

MATERIAL

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

PACKING RING

NBR synthetic rubber flat washer.

OVERPRESSURE VALVE (ONLY FOR SMW.)

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

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-SHAPED AIR FILTER

Tech-foam 40 µ.

FILTER SETTING SPRING (ONLY FOR SMN.)

Zinc-plated steel.

STANDARD EXECUTIONS

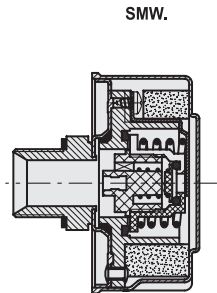
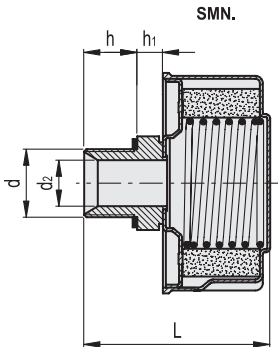
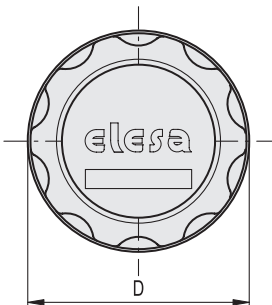
- **SMN.**: breather cap.
- **SMW.**: double-valve breather cap.

MAXIMUM CONTINUOUS WORKING TEMPERATURE

100°C.

SPECIAL EXECUTIONS ON REQUEST

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



Conversion Table	
1 mm = 0.039 inch	
L	
mm	inch
47	1.83
81	3.16

SMN.

Code	Description	D	d	L	d2	h	h1	△
156833	SMN.46-1/4-F40	47	G 1/4	51	7	10	5	69
156883	SMN.80-3/4-F40	81	G 3/4	70	17	16	12	265

SMW.

Code	Description	D	d	L	d2	h	h1	△
156983	SMW.80-3/4-F40-350mb	81	G 3/4	70	17	16	12	341

FEATURES AND APPLICATIONS

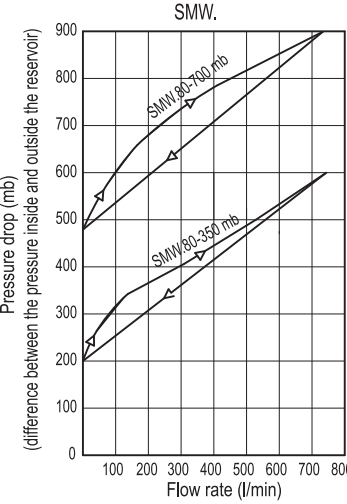
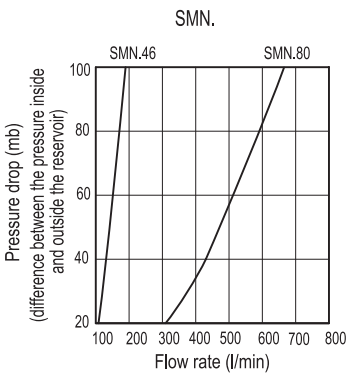
Double-valve breather cap SMW, creates a pressure plenum chamber right above the oil level within given limit conditions in order to avoid any reservoir deformation.

Advantages:

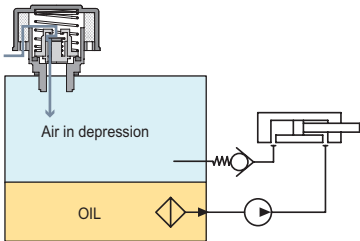
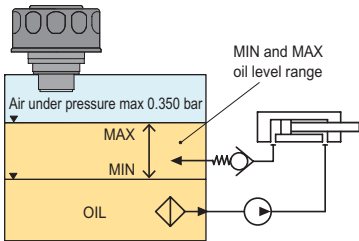
- it reduces reservoir air volume intake keeping clean fluid and filter;
- it improves suction pump action under working conditions reducing cavitation phenomenon;
- it prevents fluid leakage when the system is part of a mobile unit;
- it reduces foam in fluid.

TECHNICAL DATA

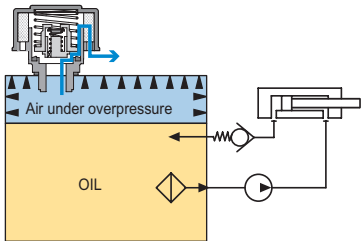
Air flow rate for the different executions of breather caps can be obtained from the diagram on the basis of the difference of air pressure inside and outside the reservoir.



SMW. pressurised breather cap functioning in a hydraulic circuit



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.