

Type TSA1 H₂ and TSA5 H₂

Breakaway coupling for car and bus hydrogen fuelling stations

The breakaway couplings type **TSA1** (car) and **TSA5** (bus/truck) offer additional safety for your fuelling station.

The coupling consists of a breakaway coupling and a receptacle which are installed between the dispenser and the fuelling 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 and protect your dispensing equipment against damage. The detached coupling can be easily reattached and

placed back in service after having been function tested. The integrated filter system provides clean hydrogen and is easy to maintain.

Features:

- Integrated renewable filter
- Re-usable after a breakaway without factory reservicing
- Installation at the dispenser
- Compact design
- Can be used for two different pressure ranges max. 250 bar or max. 350 bar
- For testing purposes operating pressure up to max. 450 bar



The breakaway device consists of a breakaway coupling, a receptacle and gas recirculation with check valve.

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Technical Data:

Application:
Breakaway coupling for car and bus hydrogen refuelling stations.

Temperature range:
-40°C up to +85°C

Nominal bore:
TSA1: 10 mm
TSA5: 12 mm

Pressure ranges:
Pressure range 250 bar:
PN = 250
PS = 350
PT = 525

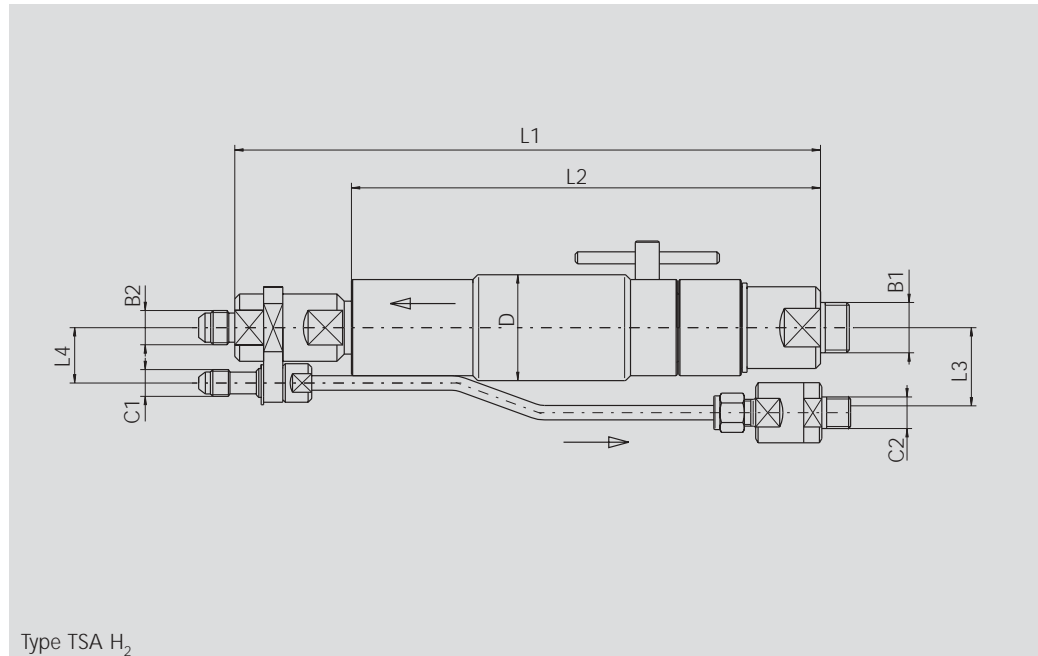
Pressure range 350 bar:
PN = 350 bar
PS = 450 bar
PT = 675 bar

Design:
All parts corrosion-resistant steel and aluminium. Seals hydrogen compatible.

Registration:
PED 97/23/EC: CE 0036

Breakaway force:
approx. 300-600 N

Dimensions (mm):



Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	B1	B2	C1	C2	D Ø (mm)
TSA1	243.5	196	35	23	G1/2" external thread	UNF 9/16" -18* external thread	UNF 7/16" -20* external thread	G1/4" external thread	40
TSA5	262	220	40	29	G3/4" external thread	UNF 7/8" -14* external thread	UNF 9/16" -18* external thread	G1/4" external thread	50

* acc. to SAE J514, 37°

Ordering:

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Description	Filter size	Part No.
TSA1 with particle filter	40 Micron	C1-18834
TSA1 with particle filter	20 Micron	C1-67741
TSA5 with particle filter	40 Micron	C1-17941