

# Type **TK16 H<sub>2</sub>** with data interface

**WEH<sup>®</sup>** Fueling nozzle with exchangeable data interface for hydrogen fast filling  
of cars at self-service fueling stations



General

DESCRIPTION



Features

- Type A acc. to SAE J2600 resp. ISO 17268
- Compatible with WEH® TN1 H<sub>2</sub> Receptacle profile
- Exchangeable data interface (ENR)
- WEH EASY-TURN® 240° swivel joint for actuation lever
- Easy operation
- High flow rate → short filling times
- Recirculation of the vented gas
- Plastic thermal protection
- WEH® Jaw locking mechanism
- High-grade materials
- Coding for pressure range / gas type (acc. to table below)

With the WEH® TK16 H<sub>2</sub>, the user has a fueling nozzle for hydrogen that makes refueling cars with compressed gaseous hydrogen (CGH<sub>2</sub>) even easier than before. The fueling nozzle with data interface is easy to operate and thus increases operator comfort.

The integrated swivel joint is located directly on the actuation lever, making it easy to rotate the fueling nozzle to the optimum connection position. The actuating lever can be switched with little effort when connecting and disconnecting.

The internal coding for pressure range and gas type ensures that the TK16 H<sub>2</sub> with data interface can be connected to the compatible WEH® Receptacles acc. to the opposite table and also prevents the risk of confusion with natural gas. Furthermore, the fueling nozzle has an exchangeable interface (infrared) for data transfer between the vehicle and the fueling station.

The WEH® TK16 H<sub>2</sub> with data interface offers optimum safety for the operator. The fueling nozzle remains connected to the receptacle until the gas between inlet valve and receptacle is depressurized.

		TN1 H <sub>2</sub>			
		25 MPa	35 MPa	35 MPa HF*	70 MPa
TK16 H <sub>2</sub> , IR**	35 MPa		✓	✓	✓

\* HF = High-Flow  
\*\* IR =infrared data interface

Application

Fueling nozzle for hydrogen fast filling of cars at self-service fueling stations.

TECHNICAL DATA

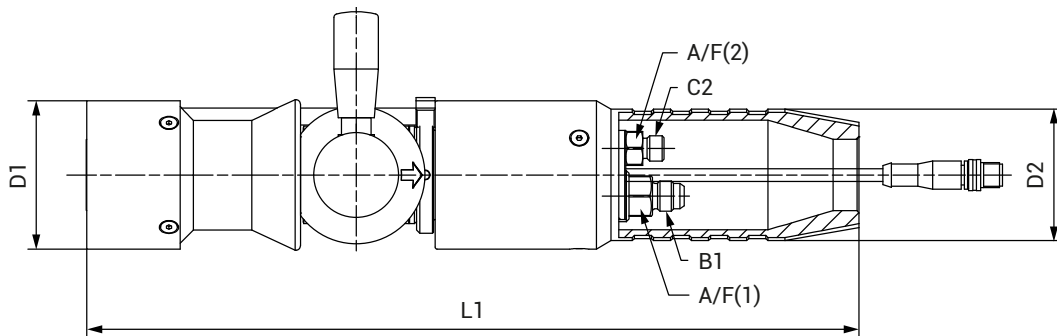
Characteristics	Basic version
Nominal bore (DN)	8 mm
Pressure range	PN = 35 MPa   PS = 45 MPa
Media temperature range	-20 °C up to +85 °C
Ambient temperature range	-40 °C up to +85 °C
Material	Corrosion resistant
Sealing material	Hydrogen resistant
Nozzle type	Type A acc. to SAE J2600:2015 and previous resp. ISO 17268:2012 and previous
Design	With plastic thermal protection, gas recirculation and data interface acc. to SAE J2799
Weight	Approx. 2.4 kg
Conformity / Tests / Approvals	Fueling nozzle: tests acc. to SAE J2600:2002 IR data interface: SAE J2799 and ATEX, NEC, KTL and CCC

Other designs on request

Ordering / Accessories

**ORDERING** | WEH® TK16 H<sub>2</sub> Fueling nozzle with data interface

approx. dimensions (mm)



Part No.	Description	Pressure (PS)	B1 (male thread)	C2 (male thread)	L1	D1	D2	A/F(1)	A/F(2)
<b>C1-103471-X01</b>	TK16 H <sub>2</sub>	45 MPa	UNF 9/16"-18*	M12x1.5	364	70	62	19	16

\* acc to. SAE J514, 37° cone

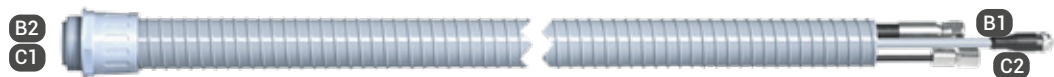
Fueling assemblies consisting of fueling nozzle, hose set and breakaway coupling are available on request.

**ACCESSORIES**

The following accessories are available for the WEH® TK16 H<sub>2</sub> Fueling nozzle with data interface:

**Hose set**

Hose set for connecting fueling nozzle and TSA1 H<sub>2</sub> breakaway coupling, complete with filling and venting hose, hose fittings, plastic spiral hose and cable for data interface. Not suitable for refueling with pre-cooled hydrogen acc. to SAE J2601.  
 Design filling/venting hose: max. operating pressure PS: 45 MPa / nominal bore (DN): 4.5 mm (filling hose)  
 resp. 2 mm (venting hose) / media temperature range: -20 °C up to +90 °C



Part No.	B1/B2 (female thread)	C1/C2 (female thread)	Hose length
<b>C1-90698</b>	UNF 9/16"-18*	M12x1.5	3 m
<b>C1-94428</b>	UNF 9/16"-18*	M12x1.5	4 m
<b>C1-94429</b>	UNF 9/16"-18*	M12x1.5	5 m

\* acc. to SAE JIC, 37° cone

Accessories / Spare parts

Dispenser mounting

Mounting for safe attachment of the fueling nozzle to the dispenser.

Part no.	Description
On request	Dispenser mounting

WEH® TNS1 H<sub>2</sub> Service receptacle

To prevent damage in the fueling nozzle while purging or leak testing during maintenance in the course of which pressure is applied, we recommend the use of a service receptacle. The receptacle also protects the fueling nozzle from dirt ingress whilst not in use.



Part no.	Description
C1-148079	TNS1 H <sub>2</sub> Service receptacle incl. protection cap

WEH® Breakaway coupling

For the suitable TSA1 H<sub>2</sub> breakaway coupling, please see page 43 in catalog no. 50.

Data cable

Part no.	Description	Hose length
E68-96194	Data cable suitable for 4 m hose set	4.45 m
E68-96193	Data cable for connecting with the converter	3.45 m

Other lengths on request

SPARE PARTS

Various parts are available as spares for the WEH® TK16 H<sub>2</sub> Fueling nozzle with data interface.



Part No.	Description
W180567	1 Impact protection (incl. 4 countersunk screws)
W180569	2 IR data interface (incl. o-ring and grub screw)
W72504	3 Actuation lever
E80-163068	4 Cover plate
W150340	5 Protection sleeve (incl. 3 countersunk screws)
E99-44923	Maintenance spray

## Technical explanations

## TECHNICAL EXPLANATIONS

**Abbreviations/Definitions**

For explanation of abbreviations and definitions of terms see applicable Technical Appendix of the corresponding catalog or [www.weh.com](http://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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