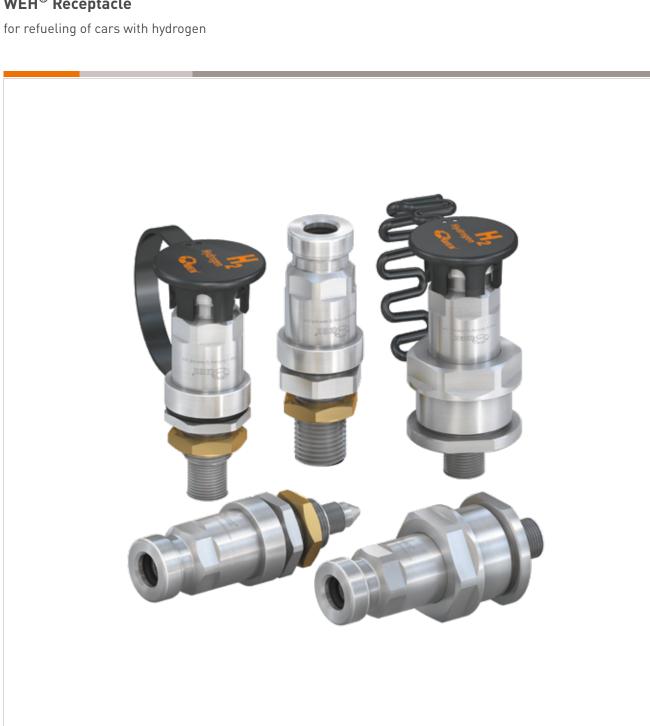


Date: 04/2021



Type TN1 H₂ 70 MPa WEH[®] Receptacle



TN1 H, 70 MPa | WEH[®] Receptacle

DESCRIPTION



Features

- Low-noise refueling
- Integrated self-cleaning particle filter (20 micron)
- Integrated high-flow check valve
- Sealing-friendly design
- Coding for pressure range / gas type

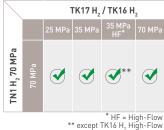
The WEH[®] TN1 H₂ 70 MPa Receptacle is designed specifically for hydrogen refueling of cars with a pressure range of 700 bar. Due to the internal aerodynamic design the receptacle gives low noise (no high frequency whistle) combined with maximum flow rate and fast filling. The receptacle is a very durable unit, minimizing maintenance and down-time. The WEH® TN1 H₂ 70 MPa Receptacle has an integrated check valve system which is designed to minimize the effect that dirt particles have on the sealing components within the receptacle. The TN1 H₂ 70 MPa is also equipped with a coding for pressure range and gas type.

Enhanced safety by integrating a particle filter

Using an integrated particle filter avoids dirt ingress and therefore leakage from the receptacle which gives enhanced safety.

Application

Receptacle for refueling of cars with hydrogen.



TECHNICAL DATA

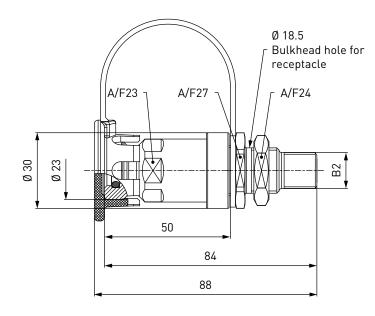
Characteristics	Basic version	Options		
Nominal bore (DN)	3 mm	On request		
Pressure range	PN = 70 MPa (10,000 psi) PS = 87.5 MPa			
Temperature range	-40 °C up to +85 °C (-40 °F up to +185 °F)	On request		
Material	Corrosion resistant	On request		
Sealing material	Hydrogen resistant	On request		
Design	With protection cap, with integrated particle filter (20 micron) and integrated check valve	On request		
Conformity / Tests / Approvals	e 1 00 0010 (Regulation (EC) No. 79/2009) SAE J2600:2002 SAE TIR J2799			

TN1 H₂ 70 MPa | WEH[®] Receptacle

Ordering

ORDERING | WEH $^{\odot}$ TN1 H $_2$ 70 MPa Receptacle with male thread

approx. dimensions (mm)



