O (O-ring)	S	sw
757	2" female	198.2	79	8.5	_	approx. 158.5	141	-	77	_
	2" NPT female	198.2	79	8.5	32	approx. 158.5	205 (L+2xC ₁)	_	77	70
	DN 50/PN 40	198.2	79	8.5	_	approx. 158.5	281	64x3	77	90

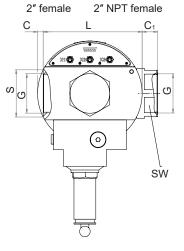
Х3

other connections upon request





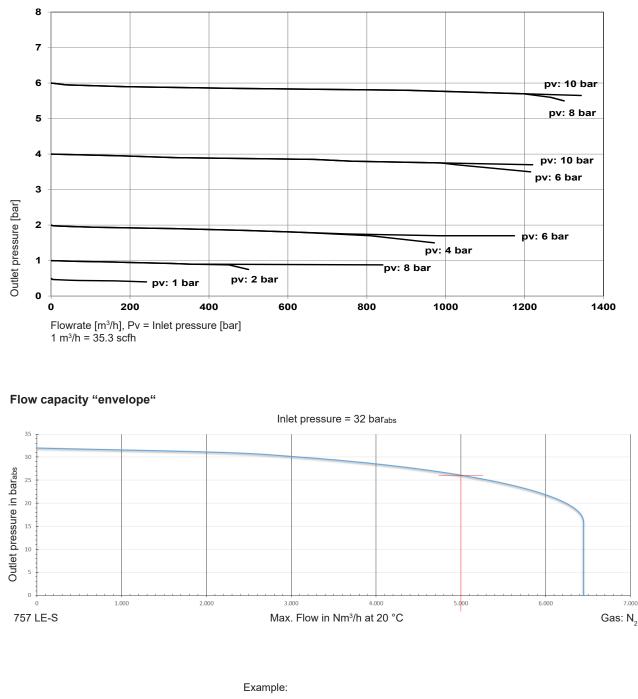
version

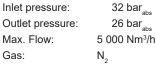




DOME PRESSURE REGULATOR SET 757 LE/S SMART Pressure control performance

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



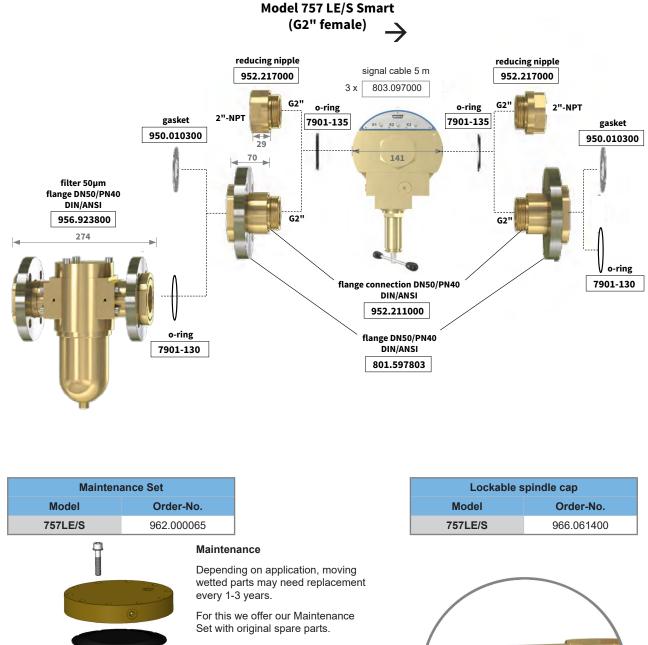


individual graphs with your parameters upon request

DOME PRESSURE REGULATOR SET 757 LE/S SMART



Connections and options





The lockable spindle cap protects the dome pressure regulator from unauthorised or accidental adjustment.