

Type **TNS10 H₂**

WEH[®] Service receptacle

for discharging hydrogen fuel tanks



General

DESCRIPTION

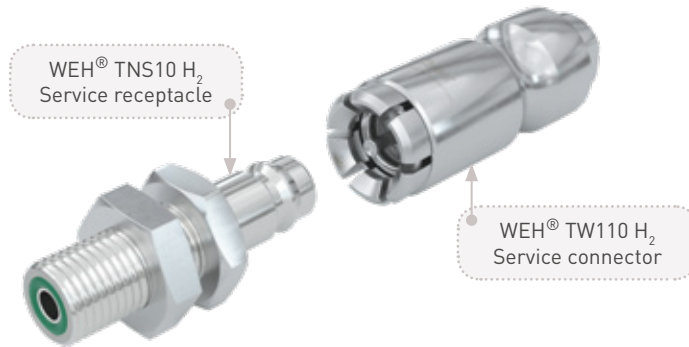


Features

- Integrated shut-off valve
- Reduces chatter during discharging
- Sealing-friendly design
- Incl. protection cap

Vehicles running on hydrogen have to be serviced and checked regularly. To achieve this, it is necessary to discharge all pressure vessels resp. fuel tanks. The WEH® TNS10 H₂ Service receptacle has been designed for this specific purpose. It is mounted on the underside of the hydrogen vehicle and provides simple discharging of the fuel tank.

We recommend that the WEH® TNS10 H₂ Service receptacle is used with the WEH® TW110 Service connector. The TW110 needs only to be placed onto the service receptacle and discharging can commence. After discharging, the service nozzle can be disconnected.



Application

Service receptacle for discharging hydrogen fuel tanks.
 Operation only by specially trained service personnel. Not for self-service operation!
Attention: The TNS10 H₂ may not be used for filling!

Note:

The TNS10 H₂ may only be used in connection with a suitable locking device or shut-off valve (e.g. ball valve)!

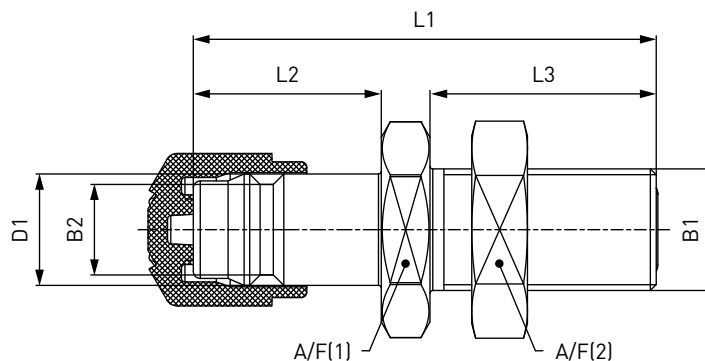
TECHNICAL DATA

Characteristics	Basic version
Nominal bore (DN)	6 mm
Pressure range	PN = 1.6 MPa (230 psi) PS = 2 MPa
Temperature range	-40 °C up to +85 °C [-40 °F up to +185 °F]
Material	Corrosion resistant stainless steel
Sealing material	Hydrogen resistant
Design	Incl. integrated shut-off valve, bulkhead fitting and protection cap

Ordering / Accessories

ORDERING | WEH® TNS10 H₂ Service receptacle

approx. dimensions (mm)



Part No.	Description	DN	Pressure (PN)	B1 (male thread)	B2	L1	L2	L3	D1	A/F(1) / A/F(2)
C1-151481	TNS10 H ₂	6	1.6 MPa / 230 psi	UN 11/16"-16 for sealing with O-Lok® Face seal* for tube Ø 10 (3/8")	Ø 13	66.5	32.5	27	16	27

* Face seal acc. to SAE J1453

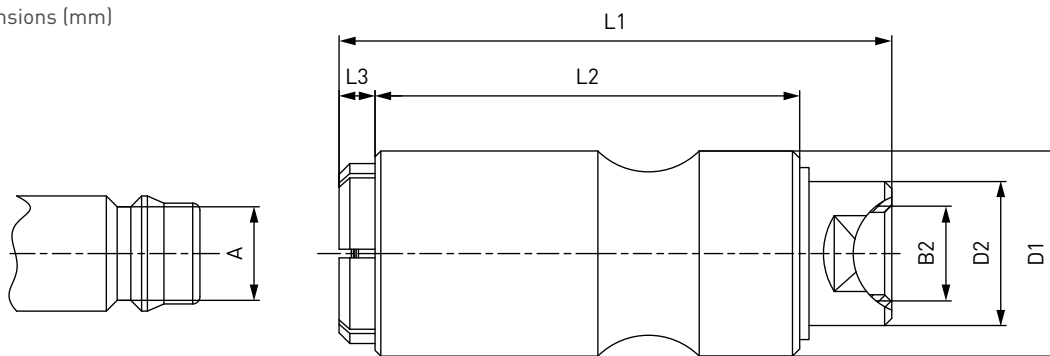
ACCESSORIES

The following accessories are available for the WEH® TNS10 H₂ Service receptacle:

WEH® TW110 H₂ Service connector

Service connector with integrated shut-off valve for discharging the pressure vessels and fuel tanks of vehicles running on hydrogen.

approx. dimensions (mm)



Part No.	Description	Pressure (PN)	A (± B2 of TNS10 H ₂)	B2 (female thread)	L1	L2	L3	D1	D2
C1-84461	TW110 H ₂	1.6 MPa / 230 psi	Ø 13	G1/4"	77	59	5	28.5	20

Spare parts

SPARE PARTS

Various parts are available as spares for the WEH® TNS10 H₂ Service receptacle.

Protection cap

Protection cap for protecting the TNS10 H₂ service receptacle from dirt ingress and damage whilst not in use.



Part No.	Description
E49-83726	Protection cap

Technical explanations

TECHNICAL EXPLANATIONS

Abbreviations/Definitions

For explanation of abbreviations and definitions of terms see *Technical Appendix of the corresponding catalog* or 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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» Contact

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

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