Tank accessories

SAW 115 series Moisture control desiccant breathers

JEW



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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

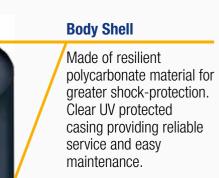
Foam filter captures any oil mist and disperses incoming air evenly over filtration and drying areas.

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



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:

- X Increase of fluid acidity
- X Reduction of lubrication performance
- **X** Reduction of fluid longevity
- X Creation of bacterial colonies
- X Creation of ice at low temperatures

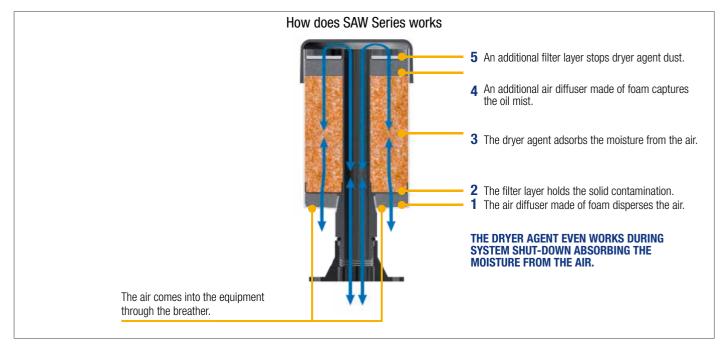
It also causes damage in the hydraulic systems:

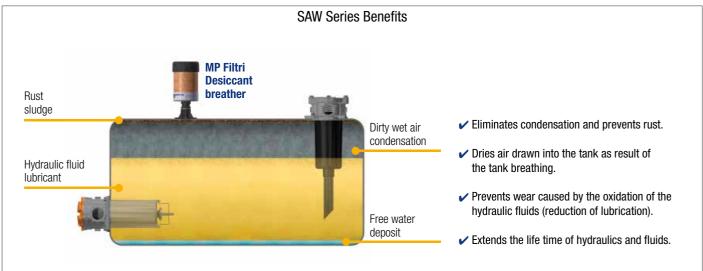
- X Creation of rust in the hydraulic tanks
- X Wear and tear on equipment



SAW 115 GENERAL INFORMATION

Focus on





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,
- Systems with heavy duty cycles (vibrations, Risk of Impacts, Wide temperature range)
- Large systems

Hydraulic systems





MPFILTRI





SAW 115 GENERAL INFORMATION

Description

Technical data

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

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

Filter Efficiency 3 μ m absolute (B₃ ≥200)

Seals NBR

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

Chemical Compatibility

Recommended:

- All Gear Oil
- Most Hydraulic FluidMineral and Synthetic Oil

Not Recommended:

- Phosphate Ester
- Hydrogen Sulphide
- Sulphuric Acid
 High Alkaline Cleaner
- nigh Aikaine Gleane

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 | [I/min (cfm)] | [ml (fl.oz)] | [I (g | [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 | | | | | | | |
|--|----------------------------------|---|---|----|--------|-------------|---------|-----|
| Series and size | Configuration example 1 : SAW115 | 1 | G | 03 | Α | 0 | 0 | P01 |
| SAW115 | Configuration example 2 : SAW115 | 2 | G | 03 | A | 0 | 0 | P01 |
| | Configuration example 3 : SAW115 | 3 | G | 03 | A | 0 | 0 | P01 |
| | | | | | | | | |
| 1 2 3 | | | | | | | | |
| Connections to the tank | | | | | | | | |
| G Thread 1" | | | | | | | | |
| Pilestin with a | | | | | | | | |
| Filtration rating 03 Orange Silica Gel | | | | | | | | |
| | | | | | | | | |
| Seals | | | | | | | | |
| A NBR | | | | | | | | |
| Valve | | | | | | | | |
| 0 Without valve | | | | | | | | |
| 0 v l'an | | | | | | | | |
| Option O Standard | | | | | | | | |
| • Carlouid | | | | | | | | |
| | | | | | ecutio | | tondord | |
| | | | | P0 | I IV | 1P Filtri s | lanuaru | |

Pxx Customized

| | ACCESSORIES |
|-------------------------|--------------------------------------|
| Series and size | Configuration example : SMG1 S A P02 |
| SMG Adapter Flange | |
| Connections to the tank | |
| S Without screws | |
| Seals | |
| A NBR | |
| | |
| | Execution |
| | P02 MP Filtri standard |

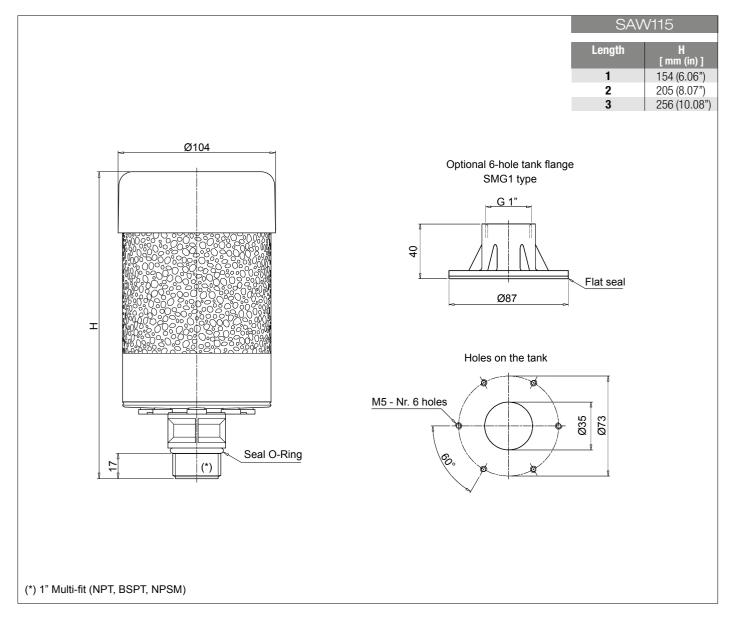
Silica gel











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WORLDWIDE NETWORK

HEADQUARTERS

MP Filtri S.p.A. Pessano con Bornago Milano - Italy +39 02 957031 sales@mpfiltri.it

BRANCH OFFICES

ITALFILTRI LLC Moscow - Russia +7 (495) 220 94 60 mpfiltrirussia@yahoo.com

MP Filtri Canada Inc. Concord, Ontario - Canada +1 905 303 1369 sales@mpfiltricanada.com

MP Filtri France SAS Villeneuve la Garenne Paris - France +33 (0)1 40 86 47 00 sales@mpfiltrifrance.com

MP Filtri Germany GmbH St. Ingbert - Germany +49 (0) 6894 95652 2-0 sales@mpfiltri.de

MP Filtri India Pvt. Ltd.

Bangalore - India +91 80 4147 7444 / +91 80 4146 1444 sales@mpfiltri.co.in

MP Filtri (Shanghai) Co., Ltd. Shanghai Pudong - China +86 21 58919916 116 sales@mpfiltrishanghai.com

MP Filtri U.K. Ltd. Bourton on the Water Gloucestershire - United Kingdom +44 (0) 1451 822 522 sales@mpfiltri.co.uk

MP Filtri U.S.A. Inc. Quakertown, PA - U.S.A. +1 215 529 1300 sales@mpfiltriusa.com

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