Pressurised breather caps

with double valve and vandal-proof device, technopolymer

METRIC BSP

RoHS PA POM +212 °F -22 °F

MATERIAL
- Cover: polyamide based (PA) technopolymer, black colour, matte finish. Graphic symbol "double valve".
- Threaded connector: acetal based technopolymer (POM), black colour, matte finish.

PACKING RING
NBR synthetic rubber.

OVERPRESSURE VALVE
Technopolymer with NBR synthetic rubber O-ring and stainless steel spring.
Set at around 0.350 bar (on request 0.700 bar).

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 40 µ.

KEY
Acetal resin-based (POM) technopolymer, red colour, with stainless steel anti-intrusion-profile insert. Folding. On request it can be supplied in black colour too.

MAXIMUM CONTINUOUS WORKING TEMPERATURE
100°C.

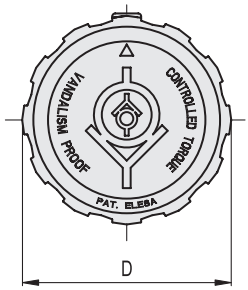
"VANDAL-PROOF" SAFETY DEVICE (ELESA PATENT)
It is especially designed to prevent the cap from being unscrewed without permission. It is provided with a "controlled-torque" mechanism which guarantees the best seal of the packing ring.

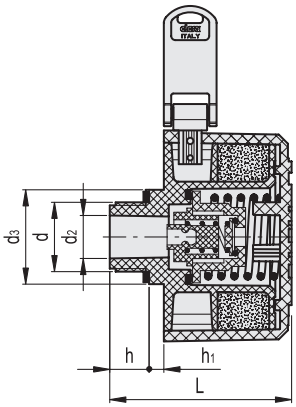
SPECIAL EXECUTIONS ON REQUEST
Flat dipstick, flat section phosphatised steel.

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. starting key of the engine).

FEATURES
The use of SFW-VP pressurised breather cap which create a pressure plenum chamber right above the oil level within tested limit conditions, in order to avoid any reservoir deformation, offers also other advantages (see example of functioning in the SFW. on page 1712).

ELESA Original design





Conversion Table	
1 mm = 0.039 inch	
D	
mm	inch
80	3.15

BSP ▼ METRIC

Code	Description	d	D	L	d2	d3	h	h1	⚖
54961	SFW.80-VP-3/4-F-350mb	G 3/4	80	68	16	36	15	5.5	140
		METRIC ▼							METRIC
54967	SFW.80-VP-M42x2-F-350mb	M42x2	80	74	32	47	21	4	150

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.

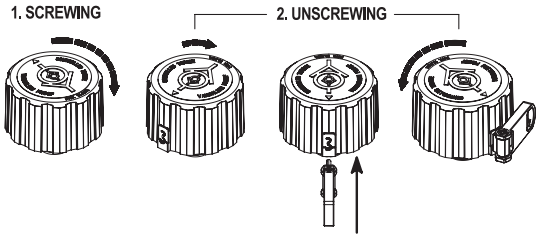
"VANDAL-PROOF" SAFETY DEVICE FUNCTIONING

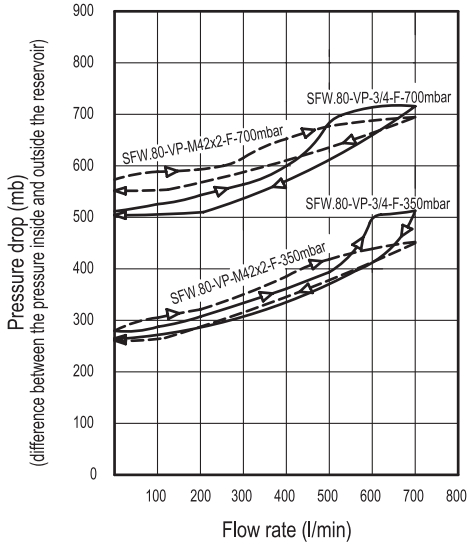
- Cap screwing.

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.

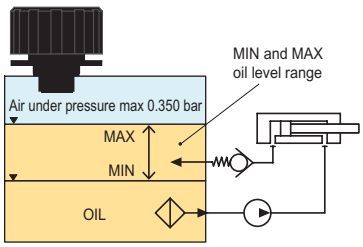
- Cap unscrewing.

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 competely inserted and the cap can be unscrewed.

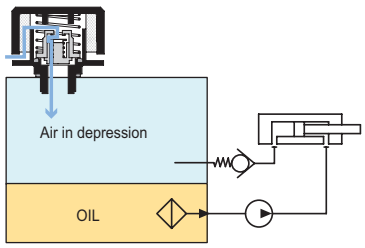




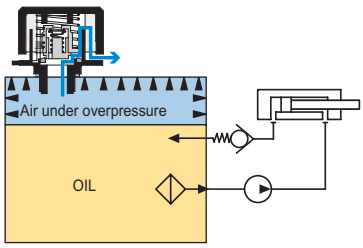
SFW.VP pressurised breather cap functioning in a hydraulic circuit



Normal working conditions



When in the reservoir a depression around 0.030 bar is produced, a flux of air entering the reservoir through the suction valve takes place.



When in the reservoir an over pressure exceeding 0.350 (or 0.700) bar is produced, a flux of air is discharged through the safety valve.