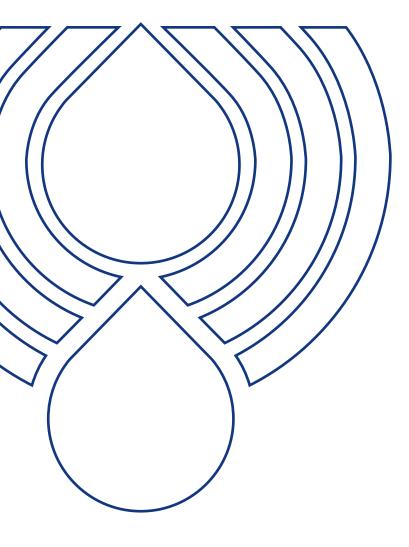
# **TANK ACCESSORIES**

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.



### MARKET **LEADER**



Our work is based on a skillful interaction between advanced technology and fine workmanship, **customizing products according to specific market requests**, focusing strongly on innovation and quality, and following every step in the manufacturing of both standard and special products, fully respecting customer expectations.

Our customer-oriented philosophy, which enables us to satisfy all customer requests **rapidly** and **with personalized products**, makes us a **dynamic and flexible enterprise**. The possibility of constantly controlling and monitoring the entire production process is essential to allow us to guarantee the quality of our products.

### **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 **8** 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**.











Flow rates up to 875 l/min

#### Mounting:

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

#### Pressure up to 20 bar

up to 3000 l/min

RETURN

**FILTERS** 

Flow rates

#### Mounting: - In-Line - Tank top - In single

and duplex designs



#### **RETURN /** SUCTION **FILTERS**

Flow rates up to 300 l/min

#### Pressure up to 80 bar

#### Mounting: - In-Line - Tank top

### SPIN-ON **FILTERS**

Flow rates up to 365 l/min

#### Pressure up to 35 bar

Mounting: - In-Line - Tank top

Flow rates

### Pressure

#### Mounting:

- In-Line
- Parallel manifold version
- In single

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

up to 3000 l/min

up to 80 bar

- 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 l/min Pressure from 320 bar up to 1000 bar

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



- 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

- from 0.12 kW to 400 kW - Couplings in Aluminium
  - Cast Iron Steel

for motors

- Aluminium tanks
- Cleaning covers

#### POWER TANK TRANSMISSION ACCESSORIES PRODUCTS

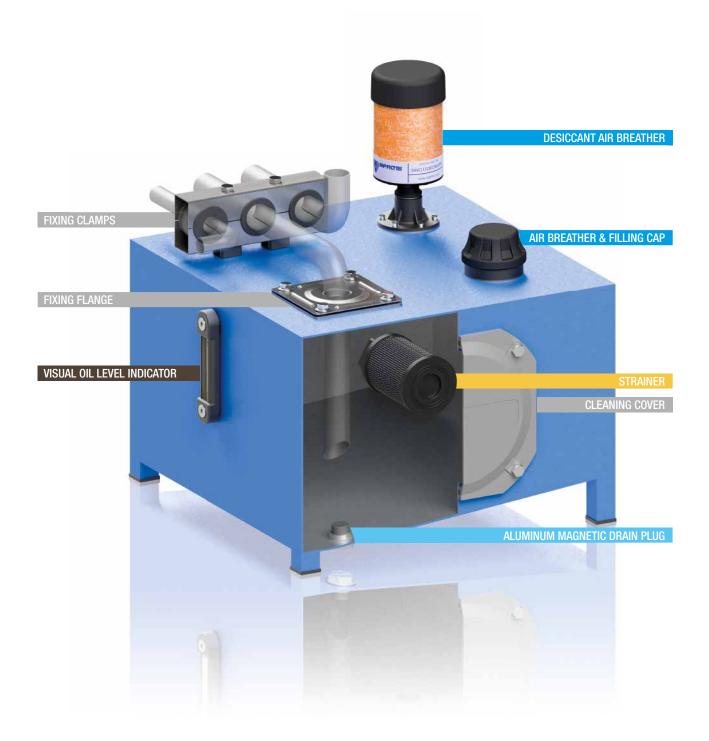
- Oil filler and

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

Aluminium bell-housings



### TANK ACCESSORIES





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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 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



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# SAP 054-075 series

Nylon air breather filter







## SAP 054-075 GENERAL INFORMATION

#### Technical data

Air breathers & Filler plugs	Flow rate Δp 0.02 bar
	Flow rate [l/min]
Nylon air breather filter	Filtration rating L03 L10
Flow rate up to 400 l/min	<b>SAP054</b> 200 250
SAP is a range of plastic air breathers for protection of the tank against the solid contamination contained into the air.	<b>SAP075</b> 350 400
They are usually directly fitted on the tank.	Materials
Available features: - Male threaded connections up to 3/4", for a maximum flow rate of 400 l/min	<ul> <li>Cover: Nylon</li> <li>Connection: Nylon</li> <li>Filter element: Resin impregnated paper</li> </ul>
<ul> <li>Replaceable filter element</li> <li>Fine cellulose filtration, to get a good cleanliness level into the reservoir</li> <li>Polyester media is an option for heavy environmental conditions (high humidity, sand)</li> </ul>	<b>Temperature</b> From -25 °C to +100 °C
<b>Common applications:</b> - Mobile machines (construction and agriculture machines) - Industrial equipment	Weight SAP 054 - 0.06 kg SAP 075 - 0.15 kg

#### Designation & Ordering code

			CO	MPLETE AIR BREATHER	
Serie SAPO	s and size 154			Configuration example : SAP054 G2 L10	D A P01
SAPO					
Conn	ections to the tank	SAP054	SAP075		
G1		G 3/8"	G 1/2"		
G2		G 1/2"	G 3/4"	_	
Filtra	tion rating				
L03	Resin impregnated paper	3 µm			
L10	Resin impregnated paper	10 µm		_	
Seals	3				
A	NBR			Execution P01 MP Filtr	i standard
				Pxx Custom	ized
				FILTER ELEMENT	
Filter	element series and size			Configuration example : A4	L10 P01
A4	SAP054				
<b>A7</b>	SAP075			_	

