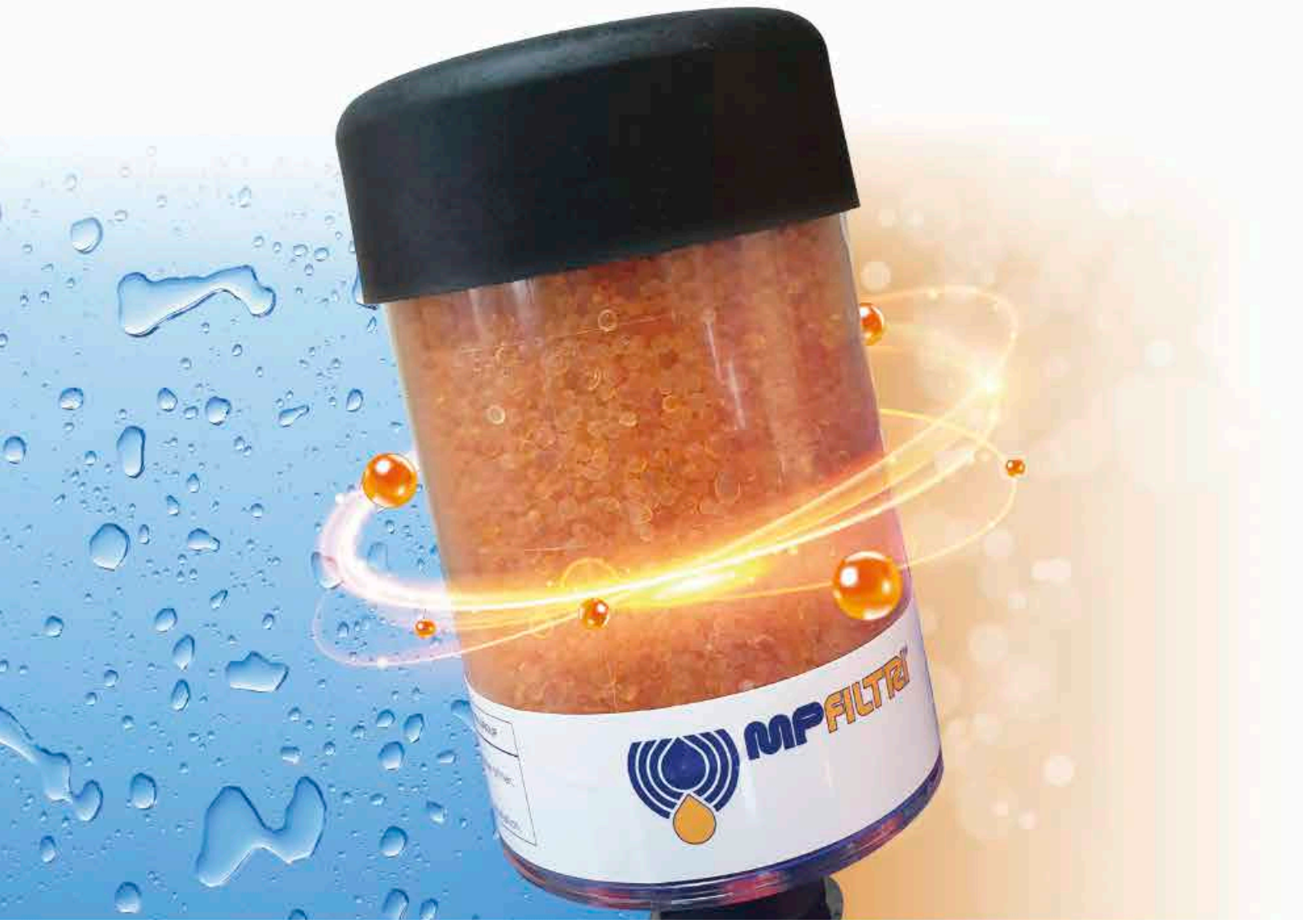
NEW

Tank accessories

SAW 115 series

Moisture control desiccant breathers



PASSION TO PERFORM

MPFILTRI®

FEATURES & BENEFITS

- ✔ **Absorbs harmful water vapour**
- ✔ **Removes moisture in the headspace of equipment**
- ✔ **Eliminates rust-forming condensation**
- ✔ **Prevents sludge deposits and water-contaminated oil**
- ✔ **Filters damaging contaminants**
- ✔ **Prevents contamination ingress**
- ✔ **Delivers longer lubricant life**
- ✔ **Reduces wear and tear and extents the lifespan of machinery**
- ✔ **Comprehensive system protection**



Second polyester filter element

Protects against migration of desiccant dust in the reservoir for maximum efficiency

Air Diffuser

Foam filter captures any oil mist and disperses incoming air evenly over filtration and drying areas.

Air Vents

Individual air intakes are opened based on flow requirements of the system. Plugs protect unit during shipping and storage.

Integrated Standpipe

Excellent vibration resistance, dissipates impact throughout the unit - eliminating weak points, and allows even airflow distribution



Body Shell

Made of resilient polycarbonate material for greater shock-protection. Clear UV protected casing providing reliable service and easy maintenance.

Water Vapor Absorbent

Silica gel adsorbs water from incoming air and can hold up to 40% of its weight.

Polyester filter element

Removes contamination from the incoming air to 3-micron.
Unique loops allow particles to release during system exhalation, helping to increase breather life.

Air diffuser

Foam filter disperses the incoming air evenly over filtration and drying section.

Threaded Mounting

