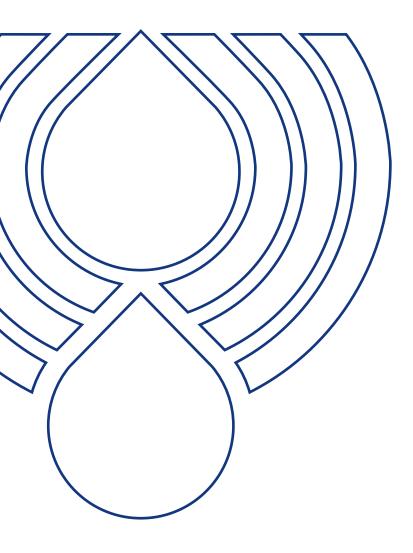
## **TANK ACCESSORIES**

AIR BREATHERS AND FILLER PLUGS



PASSION TO PERFORM





## A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

Our company started life in 1964, when Bruno Pasotto decided to attempt to cater for the requests of a market still to be fully explored, with the study, design, development, production and marketing of a vast range of filters for hydraulic equipment, capable of satisfying the needs of manufacturers in all sectors. The quality of our products, our extreme competitiveness compared with major international producers and our constant activities of research, design and development has made us a worldwide leader in the field of hydraulic circuit filtering. Present for over 50 years in the market, we have played a truly decisive role in defining our sector, and by now we are a group capable of controlling our entire chain of production, monitoring all manufacturing processes to guarantee superior quality standards and to provide concrete solutions for the rapidly evolving needs of customers and the market.





### **WORLDWIDE PRESENCE**

Our foreign Branches enable us to offer a diversified range of products that allow us to successfully face the aggressive challenge of international competition, and also to maintain a stable presence at a local level.

The Group boasts **9 business branches** 



### **TECHNOLOGY**

Our constant quest for excellence in quality and technological innovation allows us to offer only the best solutions and services for applications in many fields, including general industry, test rigs, lubrication, heavy engineering, renewable energies, naval engineering, offshore engineering, aviation systems, emerging technologies and mobile plant (i.e. tractors, excavators, concrete pumps, platforms).





### AND PRODUCTION

Our high level of technological expertise means we can rely entirely on our own resources, without resorting to external providers. This in turn enables us to satisfy a growing number of customer requests, also exploiting our constantly updated range of machines and equipment, featuring fully-automated workstations capable of 24-hour production.

















### SUCTION **FILTERS**

Flow rates up to 875 l/min

### Mounting:

- Tank immersed
- In-Line
- In tank with shut off valve
- In tank with flooded suction

### **RETURN FILTERS**

Flow rates up to 3000 l/min

Pressure

up to 20 bar

Mounting:

- In-Line - Tank top
- In single and duplex designs

# RETURN / SUCTION

up to 300 l/min

Pressure

Mounting:

- In-Line

### **FILTERS**

Flow rates

up to 80 bar

- Tank top

### SPIN-ON **FILTERS**

Flow rates up to 365 l/min

Pressure up to 35 bar

Mounting:

- In-Line
- Tank top

### **LOW & MEDIUM** PRESSURE **FILTERS**

Flow rates up to 3000 I/min

Pressure up to 80 bar

Mounting:

- In-Line
- Parallel manifold version
- In single and duplex designs

### HIGH **PRESSURE FILTERS**

Flow rates up to 750 l/min

Pressure from 110 bar up to 560 bar

Mounting:

- In-Line
- Manifold
- In single
- and duplex designs



### **PRODUCT RANGE**

MP Filtri can offer a vast and articulated range of products for the global market, suitable for all industrial sectors using hydraulic equipment.

This includes filters (suction, return, return/suction, spin-on, pressure, stainless steel pressure) and structural components (motor/pump bell-housings, transmission couplings, damping rings, foot brackets, aluminium tanks, cleaning covers).

We can provide all the skills and solutions required by the modern hydraulics industry to monitor contamination levels and other fluid conditions.

Mobile filtration units and a full range of accessories allow us to supply everything necessary for a complete service in the hydraulic circuits.











### STAINLESS STEEL HIGH PRESSURE FILTERS

Flow rates up to 125 I/min Pressure from 320 bar up to 1000 bar

### Mounting:

- In-Line
- Manifold
- In single and duplex designs

# CONTAMINATION MONITORING PRODUCTS

- Off-line, in-line particle counters
- Off-line bottle sampling products
- Fully calibrated using relevant ISO standards
- A wide range of variants to support fluid types and communication protocols

### MOBILE FILTRATION UNITS

Flow rates from 15 l/min up to 200 l/min

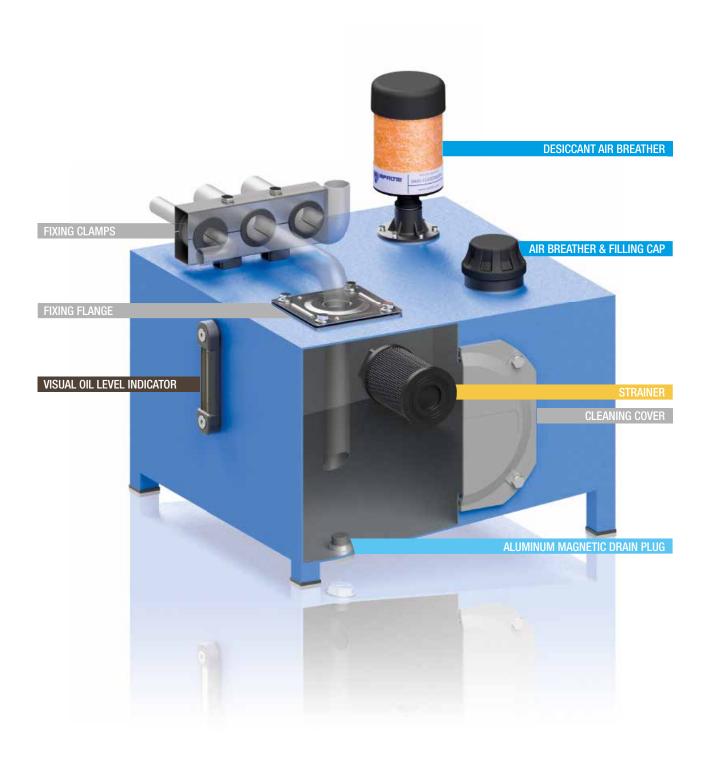
# POWER TRANSMISSION PRODUCTS

- Aluminium bell-housings for motors
   from 0.12 kW to 400 kW
- Couplings in Aluminium Cast Iron - Steel
- Damping rings
- Foot bracket
- Aluminium tanks
- Cleaning covers

### TANK ACCESSORIES

- Oil filler and air breather plugs
- Optical and electrical level gauges
- Pressure gauge valve selectors
- Pipe fixing brackets
- Pressure gauges

### **TANK ACCESSORIES**







1 page	•	INTRODUCTION
1	COMPANY	
6	PRODUCT RANGE	

10 pag	ge	STRAINERS
13	STR & MPA - MPM	Submerged suction filter, with bypass or magnetic column

