

# SFW/VP

ELESA Original design

## Double-valve pressurised breather caps vandal-proof



- Cover**  
 Polyamide based (PA) technopolymer with graphic symbol "double valve". Resistant to solvents, oils, greases and other chemical agents.
- Threaded connector**  
 Acetal resin based (POM) technopolymer.
- Colour**  
 Black, matte finish.
- Flat packing ring**  
 NBR synthetic rubber.
- Safety valve**  
 Technopolymer with NBR synthetic rubber O-ring and stainless steel spring. Set at around 0.350 bar (0.700 bar on request).
- Suction valve**  
 Technopolymer sealing disk with NBR synthetic rubber O-ring and stainless steel spring. Set at around 0.030 bar.
- Ring-shaped air filter**  
 "Tech-foam" polyurethane foam mesh (polyester base), air filtration 10  $\mu$ .
- Folding key**  
 Acetal resin-based (POM) technopolymer, red colour, with stainless steel anti-intrusion-profile insert. On request and for sufficient quantities it can be supplied in black colour too.
- Maximum continuous working temperature**  
 100°C.
- "Vandal-proof" safety device (ELESA patent)**  
 The "vandal-proof" safety device (ELESA patent) is especially designed to prevent the cap from being unscrewed without permission. It is provided with a "controlled-torque" mechanism to guarantee the best seal of the packing ring.



**Special executions on request** (For sufficient quantities)  
 Phosphatised steel flat dipstick.

### Features

The use of SFW/VP pressurised breather cap (see working conditions example in the SFW. sheet (see page 978) which create a pressure plenum chamber right above the oil level within tested limit conditions, in order to avoid any reservoir deformation, offers the following advantages:

- reduces reservoir air volume intake keeping clean oil and filter
- improves suction pump action during working conditions reducing cavitation phenomenon
- prevents fluid leakage when the system is part of a mobile unit
- reduces foam in fluid.

### Applications

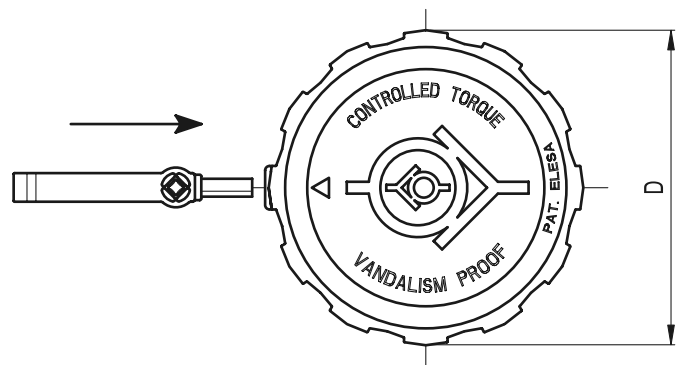
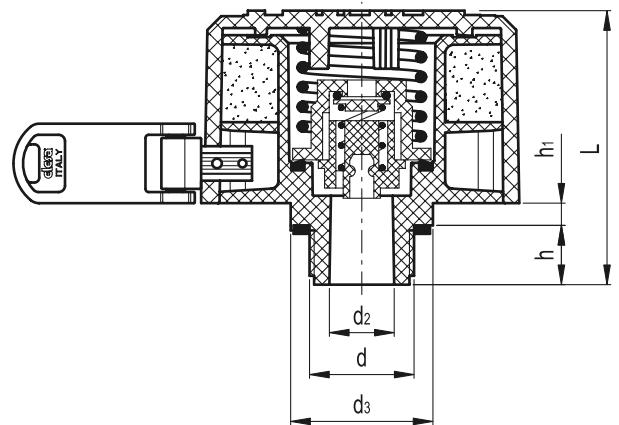
SFW/VP pressurised breather caps are suitable for material handling equipment, machines for the agriculture sector and in general for those machines which remain unattended.

Thanks to its small dimensions, the key can be kept together with others (e.g. together with the starting key of the engine).

Moreover, when the cap is closed, the special coupling mechanism cap/connector allows an IP 65 class protection as to IEC 529 table (see page 503).

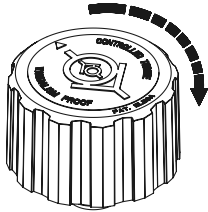
### Technical data

Air flow rate for each model can be determined from the graph calculating the difference between the pressure inside and outside the reservoir.

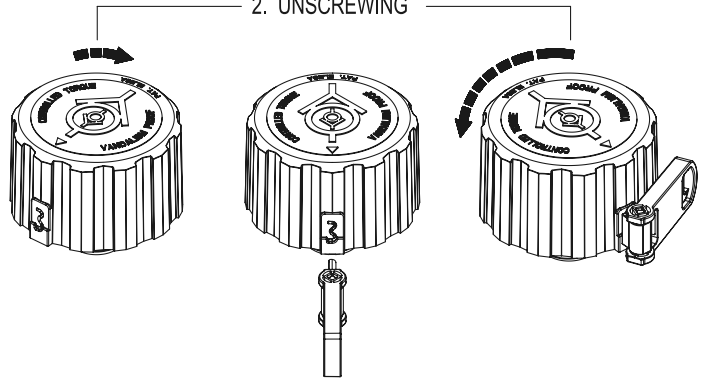


Elesa Standards		Main dimensions							$\Delta$
Code	Description	d	D	L	h	h <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	g
54961	SFW.80-VP-3/4-F-350mb	G 3/4	80	68	15	5.5	16	36	140
54967	SFW.80-VP-M42x2-F-350mb	M42x2	80	74	21	4	32	47	150

## 1. SCREWING



## 2. UNSCREWING



### 1. Screwing

Take out the key and screw the cap clockwise until the friction-click controlled torque mechanism is engaged so that to guarantee the best sealing of the packing ring. The maximum torque is reached at the first mechanism release (click). After that, the cap can neither be screwed (to protect the packing ring) nor unscrewed (to protect the cap from any tampering attempt).

**WARNING: during screwing the key must not be inserted.**

### 2. Unscrewing

Turn the cap clockwise until one of the two resistance points is reached. Only at one of these two positions the key, which couples the cover to the threaded connector, can be completely inserted and the cap can be unscrewed.