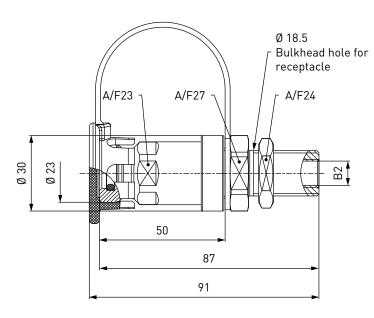
Cal Ma	Part No.	Description	DN	Pressure (PN)	B2 (male thread)
	C1-84087	TN1 H ₂ 70 MPa (e1)	3	70 MPa / 10,000 psi	UNF 9/16 ^{°-} 18 for sealing with O-Lok [®] Face Seal* for tube Ø 6 (1/4 ^{°°})

* Face Seal acc. to SAE J1453

ORDERING | WEH[®] TN1 H₂ 70 MPa Receptacle with female thread (autoclave)

approx. dimensions (mm)

E





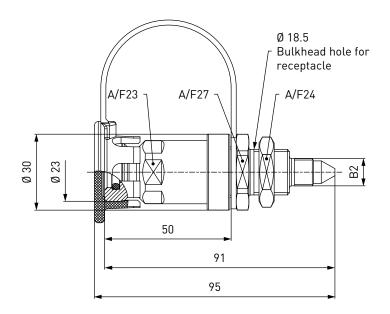
Part No.	Description	DN	Pressure (PN)	B2 (female thread)
C1-87745	TN1 H ₂ 70 MPa (e1)	3	70 MPa / 10,000 psi	UNF 7/16"-20*

* 60° cone, MP-fitting

TN1 H₂ 70 MPa | WEH[®] Receptacle Ordering

ORDERING | WEH $^{\odot}$ TN1 H $_2$ 70 MPa Receptacle with male thread (autoclave)

approx. dimensions (mm)





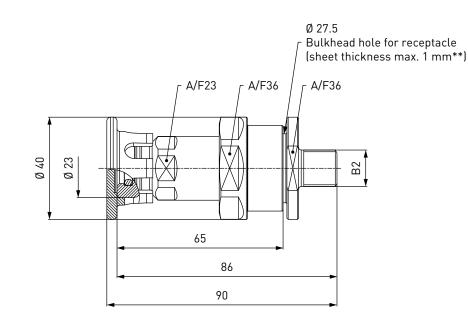
Part No.	Description	DN	Pressure (PN)	B2 (male thread)
C1-88565	TN1 H ₂ 70 MPa (e1)	3	70 MPa / 10,000 psi	UNF 7/16"-20*

* 60° outer cone

TN1 H₂ 70 MPa | WEH[®] Receptacle Ordering / Spare parts

ORDERING | WEH $^{\circ}$ TN1 H $_2$ 70 MPa Receptacle with male thread, prepared for data interface

approx. dimensions (mm)





Part No.	Description	DN	Pressure (PN)	B2 (male thread)
C1-84883	TN1 H ₂ 70 MPa (e1)	3	70 MPa / 10,000 psi	UNF 9/16"-18 for sealing with 0-Lok [®] Face Seal* for tube Ø 6 (1/4")

^{*} Face Seal acc. to SAE J1453

** Please indicate when ordering if thicker sheet metals are needed!

Data interface not included!

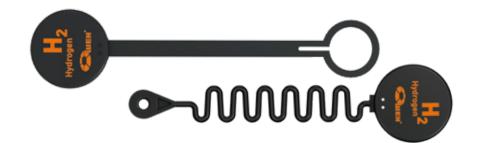
Other connection sizes and versions on request.

SPARE PARTS

Various parts are available as spares for the WEH $^{\odot}$ TN1 H $_2$ 70 MPa Receptacle.

Protection cap

Protection cap with a strap to protect the TN1 H, 70 MPa receptacle from dirt ingress.



Part No.	Description			
C1-87803	Protection cap			
C1-85984	Protection cap for receptacles prepared for data interface			

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[®] 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[®] Products and WEH[®] Products.

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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