SAW 115 series

Moisture control desiccant air breathers



SAW 115 GENERAL INFORMATION

Technical data

Air breathers & Filler plugs

Moisture control desiccant air breathers
Max air flow up to 453 l/min

SAW is a range of desiccant breathers; they are products that combine the filtration of the solid contamination and the absorption of the free water contained into the air.
They are directly fitted on the tank; the filter layers remove the solid contamination while the desiccant agent holds the moisture contained in the air that enters into the tank as result of the tank breathing.
While in service or during shut-down, the desiccant agent dries the equipment, absorbing moisture from the reservoir.

Available features:

- Male threaded connections up to 1", for a maximum flow rate of 453 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Check valves, to extend the dryer agent lifetime.

Common applications:

Hydraulic systems, oil storage, tanks, transformers, renewable energy, Gearboxes.

Chemical Compatibility

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

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

Flow rate Δp 0.02 bar

	Flow rate [l/min]
Filtration rating	03
SAW115	453

Materials

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

Filter Efficiency 3 µm absolute (B_3 ≥200)

Seals NBR

Temperature From -25 °C to +90 °C

Humidity Level Below Ambient Conditions

SAW1153G03A00P01: protects 30.000 + cycles
Deliquescent: Protects 5.000 cycles
(Testing parameters 23°C, 30 l/min)

Silica Gel Weight

Length 1 0.32 kg
Length 2 0.56 kg
Length 3 0.84 kg

Total Weight

Length 1 0.60 kg
Length 2 0.90 kg
Length 3 1.20 kg



Designation & Ordering code

COMPLETE AIR FILTER

Configuration example: SAW115 | 1 | G | 03 | A | 0 | 0 | P01

Serie
SAW115

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

Connections
G 1" Multi-fit (NPT, BSPT, NPSM)

Filtration rating
03 Inorganic microfiber 3 µm

Seals
A NBR

Valve
0 Without valve
1 With check valves

Option
0 Standard

Execution
P01 MP Filtri standard
Pxx Customized

ACCESSORIES

Configuration example: SMG1 | S | A | P02

Serie
SMG1 Flanged adapter

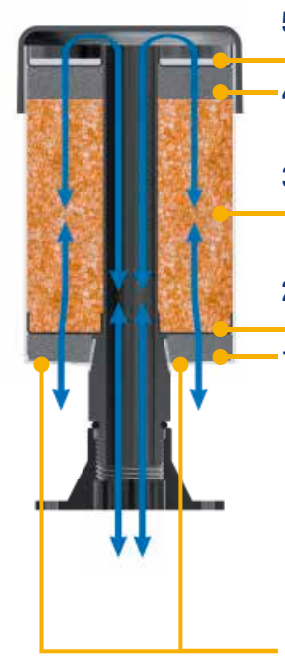
Connections
S Without screws

Seals
A NBR

Execution
P02 MP Filtri standard

Dimensions

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.

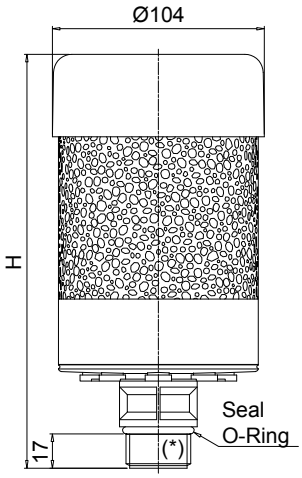
2 The filter layer holds the solid contamination.

1 The air diffuser made of foam disperses the air.

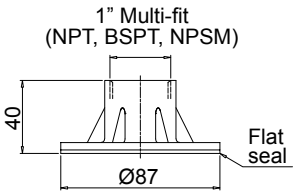
THE DRYER AGENT EVEN WORKS DURING SYSTEM SHUT-DOWN ABSORBING THE MOISTURE FROM THE AIR.

The air comes into the equipment through the breather.

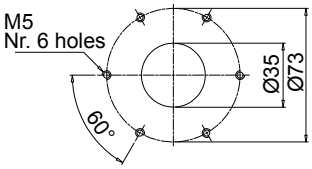
SAW115	
Length	**H [mm]**
1	154
2	205
3	256



Optional 6-hole tank flange SMG1 type



Holes on the tank



(*) 1" Multi-fit (NPT, BSPT, NPSM)

Silica gel

Active breather



Depleted breather



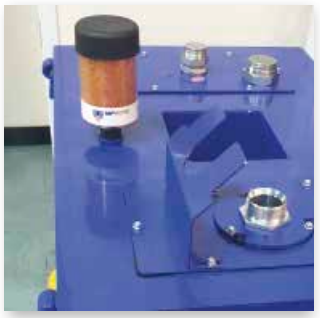
Silica gel is the most efficient and economic moisture adsorbent for general applications.

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

Whenever the colour changes from orange to white 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.



Air vent holes

Max hydraulic flow rate [l/min (cfm)]	Holes to open
up to 110 (4)	2
from 111 to 220 (4-8)	4
from 221 to 330 (8-12)	6
from 331 to 452 (12-16)	8

IMPORTANT INSTALLATION INFORMATION

- The air vent holes are plugged for any new breather
- The plugs protect the dryer agent during storage and shipment
- The plugs must be taken out during the installation, according to the max hydraulic flow rate

