

# Type **TK24 CNG**

## CNG Fuelling Nozzle

for buses and trucks



## General

### DESCRIPTION



#### Features

- Compatible with receptacles acc. to ISO 14469-2
- Push-Pull actuation
- Integrated shut-off valve
- Plastic thermal protection
- Grip position at 90°
- Ergonomic design
- WEH® Jaw locking mechanism
- Colour coded impact protection (200 bar / 3,000 psi black, 250 bar / 3,600 psi yellow)
- High-grade materials
- Option: without gas recirculation

The TK24 CNG fuelling nozzle combines user comfort with maximum convenience. The integrated TK22 CNG fuelling nozzle features 'push-to-connect' jaw locking system which automatically moves the grip sleeve back when making a connection. The ergonomic design of the handle enables an easy connection to the receptacle. This feature can help to prevent stresses on the high pressure hose and hose damage due to chafing on the ground. Refuelling starts after opening the integrated ball valve. Closing the ball valve finishes refuelling and the integrated gas recirculation automatically depressurizes the system. The nozzle can then be disconnected by pulling back the grip sleeve of the TK22 CNG. Optionally type TK24 CNG is also available with integrated gas recirculation.

The extended construction of the integrated TK22 CNG fuelling nozzle helps in refuelling difficult-to-access receptacles. WEH® Jaws grip symmetrically, avoiding damage to the receptacle profile which could result in leakage. To achieve optimum performance it is recommended that the TK24 CNG fuelling nozzle is used with the WEH® TN5 CNG receptacle.

#### Application

Fuelling nozzle for CNG fast filling of buses and trucks (also for slowfill refuelling) to be used with WEH® TN5 CNG receptacles acc. to ISO 14469-2. Operation only by specially trained service personnel. Not for self-service operation!

### TECHNICAL DATA

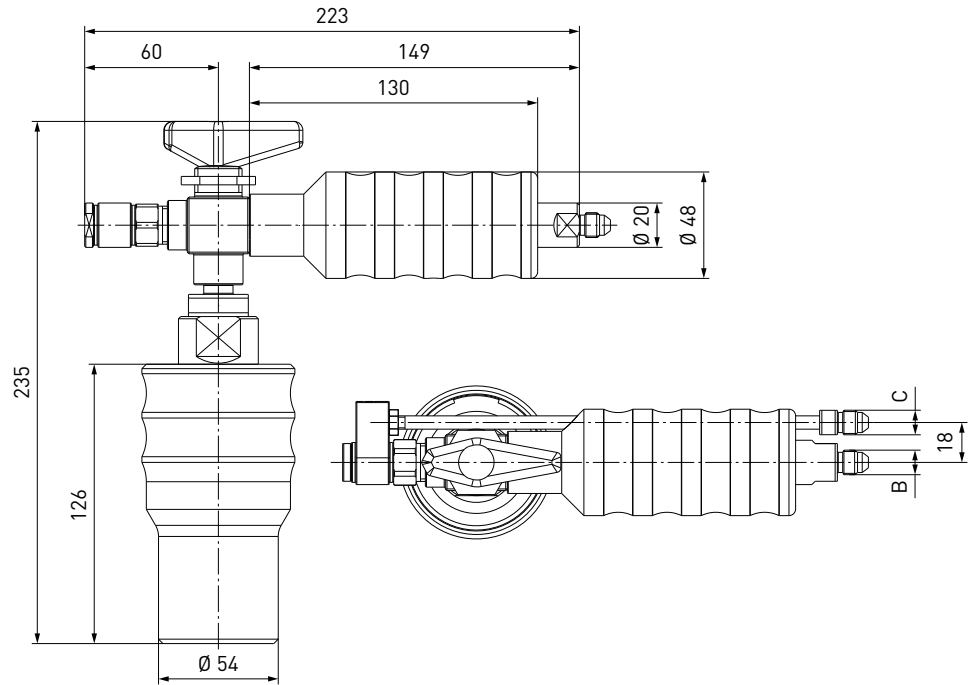
Characteristic	Basic version	Options
Nominal bore DN	5 mm	On request
Pressure range	C200 acc. to ISO 14469-2 PN = 200 bar (3,000 psi)   PS = 300 bar   PT = 450 bar (black)  PN = 250 bar (3,600 psi)   PS = 350 bar   PT = 525 bar (yellow)	
Temperature range	-40 °C up to +85 °C (-40 °F up to +185 °F)	On request
Material	Corrosion resistant	On request
Sealing material	Natural gas compatible	On request
Design	With plastic thermal protection, integrated ball valve and gas recirculation	Without gas recirculation
Weight	2.7 kg (5.95 lbs.) without gas recirculation resp. 3.4 kg (7.50 lbs.) with gas recirculation	
Registration	Acc. to ISO 14469-2*	