Easily replaces standard filler/breather cap with multi-fit connection or through SMG adapter

Protection from moisture and particulate contamination in lubricant and equipment

INTRODUCTION

To ensure greater efficiency and to maximise the lifespan of hydraulic and lubrication systems **the fluids should be kept free from solid and water contamination**.
However most fluid reservoirs must breathe to function, allowing water vapour and solid contaminants to enter.
Temperature fluctuations in the reservoir will cause this water vapour to condense which will not only cause oxidation of the oil, but can also lead to considerable mechanical damage.
Standard air breathers remove some of the solid particles, but allow water vapour to pass freely.

WHAT IS A DESSICANT BREATHER?

The desiccant breather is a product that combines the filtration of pollution and absorption of free water contained in the air.
When the air enters the equipment through the breather, the filter layers remove the solid contamination while the desiccant agent holds the moisture.
While in service or during shut-down, the desiccant agent dries the equipment, absorbing moisture from the reservoir.
SAW is a range of desiccant breathers for hydraulic and lubrication systems.

WHAT CONTAMINATION PROBLEMS CAN DESSICANT BREATHERS PREVENT?

Liquid contamination is the cause of hydraulic and lubrication fluid performance issues.

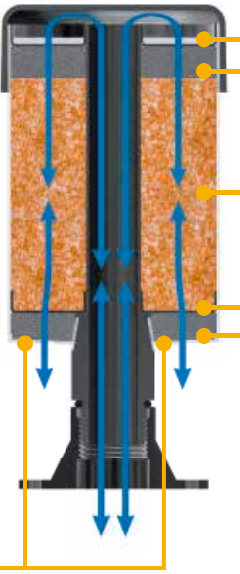
Negative effects include:
✗ Increase of fluid acidity
✗ Reduction of lubrication performance
✗ Reduction of fluid longevity
✗ Creation of bacterial colonies
✗ Creation of ice at low temperatures

It also causes damage in the hydraulic systems:
✗ Creation of rust in the hydraulic tanks
✗ Wear and tear on equipment