20 pag	е	AIR BREATHERS AND FILLER PLUGS
23	SAP 054-075 - SA	Air breathers
29	SAW 115	Moisture control desiccant air breathers
33	SCS	Metal air breathers with interchangeable filter element
39	SME 1 - SMF 1 - SML 1	Risers for breathers and filler caps installation
45	TA 46 - TAP 50 - SAP 50	Filler plug and air filter up to 200 I/min
53	TA 80	Steel filler plug and air filter up to 500 l/min
57	TAP 90	Filler plug and polyamide air filter up to 550 I/min
63	TAP 114	Filler plug and polyamide air filter up to 1600 l/min
67	TAP 115 & SAP 115	Filler plug and polyamide air filter up to 3000 l/min

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75	TC 50	Polyamide filler plug
79	TKT - TSD - TKM	Filler and draining plugs

86 pag	е	VISUAL OIL LEVEL INDICATORS
89	LCP - LCC	Visual oil level indicator - round shape
95	LVA - LVU	Visual oil level indicator - vertical shape

100 page		ELECTRICAL OIL LEVEL INDICATORS
103	LEN - LEG - LET - LEM - LEU	Electric oil level indicator
115	LVK	Visual and Electric oil level indicator

120 page		ACCESSORIES
123	EM1	Pressure gauge isolator
129	SVM	Gauge selector valve
133	FTA - FTR	Oil tank fixing flange
137	MULTIFIT SFT	Fixing clamps
143	OB	Cleaning covers
149	SE10LT	Aluminium tanks



The complete series of air breathers and filler plugs makes it possible to meet all market demands.

Metal and plastic versions suitable for use on mobile and industrial equipment are available.

Filler plugs perform a dual function, air filtration at the tank inlet and prefiltration of the fluid by means of the basket, in order to prevent the ingress of foreign material into the tank during filling and top-up operations.

Correct operation of breather filters makes for longer life of the filter cartridges installed in the hydraulic circuit, and in applications where high level of contamination are present.

Desiccant breathers are also available to absorb free water and moisture contained in the air entering into the tank.



# Air Breathers & Filler Plugs



SAP 054-075 - SA	page 23
SAW 115	29
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# SAP 054-075 series

Polyamide air breather filter

SA SETIES

Metal air breather filter



### SAP 054-075 GENERAL INFORMATION

### Technical data

### Air breathers & Filler plugs

### Polyamide air breather filter Flow rate up to 400 l/min

SAP is a range of plastic air breathers for protection of the tank against the solid contamination contained into the air.

They are directly fitted on the tank.

### **Available features:**

- Male threaded connections up to 3/4 ", for a maximum flow rate of 400 l/min
- Replaceable filter element
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Polyester media is an option for heavy environmental conditions (high humidity, sand  $\ldots)$

### **Common applications:**

- Mobile machines (construction and agriculture machines)
- Industrial equipment

### Flow rate Δp 0.02 bar

Flow rate [l/min]					
Filtration rating L03 L10					
SAP054		200	250		
SAP075		350	400		

### **Materials**

- Cover: Polyamide
- Connection: Polyamide
- Filter element: Resin impregnated paper

### **Temperature**

From -25 °C to +100 °C

### Weight

SAP 054 - 0.06 kg SAP 075 - 0.15 kg

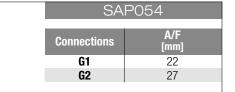


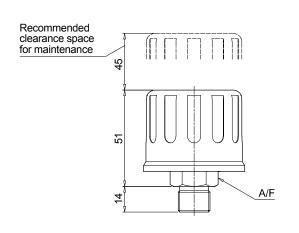
### Designation & Ordering code

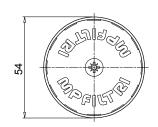
		C	OMPLETE AIR FILTER
Series and size			Configuration example : SAP054 G2 L10 A P01
SAP054 SAP075			
Connections	SAP054	SAP075	
G1	G 3/8"	G 1/2"	
G2	G 1/2"	G 3/4"	
Filtration rating			
<b>L03</b> Resin impregnated paper	3 µm		
L10 Resin impregnated paper	10 µm		_
Seals			
A NBR			Execution
			P01 MP Filtri standard
			Pxx Customized

			FILTER ELEMENT	
Filter	element series and size		Configuration example : A4	L10 P01
<b>A4</b>	SAP054			
<b>A7</b>	SAP075			
	tion rating			
L03	Resin impregnated paper	3 μm	Function	
L10	Resin impregnated paper	10 μm	Execution P01 MP Filtri sta	andard
			Pxx Customized	

### **Dimensions**

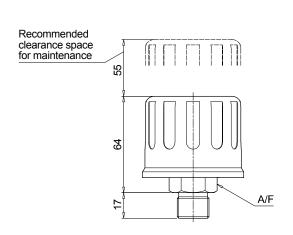


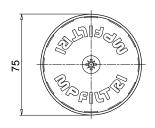




### <u>S</u>AP075

Connections	A/F [mm]
G1	27
G2	32
G2	32





#### Technical data

### Air breathers & Filler plugs

### Metal air breather filter Flow rate up to 2500 l/min

SA is a range of metal air breathers for protection of the tank against the solid contamination contained into the air.

They are directly fitted on the tank. The robust design allows the use of these filters in any heavy-duty application.

#### **Available features:**

- Male threaded connections up to 2 1/2", for a maximum flow rate of 2500 l/min
- Replaceable filter element
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Polyester media is an option for heavy environmental conditions (high humidity, sand ...)

### **Common applications:**

- Mobile machines (construction and agriculture machines)
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

Flow rate [l/min]						
	Filtration rating	L03	L10			
SA036		140	140			
SA053		250	250			
SA075		350	400			
SA115		800	850			
SA145		1800	1850			
SA185		2300	2500			

### **Materials**

- Cover: Steel
- Connection: Anodized steel, Galvanized steel
- Filter element: Resin impregnated paper
- Screws: Galvanized steel
- Washer: Teflon
- Ring: Galvanized steel
- Seals: NBR

### **Temperature**

From -25 °C to +100 °C

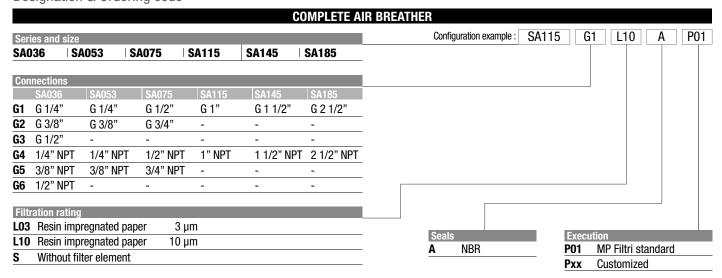
### Weight



Customized

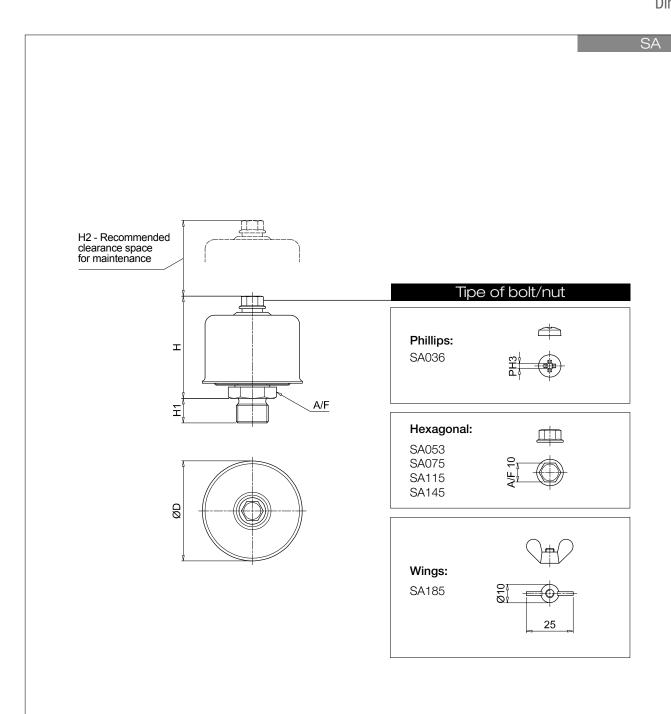
Pxx

### Designation & Ordering code



	FILTER ELEMENT								
Filter	element series and size					Configuration examp	le: A8	L10	P01
A05	A5 A7	A8	A10	A11					
	tion rating								
L03	Resin impregnated paper	3 µm							
L10	Resin impregnated paper	10 µm			<u>—</u>	E	ecution		
						PC	1 MP Filt	ri standard	