 Filtration rating

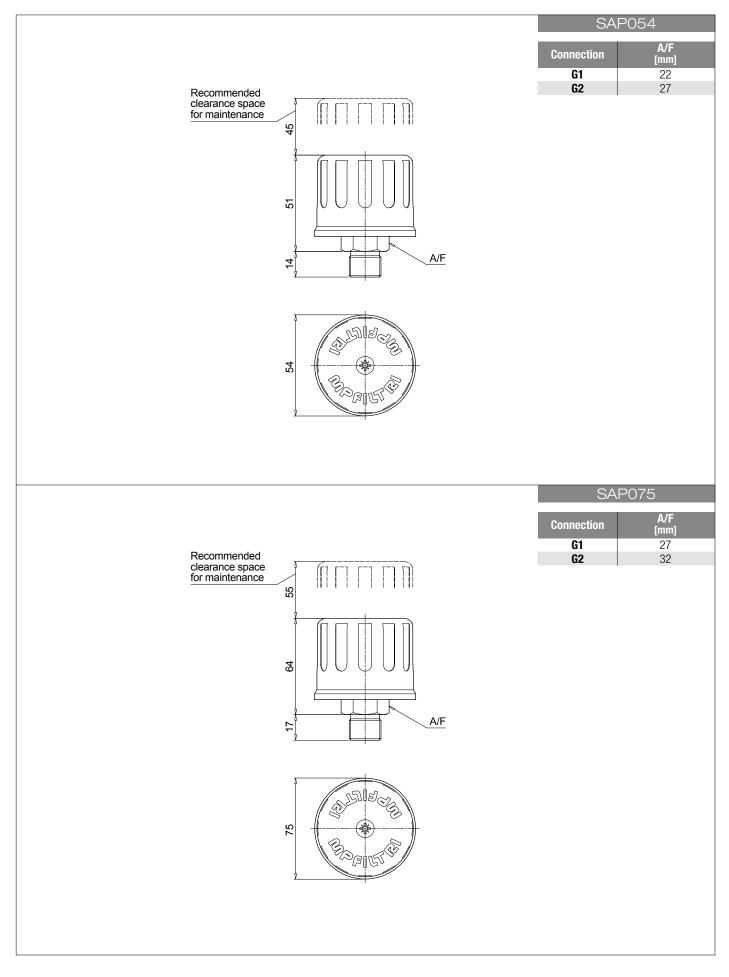
 L03
 Resin impregnated paper
 3 μm

 L10
 Resin impregnated paper
 10 μm



## SAP 054-075

Dimensions





## SA general information

#### Technical data

Air breathers & Filler plugs	Flow rate ∆p 0.0		
Metal air breather filter		Flow rate [l/min	
	Filtrati	on rating LO3	L10
Flow rate up to 2500 I/min	SA036	140	140
SA is a range of metal air breathers for protection of the tank against	SA053	250	250
he solid contamination contained into the air.	SA075	350	400
They are usually directly fitted on the tank. The robust design allows the	SA115	800	850
use of these filters in any heavy-duty application.	SA145	1800	1850
	SA185	2300	2500
Available features:			
- Male threaded connections up to 2 1/2", for a maximum flow rate	Materials		
of 2500 I/min	- Cover: Steel		
Replaceable filter element	- Connection: Anodiz	ed steel, Galvanized st	eel
Fine cellulose filtration, to get a good cleanliness level into the reservoir	- Filter element: Resin impregnated paper		
Polyester media is an option for heavy environmental conditions	- Screws: Galvanized	d steel	
(high humidity, sand)	- Washer: Teflon		
	- Ring: Galvanized st	eel	
Common applications:	- Seals: NBR		
- Mobile machines (construction and agriculture machines)			
- Industrial equipment	Temperature		
	From -25 °C to +10	0°C	
	Weight		
	SA 036 - 0.08 kg	6	
	SA 053 - 0.15 kg		
	0/ 000 0.70 kg		

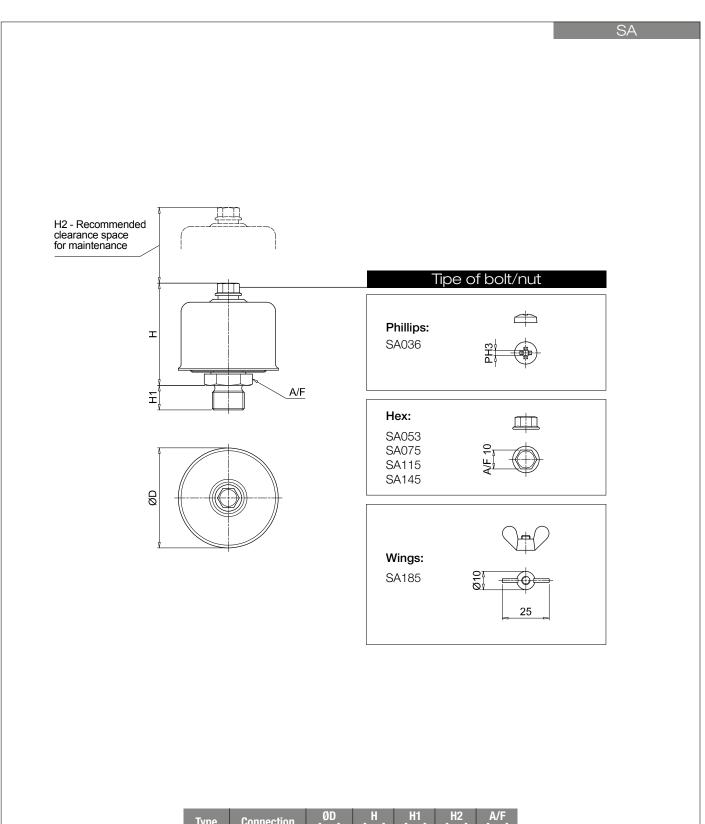
SA 075 - 0.26 kg SA 115 - 0.40 kg SA 145 - 0.59 kg SA 185 - 1.22 kg

#### Designation & Ordering code

						OMPLETE A	IR BREATHER
Seri	es and si	ze					Configuration example : SA115 G1 L10 A P01
SAC	36	SA053	SA075	SA115	SA145	SA185	
Con	nections	to the tank					
	SA036	SA053	SA075	SA115	SA145	SA185	
G1	G 1/4"	G 1/4"	G 1/2"	G 1"	G 1 1/2"	G 2 1/2"	
G2	G 3/8"	G 3/8"	G 3/4"	-	-	-	
G3	G 1/2"	-	-	-	-	-	
G4	1/4" NP	T 1/4" NP	t 1/2" NPT	T 1" NPT	1 1/2" NP	T 2 1/2" NPT	
G5	3/8" NP	T 3/8" NP	T 3/4" NPT	Γ -	-	-	
G6	1/2" NP	Т-	-	-	-	-	-
Filt	ation rati	ing					
L03	Resin ir	npregnated	paper 3	μm			
L10	Resin ir	npregnated	paper 10	μm			Seals Execution
S	Without	t filter elemei	nt				A NBR P01 MP Filtri standard
-							- Pxx Customized

					FILTE	ELEMENT	
Filter	element series	and size				Configuration example : A8 L10	P01
A05	A5	A7	<b>A8</b>	A10	A11		
Filtra	tion rating (filter	r media)					
L03	Resin impregr	nated paper	3 µm			_	
L10	Resin impregr	nated paper	10 µm			Execution	
						P01 MP Filtri standard	
						Pxx Customized	

SA Dimensions



Туре	Type Connection		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			13		27
075	G2	75	69	17	60	32
010	G4	10		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





SAW 115 series

Moisture control desiccant air breather







## SAW 115 GENERAL INFORMATION

Technical data

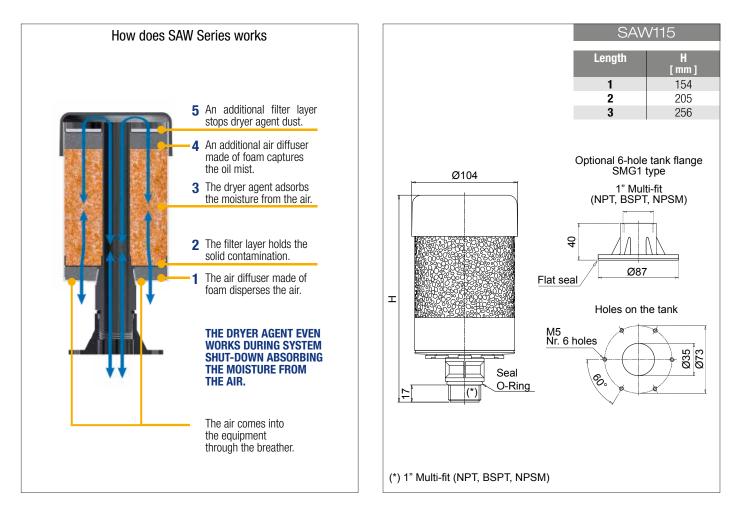
Air breathers & Filler plugs Moisture control desiccant air breather Max air flow up to 453 l/min	Flow rate Δp 0.02 bar         Flow rate [l/min]         Filtration rating       03         SAW115       453
SAW is a range of desiccant breathers; they are products that combine the filtration of the solid contamination and the absorption of the free water contained into the air. They are usually 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.	Materials Connection: Nylon Internal Support Pipe: Nylon Screen: Polycarbonate Cover: Nylon Dryer Agent: Silica Gel Filter Efficiency 3μm absolute (B <sub>3</sub> ≥200) Seals NBR
<ul> <li>Available features:</li> <li>Male threaded connections up to 1", for a maximum flow rate of 453 l/min</li> <li>Fine filtration rating, to get a good cleanliness level into the reservoir</li> <li>Common applications:</li> <li>Hydraulic systems, oil storage, tanks, transformers, renewable energy, Gearboxes.</li> </ul>	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         Lenght 1: 0.32 kg
Chemical CompatibilityRecommended:Not Recommended:- All Gear Oil- Phosphate Ester- Most Hydraulic Fluid- Hydrogen Sulphide- Mineral and Synthetic Oil- Sulphuric Acid- High Alkaline Cleaner	Lenght 1: 0.62 kg Lenght 2: 0.56 kg Lenght 3: 0.84 kg <b>Total Weight</b> Lenght 1: 0.60 kg Lenght 2: 0.90 kg Lenght 3: 1.20 kg