SAW 115 GENERAL INFORMATION

Focus on

How does SAW Series works



5 An additional filter layer stops dryer agent dust.

4 An additional air diffuser made of foam captures the oil mist.

3 The dryer agent adsorbs the moisture from the air.

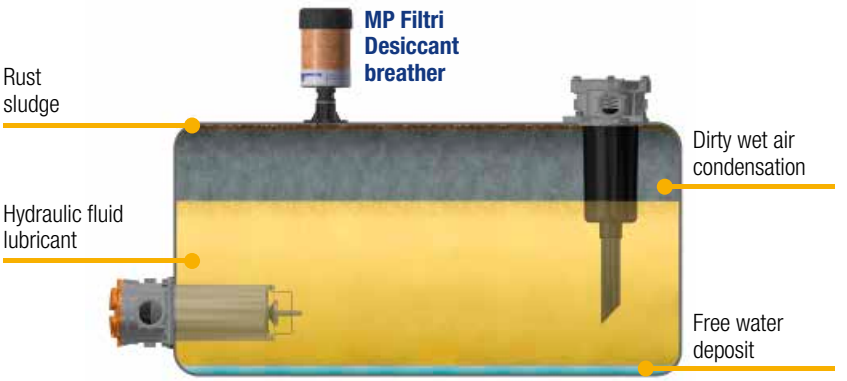
2 The filter layer holds the solid contamination.

1 The air diffuser made of foam disperses the air.

THE DRYER AGENT EVEN WORKS DURING SYSTEM SHUT-DOWN ABSORBING THE MOISTURE FROM THE AIR.

The air comes into the equipment through the breather.

SAW Series Benefits



✔ Eliminates condensation and prevents rust.

✔ Dries air drawn into the tank as result of the tank breathing.

✔ Prevents wear caused by the oxidation of the hydraulic fluids (reduction of lubrication).

✔ Extends the life time of hydraulics and fluids.

Applications

Where is SAW series used?

MP Filtri's range of breathers are proven in a wide variety of applications, including: IBC tanks, Transformers, Storage Tanks in Hydraulics, Power Generation, Mining, Aviation, Storage, Manufacturing, and Petrochemical applications.

Where can't SAW series be used?

The SAW series is NOT suitable for the following environments:

- Systems with aggressive fluids (Phosphate esters, Hydrogen sulfide, Sulfuric acid, Highly alkaline cleaners)
- Systems with heavy duty cycles (Vibrations, Risk of impacts, Wide temperature range)
- Large systems

Hydraulic systems



Oil storage



Renewable energy



Gearbox



Transformers



Tanks



SAW 115 GENERAL INFORMATION

Description

Air Breathers

Max air flow up to 453 l/min (16 cfm)

SAW115 breather units can be added to systems or can replace existing breathers using the SMG 1 adapter.

As air is drawn into equipment through the breather, the layered filter elements remove particulate while the dessicant beads strip harmful moisture.

While in service or during shut-down, the dessicant beads attract moisture from inside the equipment resevoir, actively drying the system fluid.

Available features:
Male threaded connections 1" Multi-fit (NPT, BSPT, NPSM)

Common applications:
- Storage tanks
- Transformers
- Hydraulics power packs

Technical data

Materials
Connection: Nylon
Internal Support Pipe: Nylon
Screen: Polycarbonate
Cover: Nylon
Dryer Agent: Silica Gel

Filter Efficiency
3µm absolute (B_3 ≥200)

Seals
NBR

Temperature
From -25 °C to +90 °C (from -20 °F to +200 °F)

Chemical Compatibility
Recommended:
- All Gear Oil
- Most Hydraulic Fluid
- Mineral and Synthetic Oil

Not Recommended:
- Phosphate Ester
- Hydrogen Sulphide
- Sulphuric Acid
- High Alkaline Cleaner

Humidity Protection
An MP Filtri standard breather
is five times more effective
than leading non-dessicant breathers.