IVne I Connections		ØD [mm]	H [mm]	H1 [mm]	H2 [mm]	A/F [mm]							
036	G1 ÷ G6	36	37	13	30	22							
053	G1-G2-G4-G5	53	53	13	50	22							
	G1	75		13		27							
075	G2		75	75	69	17	60	32					
	G4					, ,	, 0	, ,		00	15	00	27
	G5					20		32					
115	G1 - G4	115	80	17	70	38							
145	G1 - G4	145	115	25	100	55							
185	G1 - G4	185	164	25	150	90							
	036 053 075 115 145	036 G1 ÷ G6 053 G1-G2-G4-G5 G1 075 G2 G4 G5 115 G1 - G4 145 G1 - G4	O36         G1 ÷ G6         36           O53         G1-G2-G4-G5         53           G1         G2         75           G4         G5           115         G1 - G4         115           145         G1 - G4         145	O36         G1 ÷ G6         36         37           O53         G1-G2-G4-G5         53         53           G1         G2         75         69           G4         G5         69         69           115         G1 - G4         115         80           145         G1 - G4         145         115	Oybe         Connections         [mm]         [mm]         [mm]           036         G1 ÷ G6         36         37         13           053         G1-G2-G4-G5         53         53         13           075         G2         75         69         17           G4         65         20           115         G1 - G4         115         80         17           145         G1 - G4         145         115         25	O36         G1 ÷ G6         36         37         13         30           O53         G1-G2-G4-G5         53         53         13         50           G75         G2         75         69         17         60           G4         15         20           115         G1 - G4         115         80         17         70           145         G1 - G4         145         115         25         100							

28



# SAW 115 series

Moisture control desiccant air breathers



## 115 GENERAL INFORMATI

### Technical data

### Air breathers & Filler plugs

### Moisture control desiccant air breathers Max air flow up to 453 I/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

### **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 $\Delta p$ 0.02 bar

Flow rate [I/min]

**SAW115** 453

#### **Materials**

Connection: Polyamide

Internal Support Pipe: Polyamide

Screen: Polycarbonate Cover: Polvamide Dryer Agent: Silica Gel

Filter Efficiency 3 μm absolute (B<sub>3</sub> ≥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**

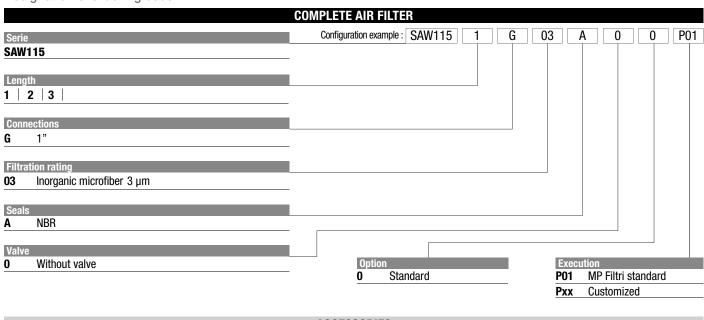
Length 1 0.60 kg

Length 2 0.90 kg

Length 3 1.20 kg



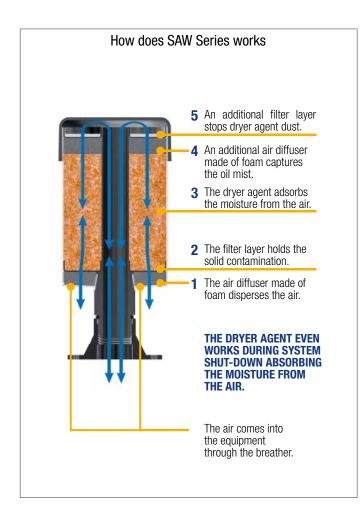
### Designation & Ordering code

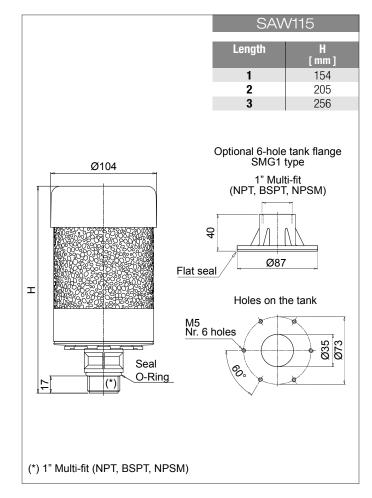


		AC	CCESSORIES					
Serie				Configuration example :	SMG	1 S A	P0	2
SMG	Adapter Flange							
Conn	ections							1
S	Without screws		Seals		Execu	ution		
			<b>A</b> NBR		P02	MP Filtri standa	ard	

30

### **Dimensions**





### Silica gel



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	Holes to open
[ l/min (cfm) ]	
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





# SCS series

Metal air breathers with interchangeable filter element



### Technical data

### Air breathers & Filler plugs

Metal air breathers with interchangeable filter element Flow rate up to 1330 l/min

SCS is a range of air breathers for protection of the tank against the solid contamination contained into the air.

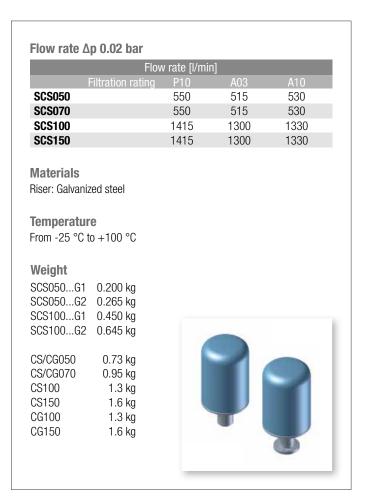
They are composed of a spin-on filter can screwed on a connection tube, directly fitted on the tank. They are directly fitted on the tank.