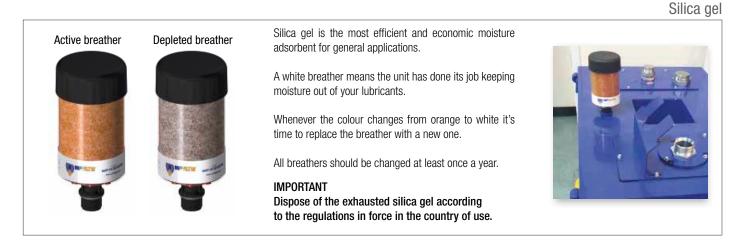
#### Designation & Ordering code

MOISTURE	CONTROL DESICCANT BREATHER
Series and size	Configuration example : SAW115 1 G 03 A 0 0 P01
SAW115	
Length 1   2   3	
Connections to the tank	
G Thread 1"	
Filtration rating O3 Orange Silica Gel	
Seals A NBR	
Valve O Without valve	Option Execution O Standard P01 MP Filtri standard
	Pxx Customized
	ACCESSORIES
Series and size	Configuration example : SMG1 S A PO2
SMG Adapter Flange	
Connections to the tank	
S Without screws	Seals     Execution       A     NBR     P02     MP Filtri standard
Air Breathers & Filler Plugs 30	

### SAW 115

Dimensions





Air vent holes

Max hydraulic flow rate	Holes to open
[ I/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

())) MPALTRI

- 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



31 Air Breathers & Filler Plugs



Metal air breather filter





## GENERAL INFORMATION

#### Technical data

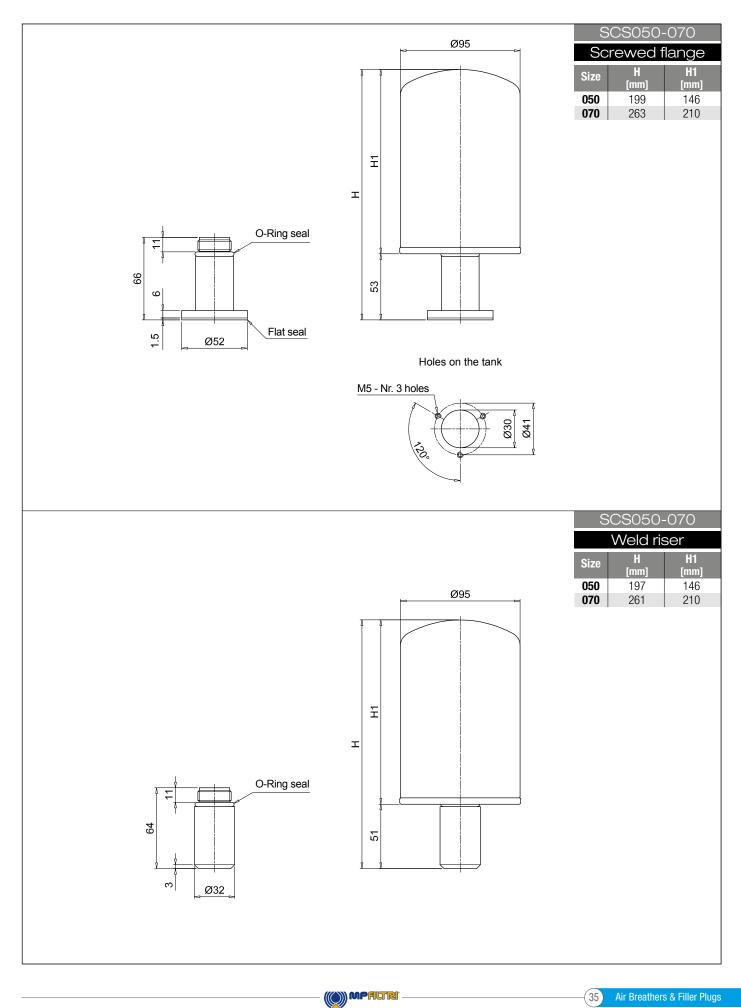
Air breathers & Filler plugs	Flow rate Δp 0.02 bar Flow rate [l/min]							
letal air breather filter	Filtration rating		A03	A10				
low rate up to 1330 l/min	SCS050	550	515	530				
CS is a range of air breathers for protection of the tank against the	SCS070	550	515	530				
lid contamination contained into the air.	SCS100	1415	1300	1330				
hey are composed of a spin-on filter can screwed on a connection be, directly fitted on the tank. They are usually directly fitted on the tank.	SCS150	1415	1300	1330				
	Materials							
vailable features: Neld or flanged connection, for a maximum flow rate of 1415 I/min	Riser: Galvanized steel							
Fine cellulose and microfibre filtration, to get a good cleanliness level	Temperature							
nto the reservoir	From -25 °C to +100 °C							
ommon applications:								
Mobile machines (construction and agriculture machines)	Weight							
ndustrial equipment	SCS050G1: 0,200 kg							
	SCS050G2: 0,265 kg							
	SCS100G1: 0,450 kg SCS100G2: 0,645 kg							
	000100az. 0,040 kg							
	CS/CG050: 0,73 kg							
	CS/CG070: 0,95 kg							
	CS100: 1,3 kg							
	CS150: 1,6 kg							
	CG100: 1,3 kg							
	CG150: 1,6 kg		-					

#### Designation & Ordering code

					ME	tal a	AIR BRE	ATHER FIL	TER								
Series	and size							Configu	ration exa	ample 1 :	SCS050	С	G	2		V	P01
SCSO	50   SCS070   SCS1	00	SCS150					Configu	ration exa	ample 2 :	SCS150	C	G	2	A10	V	P01
Conne	ctions to the tank																
C	Weld riser																
F	Screwed flange																
Threa	ded connection		SCS050	- 070	SC	S100 -	150										
G1	Connection ISO 228		G 3/4"		G 1 1	1/4"											
G2	Connection U.S. standard		1" - 12	UNF	1 1/2	2" - 16	UN										
Filtrat A03 A10 P10	ion rating Without filter element Inorganic microfiber Inorganic microfiber Resin impregnated paper	3 μm 10 μm 10 μm		050 ( • • •	070 • •	100 • • •	150 • •		Seal A V	s NBR FPM		-	Execu P01 Pxx	MP	Filtri st stomize		
						FI	lter ei	LEMENT							· · · · · ·		
Filter o	element series Connection ISO 228		Threaded con	nection:	G1		G2		Conf	iguration (	example :	CG	15	50	A10	V	P01
CG	Connection U.S. standard				•		•										
	element size																
050	<b>070 100</b>	1	150														
	ion rating	0										_					
A03 A10	Inorganic microfiber Inorganic microfiber	3 µm 10 µm							Seal	s NBR			Execu P01		' Filtri st	ondord	
P10	Resin impregnated paper								A V	FPM		-	PUT		stomize		
	1 0 11	το μπ							v	11111		-	1 ^^	out	STOLLIZE	u	
Air Brea	athers & Filler Plugs 34	)					- 🧼 🔊	npaltri -									