Humidity Level
Below Ambient Conditions
SAW1153G03A00P01
protects 30,000+ cycles

Deliquescent:
Protects 5,000 cycles
(Testing parameters 73 °F, 1cfm)



Performances

		Max air flow @ 7 kPa (1 psi)	Water Absorption Capacity	Recommended max volume		Silica gel weight	Total weight
				Gearbox / Storage tank	Hydraulic reservoir		
Series	Length	[l/min (cfm)]	[ml (fl.oz)]	[l (gal)]		[kg (lb)]	
SAW115	**1**	453 (16)	118 (4)	757 (200)	227 (60)	0.32 (0.70)	0.60 (1.32)
SAW115	**2**	453 (16)	220 (7.45)	1325 (350)	379 (100)	0.56 (1.23)	0.90 (1.98)
SAW115	**3**	453 (16)	333 (11.3)	1893 (500)	757 (200)	0.84 (1.88)	1.20 (2.64)

SAW 115

Designation & Ordering code

COMPLETE BREATHER

Configuration example 1 :	SAW115	1	G	03	A	0	0	P01
Configuration example 2 :	SAW115	2	G	03	A	0	0	P01
Configuration example 3 :	SAW115	3	G	03	A	0	0	P01

Series and size
SAW115

Length
1 | **2** | **3**

Connections to the tank
G Thread 1”

Filtration rating
03 Orange Silica Gel

Seals
A NBR

Valve
0 Without valve

Option
0 Standard

Execution
P01 MP Filtri standard
Pxx Customized

ACCESSORIES

Configuration example :	SMG1	S	A	P02

Series and size
SMG Adapter Flange

Connections to the tank
S Without screws

Seals
A NBR

Execution
P02 MP Filtri standard

Silica gel

Active breather



Depleted breather



Silica gel is the most efficient and economic moisture adsorbent for general applications.

A white breather means the unit has done its job keeping moisture out of your lubricants.

Whenever the colour changes from orange to pink it’s time to replace the breather with a new one.

All breathers should be changed at least once a year.

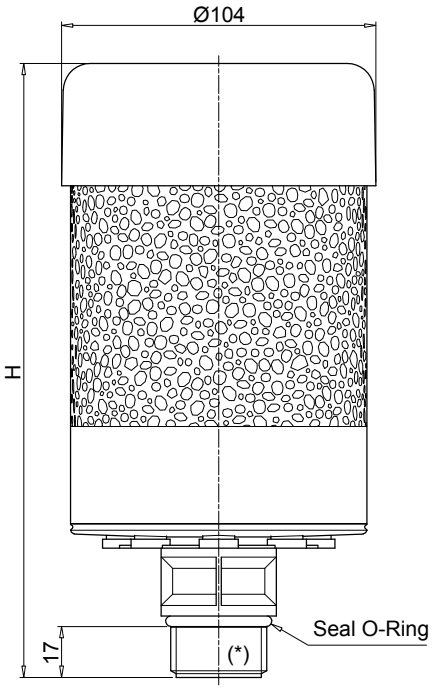
IMPORTANT
Dispose of the exhausted silica gel according to the regulations in force in the country of use.

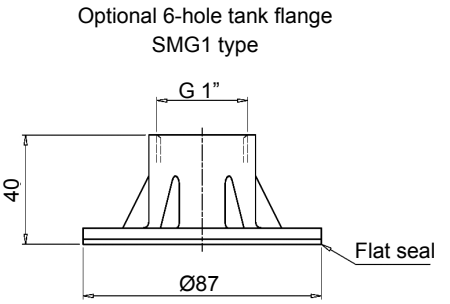


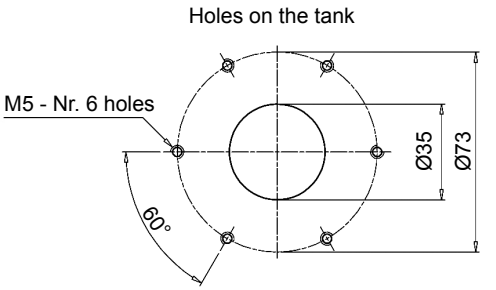
SAW 115

Dimensions

SAW115	
Length	**H [mm (in)]**
1	154 (6.06”)
2	205 (8.07”)
3	256 (10.08”)







(*) 1” Multi-fit (NPT, BSPT, NPSM)

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