#### **Available features:**

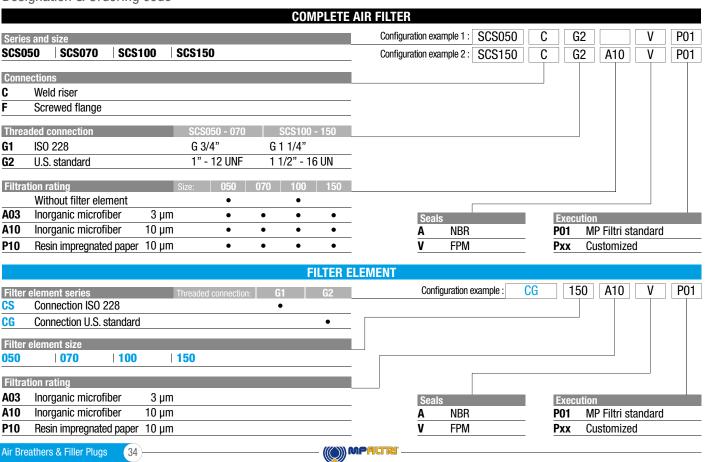
- Weld or flanged connection, for a maximum flow rate of 1415 I/min
- Fine cellulose and microfibre filtration, to get a good cleanliness level into the reservoir

### **Common applications:**

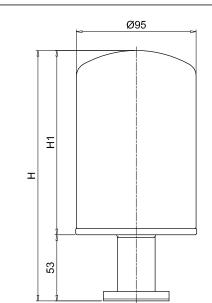
- Mobile machines (construction and agriculture machines)
- Industrial equipment



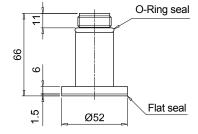
### Designation & Ordering code



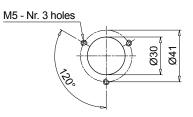
**Dimensions** 



SCS050-070							
Screwed flange							
Size	H [mm]	H1 [mm]					
050	199	146					
070	263	210					

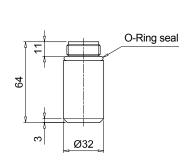


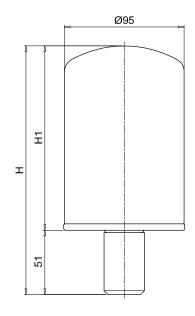
Holes on the tank



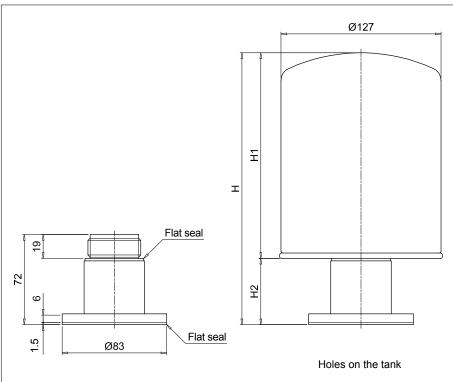
### SCS050-070

Weld riser						
Size	H1 [mm]					
050	197	146				
070	261	210				

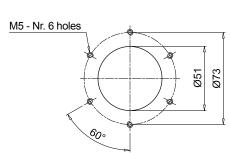


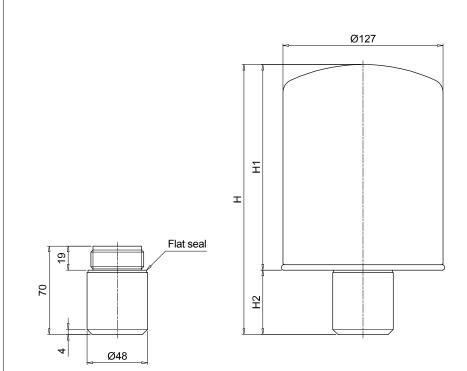


### **Dimensions**



SCS100-150								
Screwed flange								
Size Connections H H1 H2 [mm] [mm]								
G1	231	178	53					
G2	215	184	31					
G1	280	227	53					
G2	301	270	31					
	Screwe Connections G1 G2 G1	Screwed flan           Connections         H [mm]           G1         231           G2         215           G1         280	Connections         H [mm]         H1 [mm]           G1         231         178           G2         215         184           G1         280         227					





#### SCS100-150 Weld riser Connections [mm] 229 [mm] 51 [mm] G1 178 100 213 184 29 G2 278 227 51 G1 150 G2 299 270 29

(36)





# SME1-SMF1-SML1 series

Risers for breathers and filler caps installation



### Technical data

### Air breathers & Filler plugs

Risers for breathers and filler caps installation

SME/SMF/SML are ranges of risers for installation of the breathers and filler caps in any place on the tank.

They make the maintenance operation easy and fast.

### **Available features:**

- SME: vertical riser made of polyamide for polyamide tanks, mainly used in the mobile machines
- SMF: sloping riser made of polyamide for polyamide tanks, mainly used in the mobile machines
- SML: sloping riser made of aluminum for metal tanks, mainly used in the industrial equipment and heavy-duty applications

### **Materials SME**

- Body: Polyamide - Seals: NBR

- Screws: Galvanized steel

### **Materials SMF**

- Body: Polyamide - Seals: NBR

- Screws: Galvanized steel

### **Materials SML**

- Body: Aluminium

- Seals: NBR

- Screws: Galvanized steel

### **Temperature**

From -25 °C to +100 °C

### Weight

SME 0.250 kg SMF 0.325 kg SML 0.380 kg



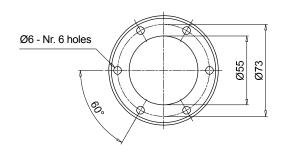
### Designation & Ordering code

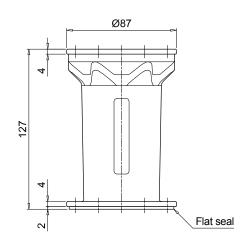
			C	OMPLETE ADAPTER				
Series	_	_	_		Configuration example :	SMF1	M	A P01
SME1	Polyamide vertical riser							
SMF1	Polyamide sloping riser			_				
SML1	Aluminium sloping riser			_				
Connec	ctions			1				
М	Metric screws			_				
U	UNC screws			=				
				_				
Seals				ı				
Α	NBR							
			Series					
Execut	ion	SME1	SMF1 SML1					
P01	MP Filtri standard		• •	_				
P02	Standard without logo	•		_				

