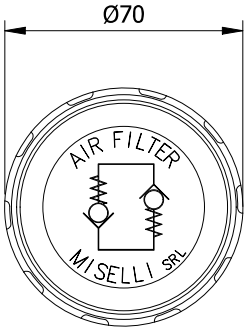
TECNODIN

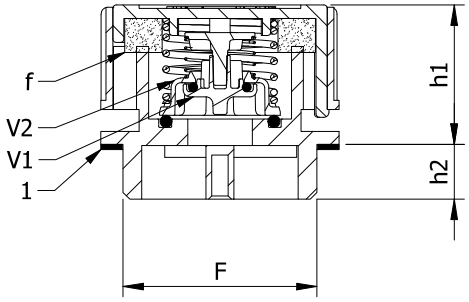
DATA SHEET PRODUCT

480077 DS70 PRESSURIZED FILLER BREATHERS Ø70 WITH DOUBLE VALVE AND FILTER / TMDV-DS70



Code	F	h1	h2
48007711172	G 3/4"	42	16
48007711372	G 1"	41	15
48007711472	G 1 1/4"	41	15
48007711272	G 1 1/2"	41	15
48007711572	G 2"	42	16
48007711672	56x4	42	16





V1 - Safety valve.
V2 - Suction valve.
f - Air filter.
1 - NBR flat seal.

Round headed filler breather with vertical ribs for better grip. manufactured from Polyamide 66 ensuring high mechanical resistance at both low and high temperatures (max working temperature 100°C/212 °F). Threaded base connection black colour: with graphic symbol "double-valve" and inscription 'AIR FILTER".

Poliurethane foam air filter.

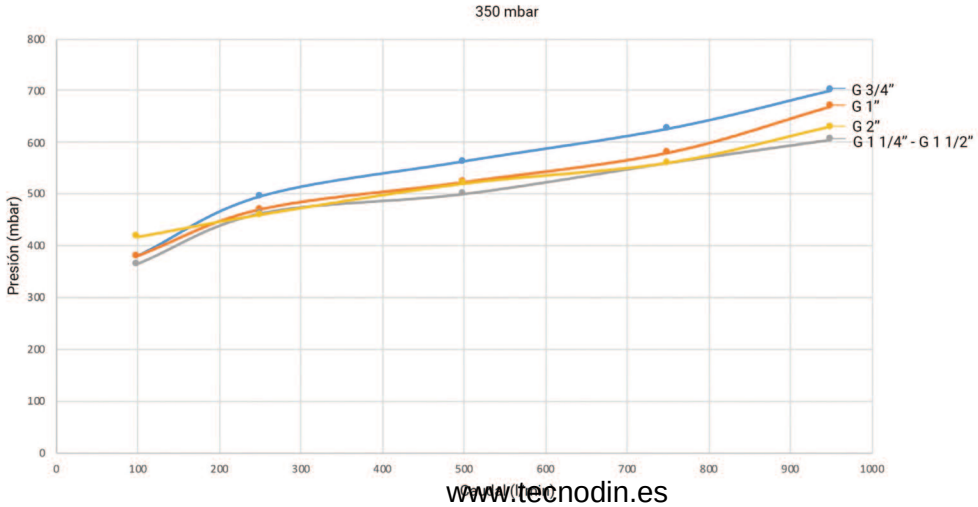
Main benefits:
Provide additional protection from moisture which can condense in your tank, causing oil breakdown and lose performance.
Provide positive head pressure to improve pump inlet suction condition.
You will experience increased breather life due to not breathing in on every hydraulic cycle. Can reduce breathing by as much as 90-95% increasing the life.
Performs oil containement function as anti splash.

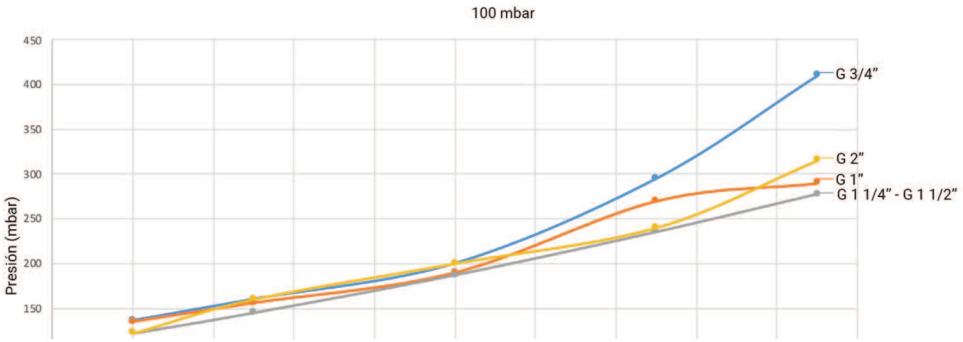
Pressurized breather operation:
The use of the double valve system. minimizes the exchange of the air between the reservoir and the environment, as well the ingression of contamination thus the life of the air filter element is increased.

The double valve allows for a 0.03 bar/0.43 PSI pressure to be created in the reservoir to improve the suction conditions for pumps.
When the fluid level rises the existing air volume is compressed. and no air is exhausted out the breather until the crack pressure is reached (0.35 bar/5 PSI option 0.10 bar/1.45 PSI).

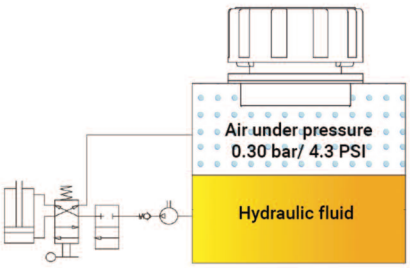
When the fluid level lowers, the tank pressure drops until a vacuum is created at which point, air will be drawn in trough the breather.
Air only escapes when the pressure in the reservoir exceeds the cracking pressure set. and air is only drawn in when the pressure in the reservoir drops below atmosphere.

The system will normally operate between those range most of the time so no breathing will take place. Airflow capacity: up to 950 Lt/min (see graphic).

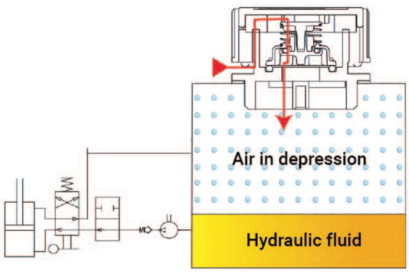




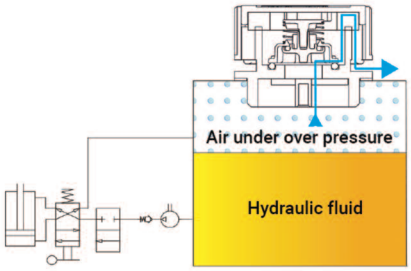
OPERATING DIAGRAM OF THE BREATHER CAP IN A HYDRAULIC CIRCUIT



Standard operating conditions



When a depression higher than around 0.03 bar/0.43 PSI is created inside de tank, an air flow enters through the suction valve.



When an overpressure higher than 0.35 bar/ 5 PSI (or 0.10 bar/ 1.5 PSI) is created inside the tank, the air flow exists through the safety valve.