

WITT Gas filter with filter inserts of bronze or stainless steel.



Benefits

- ultra fine filtering out of mechanical impurities through bronze or stainless steel filter inserts
- 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 (see flow diagram on the back side)
- condensate can be collected and removed using condensate drain
- easy to install thanks to large choice of connections
- reliable filtering performance increases service life of downstream fittings and equipment
- meets all the requirements of EIGA Guideline IGC Doc 13/12/E “Oxygen Pipeline and Piping Systems“
- pre-cleaned to EIGA Guideline IGC Doc 13/12/E, and ready for O₂
- withstands maximum line pressure (40 bar) even if it becomes clogged

Operation / Usage

- particularly well suited to use in laser systems
- 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

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

Cleaned for Oxygen Service according to:
- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

Gas filter with filter inserts of bronze

Max. working pressure [bar]	Material	Temperature	Weight [kg]	Connection [inch]		Filtering fineness	Order-No.
				Inlet	Outlet		
Oxygen (O) 40.0	Housing – Brass;	-30 °C to +60 °C	3.0	both sides G 3/4 F		5 µm	077-012
Ethylene (E) LPG (P) Natural gas (M) Hydrogen (H) Town gas (C) Compressed air (D) 50.0	Filter – Bronze; Seal – Elastomer					50 µm	077-010
Replacement filter inserts of bronze 5 µm							FI-077B8
Replacement filter inserts of bronze 50 µm							FI-077B

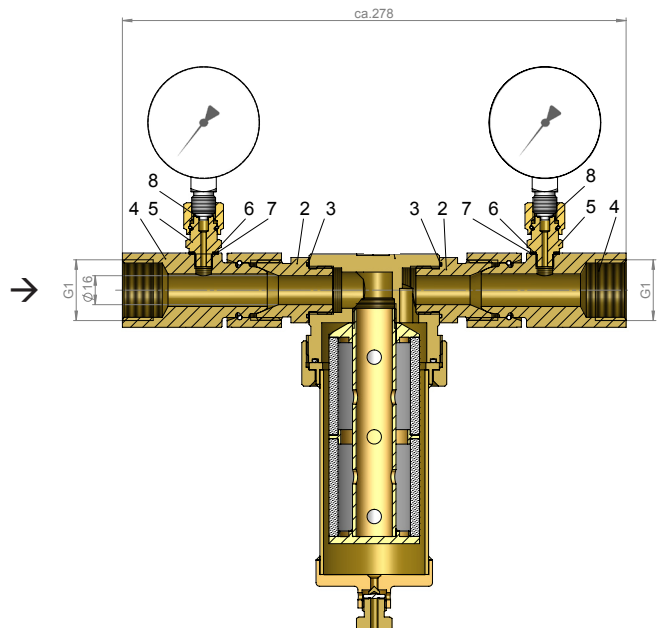
Further benefits for gas filter 77 (bronze)

- Certification by BAM (German Federal Institute for Materials Research and Testing) for O₂ service
- Not subject to a minimum thickness requirement (per Appendix D of EIGA Guideline IGC Doc 13/12/E)
- No velocity limitation, including during commissioning “blow-out” testing

Installation-kit (Order-No. 966.031300)

for a complete installation, enabling active monitoring of filter contamination by means of differential pressure consisting of:

