

Type **TNS10 H₂**

WEH[®] Service receptacle

for discharging hydrogen fuel tanks



General

DESCRIPTION

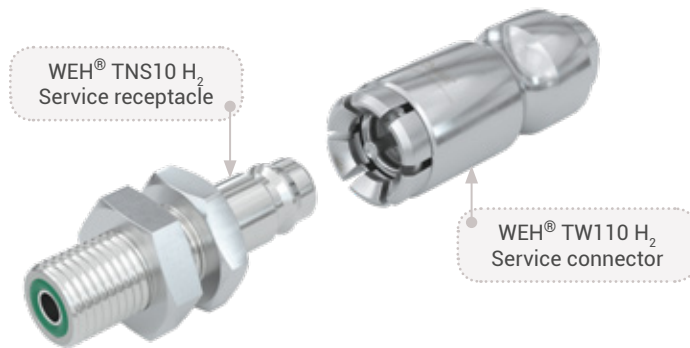


Features

- 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)!

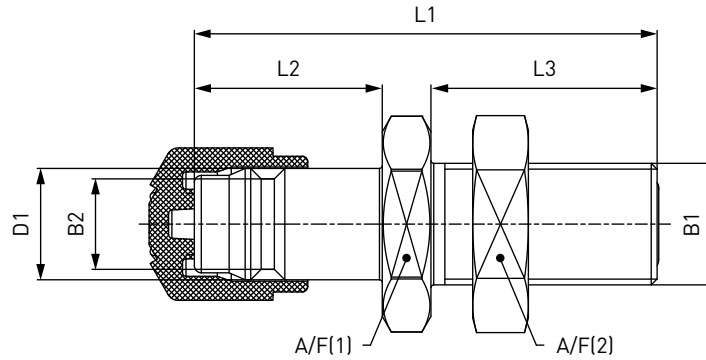
TECHNICAL DATA

| Characteristics | Basic version |
|-------------------|--|
| Nominal bore DN | 6 mm |
| Pressure range | PN = 1.6 MPa (230 psi) PS = 2 MPa PT = 3 MPa |
| Temperature range | -40 °F up to +185 °F (-40 °C up to +85 °C) |
| Material | Corrosion resistant stainless steel |
| Sealing material | Hydrogen compatible |
| 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 | -7 (1 1/16"-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

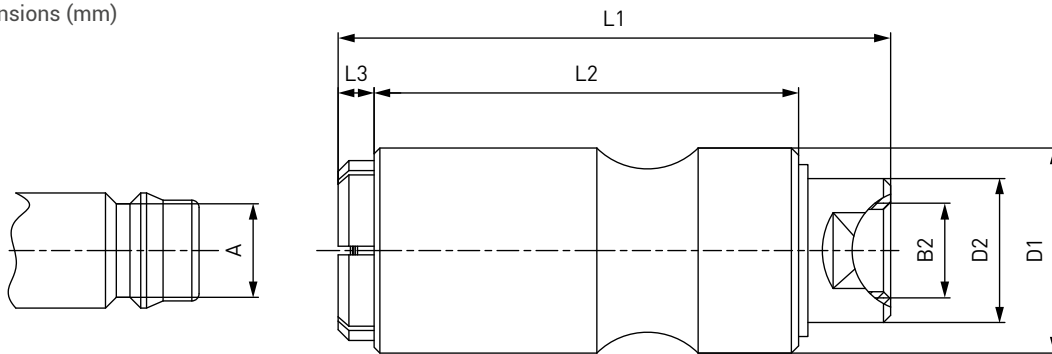
ACCESSORIES

The following accessories are available for 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 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 |

Other products

OTHER PRODUCTS

You will find more products in our current catalogue 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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» **Contact**

For queries and further information, please do not hesitate to contact us.

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