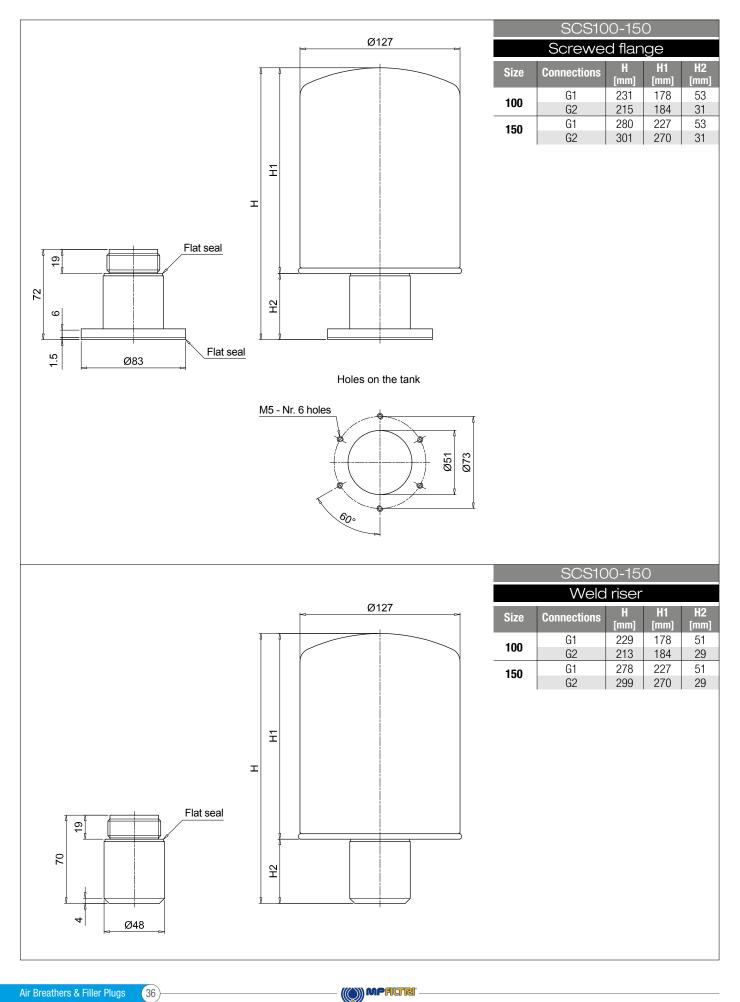
## SCS 050-070 SCS

Dimensions



### SCS 100-150

#### Dimensions









# SME1-SMF1-SML1series

**Risers for breathers and filler caps installation** 

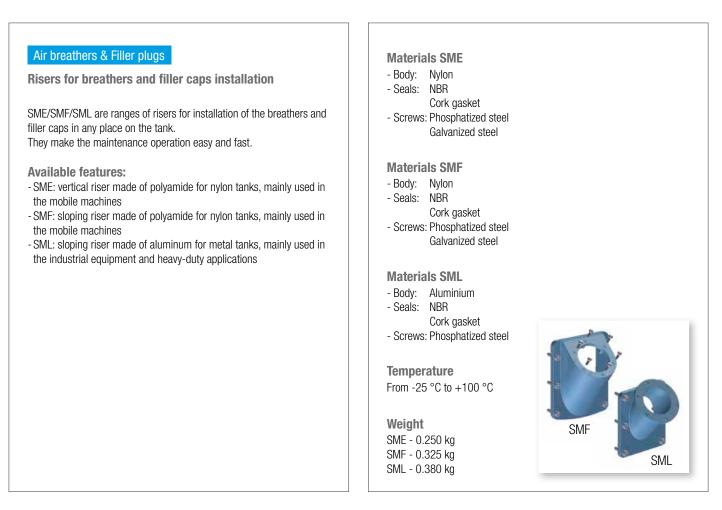






## SME1-SMF1-SML1

#### Technical data

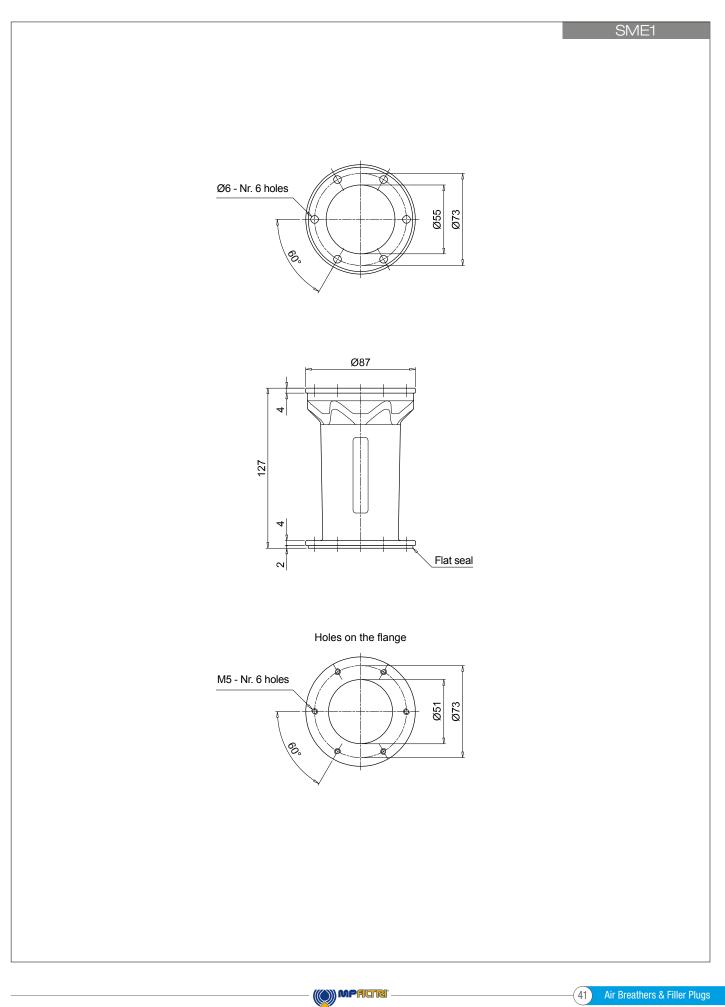


#### Designation & Ordering code

					SME / SMF / SML
Series	and size				Configuration example : SMF1 M A P01
SME1	Polyamide vertical riser				
SMF1	Polyamide sloping riser				
SML1	Aluminium sloping riser				
Conne	ctions to the tank				
М	Metric screws				
U	UNC screws				-
					_
Seals					
Α	NBR				
			Series		
Execut	ion	SME1	SMF1	SML1	
P01	MP Filtri standard		•	•	
P02	Standard without logo	•			
Рхх	Customized	•	•	٠	_

