

Type **TSF2 H₂**

WEH[®] Coalescing Filter

for installation onboard H₂ vehicles and in fueling stations



General

DESCRIPTION



Features

- Fine filter with high particle removal efficiency
- (efficiency of approx. 99.9% > 0.3 micron)
- For installation onboard H₂ vehicles and in fueling stations
- Protection of critical components in the fuel system
- Wear resistant
- Ease of maintenance

Clean, filtered gases are essential to guarantee the proper function of components for vehicles and fueling stations when refueling with hydrogen. The WEH® TSF2 H₂ Coalescing Filter was developed to remove particles from the gas flow. Coalescing Filters are more effective in comparison to regular particle filters due to the high particle removal efficiency. When filtering the gas flow, the coalescing filter reliably removes contaminants such as oil, water and dirt particles which are contained in the gas. This contamination is isolated by the coalescing filter. Hydrogen flows through the filter, whereas contaminants such as oil, water and other aerosols coalesce, and drop into the sump of the filter, where they are separated into a drain port.

The WEH® TSF2 H₂ is easy to maintain and can be installed onboard vehicles and in fueling stations at any time.

Application

Coalescing filter for installation onboard H₂ vehicles (e1 approval) and in fueling stations.

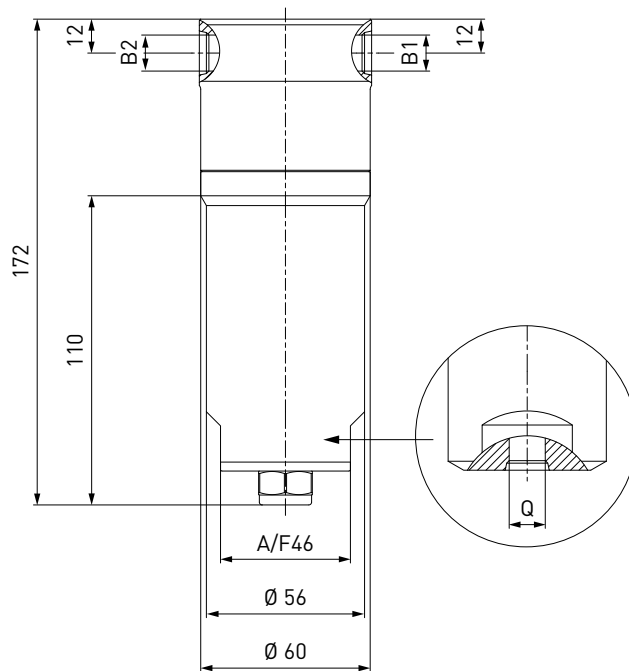
TECHNICAL DATA

Characteristic	Basic version	Options
Nominal bore DN	10 mm	On request
Pressure range	PN = 350 bar (5,000 psi) PS = 450 bar PT = 675 bar	
Temperature range	-40 °F up to +185 °F	On request
Material	Corrosion resistant stainless steel	On request
Sealing material	Hydrogen compatible	On request
Filter element	< 1 micron	On request
Design	Incl. plug	On request
Registration	e1 00 0004 (Regulation (EC) No. 79/2009)	

Ordering / Spare parts

ORDERING | WEH® TSF2 H₂ Coalescing Filter with filter cartridge Ø 38.0 mm

approx. dimensions (mm)



Part No.	Description	Pressure (PN)	Inlet B1 (female thread)	Outlet B2 (female thread)	Drain port Q (female thread)
C1-89635	TSF2 H ₂ (e1)	350 bar / 5,000 psi	UNF 9/16"-18*	UNF 9/16"-18*	UNF 9/16"-18*
C1-120710-X01	TSF2 H ₂	350 bar / 5,000 psi	UNF 9/16"-18*	UNF 9/16"-18*	UNF 9/16"-18*

* acc. to SAE J1926

SPARE PARTS

Various parts are available as spares for the WEH® TSF2 H₂ Coalescing Filter:

Plug

Plug with polyurethane o-ring for closing the drain port 'Q' (end of the filter).



Part No.	Description	Port (male thread)
E69-93336	Plug with o-ring	UNF 9/16"-18*

* acc. to SAE J1926

Filter cartridge

For TSF2 H₂ coalescing filter with filter cartridge Ø 38.0 mm.



Part No.	Description	Length
E69-89626	Filter cartridge	90.0 mm

Other products

OTHER PRODUCTS

You will find more products in our current catalog no. 50



Further information on our homepage
www.weh.com

Abbreviations/Definition

Explanation of abbreviations see technical appendix in the catalogue or www.weh.com

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). You alone are responsible for the selection of WEH® Products and their configuration according to the requirements of your system. In doing so, please particularly consider your intended use, your performance data, your material compatibility, your system concept and your system limits as well as 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. 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.

Explanation on the Pressure Equipment Directive

These WEH® Products are generally and exclusively classified as pressure accessories for piping in accordance with Article 2 (5) of the Pressure Equipment Directive 2014/68/EU. These WEH® Products may not be used (i) as safety accessories or (ii) for vessels as defined by the Pressure Equipment Directive 2014/68/EU. Therefore, the application of these WEH® Products must comply with their classification as pressure accessories for piping. 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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» Contacting

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