

Type **TSA5 CNG**

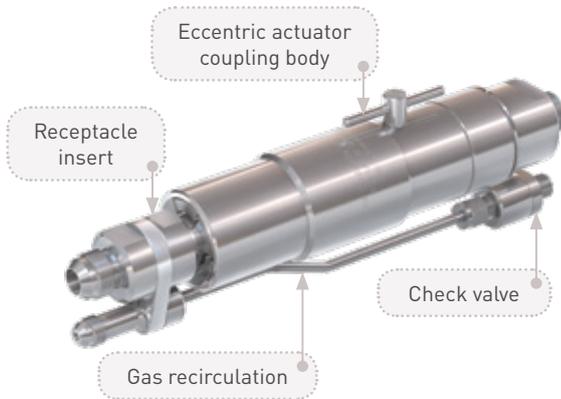
Breakaway Coupling

for bus and truck fuelling stations



General

DESCRIPTION



Features

- Re-usable without factory reservicing
- Installation at the dispenser
- Small compact design
- Integrated cleanable filter (40 micron)
- Check valve at venting line
- No additional tool necessary
- Option: without filter; without gas recirculation

The type TSA5 CNG breakaway coupling offers additional safety for your bus and truck fuelling station. The breakaway is installed between the dispenser and the filling/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. We recommend to use breakaways with integrated filter. The filter provides clean natural gas and is easy to maintain. Of course we also offer breakaway couplings without filter.

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

We also offer complete hose assemblies consisting of a fuelling nozzle, a hose set and a breakaway coupling (for complete hose assemblies see respective fuelling nozzle).

Application

Breakaway coupling for bus and truck fuelling stations for installation between the dispenser and the filling/venting hose.

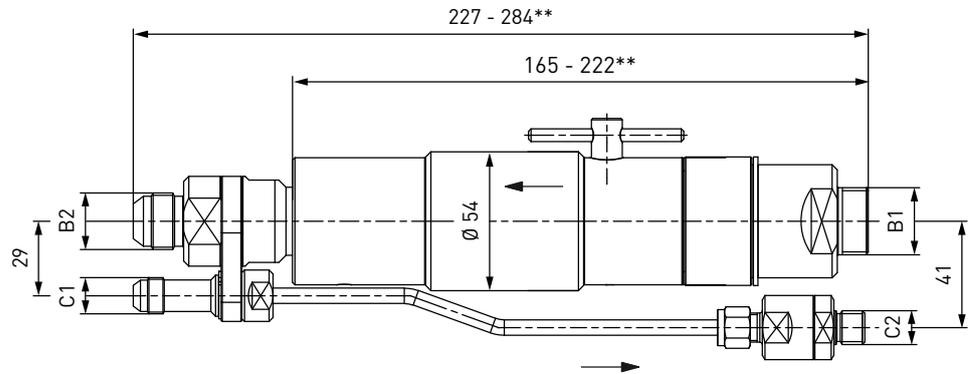
TECHNICAL DATA

Characteristic	Basic version	Options
Nominal bore DN	12 mm	On request
Pressure range	PN = 200 bar (3,000 psi) PS = 300 bar PT = 450 bar PN = 250 bar (3,600 psi) PS = 350 bar PT = 525 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	Natural gas compatible	On request
Design	With gas recirculation and filter (40 micron)	Without gas recirculation Without filter

Ordering

ORDERING | Breakaway coupling TSA5 CNG with gas recirculation

approx. dimensions (mm)



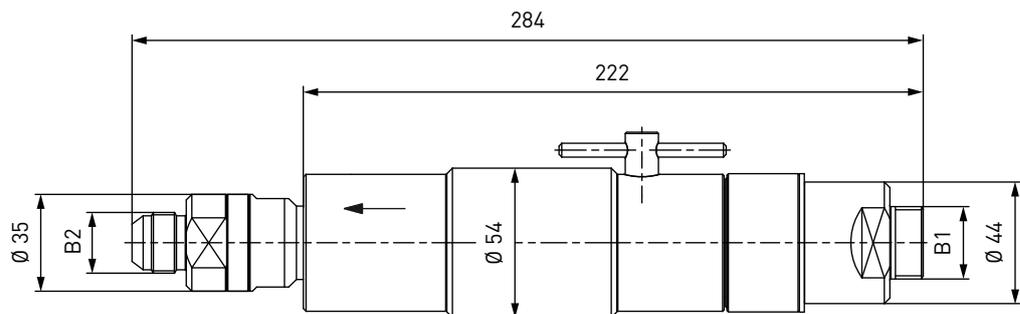
Part No.	Description	Pressure (PN)	B1 (external thread)	B2 (external thread)	C1 (external thread)	C2 (external thread)
C1-17198-X7-X01	TSA5 CNG with filter	200 bar / 3,000 psi	G3/4"	UNF 7/8"-14*	UNF 9/16"-18*	G1/4"
C1-102489-X01	TSA5 CNG with filter	250 bar / 3,600 psi	G3/4"	UNF 7/8"-14*	UNF 9/16"-18*	G1/4"
C1-17199-X7-X01	TSA5 CNG without filter	200 bar / 3,000 psi	G3/4"	UNF 7/8"-14*	UNF 9/16"-18*	G1/4"