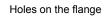
40)-

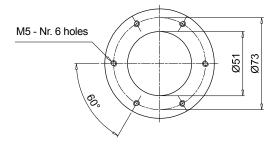
Dimensions

SME1



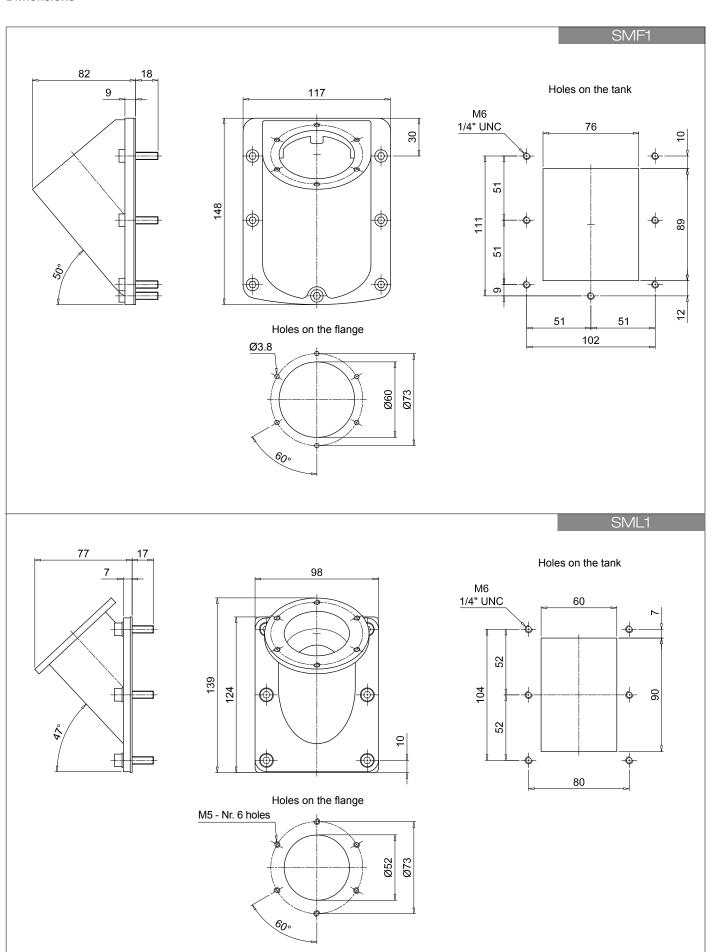






## SME1-SMF1-SML1

### **Dimensions**





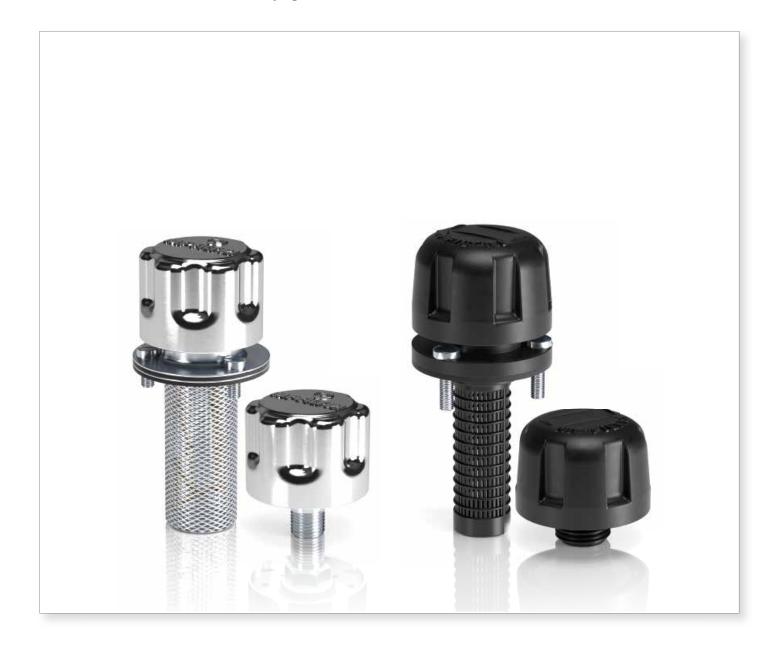


# TA 46 TAP 50 SAP 50 series

Steel filler plug and air filter

Polyamide filler plug

Polyammide air filter



### Technical data

### Air breathers & Filler plugs

### Steel filler plug and air filter Flow rates up to 200 I/min

TA46 is a range of compact metal air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures. They are directly fitted on the tank. The robust design allows the use of these filters in any heavy-duty application.

#### **Available features:**

- Male threaded connections up to 1/4" and flanged connection with bayonet, for a maximum flow rate of 200 I/min
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Compact hydraulic systems
- Compact mobile machines
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

	Flow	rate [l/min		
	Filtration rating	03	10	
TA46		150	200	

### Materials (version G/N)

- Cover: Chrome plated steel
- Filter element: Resin impregnated paper, Polyurethane
- Flange: Galvanized steel
- Connection: Phosphatized steel

### **Materials (version B)**

- Cover: Chrome plated steel
- Filter element: Resin impregnated paper, Polyurethane
- Flange: Galvanized steel
- Connection: Galvanized steel
- Seals: NBR
- Chain: Brass
- Screws: Galvanized steel
- Basket: Galvanized steel

### **Temperature**

From -25 °C to +100 °C

### Weight

TA 46 B  $0.10 \, \text{kg}$ TA 46 G/N 0.11 kg

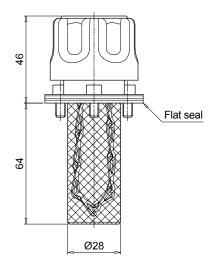


### Designation & Ordering code

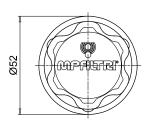
### **COMPLETE FILLER PLUG** Configuration example 1: **TA46** В 03 P01 Serie **TA46** Configuration example 2: **TA46** P01 G 10 Screwed flange with bayonet mount В G G 1/4" 1/4" NPT Resin impregnated paper 3 µm 10 Polyurethane 10 µm Seals NBR Without valve Standard With basket

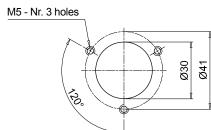
### TA46

### Screwed flange



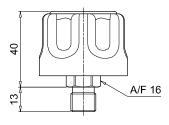
Holes on the tank

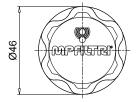




### TA46

## Threaded connection





## TAP 50 general information

### Technical data

### Air breathers & Filler plugs

## Filler plug and polyamide air filters Flow rates up to 200 l/min

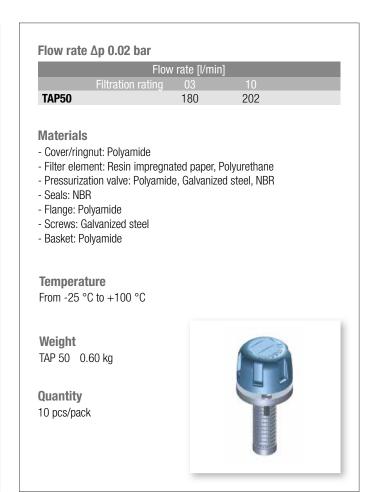
TAP50 is a range of compact plastic air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

### **Available features:**

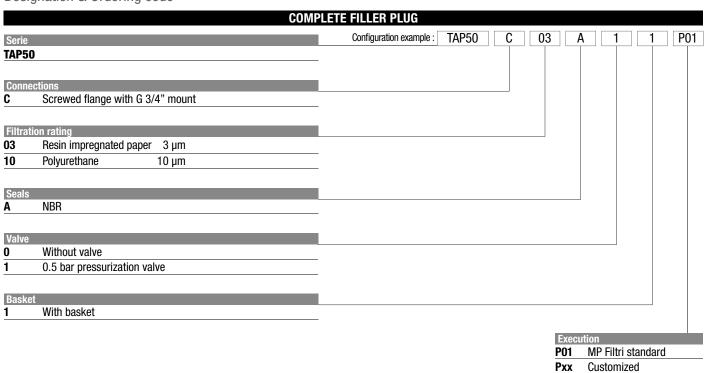
- Flanged connection with bayonet, for a maximum flow rate of 200 l/min
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Compact hydraulic systems
- Compact mobile machines
- Industrial equipment

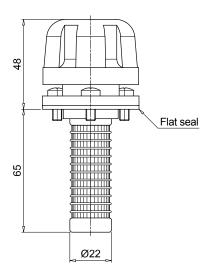


### Designation & Ordering code

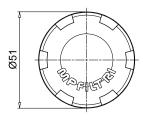


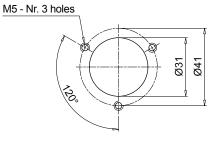
### TAP50

### Screwed flange



Holes on the tank





## SAP 50 GENERAL INFORMATION

### Technical data

### Air breathers & Filler plugs

#### Air breathers

### Flow rates up to 200 I/min

SAP50 is a range of compact plastic air breathers for protection of the tank against the solid contamination contained into the air.

They are directly fitted on the tank.

