

## PSB

### Reusable Pump Safety Break

The ELAFLEX **'PSB'** is a self-sealing safety break coupling designed to protect dispenser, hose assembly and car against damage which can occur by drive-off incidents. The function of each new **PSB** is tested and marked with a day code before leaving the factory.

According to EN 13617-2 the coupling separates at a pull force between 80 kg (800 N) and 150 kg (1500 N) in an axial and angular direction. Temperature range -20° C up to +55° C.

The fuel flow will be stopped in case of a separation in both directions. The overall spillage in case of separation is less than the permitted 10 ml.

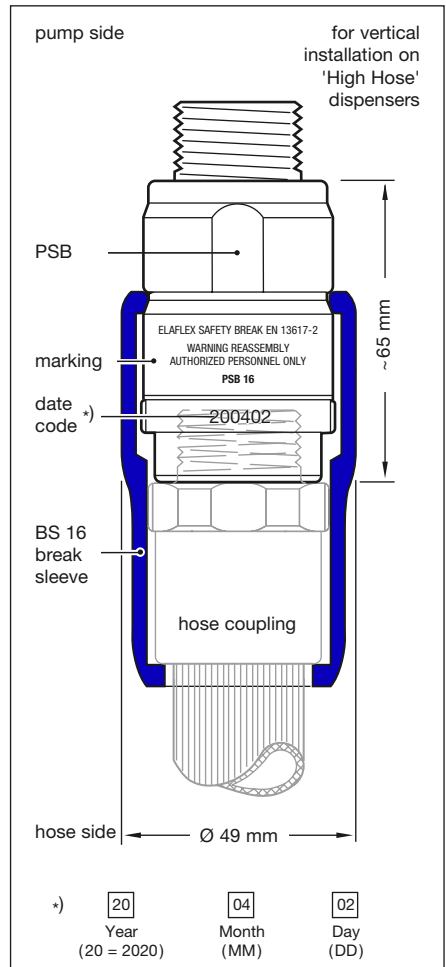
The break sleeve **BS 16** helps protect the break-away part against external damage in the event of a drive-off. It must be always fitted.

NOTE: Ensure that the dispenser allows the maximum pull force in all approach directions without damage.

### INSTALLATION INSTRUCTIONS

**PSB** is installed *directly* on the top outlet of a high hose dispenser. There is no need to install extra pigtail hoses.

Push **BS 16** break sleeve back over the hose fitting. Fasten hose fitting



to **PSB** inlet. For NPT threads do not use Teflon tape but pipe sealant on threaded connections. Check the whole system for tightness.

Then push **BS 16** sleeve upward over the **PSB** as shown above.

## 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.

- (a) Switch off pump. Release pressure in hose.
- (b) Push **BS 16** sleeve back over the hose fitting.
- (c) Unscrew PSB body from the pump outlet.  
Unscrew the break-away part from the hose fitting.
- (d) Clean all parts and check them for damages like ovalness and other deformations or broken plastic parts.  
With such damage the safety break coupling may not be reused.
- (e) Slightly lubricate all metallic sliding surfaces of the break-away part, the O-ring and the groove for the circlip.
- (f) Hold body in vertical position and center the circlip by hand.  
Fit the break-away part carefully from the top into the body.  
Both have to be in straight line.
- (g) Hold parts centric and press them together with a vice.  
Make sure that both parts remain aligned axially until they snap together visibly and audibly with a click.
- (h) The necessary reassembly force has to be applied in 2 steps.  
In case of noticeable resistance stop and start again at (f).

Thereafter reconnect the Pump Break **PSB** and **BS 16** break sleeve between pump outlet and hose assembly as described overleaf and test assembly for tightness.

