

SMN. SMW.

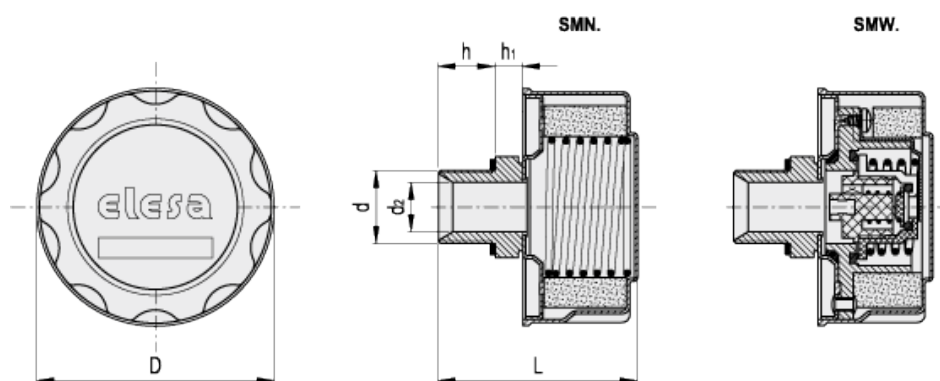
Breather caps and double-valve breather caps



+210°F
-20°F



BSP NPT



american unit
metric unit

Elesa Standards		Main dimensions						Weight
Code	Description	d	h	D	L	d ₂	h ₁	lbs g
156833	SMN.46-1/4-F40	- G 1/4	0.39 10	1.85 47	2.01 51	0.28 7	0.2 5	0.126 57
156883	SMN.80-3/4-F40	- G 3/4	0.63 16	3.19 81	2.76 70	0.67 17	0.47 12	0.526 239

american unit
metric unit

Elesa Standards		Main dimensions						Weight
Code	Description	d	h	D	L	d ₂	h ₁	lbs g
156983	SMW.80-3/4-F40-350mb	- G 3/4	0.63 16	3.19 81	2.76 70	0.67 17	0.47 12	0.678 308

american unit
metric unit

Elesa Standards		Main dimensions						Weight
Code	Description	d	h	D	L	d ₂	h ₁	lbs g
956833	SMN.46-1/4 NPT-F40	1/4 NPT -	0.39 10	1.85 47	2.01 51	0.28 7	0.2 5	0.126 57
956883	SMN.80-3/4 NPT-F40	3/4 NPT -	0.63 16	3.19 81	2.76 70	0.67 17	0.47 12	0.526 239

american unit
metric unit

Elesa Standards		Main dimensions						Weight
Code	Description	d	h	D	L	d ₂	h ₁	lbs g
956983	SMW.80-3/4 NPT-F40-350mb	3/4 NPT -	0.63 16	3.19 81	2.76 70	0.67 17	0.47 12	0.678 308

Material

- Cover: steel sheet, with chrome plating superficial treatment.
- Flange: zinc-plated steel sheet.
- Threaded connector: zinc-plated steel.

Flat packing ring

NBR synthetic rubber (only GAS execution)

Overpressure valve (only for SMW.)

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

Suction valve (only for SMW.)

Technopolymer sealing disk with NBR synthetic rubber O-ring and stainless steel spring.
Set at around 0.030 bar.

Ring shape air filter

Tech-foam 40 µ.

Filter setting spring (only for SMN.)

Zinc-plated steel.

Standard executions

- SMN.: breather cap.
- SMW.: double-valve breather cap.

Maximum continuous working temperature

212°F (100°C).

Special executions on request

With dipstick for fluid level indication (only for SMW.).

Features and applications

Double-valve breather cap SMW. creates a pressure plenum chamber right above the oil level within given limit conditions in order to avoid any reservoir deformation.

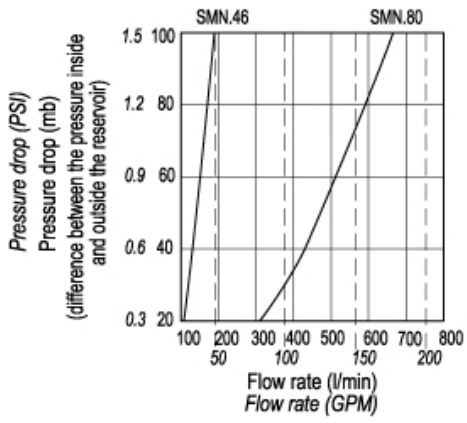
Advantages:

- it reduces reservoir air volume intake keeping clean fluid 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.

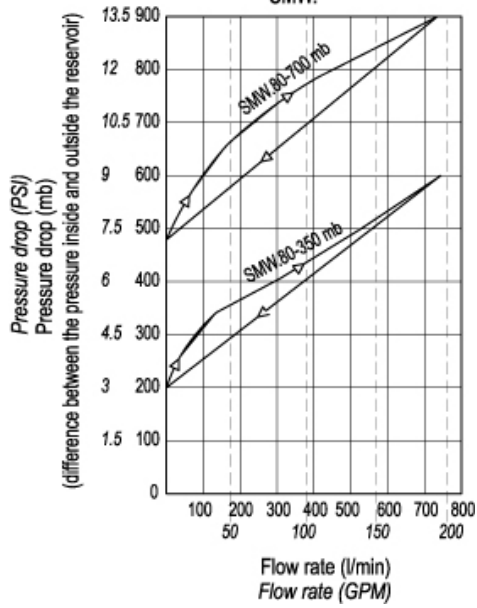
Technical data

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.

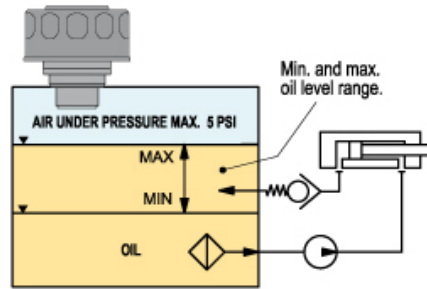
SMN.



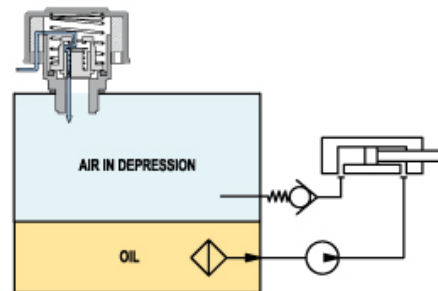
SMW.



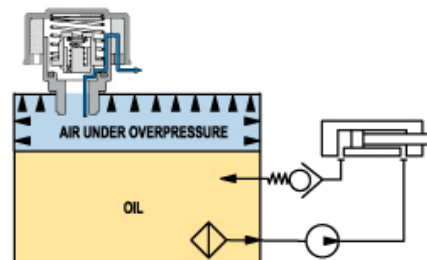
SMW. pressurised breather cap functioning in a hydraulic circuit



Normal working conditions



When in the reservoir a depression under 0.45 PSI is produced, a flux of air entering the reservoir through the suction valve takes place.



When in the reservoir an over pressure exceeding 5 (or 10) PSI is produced, a flux of air is discharged through the safety valve.