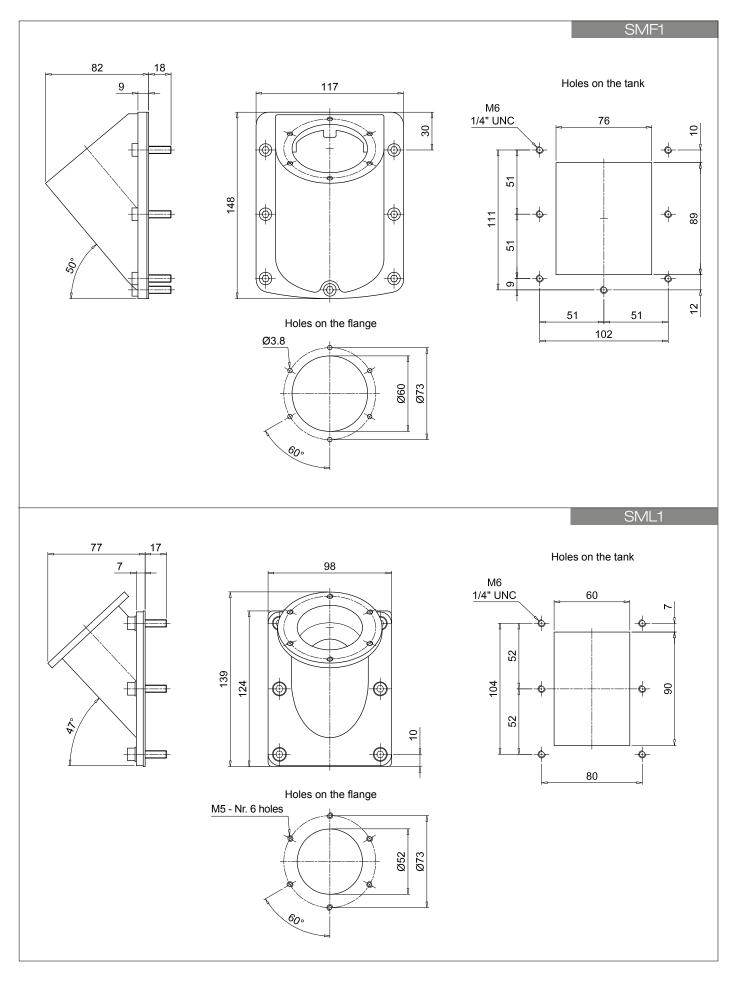
## SME1-SMF1-SML1

Dimensions



## SME1-SMF1-SML1

#### Dimensions











# TA 46 TAP 50 SAP 50 series

Metal oil filler and air breather filler cap Nylon oil filler and breather plug Nylon air breather filter







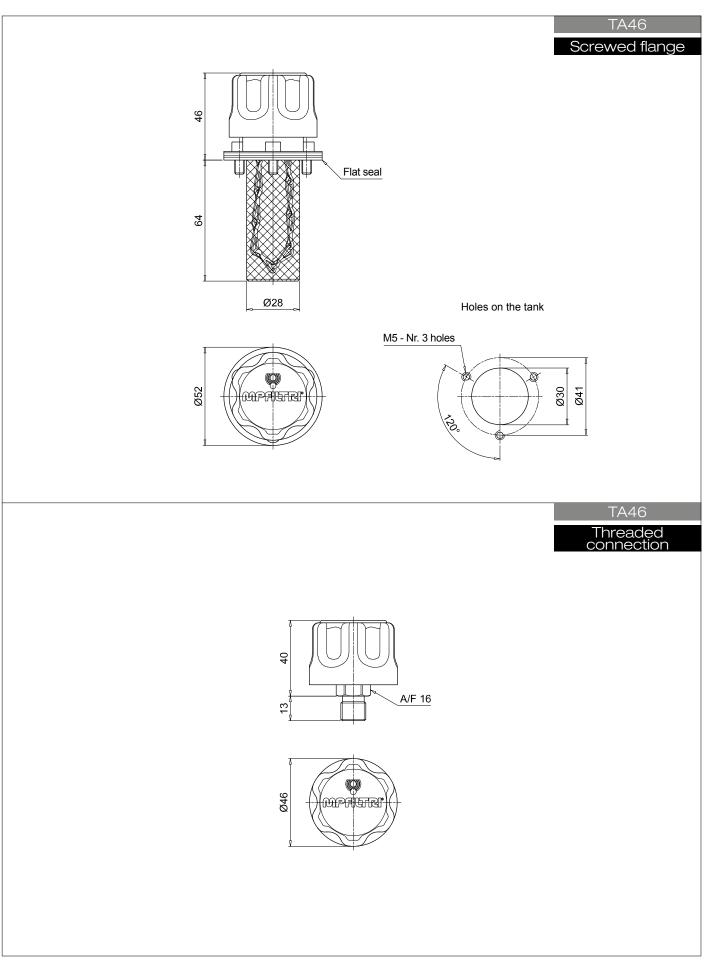
#### Technical data

Air breathers & Filler plugs	Flow rate Δp 0.02 bar Flow rate [l/min]
Metal oil filler and air breather filler cap	Filtration rating 03 10
Flow rate up to 200 I/min	TA46 150 200
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 usually directly fitted on the tank. The robust design allows the use of these filters in any heavy-duty application.	Materials (version G/N) - Cover: Chrome plated steel - Filter element: Resin impregnated paper, Polyurethane - Flange: Galvanized steel - Connection: Phosphatized steel
<ul> <li>Available features:</li> <li>Male threaded connections up to 1/4" and flanged connection with bayonet, for a maximum flow rate of 200 l/min</li> <li>Fine cellulose filtration, to get a good cleanliness level into the reservoir</li> <li>Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank</li> <li>Common applications:</li> <li>Compact hydraulic systems</li> <li>Compact mobile machines</li> <li>Industrial equipment</li> </ul>	Materials (version B) - Cover: Chrome plated steel - Filter element: Resin impregnated paper, Polyurethane - Flange: Galvanized steel - Connection: Phosphatized steel - Seals: NBR - Chain, ring: Cork gasket - Screws: Galvanized steel - Basket: Brass
	Temperature From -25 °C to +100 °C
	Weight
	TA 46 B 0.10 kg
	TA 46 G/N 0.11 kg

					CO	MPLE	TE AIR BREATHER	r - TA46	5							
Serie <u>s</u>	and size						Configuration example 1 :	TA46		В	03	Α	0	0	1	P01
TA46							Configuration example 2 :	TA46		G	10					P01
Conneo	tions to the tank															
В	Screwed flange with	n bayonet moun	ıt													
G	Thread G 1/4"						_									
N	Thread 1/4" NPT						-									
Filtrati	on rating															
03	Resin impregnated p	oaper 3 µm														
10	Polyurethane	10 µm					-									
Seals		Connection:	В	G		N	L									
A	NBR		٠				-									
Valve		Connection:	В	G		N	L									
0	Without valve		•				-									
Version		Connection:	В	G		N	L									
0	Standard		•				-									
Basket 1	With basket	Connection:	B	G		N	L									
<u> </u>	WILLI DASKEL		•	 			-						Executio	n		
														1P Filtri s	tandard	
												P	<b>xx</b> C	ustomize	ed	
												_				