\* The NGV1 standard does not include the size 2 refuelling interface. The ISO 14469-2 can be used as a follower of the ANSI/NGV1 for the size 2 refuelling interface. The components are tested in accordance with ISO14469-2. The test program is similar to the NGV1 but displays the different profile and size of the components.

Ordering

ORDERING | Fuelling nozzle TK24 CNG with gas recirculation

approx. dimensions (mm)



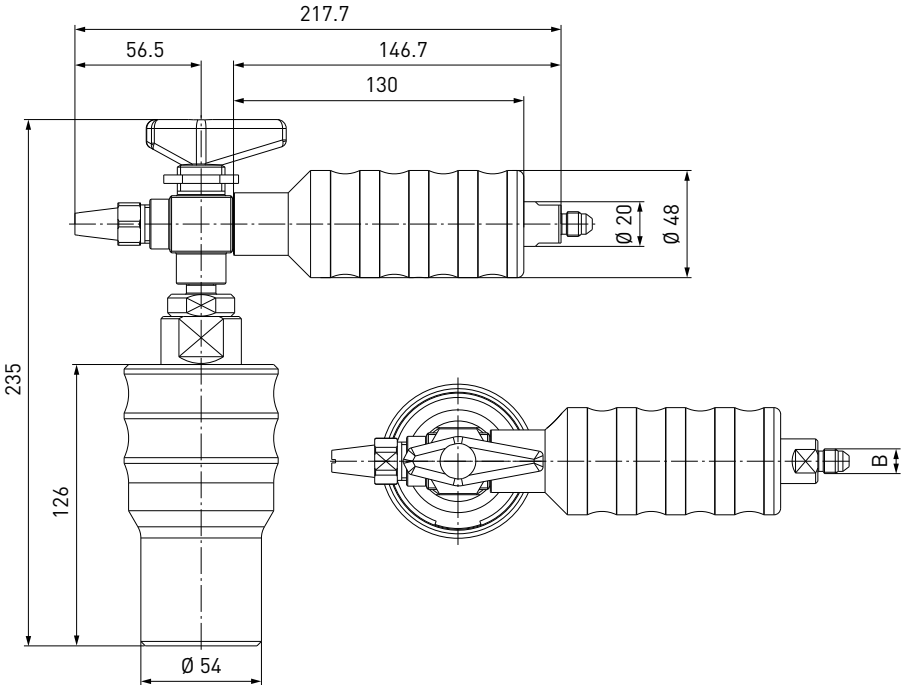
Part No.	Description	Pressure (PN)	Inlet B (external thread)	Gas recirculation C (external thread)
C1-42414-X2-X01	TK24 CNG	200 bar / 3,000 psi (black)	UNF 7/16"-20*	UNF 7/16"-20*
C1-112627	TK24 CNG	250 bar / 3,600 psi (yellow)	UNF 7/16"-20*	UNF 7/16"-20*

\* acc. to SAE J514, 37°

Ordering

ORDERING | Fuelling nozzle TK24 CNG without gas recirculation

approx. dimensions (mm)



Part No.	Description	Pressure (PN)	Inlet B (external thread)
C1-72213-X1-X01	TK24 CNG	200 bar / 3,000 psi (black)	UNF 7/16"-20*
C1-111939	TK24 CNG	250 bar / 3,600 psi (yellow)	UNF 7/16"-20*

