

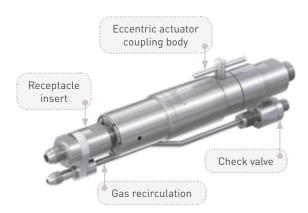
Type TSA1 H₂ WEH® Breakaway Coupling

for car fuelling stations



General

DESCRIPTION



Features

- Re-usable without factory reservicing
- Installation at the dispenser
- Small compact design
- Integrated cleanable filter (40 resp. 20 micron)
- Check valve at venting line
- No additional tool necessary

The WEH® TSA1 H, Breakaway Coupling offers additional safety for your car fuelling station. The breakaway is installed between the dispenser and the filling hose resp. filling and venting hose. In the event of accidental deployment, e.g. driving a vehicle from the dispenser with the nozzle remaining in the vehicle fuel port, the coupling will separate the connections between dispenser and hose sealing both ends. This protects largely the receptacle, the fuelling nozzle and the dispenser against damage. The detached coupling can be easily reattached and placed back in service after having been function tested. The integrated filter provides clean hydrogen and is easy to maintain.

The WEH® Breakaway Coupling consists of a coupling body, a receptacle insert and a gas recirculation with check valve. The breakaway is also available without gas recirculation.

The TSA1 H, for fuelling nozzles with data interface additionally contain a dispenser mounting incl. data cable for the data interface.

On request we also offer complete nozzle-hose-assemblies consisting of a fuelling nozzle, a hose set and a breakaway coupling.

Application

Breakaway coupling for car fuelling stations for direct installation at the dispenser.

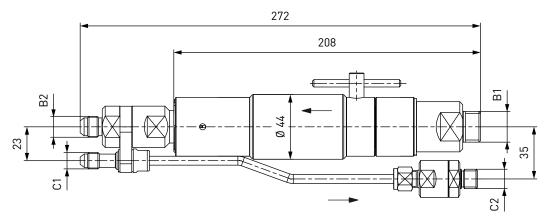
TECHNICAL DATA

Characteristic	Basic version	Options					
Nominal bore DN	Max. 8 mm, depending on design	On request					
Pressure range	PN = 350 bar (5,000 psi) PS = 450 bar PT = 675 bar						
Temperature range	-40 °C up to +85 °C (-40 °F up to +185 °F)	On request					
Breakaway force	300 - 600 N	On request					
Material	Corrosion resistant stainless steel, aluminium	On request					
Sealing material	Hydrogen compatible	On request					
Design	With resp. without gas recirculation With filter (40 resp. 20 micron) Incl. dispenser mounting and data cable (only for breakaways for fuelling nozzles with data interface)	On request					

Ordering

ORDERING | WEH® TSA1 H, Breakaway Coupling with gas recirculation, external thread

approx. dimensions (mm)

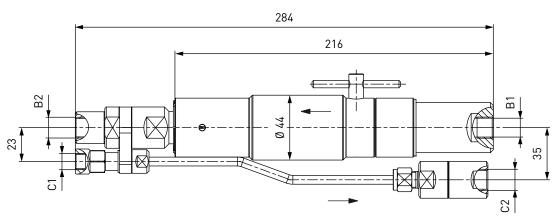




Part No.	Description	DN	Pressure (PN)	B1 (external thread)	B2 (external thread)	C1 (external thread)	C2 (external thread)
C1-18834-X7-X01	TSA1 H ₂ with filter (40 micron)	8	350 bar / 5,000 psi	G1/2"	UNF 9/16"-18*	UNF 7/16"-20*	G1/4"
C1-67741-X1-X01	TSA1 H ₂ with filter (20 micron)	8	350 bar / 5,000 psi	G1/2"	UNF 9/16"-18*	UNF 7/16"-20*	G1/4"

^{*} acc. to SAE J514, 37°

ORDERING | WEH $^{\rm @}$ TSA1 H $_{\rm 2}$ Breakaway Coupling with gas recirculation, internal thread





Part No.	Description	DN	Pressure (PN)	B1/B2 (internal thread)	C1 (internal thread)	C2 (internal thread)
C1-99345-X01	TSA1 H ₂ with filter (40 micron)	5	350 bar / 5,000 psi	UNF 9/16"-18*	UNF 7/16"-20*	UNF 9/16"-18*

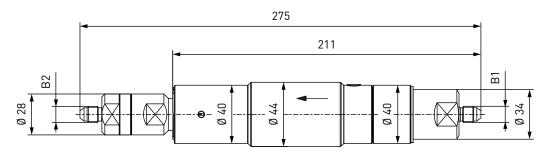
^{* 60°} cone, MP-fitting



Ordering

ORDERING | WEH® TSA1 H, Breakaway Coupling without gas recirculation, external thread

approx. dimensions (mm)