### **Available features:**

- Male threaded connections up to 3/4", for a maximum flow rate of  $200 \, l/min$
- Fine cellulose filtration, to get a good cleanliness level into the reservoir

### **Common applications:**

- Compact hydraulic systems
- Compact mobile machines
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

Flov	w rate [l/m	in]	
Filtration rating	03	10	
SAP50	180	204	

#### **Materials**

- Cover/Connection: Polyamide
- Filter element: Resin impregnated paper, Polyurethane
- Pressurization valve: Polyamide, Galvanized steel, NBR
- Seals: NBR

### **Temperature**

From -25 °C to +100 °C

### Weight

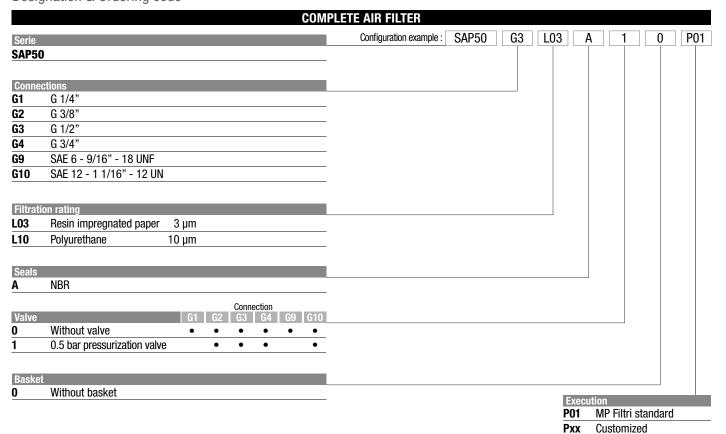
SAP 50 0.40 kg

### Quantity

10 pcs/pack

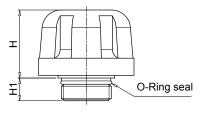


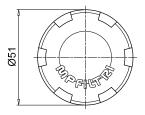
### Designation & Ordering code



### SAP50

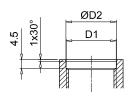
## Threaded connection

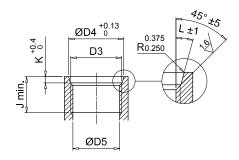




## Housing on the tank for connections BPS

Housing on the tank for connections SAE





Connections	H [mm]	H1 [mm]	D1 [mm]	ØD2 [mm]	D3 [mm]	ØD4 [mm]	ØD5 [mm]	J min. [mm]	K [mm]	L
G1	36	12	G 1/4"	13.5	-	-	-	-	-	-
G2	36	12	G 3/8"	17	-	-	-	-	-	-
G3	36	12	G 1/2"	21.5	-	-	-	-	-	-
G4	36	12	G 3/4"	26.7	-	-	-	-	-	-
G9	36	12	-	-	SAE 6 - 9/16" - 18 UNF	15.6	13.081 12.751	12.7	2.5	12°
G10	35	14.5	-	-	SAE 12 - 1 1/16" - 12 UN	29.2	24.978 24.696	19	3.3	15°



# TA 80 series

Steel filler plug and air filter up to 550 l/min



### Technical data

### Air breathers & Filler plugs

## Steel filler plug and air filter Flow rates up to 550 l/min

TA80 is a range of metal air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

They are directly fitted on the tank. The robust design allows the use of these filters in any heavy-duty application.

#### **Available features:**

- Male threaded connections up to 3/4" and flanged connection with bayonet, for a maximum flow rate of 550 l/min
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Pressurization valve with different setting, to guarantee a positive pressure into the tank in any application with metal or plastic tanks
- Padlock tab, to secure the air breather to the tank
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

	Flow rate [l/mir	1]	
Filtration ra	ating 03	10	
TA80	450	550	

#### **Materials**

- Cover: Chrome Plated steel
- Filter element: Resin impregnated paper, Polyurethane
- Pressurization valve: Polyamide (bodies), Galvanized steel (end cap disk), Steel (spring), NBR (seals)
- Flange and anti-splash feature: Galvanized steel
- Seals: NBR
- Screws, Flange: Galvanized steel
- Chain, Ring: Brass
- Basket (only TA80B): Galvanized steel

### **Temperature**

From -25 °C to +100 °C

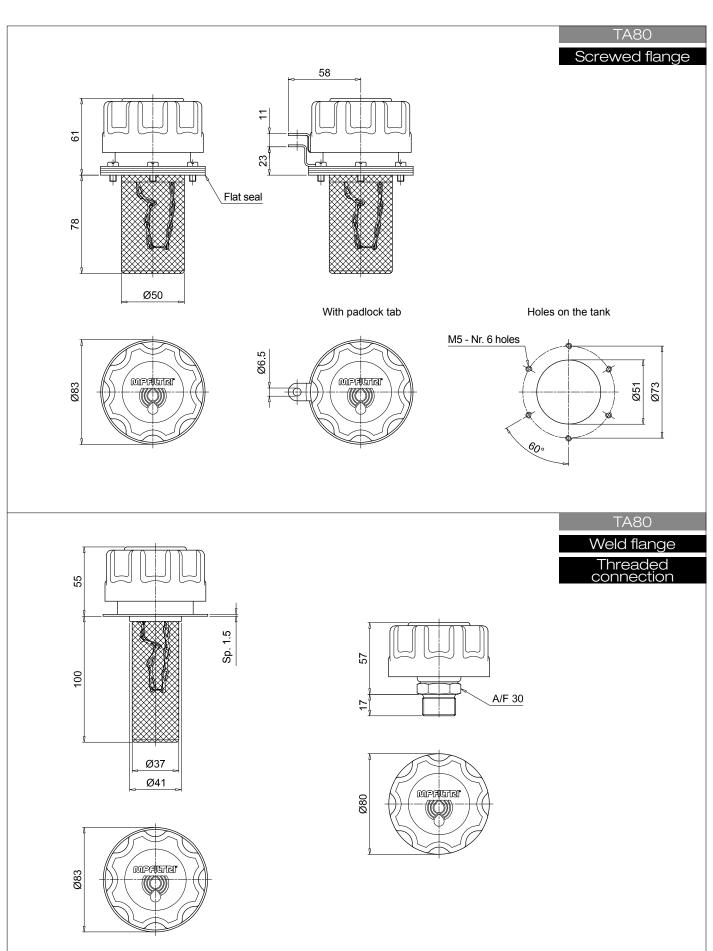
### Weight

L 80 mm 0.33 kg L 100 mm 0.35 kg



### Designation & Ordering code

	COMPLETE FILL	ER PLUG / COMPL	ETE AIR	FILTER	}				
Seri	e	Configuration example 1 :	TA80	В	03	Α	0	L	1 P01
TA8		Configuration example 2 :	TA80	G	10	Α	2		P01
0						' T			
B	nections Screwed flange with bayonet mount G G 3/4"								
D	Weld flange with bayonet mount  N 3/4" NPT	=							
		-							
	ration rating Connection: B D G N								
00	Without filter (blind filler plug) • •	=							
03	Resin impregnated paper 3 µm • • •	=							
10	Polyurethane 10 μm • • • •	-							
Sea	ls	I							
A	NBR								
1/ /	5111 11 11 00 00 10								
Valv	ve Filtration rating: 00 03 10 Without valve • • •								
1	0.3 bar pressurization valve	=							
2	0.7 bar pressurization valve	=							
9	With anti-splash feature • •	-							
<u> </u>	The and option routing	=							
Vers									
0	Standard • •	=							
L	With padlock tab •	_							
Bas 0	ket Connection: B D G N Without basket • •								
1	With basket 80 mm	-				-			
3	With basket 100 mm	-				PO	ecution 1 MP	Filtri stand	lard
3	WILLI DASKET TOO IIIIII	-				Px		tomized	iai u
						FX	A Gus	LUTTILEU	





# TAP 90 series

Filler plug and polyamide air filter up to 550 l/min



## TAP 90 general information

### Technical data

### Air breathers & Filler plugs

### Filler plug and polyamide air filters Flow rates up to 550 l/min

TAP90 is a range of plastic air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

They are directly fitted on the tank.