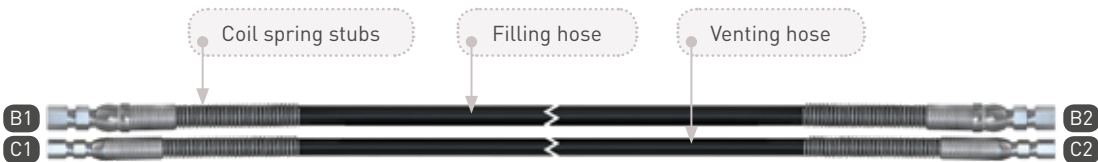
\* acc. to SAE J514, 37°

ACCESSORIES

The following accessories are available for type TK24 CNG:

Hose sets TK24 CNG - TSA1 CNG (filling and venting hose)

Filling and venting hoses for connecting fuelling nozzle and type TSA1 CNG breakaway coupling, complete fittings and press-fittings supported by coil spring stubs.



Part No.	Filling hose B1/B2 (internal thread)	Venting hose C1/C2 (internal thread)	Hose length
C1-106385	UNF 7/16"-20*	UNF 7/16"-20*	3 m
C1-106386	UNF 7/16"-20*	UNF 7/16"-20*	4 m
C1-106387	UNF 7/16"-20*	UNF 7/16"-20*	5 m

\* acc. to SAE J514, 37°

## Ordering

### Hose sets TK24 CNG - TSA2 CNG (filling and venting hose)

Filling and venting hoses for connecting fuelling nozzle / dispenser and type TSA2 CNG inline breakaway coupling, complete fittings and press-fittings supported by coil spring stubs.

Bestellnummer	Filling hose B1/B2 (internal thread)	Venting hose C1/C2 (internal thread)	Hose length
<b>C1-106395</b>	UNF 7/16"-20*	UNF 7/16"-20*	2.5   0.5 m
<b>C1-106396</b>	UNF 7/16"-20*	UNF 7/16"-20*	3.5   0.5 m
<b>C1-106397</b>	UNF 7/16"-20*	UNF 7/16"-20*	4.5   0.5 m

\* acc. to SAE J514, 37°

### Filling hoses

Filling hoses for connecting fuelling nozzle (without gas recirculation) and dispenser, complete with fittings and press-fittings supported by coil spring stubs.



Part No.	Filling hose B1/B2 (internal thread)	Hose length
<b>E68-1032-3000</b>	UNF 7/16"-20*	3 m
<b>E68-1032-4000</b>	UNF 7/16"-20*	4 m
<b>E68-1032-5000</b>	UNF 7/16"-20*	5 m

\* acc. to SAE J514, 37°

### Fittings

Stainless steel fittings for connecting the media inlet 'B' to the filling hose or the gas recirculation inlet 'C' to the venting hose.

Part No.	Description	Connection fuelling nozzle	Connection filling hose
<b>E80-648P</b>	Fitting	UNF 7/16"-20* internal thread	UNF 9/16"-18* external thread

\* acc. to SAE J514, 37°

Please see page 126 in catalogue no. 15 onwards for a detailed overview on all available fittings.

### Spare parts

Various parts are available as spares for type TK24 CNG:

Part No.	Description
<b>C1-127951</b>	1 Spare parts set 200 bar / 3,000 psi (grip sleeve incl. metal sleeve and circlip)
<b>C1-127950</b>	1 Spare parts set 250 bar / 3,600 psi (grip sleeve incl. yellow impact protection, metal sleeve and circlip)
<b>E99-44923</b>	Maintenance spray

## Other products

### OTHER PRODUCTS

You will find more products in our current catalogue no. 15



Further information on our homepage  
[www.weh.com](http://www.weh.com)

#### Abbreviations/Definition

Explanation of abbreviations see technical appendix in the catalogue or [www.weh.com](http://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 Product 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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## » Contacting

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