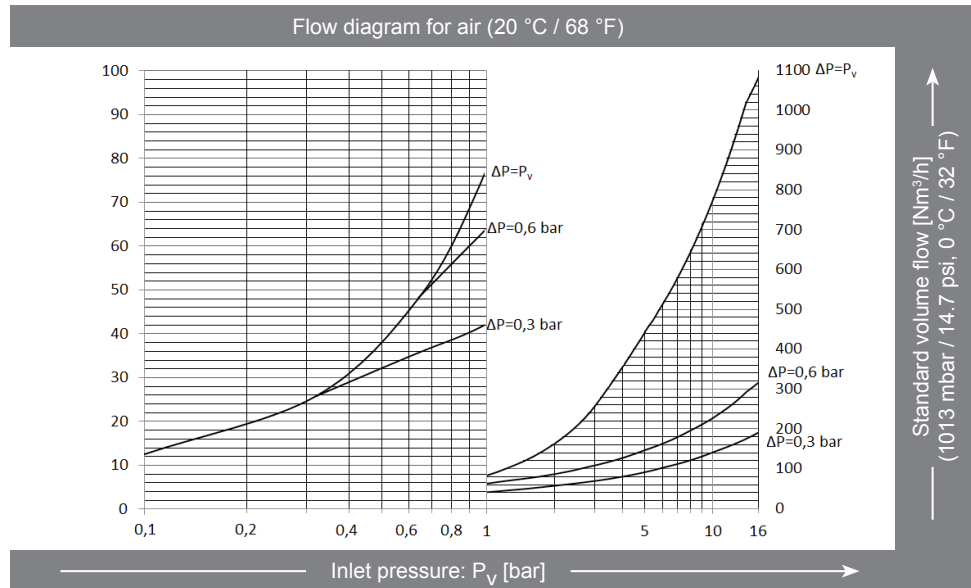
Position	Description	Order-No.
002	screwed coupling	952015100
003	O-ring	7901-655
004	coupling female - female	100313135
005	screwed coupling	100005031
006	O-ring	7901-656
007	washer	801914801
008	O-ring 4.47x1.78	7901-654



77 (bronze) 5 µm

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75

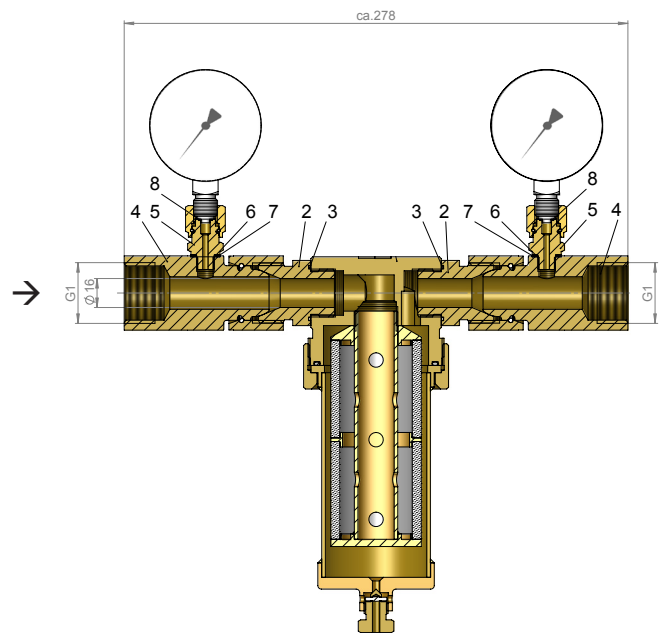


Gas filter with filter inserts of stainless steel

Max. working pressure [bar]	Material	Temperature	Weight [kg]	Connection [inch]		Filtering fineness	Order-No.
				Inlet	Outlet		
Acetylene (A) 1.5 Carbon dioxide 25.0	Housing – Brass; Filter – Stainless steel; Seal – Elastomer	-40 °C to +60 °C	2.77	both sides G 3/4 F		7-10 µm	077-004
Ethylene (E) LPG (P) Natural gas (M) 50.0 Hydrogen (H) Town gas (C) Compressed air (D)			2.80	both sides G 3/4 F		40 µm	077-001
Oxygen (O) 30.0 Acetylene (A) 1.5 Carbon dioxide 25.0 LPG (P) Natural gas (M) 40.0 Hydrogen (H) Town gas (C) Compressed air (D) Oxygen (O) 30.0			6.95	flange both sides DN25 / PN40		40 µm	077A-006
Replacement filter inserts of stainless steel 7-10 µm							FI-078
Replacement filter inserts of stainless steel 40 µm							FI-077

Installation-kit (Order-No. 966.098000)
for a complete installation, enabling active monitoring of filter contamination by means of differential pressure consisting of:

Position	Description	Order-No.
002	screwed coupling	952015100
003	O-ring	7901-224
004	coupling female - female	100313135
005	screwed coupling	100005031
006	O-ring	7901-039
007	washer	801914801
008	O-ring 4.47x1.78	7901-034



GAS FILTER 77



77 (stainless steel) 40 µm

Flow diagram for air (20 °C / 68 °F)

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75