#### **Available features:**

- Male threaded connections up to 1 1/2" and flanged connection with bayonet, for a maximum flow rate of 550 l/min
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Pressurization valve with different setting, to guarantee a positive pressure into the tank in any application with metal or plastic tanks
- Padlock tab, to secure the air breather to the tank
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank
- Dipstick, to monitor the fluid level into the tank even in complicated positions

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

#### Flow rate $\Delta p$ 0.02 bar

	Flow	ı rate [l/mi	in]	
	Filtration rating	03	10	
TAP90		450	550	

#### **Materials**

- Cover/Ringnut: Polyamide
- Filter element: Resin impregnated paper, Polyurethane
- Pressurization valve:

Polyamide (bodies), Galvanized steel (end cap - disk), NBR (seals)

- Flange B: Polyamide
- Seals: NBR
- Screws: Galvanized steel
- Padlock tab: Galvanized steel
- Chain, Ring: Brass
- Dipstick: Phosphatized steel
- Basket: Galvanized steel, Polyamide

### **Temperature**

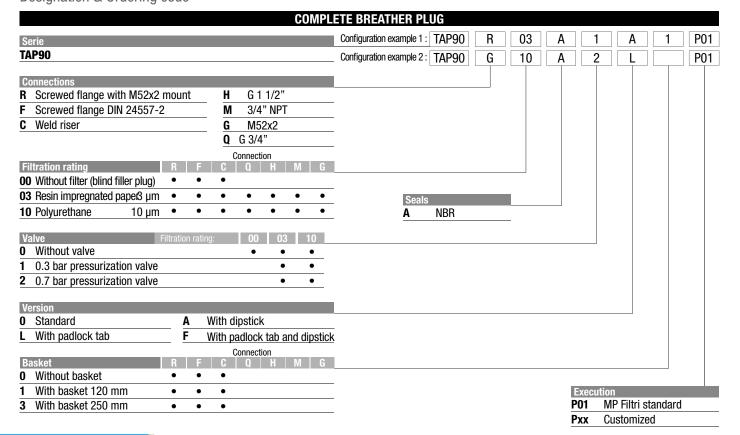
From -25 °C to +100 °C

### Weight

L 120 mm 0.25 kg L 250 mm 0.31 kg



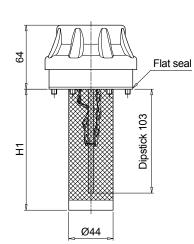
### Designation & Ordering code





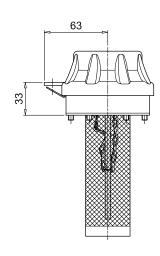
### Screwed flange

Basket	H1 [mm]
1	120
3	250



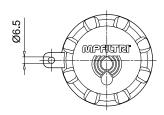
mpaurar

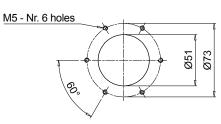
**Ø** 



With padlock tab

Holes on the tank



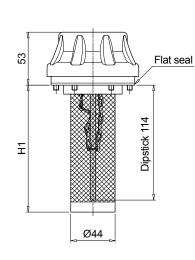


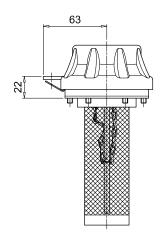
### TAP90

### Screwed flange

DIN 24557-2

Basket	H1 [mm]
1	120
3	250

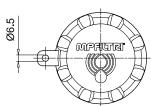


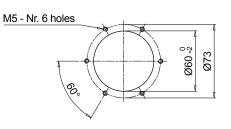


With padlock tab

Holes on the tank

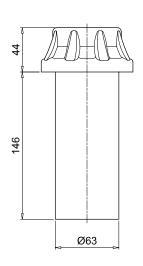


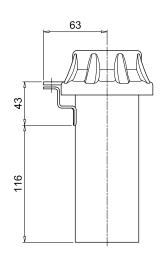




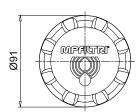
### TAP90

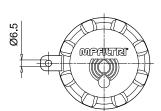
### Weld riser





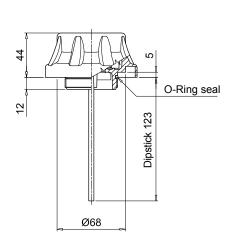
With padlock tab

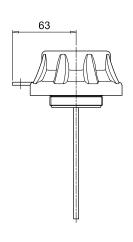




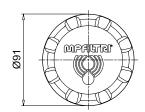
### TAP90

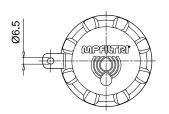
#### Threaded connection Connections [mm] [mm] [mm] Q G 3/4" G 1 1/2" Н 48.5 8.5 2x15° Μ 3/4" NPT G M 52x2 52.5 2x15° 8.5



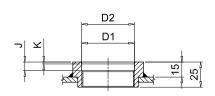


With padlock tab





Housing on the tank for connections G - H - M - Q







# TAP 114 series

Filler plug and polyamide air filter up to 1600 l/min



## TAP 114 GENERAL INFORMATION

### Technical data

### Air breathers & Filler plugs

### Filler plug and polyamide air filters Flow rates up to 1600 l/min

TAP114 is a range of plastic large air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

They are directly fitted on the tank.

### **Available features:**

- Flanged connection, for a maximum flow rate of 1600 I/min
- Replaceable filter element
- Fine cellulose filtration, to get a good cleanliness level into the reservoir
- Polyester media is an option for heavy environmental conditions (high humidity, sand ....)
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

### **Materials**

- Cover: Polyamide
- Filter element: Resin impregnated paper
- Flange: Polyamide
- Seals: NBR
- Screws: Galvanized steel
- Basket: Polyamide

### **Temperature**

From -25 °C to +100 °C

### Weight

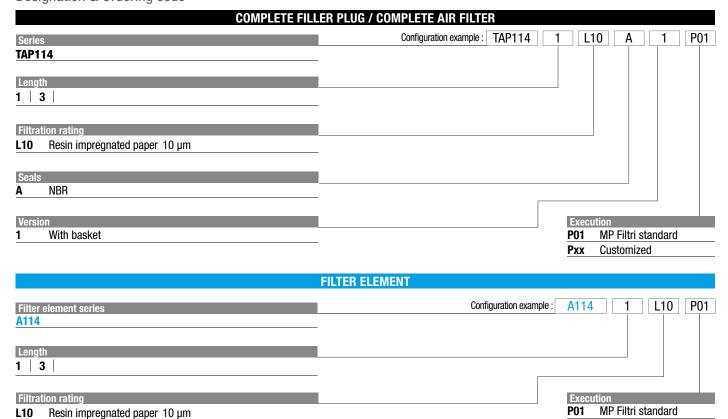
TAP 114 length 1 0.185 kg TAP 114 length 3 0.200 kg



