

Type **TSF4**

WEH[®] Filter

for use with gaseous media and for installation in gas mixing plants



General

DESCRIPTION



Features

- Suitable for installation in gas mixing plants for the air and gas filtration
- Version for inert gases or oxygen
- Wear and corrosion resistant
- Easy replacement of filter element
- Simple installation
- High-quality materials

Clean, filtered gases are a basic requirement for the proper functioning of individual components when filling gases and using them in gas mixing plants. Seals in particular can be damaged by contaminants in the media flow, such as dirt particles. A special gas filter has been developed to clean the media flow from these components. The WEH® TSF4 Filter is especially used in filling plants for oxygen and inert gases, such as argon and nitrogen. The filter removes the contaminants from the gas. The gas flows through the filter and the filter retains the dirt particles contained in the gas and in the piping system. The TSF4 is suitable for high pressures and is particularly easy to maintain. The wire filter insert can be easily removed and cleaned without time-consuming unscrewing of pipes.

The WEH® TSF4 is equipped with a EPDM housing seal. Other sealing materials are available on request. It is the customer's responsibility to clarify the media compatibility.

Application

Filter for use with gaseous media and for installation in gas mixing plants.

TECHNICAL DATA

Characteristics	Basic version
Nominal bore (DN)	12 mm
Max. allowable operating pressure PS	420 bar
Temperature range	-20 °C up to +85 °C -10 °C up to +60 °C (O ₂)
Medium	Inert gases or oxygen
Material	Brass and stainless steel resp. Monel® (O ₂)
Sealing material	Housing seal of EPDM
Design	Incl. unscrewable filter element (40 µm)
Conformity / Tests / Approvals	Type approval for suitability against adiabatic compression available

Other designs on request

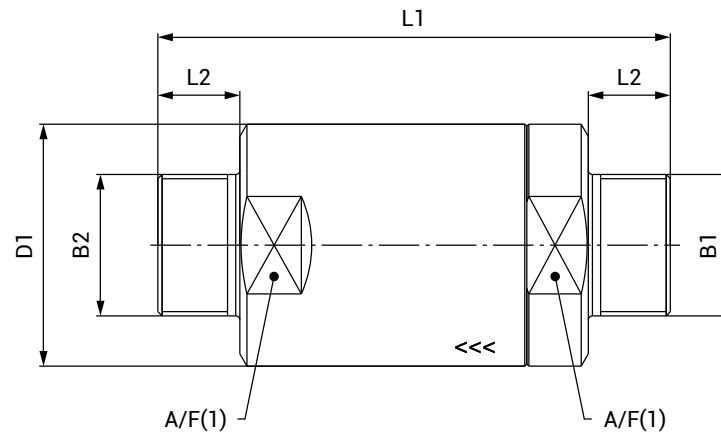
Example of use:



Ordering / Accessories

ORDERING | WEH® TSF4 Filter

approx. dimensions (mm)



Part no.	Description	B1 (male thread)	B2 (male thread)	L1	L2	D1	A/F(1)
C1-82292-X01	TSF4	UNF 1 3/8"-12	UNF 1 3/8"-12	125	20	59	54
C1-92654-X01*	TSF4	UNF 1 3/8"-12	UNF 1 3/8"-12	125	20	59	54

* for oxygen

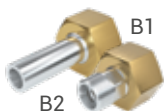
Other connection sizes and types on request. Required information for ordering see page 7, catalog no. 80.

ACCESSORIES

The following accessories are available for the WEH® TSF4 Filter:

Adaptors incl. sleeve nut

Adaptors with threaded or welded connection for installation of the TSF4 filter (ports B1/B2) in pipelines or plants.



Part no.	Description	B1 (female thread)	B2
C1-164158	Adaptor	UNF 1 3/8"-12	M24x1.5* male thread for tube Ø 16
C1-166893	Adaptor	UNF 1 3/8"-12	Tube Ø 16**
C1-164157	Adaptor	UNF 1 3/8"-12	G3/8"
C1-100953***	Adaptor	UNF 1 3/8"-12	Tube Ø 16x2
C1-164156***	Adaptor	UNF 1 3/8"-12	Tube Ø 20x3

* 24° cone connection acc. to ISO 8434-1 (S16xM24)

** double ferrule fitting

*** with welding socket

SPARE PARTS

Various parts are available as spares for the WEH® TSF4 Filter.

Part no.	Description
W9062	Wire filter insert 40 µm
E69-91040*	Wire filter insert 40 µm

* Monel® construction for oxygen

Technical explanations

TECHNICAL EXPLANATIONS

Abbreviations/Definitions

For explanation of abbreviations, definitions of terms and further explanations, see the applicable Technical Appendix of the corresponding catalog or visit www.weh.com

Illustrations

The illustrations and/or images used in these data sheet are particularly provided for illustrative purposes only and may differ in some details from the actual product. For binding information, please refer to your individual orders.

Safe product selection

Our WEH® Products are designed to be operated by qualified professional users (insofar as WEH® Products are also designed to be operated by other users in individual cases, this is explicitly stated in the corresponding operating instructions). Please note that WEH does not know your system and therefore - also due to the large number of different potential applications of WEH® Products - cannot perform tests on all potential types of application. You alone are responsible for the selection, configuration and suitability of WEH® Products, especially according to the requirements of your system. Before purchasing WEH® Products, please particularly ensure that our products are compatible with your intended use, your performance data, your material and fluids, your system concept and your system limits according to our product specifications. Please also consider your technical and legal requirements for operation, handling and maintenance. The quality and safety of WEH® Products is our highest priority. For this reason, WEH® Products may not be used outside the specifications in the relevant data sheets and product descriptions. If you are not sure whether the WEH® Product is suitable for your system and intended use, please contact us in advance. We also strongly recommend that you refrain from using third-party spare parts or a combination of WEH® Products with unsuitable third-party products. You alone are responsible for reviewing the suitability of third-party products. WEH® Products and WEH® Spare parts comply with our quality and safety standards.

Service life

WEH® Products are generally products which may be subject to wear and fatigue during operation and depending on your individual application/use. For details - in particular regarding the corresponding minimum inspection and maintenance intervals – please refer to the respective operating instructions for the WEH® Product.

Explanation on the Pressure Equipment Directive

These WEH® Products are generally classified as pressure accessories in accordance with Article 2 (5) of the Pressure Equipment Directive 2014/68/EU and are considered to be similar to piping. These WEH® Products may not be used as safety accessories. Furthermore, it is pointed out, that these WEH® Products are designed and placed on the market in accordance with the requirements of Article 4 (3) of the Pressure Equipment Directive 2014/68/EU. The assessment with regard to a different classification can, however, be made on request.

External change management

WEH reserves the right to update, optimise and adjust its products continuously. This may result in corresponding changes of the product. Customers will be informed proactively or unsolicited by WEH only in individual cases about product updates, product optimisations and/or product adaptations that have been carried out. You are free to contact WEH at any time to request information about any product updates, product optimisations and/or product adjustments.

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More questions? – Great! Don't hesitate to contact our experts.

Manufacturer:

WEH GmbH Precision Connectors

Josef-Henle-Str. 1
89257 Illertissen / Germany

Phone: +49 7303 9609-0

E-Mail: sales@weh.com

Website: www.weh.com