TA 46 Dimensions





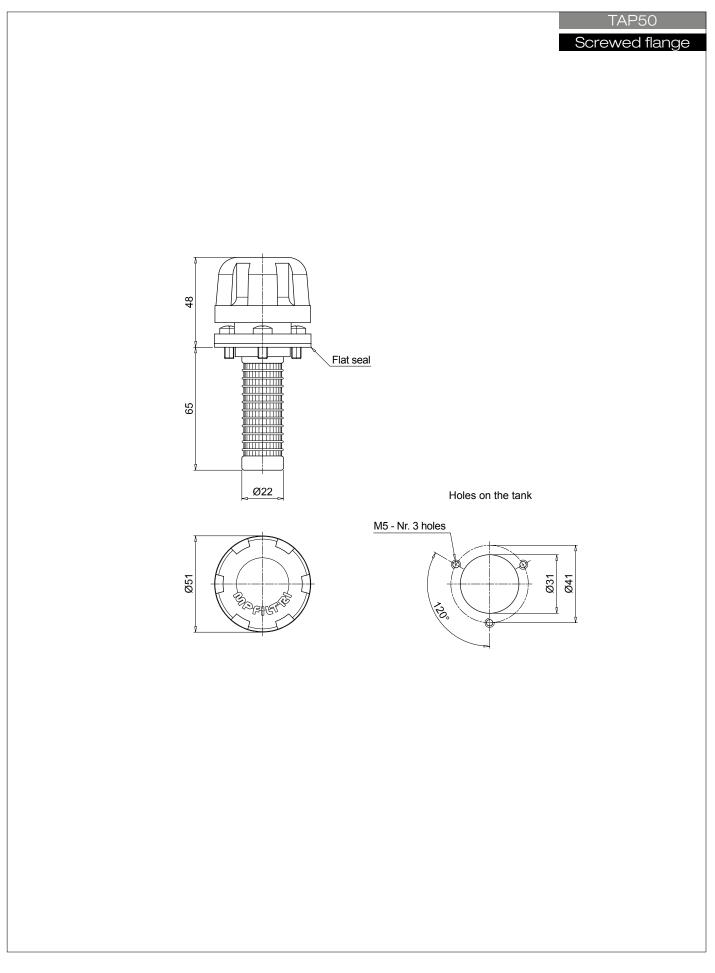
## TAP 50 GENERAL INFORMATION

#### Technical data

athers & Filler plugs	Flow rate [l/min]
I filler and breather plug	Filtration rating 03 10
te up to 200 I/min	<b>TAP50</b> 180 202
a range of compact plastic air breathers and filler caps for of the tank against the solid contamination contained into d filling of the fluid into the systems during the commissioning tenance procedures. <b>e features:</b> connection with bayonet, for a maximum flow rate of 200 l/min ulose filtration, to get a good cleanliness level into the reservoir asket, to hold the coarse contamination contained into the to diffuse the fluid flow into the tank	Materials - Cover/ringnut: Nylon - Filter element: Resin impregnated paper, Polyurethane - Pressurization valve: Nylon, Galvanized steel, NBR - Seals: NBR - Flange: Nylon - Screws: Galvanized steel - Basket: Nylon
<b>applications:</b> ydraulic systems nobile machines equipment	<b>Temperature</b> From -25 °C to +100 °C
	Weight 0.60 kg
	Quantity 10 pcs/pack

	COMPLETE	OIL FILLER PLUG - TAP	50									
Series a	nd size	Configuration example :	TAP50	C	; ] [	03	Α		1	1	P	01
TAP50	Nylon oil filler and breather plug											
	ions to the tank											
C	Screwed flange with G 3/4" mount	_										
Filtratio												
03	Resin impregnated paper 3 µm	_										
10	Polyurethane 10 µm	_										
Seals												
Α	NBR	_										
Valve												
0	Without valve	_										
1	0.5 bar pressurization valve	_										
Basket												
1	With basket	_										
						R	xecutio	<b>n</b>				
						PC			tri sta	ndaro	1	
						P			mized			









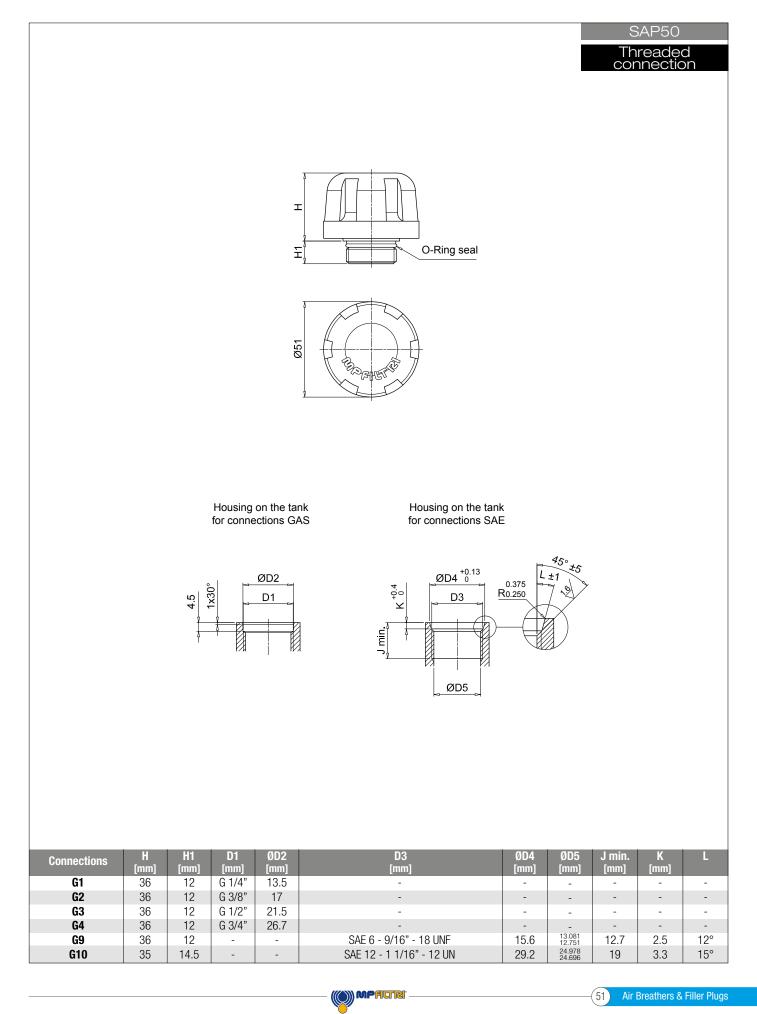
## SAP 50 GENERAL INFORMATION

#### Technical data

Nyton air breather filter       Flow rate up to 200 l/min         SAP50 is a range of compact plastic air breathers for protection of the tank against the solid contamination contained into the air.       Filtration rating 03 10         The integrated air breather protects the tank against the solid contamination contained into the air. They are usually directly fitted on the tank.       Cover/Connection: Nylon         Available features:       - Over/Connection: Nylon       - Filtre element: Resin impregnated paper, Polyurethane         • Anale threaded connections up to 3/4", for a maximum flow rate of 200 l/min.       - Filtre element: Resin impregnated paper, Polyurethane         • Filtre cellulose filtration, to get a good cleanliness level into the reservoir.       - Compact hydraulic systems         • Compact hydraulic systems       - Compact hydraulic systems         • Industrial equipment       0.40 kg         Outstrial equipment       - Over/Connection: Null

	COMPLETE	AIR BREATHER - SAP5	<b>i</b> 0								
Series a	nd size	Configuration example :	SAP50	G3	L03	Α	1		0	P01	
	Nylon air filter	,									
	-										
Connec	tions to the tank										
G1	G 1/4"										
G2	G 3/8"										
G3	G 1/2"										
G4	G 3/4"										
G9	SAE 6 - 9/16" - 18 UNF										
G10	SAE 12 - 1 1/16" - 12 UN										
Filtratio	n rating										
L03	Resin impregnated paper 3 µm										
L10	Polyurethane 10 µm										
	· · · · · · · · · · · · · · · · · · ·										
Seals											
A	NBR										
	Connection										
Valve	G1 G2 G3 G4 G9 G10										
0	Without valve • • • • •										
1	0.5 bar pressurization valve • • • •										
Basket											
0	Without basket					Executi	012				
							on MP Filt	ri stan	dard		1
					-		Custor		uuru		-
					-		0.0000	54			-
Air Breat	hers & Filler Plugs 50	MPALTRI									-
		·									











Metal oil filler and air breather filler cap





### TA 80 GENERAL INFORMATION

#### Technical data

#### Air breathers & Filler plugs

Metal oil filler and air breather filler cap Flow rate 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 usually 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
- Faulouk lab, to secure the an prediner 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/min]									
	Filtration rating	03	10							
TA80		450	550							

#### Materials

- Cover: Chrome Plated steel
- Filter element: Resin impregnated paper, Polyurethane
- Pressurization valve:
- Nylon (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

