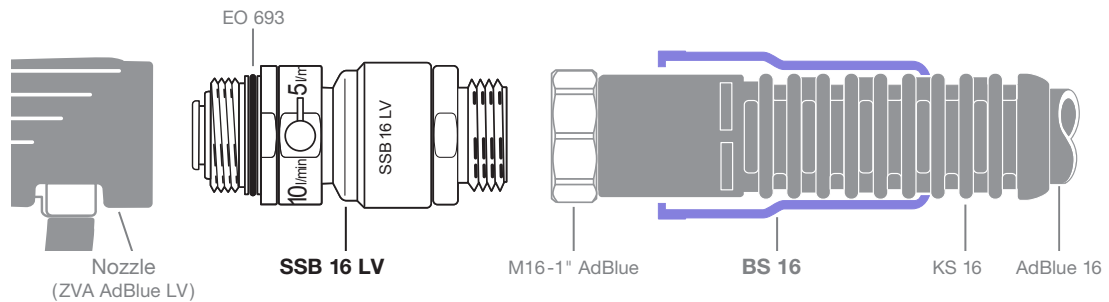


### Safety Swivel Break 'SSB 16 LV'

for AdBlue® / DEF (Diesel Exhaust Fluid) Urea Solution



**SSB 16 LV** is a self-sealing reusable break-away coupling with swivel for the filling of cars and transporters (Light Vehicles) with AdBlue® urea solution (DEF/AUS 32/ARLA32). The coupling is designed to protect dispenser, hose assembly and car against damage which can occur by drive-off incidents. As a nozzle break it is fitted between **ZVA AdBlue LV** and the hose assembly. The **integrated volume flow switch** is used for calibration only.

Before delivery each **SSB 16 LV** is tested regarding the break-off force and tightness under pressure (5.25 bar to EN 13617-2). This is documented by the factory date code, e.g. '1158' for 1 = Monday; 15 = calendar week 15; 8 = year 2018. According to EN 13167-2 the coupling separates at a pull force between 80 kg (800 N) and 150 kg (1500 N) in an axial and angular direction. Operation temperature range restricted to -5° C up to +55° C due to the properties of urea solution (temperature range acc. to standard: -20° C up to +55° C). For use at lower temperatures dispenser heating systems should be used.

**NOTE:** Ensure that the dispenser allows the maximum bending moment without damage.

### INSTALLATION INSTRUCTIONS

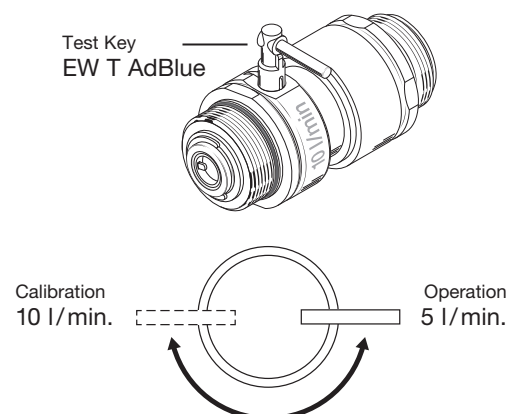
- Switch off pump. Release pressure in hose
- Remove nozzle from hose assembly and drain hose
- Push break sleeve **BS 16** back over the hose assembly and anti-kinking sleeve KS 16
- Screw **SSB 16 LV** with assembled strainer into nozzle
- Screw **SSB 16 LV** onto the hose assembly by using two EW-M 36/41 wrenches – **do not use a vice**
- Activate pump and check carefully to ensure connections are tight
- Push **BS 16** over **SSB 16 LV** until the lip rests in the groove

The break sleeve **BS 16** helps protect the break-away part against external damage in the event of a drive-off. A range of colours is available for product identification.

### CALIBRATION

Most light vehicles < 3,5 t allow a trouble-free filling of the AdBlue® tanks with a flowrate of not more than 5 l/min. The nozzle should be adjusted to this value for daily operation.

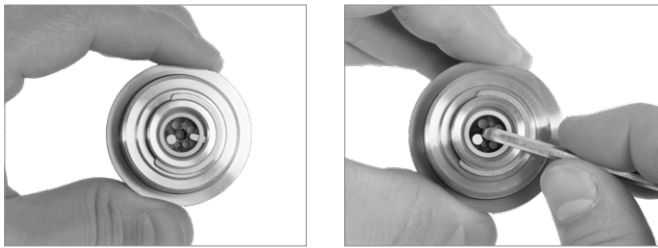
**For calibration and testing purposes only** (weights and measures), the swivel EA 075 LV and the Safety Swivel Break SSB 16 LV are set to a flowrate of 8-10 l/min. Use test key EW T AdBlue, remove after calibration.



## FLOWRATE ADJUSTMENT

To put the nozzle into operation, adjust the actual flowrate to 5 l/min. When using the hose connections EA 075 LV or SSB 16 LV, the volume flow switch shall be set to the standard '5 l/min' marking. Check the flowrate with the help of a calibrated vessel. **For details see ZVA AdBlue LV Installation and Operating Manual.**

The flowrate can also be adjusted directly at the hose connection EA 075 LV: Screw off hose connection. Rotate the black orifice with tool EW SK 3 (hex key 3 mm). The black orifice includes 4 different bore diameters to adjust the flow path (factory setting: fully open). After adjustment, reattach the swivel EA 075 LV or Safety Swivel Break SSB 16 LV to the nozzle and check the flowrate again.



## REASSEMBLY AFTER SEPARATION

**NOTE:** This work must only be done by an authorised service engineer who is trained to ensure compliance with all relevant national regulatory conditions. He should also test and check the dispenser, nozzle and hose connections for possible damage. The whole system is then subjected to a pressure test before being put into operation again.

- Switch off pump. Release pressure in hose
- Push break sleeve **BS 16** over the hose assembly and the anti-kinking sleeve KS 16

- Unscrew SSB body from nozzle and SSB break-away part from hose
- Clean all parts (crystallized urea solution can be washed away with water or urea solution). Check all parts for damages caused by the accident like ovalness, other deformations or broken plastic parts. With such damage, the safety break coupling may not be reused. Except for the visible O-ring EO 693 no spare parts are supplied. The body and break-away part shall not be separately replaced or substituted.
- In order to avoid media contamination, parts of this Safety Break normally are not greased.
- Hold body part in vertical position and center the circlip inside by hand. Fit the break-away part carefully from the top into the body. Both have to be in straight line.
- Hold parts centric and press them together with a vise. Make sure that both parts remain aligned axially until the snap together visibly and audibly.
- The necessary assembly force has to be applied in 2 steps (two consecutive snaps). In case of noticeable resistance stop and start again at (f).

Thereafter reconnect **SSB 16 LV** with **BS 16** between nozzle and hose assembly – see Installation Instructions overleaf.

