

WITT-Gas filter LE5 protects downstream components and systems from contamination and condensates.

Its size allows high flows with low pressure drop and compliance with the EIGA, AIGA and CGA maximum velocity limits.

Benefits

- ultra fine filtering out of mechanical impurities through bronze
- broad range of uses – compatible with many technical gases
- change of filter possible while installed due to userfriendly design
- high flowrate thanks to flow maximising design (760 Nm³/h for O₂ at 30 bar inlet pressure and 50 mbar pressure drop)
- condensate can be collected and removed using condensate drain
- optimized design for easy installation and maintenance
- reliable filtering performance increases service life of downstream fittings and equipment

Operation / Usage

- Gas filter are designed for installation in pipelines
- the gas purifiers with condensate drain must be installed vertically

Maintenance

- the condensate should be drained at regular intervals
- the filter inserts must be checked regularly and replaced if necessary

Approvals

Company certified according to ISO 9001 and PED 2014/68/EU Module H and D

CE-marked according to:
- PED 2014/68/EU

Designed for Oxygen Service in accordance with EIGA 13/20, CGA G-4.4 and AIGA 021/20: Oxygen Pipeline and Piping Systems

GAS FILTER LE5

Max. working pressure [bar]	Material	Temperature	Filtering fineness	Connection [inch]	Weight [kg]	Seals	Order-No.
Acetylene (A) 1.5 Argon (Ar) Helium (He) Nitrogen (N) 40.0 Hydrogen (H) Compressed air (D) Carbon Monoxide (CO)	Housing – Brass;				15.60	EPDM	076-102
Carbon dioxide (CO2) 25.0							
Argon (Ar) Helium (He) Natural gas (M) Nitrogen (N) LPG (P) 40.0 Hydrogen (H) Compressed air (D) Carbon Monoxide (CO)	Filter – Bronze;	-40 °C to +100 °C	15 µm	inlet / outlet G 2 RH F	15.60	NBR	076-100
Oxygen (O) 30.0							
Acetylene (A) 1.5 Argon (Ar) Helium (He) Nitrogen (N) 40.0 Hydrogen (H) Compressed air (D) Carbon Monoxide (CO)	Housing – Stainless steel (1.4404);	Oxygen (O) +60 °C			14.50	EPDM	076-103
Carbon dioxide (CO2) 25.0							
Argon (Ar) Helium (He) Natural gas (M) Nitrogen (N) LPG (P) 40.0 Hydrogen (H) Compressed air (D) Carbon Monoxide (CO)	Filter – Bronze;				14.50	NBR	076-101
Oxygen (O) 30.0							
Replacement filter inserts of bronze							FI-LE5

2"-NPT adapter, DIN- and ANSI – Flange connection sets are available!

Other connections available upon request

GAS FILTER LE5



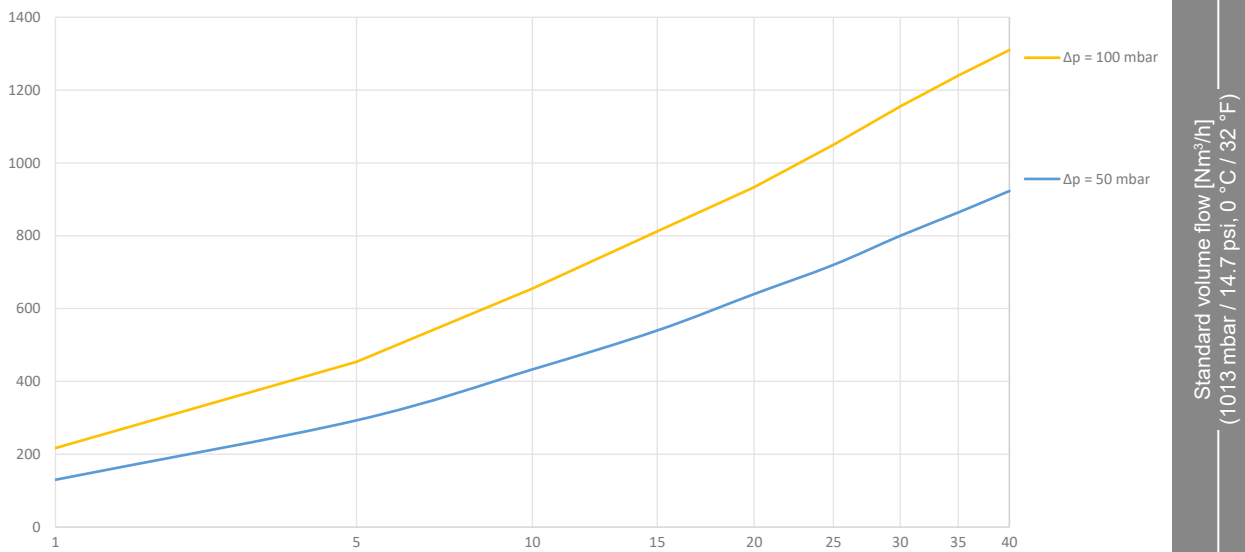
LE5

at $\Delta p = 50$ mbar and 100 mbar

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Helium	x 2.69
Carbon dioxide	x 0.81
Methane	x 1.25
Propane	x 0.80
Oxygen	x 0.95
Hydrogen	x 3.75

Flow diagram for air (20 °C / 68 °F)



Inlet pressure: P_v [bar]

Standard volume flow [Nm³/h]
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Δp max. = 1 bar in continuous operation

Let us know your operating conditions!
We will be pleased to calculate your individual pressure drop.