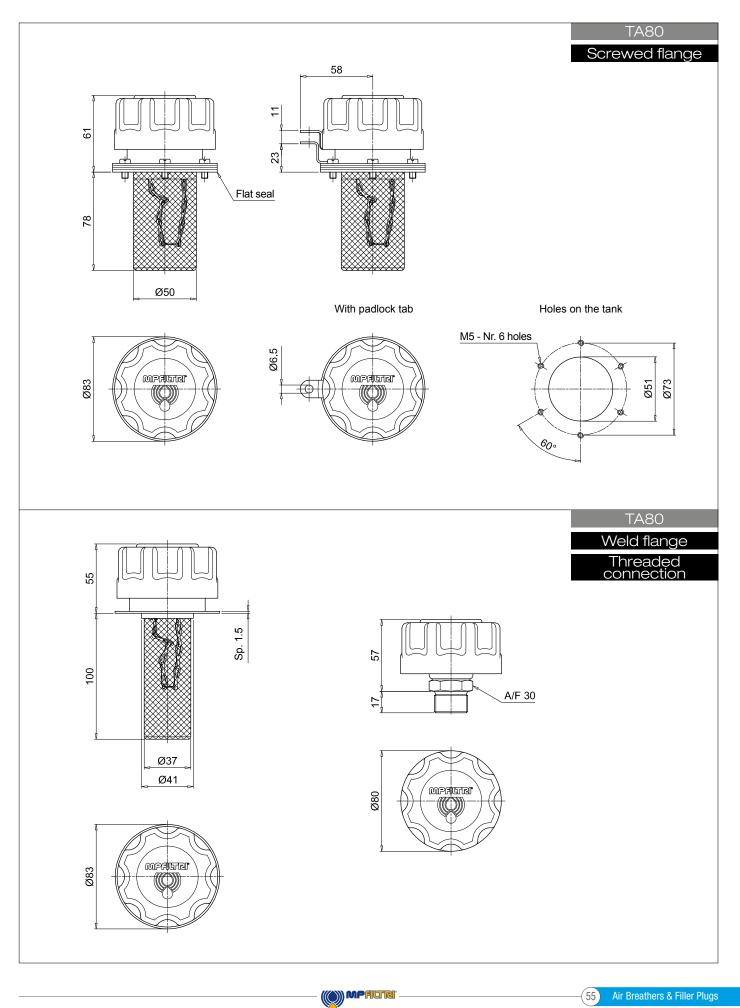
Weight L 80 mm 0.33 kg L 100 mm 0.35 kg



	CO	MPLETE	E BREATHER PLUG	i - TA80							
Seri	es and size		Configuration example 1 :	TA80	В	03	Α	0	L	1	P01
TA8	0		Configuration example 2 :	TA80	G	10	Α	2			P01
Con	nections to the tank										
B	Screwed flange with bayonet mount <b>G</b> Thread G	3/4"									
D	Weld flange with bayonet mount <b>N</b> Thread 3/										
Eilte	ration rating Connection: B D G	Ν									
00	Without filter (blind filler plug) • •										
03	Resin impregnated paper 3 µm • • •	•									
10	Polyurethane 10 µm • • •	•									
0											
Sea A	NBR										
<u> </u>											
Valv		10									
0	Without valve • •	•									
1	0.3 bar pressurization valve •	•									
2	0.7 bar pressurization valve •	•									
9	With anti-splash feature •	•									
Vers	sion Connection: B D G	N									
0	Standard • •										
L	With padlock tab •										
Bas		N									
0	Without basket • •						_				
1	L = 80 mm •							xecutior			
3	L = 100 mm •								P Filtri st		
							P	<b>xx</b> Ci	istomize	d	