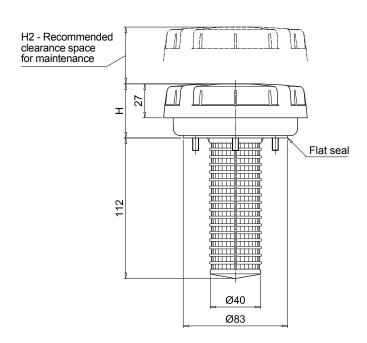
Pxx

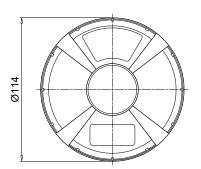
Customized

### Designation & Ordering code

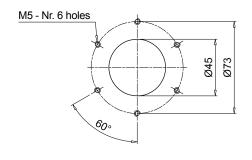


TA	P114	
Length	H [mm]	H2 [mm]
1	43	30
3	70	60





Holes on the tank





# TAP 115 - SAP 115

Filler plug and polyamide air filter up to 3000 l/min



## TAP 115 GENERAL INFORMATION

### Technical data

### Air breathers & Filler plugs

## Filler plug and polyamide air filters Flow rates up to 2150 l/min

TAP115 is a range of plastic large air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

They are directly fitted on the tank.

### **Available features:**

- Flanged connection, for a maximum flow rate of 2150 I/min
- Replaceable filter element.
- Fine cellulose and microfibre filtration, to get a good cleanliness level into the reservoir. Polyester media is an option for heavy environmental conditions (High humidity, sand ....)
- Visual clogging indicator
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

#### Flow rate $\Delta p$ 0.02 bar

Filtration rating A03 L10 <b>TAP115 length 1</b> 1600 200	Flow rate [l/min]				
<b>TAP115 length 1</b> 1600 200		Filtration rating A03			
	)	<b>length 1</b> 1600	TAP115 length 1		
<b>TAP115 length 2</b> 2150 215	)	length 2 2150	TAP115 length 2		

#### **Materials**

- Cover/flange: Polyamide
- Filter element: Microfibre, Resin impregnated paper
- Seals: NBR, FPM
- Basket/screws: Galvanized steel

### **Clogging indicators**

- Manual reset
- Set pressure 0.062 bar  $\pm 10\%$

#### **Temperature**

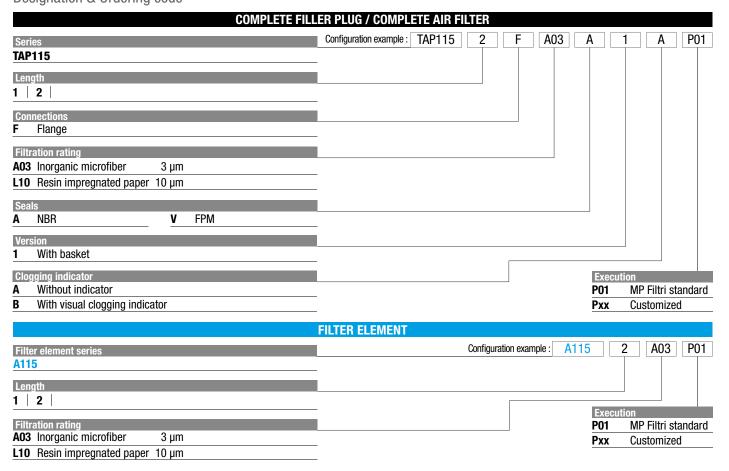
From -25 °C to +100 °C

#### Weight

TAP 115 length 1 0.460 kg TAP 115 length 2 0.585 kg



### Designation & Ordering code



	TAP115    Length   H   H2   [mm]   mm]   1   91   55   55   2   155   80     80
H2 - Recommended clearance space for maintenance  Visual clogging indicator  R  Flat seal  91  91  91  91  91  91  91  91  91  9	Holes on the tank  M5 - Nr. 6 holes

### Technical data

### Air breathers & Filler plugs

### Filler plug and polyamide air filters Flow rates up to 3000 l/min

SAP115 is a range of plastic large air breathers for protection of the tank against the solid contamination contained into the air.

They are directly fitted on the tank.

### **Available features:**

- Male threaded connections up to 1 1/2", for a maximum flow rate of 3000 l/min.
- Replaceable filter element.
- Fine cellulose and microfibre filtration, to get a good cleanliness level into the reservoir. Polyester media is an option for heavy environmental conditions (High humidity, sand ....)
- Visual clogging indicator
- Antisplash, to avoid fluid coming out through the air breather due to sloshing
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### Flow rate $\Delta p$ 0.02 bar

Flow rate	[l/min]		
Filtration rating	A03	L10	
SAP115 length 1 - G1"	1830	2170	
SAP115 length 2 - G1"	2800	2800	
SAP115 length 1 - G1 1/2"	1995	2330	
SAP115 length 2 - G1 1/2"	3000	3000	

#### **Materials**

- Cover/flange: Polyamide
- Filter element: Microfibre, Resin impregnated paper
- Connection: Polyamide
- Seals: NBR, FPM

### **Clogging indicators**

- Manual reset
- Set pressure 0.062 bar ±10%

#### **Temperature**

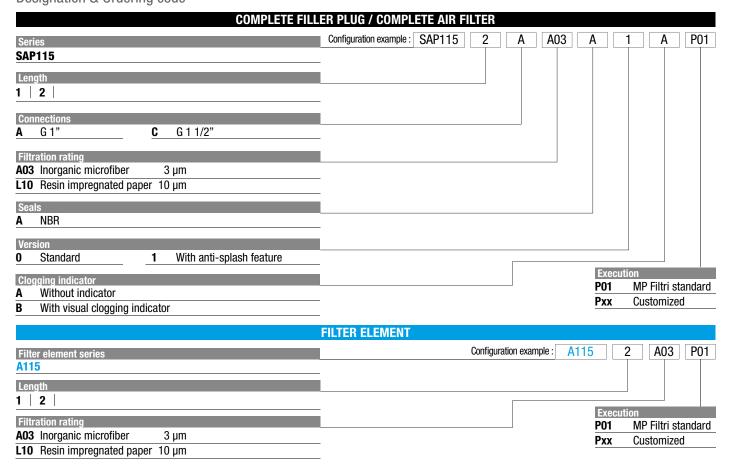
From -25 °C to +100 °C

### Weight

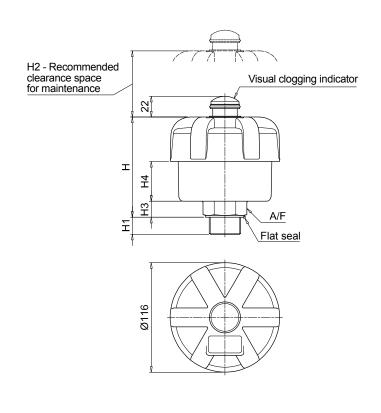
SAP 115 length 1 0.410 kg SAP 115 length 2 0.525 kg



### Designation & Ordering code



SAP115								
Length	Connections	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	A/F [mm]	
1	Α	106	18	55	17	42	41	
	С	111	23	55	22	42	55	
2	Α	170	18	80	17	106	41	
	С	175	23	80	22	106	55	



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## **PASSION TO PERFORM**