* acc. to SAE J514, 37°

** length depending on type of breakaway coupling

ORDERING | Breakaway coupling TSA5 CNG without gas recirculation

approx. dimensions (mm)



Part No.	Description	Pressure (PN)	B1 (external thread)	B2 (external thread)
C1-18693-X2-X01	TSA5 CNG with filter	200 bar / 3,000 psi	G3/4"	UNF 7/8"-14*

* acc. to SAE J514, 37°

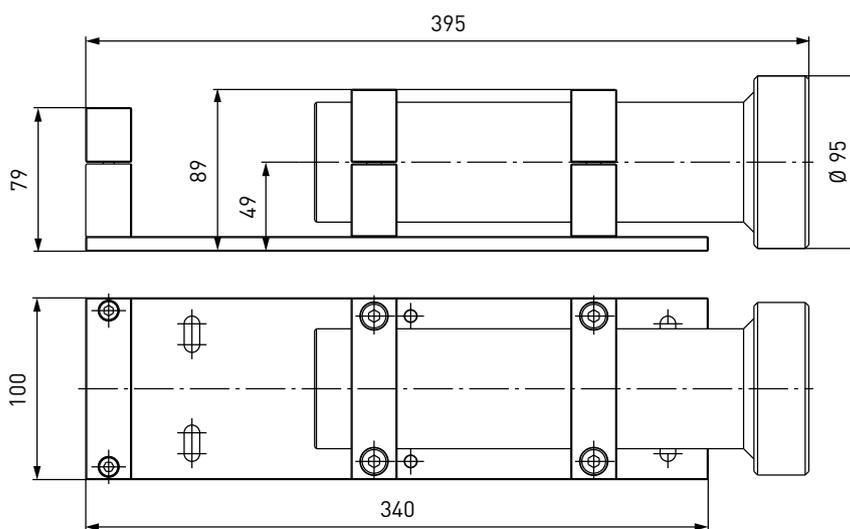
Ordering

ACCESSORIES

The following accessories are available for type TSA5 CNG:

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).



Part No.	Description
C1-82110	Mounting for TSA5 CNG

Filling and venting hoses

Please see page 122 in catalogue no. 15 or the corresponding fuelling nozzles for filling and venting hoses suitable for the type TSA5 CNG breakaway coupling.

Ordering

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 breakaway	Connection filling hose
C1-97227	Fitting	UNF 9/16"-18* internal thread	UNF 9/16"-18* internal thread
C1-79538	Fitting	UNF 9/16"-18* internal thread	UNF 9/16"-18 ** internal thread
E80-647P	Fitting	UNF 9/16"-18* internal thread	UNF 7/8"-14* external thread
C1-66850	Fitting	UNF 9/16"-18* internal thread	UNF 3/4"-16* external thread
C1-65592	Fitting	UNF 9/16"-18* internal thread	NPT 1/4" internal thread
E80-52705	Fitting	UNF 7/8"-14* internal thread	UNF 9/16"-18* external thread
C1-105411	Fitting	UNF 7/8"-14* internal thread	UNF 7/16"-20* external thread
C1-48976	Fitting	UNF 7/8"-14* internal thread	NPT 1/4" external thread

* acc. to SAE J514, 37°

** acc. to SAE J1926

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 TSA5 CNG:



Part No.	Description
W63194	Receptacle insert for type TSA5 CNG with gas recirculation
W106557	Receptacle insert for type TSA5 CNG without gas recirculation
E69-9062	Wire filter insert 40 micron (incl. spring and o-ring)
E69-46414	Copper disc for G1/4" external thread (port C2)
E69-45951	Copper disc for G3/4" external thread (port B1)

Other products

OTHER PRODUCTS

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



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® Products and WEH® Spare parts comply with our quality and safety standards.

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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.

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» Contacting

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