Breather caps

Technopolymer, high filtration, with double valve and splash guard

COVER
Polyamide-based (PA) technopolymer, black colour RAL 9005, matte finish, laser engraved graphic symbols.

THREADED FITTING
Polyamide-based (PA) technopolymer, with splash guard and hexagon nut, black colour, semi-matte finish.

PACKING RING
NBR synthetic rubber flat washer.

OVERPRESSURE VALVE
Technopolymer with NBR synthetic rubber O-ring.
Stainless steel spring, set at around 0.350 bar.

SUCTION VALVE
NBR synthetic rubber and stainless steel spring.
Set at around 0.030 bar.

AIR FILTER
Polyester with a filtration rate of 3µm (efficiency > 98%).

MAXIMUM CONTINUOUS WORKING TEMPERATURE
100°C.

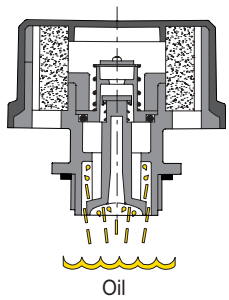
FEATURES
The SFW-AF (registered design) breather cap maintains a reservoir of air under pressure above the oil level within the limits established in the design stage to avoid deformation of the tank walls. Benefits:
- it reduces reservoir air volume intake keeping clean oil and filter;
- it improves suction pump action under working conditions reducing cavitation phenomenon;
- it prevents fluid leakage when the system is part of a mobile unit;
- it reduces foam in fluid.

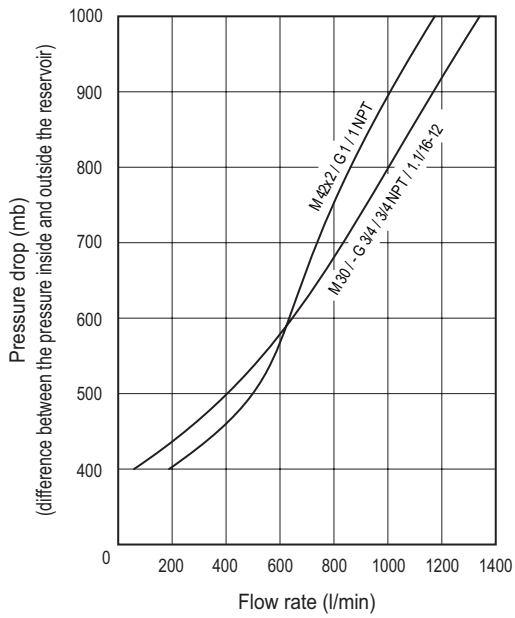
SFW-AF caps are made with a special internal geometry which stops the leakage of the fluid to the outside.
The hexagon on the threaded fitting makes it possible to apply, using a wrench, a greater tightening torque on the cap, ensuring better compression of the gasket.

TECHNICAL DATA
Air flow rate for the different executions of breather caps can be obtained from the diagram on the basis of the difference of air pressure inside and outside the reservoir.

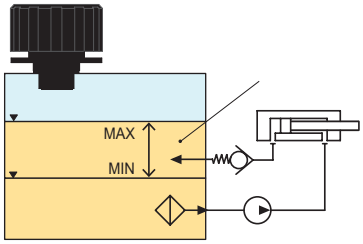
SPECIAL EXECUTIONS ON REQUEST
- Black cover without graphic symbol.
- Orange cover.
- Orange cover without graphic symbol.
- Yellow cover.
- Yellow cover without graphic symbol.

ELESA Original design

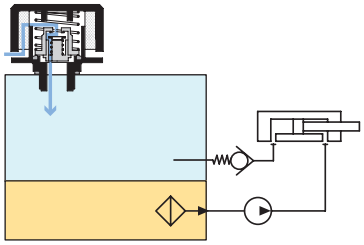




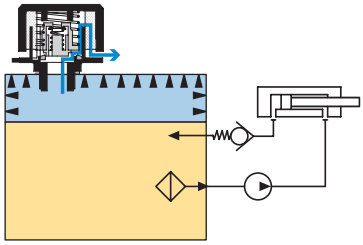
SFW-AF pressurised breather cap functioning in a hydraulic circuit



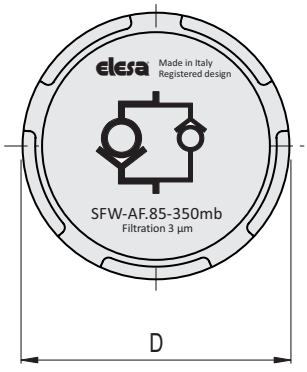
Normal working conditions

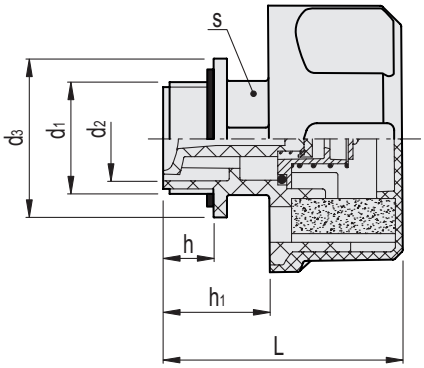


When in the reservoir a depression around 0.030 bar is produced, a flux of air entering the reservoir through the suction valve takes place.



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.





Code	Description	D	L	d1	d2	d3	h	h1	s	⚖
52940-C9	SFW-AF.85-M30x1.5+FC3-350MB-C9	85	73	M30x1.5	23	38	16	30.5	28	136
52942-C9	SFW-AF.85-M42x2+FC3-350MB-C9	85	76	M42x2	33	50	16.5	34	36	145
52944-C9	SFW-AF.85-G3/4+FC3-350MB-C9	85	73	G 3/4	20.5	35	16	30.5	28	135
52946-C9	SFW-AF.85-G1+FC3-350MB-C9	85	73	G 1	25	40	16	30.5	28	138
952944-C9	SFW-AF.85-3/4 NPT+FC3-350MB-C9	85	73	3/4 NPT	20.5	36	16.5	30.5	28	135
952946-C9	SFW-AF.85-1 NPT+FC3-350MB-C9	85	77	1 NPT	27	41	19	34.5	34	138
952948-C9	SFW-AF.85-1.1/16-12 SAE+FC3-350MB-C9	85	73	1.1/16-12 UNF	20.5	35	16	30.5	28	134