Fueling nozzle **TK17 H_2 70 MPa ENR**

DESCRIPTION

Features
- Type C nozzle acc. to SAE J2600:2002, paragraph 5.2
- Left or right single-handed operation
- Compatible with WEH® TN1 H_2 70 MPa Receptacle profile
- Exchangeable data interface (ENR)
- Integrated purging line for nitrogen purging
- Prepared for dispenser mounting with purging system
- WEH® EASY-TURN 250° swivel joint
- Increased robustness in case of improper handling
- Easy operation
- High flow rate → short filling times
- Protecion against impact and cold
- Plastic thermal protection
- Hand grip with magnet
- WEH® Jaw locking mechanism
- High-grade materials
- Coding for pressure range / gas type (acc. to table below)

The WEH® TK17 H_2 70 MPa ENR Fueling nozzle with exchangeable data interface (ENR = exchangeable nozzle receiver) was developed for refueling cars with compressed, gaseous hydrogen (CGH_2). The fueling nozzle provides the same proven characteristics as the already known TK17 H_2 70 MPa.

The new TK17 H_2 70 MPa ENR is additionally equipped with a purging line, that allows purging with nitrogen during and after fueling process. This can prevent ingress of moisture and formation of ice crystals when filling with pre-cooled hydrogen. Removing the fueling nozzle from the receptacle is thus facilitated even in unfavorable climatic conditions.
The efficiency of the purging line has been successfully tested in compliance with the freezing test 7.26 from the draft version of ISO 17268.

The WEH® TK17 H_2 70 MPa ENR offers optimum safety for the operator thanks to the locking mechanism. The fueling nozzle remains connected to the receptacle until the locking mechanism is released by the operator.

TK17 H_2 70 MPa ENR	TN1 H_2				
		25 MPa	35 MPa	35 MPa HF*	70 MPa
70 MPa					✓

* HF = High-Flow

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

TECHNICAL DATA

Characteristics	Basic version
Nominal bore (DN)	4 mm
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)
Material	Corrosion resistant
Sealing material	Hydrogen resistant
Design	With plastic thermal protection, cold protection, hand grip with magnet, exchangeable data interface acc. to SAE TIR J2799 and integrated purging line
Weight	Approx. 2.4 kg (5.29 lbs.)
Medium for purging	Nitrogen
Nominal bore (DN) purging line	4 mm
Media temperature range purging medium	-20 °C up to +85 °C (-4 °F up to +185 °F)
Flow rate during purging	500 Nl/h
Conformity / Tests / Approvals	Fueling nozzle: SAE TIR J2799, tests acc. to SAE J2600:2002 IR data interface: ATEX, NEC or KTL

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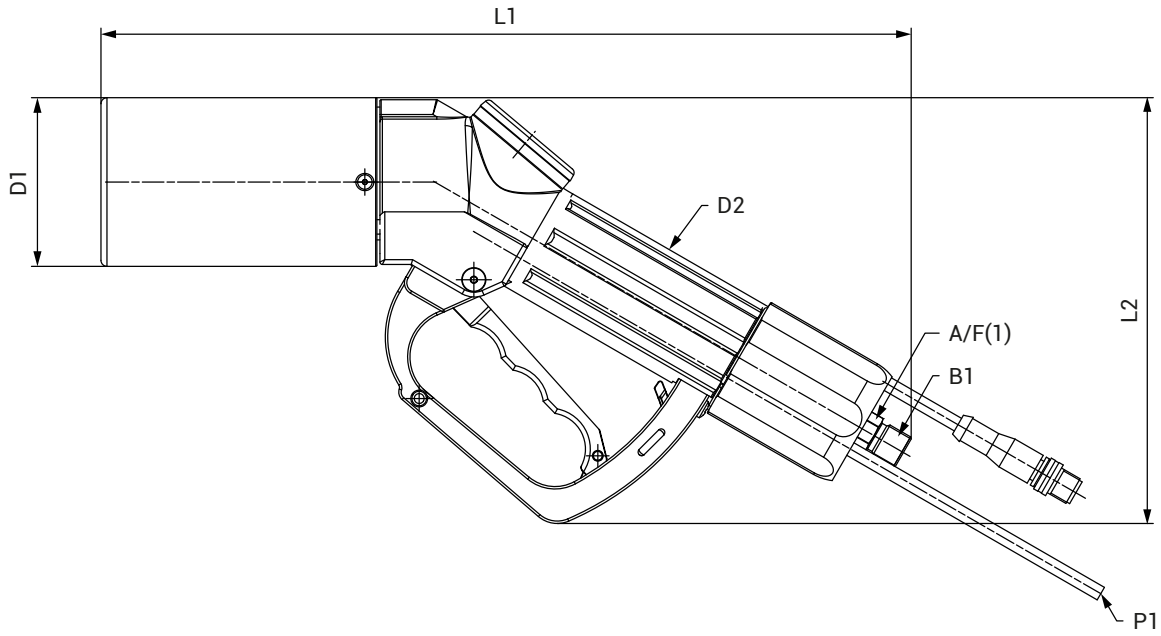
ORDERING | WEH® TK17 H_2 70 MPa ENR Fueling nozzle

approx. dimensions (mm)



Part no.	Description	Pressure (PN)	B1 (male thread)	P1	L1	L2	D1	D2	A/F(1)
C1-160702-X01	TK17 H_2 70 MPa ENR (ATEX IR data interface)	70 MPa / 10,000 psi	UNF 9/16"-18*	Ø 6	339	175	70	46	14
C1-160701-X01	TK17 H_2 70 MPa ENR (NEC IR data interface)	70 MPa / 10,000 psi	UNF 9/16"-18*	Ø 6	339	175	70	46	14
C1-164846	TK17 H_2 70 MPa ENR (KTL IR data interface)	70 MPa / 10,000 psi	UNF 9/16"-18*	Ø 6	339	175	70	46	14