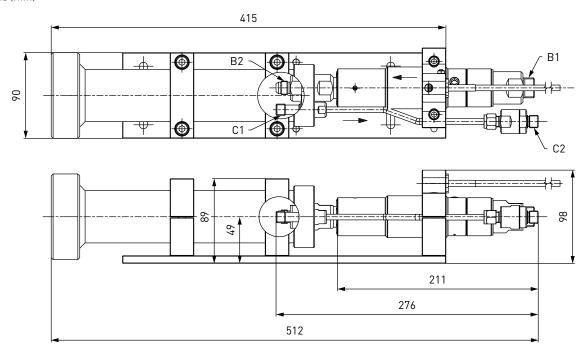




Part No.	Description	DN	Pressure (PN)	B1 (external thread)	B2 (external thread)
C1-111068-X01	TSA1 H ₂ with filter (40 micron)	4	350 bar / 5,000 psi	UNF 7/16"-20*	UNF 7/16"-20*

^{*} acc. to SAE J514, 37°

${\bf ORDERING} \;\; {\bf I} \;\; {\bf WEH}^{\tiny \circledR} \; {\bf TSA1} \; {\bf H_2} \; {\bf Breakaway} \; {\bf Coupling} \; {\bf with} \; {\bf gas} \; {\bf recirculation,} \; {\bf for} \; {\bf data} \; {\bf interface}$





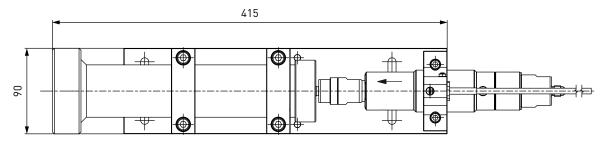
Part No.	Description	DN	Pressure (PN)	B1 (external thread)	B2 (external thread)	C1 (external thread)	C2 (external thread)
C1-90679-X01	TSA1 H ₂ with filter (40 micron)	4	350 bar / 5,000 psi	G1/2"	UNF 9/16"-18*	M12x1.5**	G1/4"

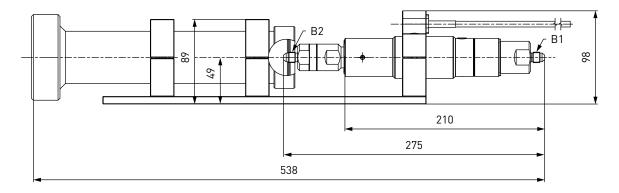
^{*} acc. to SAE J514, 37°

^{** 24°} inner cone

Ordering

${\bf ORDERING \ | \ WEH^{\it @} \ TSA1 \ H_{\it 2} \ Breakaway \ Coupling \ without \ gas \ recirculation, for \ data \ interface }$







Part No.	Description	DN	Pressure (PN)	B1 (external thread)	B2 (external thread)
C1-111069-X01	TSA1 H ₂ with filter (40 micron)	4	350 bar / 5,000 psi	UNF 7/16"-20*	UNF 7/16"-20*

^{*} acc. to SAE J514, 37°

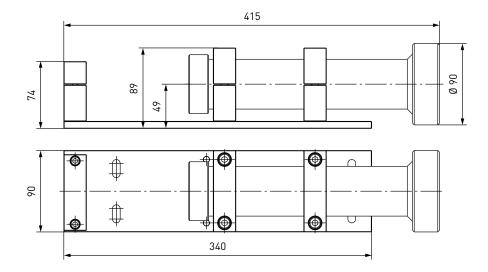
Accessories

ACCESSORIES

The following accessories are available for the WEH $^{\rm B}$ TSA1 H $_{\rm 2}$ Breakaway Coupling:

Dispenser mounting for breakaway coupling

The breakaway coupling can also be used with a dispenser mounting. The mounting is firmly attached to the dispenser. The integrated guide tube provides a straight pull-off force. The dispenser mounting can be used instead of a return pulley (hose pulley).





Bestellnummer	Beschreibung
C1-69275	Dispenser mounting for TSA1 $\rm H_2$ in combination with TK16 $\rm H_2$ or TK17 $\rm H_2$ 35 MPa

Accessories

Filling and venting hoses

Suitable filling and venting hoses for the TSA1 H₂ breakaway coupling are available on request.

Fittings

Stainless steel fittings for connecting port 'B2' to the filling hose resp. port 'C1' to the venting hose are available on request.

Spare parts

Various parts are available as spares for the TSA1 H₂ breakaway coupling.

Part No.	Description					
W94249	Receptacle insert for TSA1 $\rm H_2$ with gas recirculation (C1-18834, C1-67741)					
W108401	Receptacle insert for TSA1 H_2 with gas recirculation (C1-99345)					
W74608	Receptacle insert for TSA1 H ₂ without gas recirculation (C1-111068, C1-111069)					
W108154	Receptacle insert for TSA1 $\rm H_2$ with gas recirculation (C1-90679)					
C1-119056	Spare seal set for receptacle insert W94249, W108401, W108154					
C1-119054	Spare seal set for receptacle insert W74608					
E69-9061	Wire filter insert 40 micron (incl. spring and o-ring)					
E69-67754	Wire filter insert 20 micron (incl. spring and o-ring)					
E69-46414	Copper disc for G1/4" external thread (port C2)					
E69-45950	Copper disc for G1/2" external thread (port B1)					



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 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^{\otimes} Products and WEH^{\otimes} 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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