* 60° inner 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® TK17 H_2 70 MPa ENR Fueling nozzle:

Hose set

Hose set for connecting fueling nozzle and TSA1 H_2 70 MPa breakaway coupling, complete with filling hose (for pre-cooled hydrogen), data cable, purging line and braided protection hose as cover.
Design filling hose: max. operating pressure PS: 87.5 MPa / nominal bore (DN): 4.5 mm / temperature range: -40 °C up to +65 °C (-40 °F up to +149 °F)

Part no.	B1/B2 (female thread)	P1/P2	Hose length
E68-161886	UNF 9/16"-18*	Ø 6	3 m
E68-161887	UNF 9/16"-18*	Ø 6	4 m
E68-161888	UNF 9/16"-18*	Ø 6	5 m

* DKJ 58°

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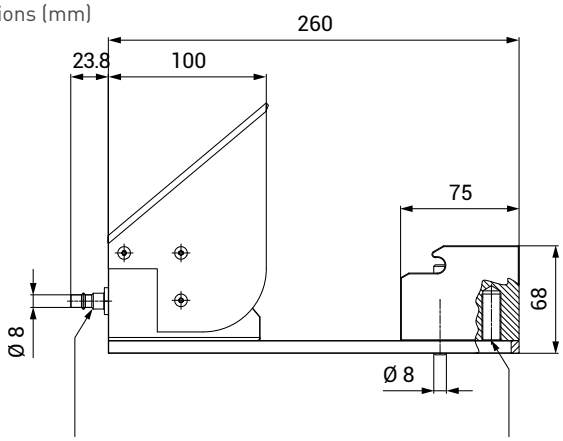
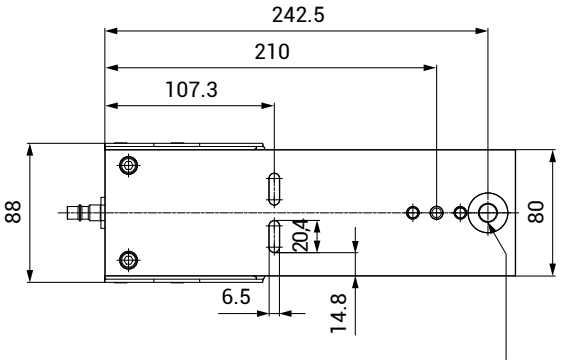
Dispenser mounting

Mounting for safe attachment of the fueling nozzle to the dispenser. The mounting is equipped with a port for purging operations, that allows purging of the fueling nozzle whilst not in use. Optionally a magnetic field sensor can be installed.

approx. dimensions (mm)



Port for purging operations



Installation possibility for optionally available magnetic field sensor

Part no.	Description
C1-122121	Dispenser mounting (switch actuated) with weather protection, special cover for impact protection sleeve and purging system
E68-123980	Magnetic field sensor with 2 m cable, explosion-proof acc. to ATEX

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

TNS1 H_2 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_2 Service receptacle incl. protection cap

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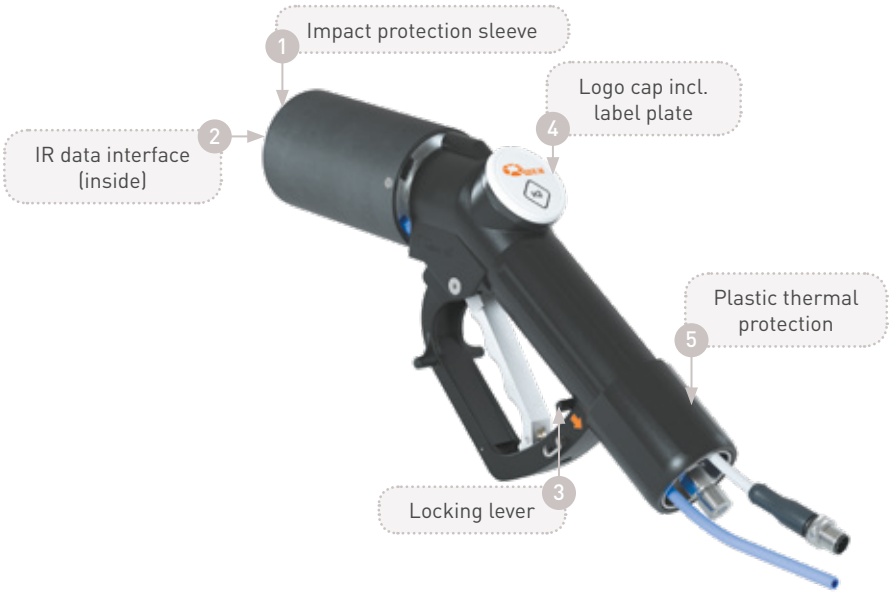
SPARE PARTS

Various parts are available as spares for the WEH® TK17 H_2 70 MPa ENR Fueling nozzle.



Part No.	Description
W137968	1 Impact protection sleeve (incl. 3 countersunk screws)
W137969	2 ATEX IR data interface (incl. 3 cylinder screws, 3 countersunk screws and o-ring)
W140915	2 NEC IR data interface (incl. 3 cylinder screws, 3 countersunk screws and o-ring)
W166319	2 KTL IR data interface (incl. 3 cylinder screws, 3 countersunk screws and o-ring)
E80-84030	3 Locking lever
E69-161748	4 Logo cap
E80-59738	4 Label plate
E80-162272	5 Plastic thermal protection (cold protection)
E99-44923	Maintenance spray

When ordering please specify the part no. engraved on the fueling nozzle.