# TA 80





# TAP 90 series

Nylon oil filler and air breather filler cap







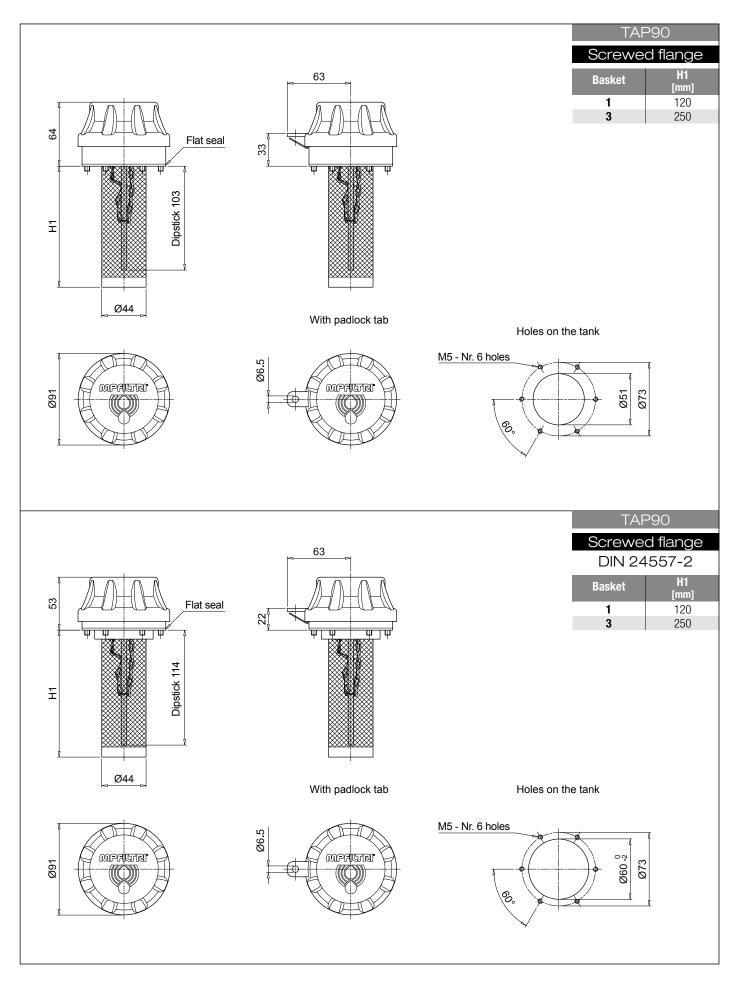
### TAP 90 GENERAL INFORMATION

#### Technical data

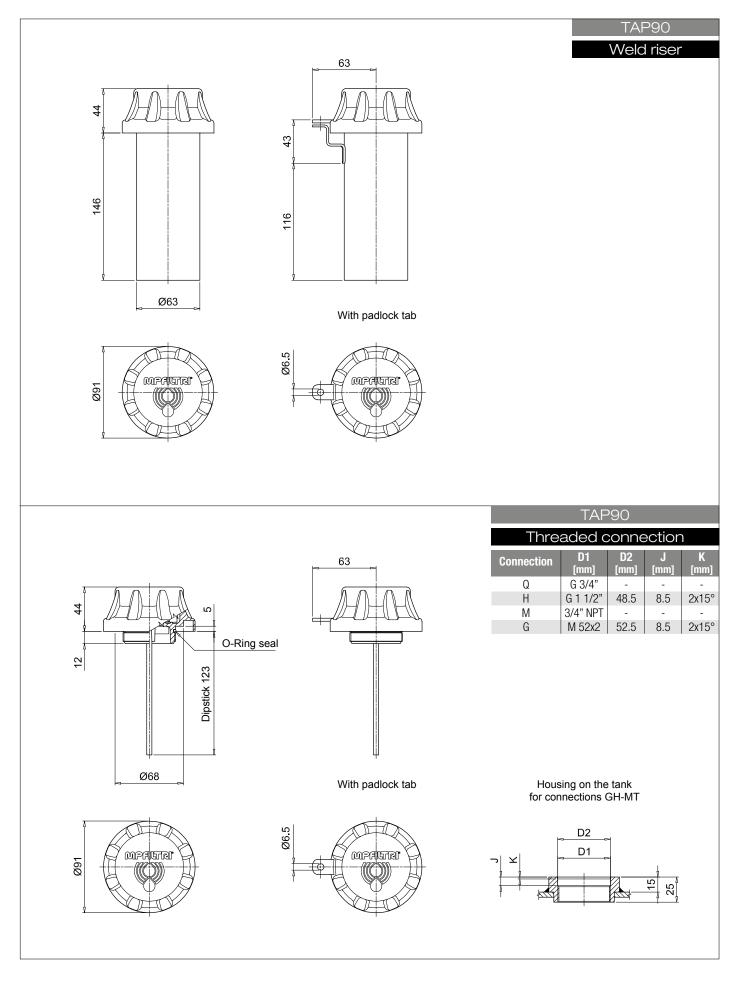
Air breathers & Filler plugs	Flow rate ∆p 0.02 bar
Nylon oil filler and air breather filler cap	Flow rate [l/min]
Flow rate up to 550 I/min	Filtration rating 03 10 TAP90 450 550
<ul> <li>TAP90 is a range of plastic air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.</li> <li>They are usually directly fitted on the tank.</li> <li><b>Available features:</b> <ul> <li>Male threaded connections up to 1 1/2" and flanged connection with bayonet, for a maximum flow rate of 550 l/min</li> <li>Fine cellulose filtration, to get a good cleanliness level into the reservoir</li> <li>Pressurization valve with different setting, to guarantee a positive pressure into the tank in any application with metal or plastic tanks</li> <li>Padlock tab, to secure the air breather to the tank</li> <li>Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank</li> <li>Dipstick, to monitor the fluid level into the tank even in complicated positions</li> </ul> </li> </ul>	<ul> <li>Materials</li> <li>Cover/Ringnut: Nylon</li> <li>Filter element: Resin impregnated paper, Polyurethane</li> <li>Pressurization valve: Nylon (bodies), Galvanized steel (end cap - disk), NBR (seals)</li> <li>Flange B: Nylon</li> <li>Seals: NBR</li> <li>Screws: Galvanized steel</li> <li>Padlock tab: Galvanized steel</li> <li>Chain, Ring: Brass</li> <li>Dipstick: Phosphatized steel</li> <li>Basket: Galvanized steel, Nylon</li> </ul>
Common applications: - Hydraulic systems - Mobile machines - Industrial equipment	Temperature From -25 °C to +100 °C
	Weight L 120 mm 0.25 kg L 250 mm 0.31 kg

		COMPLETE	BREATHER PLUG -	- TAP90							
Series and size			Configuration example 1 :	TAP90	R	03	Α	1	Α	1	P01
TAP90			Configuration example 2 :		G	10	Α	2			P01
Connections to the tank			l								
<b>R</b> Screwed flange with M52x2 mount	Η	Thread G 1 1/2"	_								
F Screwed flange DIN 24557-2	Μ	Thread 3/4" NPT	_								
C Weld riser	G	Thread M52x2	-								
Q Thread G 3/4"											
		Connection									
Filtration rating R F	C	Q   H   M   G									
<b>00</b> Without filter (blind filler plug) • •	•		-								
<b>03</b> Resin impregnated papeβ μm • •	•	• • • •	Seals								
<b>10</b> Polyurethane 10 μm •	•	• • • •	<u>A</u>	NBR		-					
Valve Filtration rating:		00 03 10									
0 Without valve		• • •				 					
1 0.3 bar pressurization valve		• •									
2 0.7 bar pressurization valve		• •									
Version			I								
	th d	lipstick	I								
L With padlock tab	th p	adlock tab and dipstick	-								
i		Connection	-								
Basket R F	C	Q H M G									
0 Without basket • •	•		-								
1 With basket 120 mm • •	•		-					Executio			
3 With basket 250 mm • •	•		-				_	-		standaro	1
							P	<b>xx</b> C	ustomiz	ed	
Air Breathers & Filler Plugs 58			- ( MPALTRI' —			 					









(()) MPALTRI









Nylon oil filler and air breather filler cap





## TAP 114 GENERAL INFORMATION

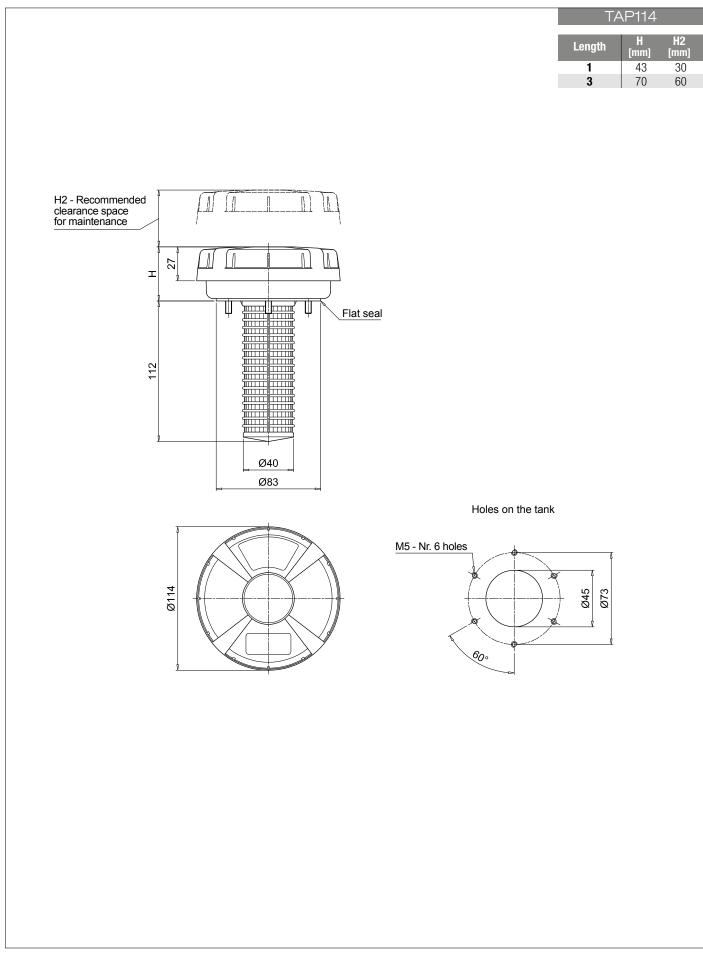
#### Technical data

Air breathers & Filler plugs Nylon oil filler and air breather filler cap Flow rate 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	Flow rate Δp 0.02 barFlow rate [l/min]Filtration rating L10TAP114 length 11450TAP114 length 31600
<ul> <li>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.</li> <li>They are usually directly fitted on the tank.</li> <li><b>Available features:</b> <ul> <li>Flanged connection, for a maximum flow rate of 1600 l/min</li> <li>Replaceable filter element</li> <li>Fine cellulose filtration, to get a good cleanliness level into the reservoir</li> <li>Polyester media is an option for heavy environmental conditions (high humidity, sand)</li> </ul> </li> <li>Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank</li> <li>Dipstick, to monitor the fluid level into the tank even in complicated positions</li> </ul> <li><b>Common applications:</b> <ul> <li>Hydraulic systems</li> <li>Mobile machines</li> <li>Industrial equipment</li> </ul> </li>	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>

COMPLE	TE BREATHER PLUG - TAP114
Series and size	Configuration example : TAP114 1 L10 A 1 P01
TAP114	
Length	
1   3	
Filtration rating	
L10 Resin impregnated paper 10 μm	_
Seals	
A NBR	_
Version	Execution
1 With basket	P01 MP Filtri standard
	Pxx Customized

	FILTER ELEMENT
Filter element series and size A114	Configuration example : A114 1 L10 P01
Length 1 3	
Filtration rating L10 Resin impregnated paper 10 μm	Execution P01 MP Filtri standard
	Pxx Customized











# TAP 115 & SAP 115

Nylon oil filler and air breather filler cap







### TAP 115 GENERAL INFORMATION

#### Technical data

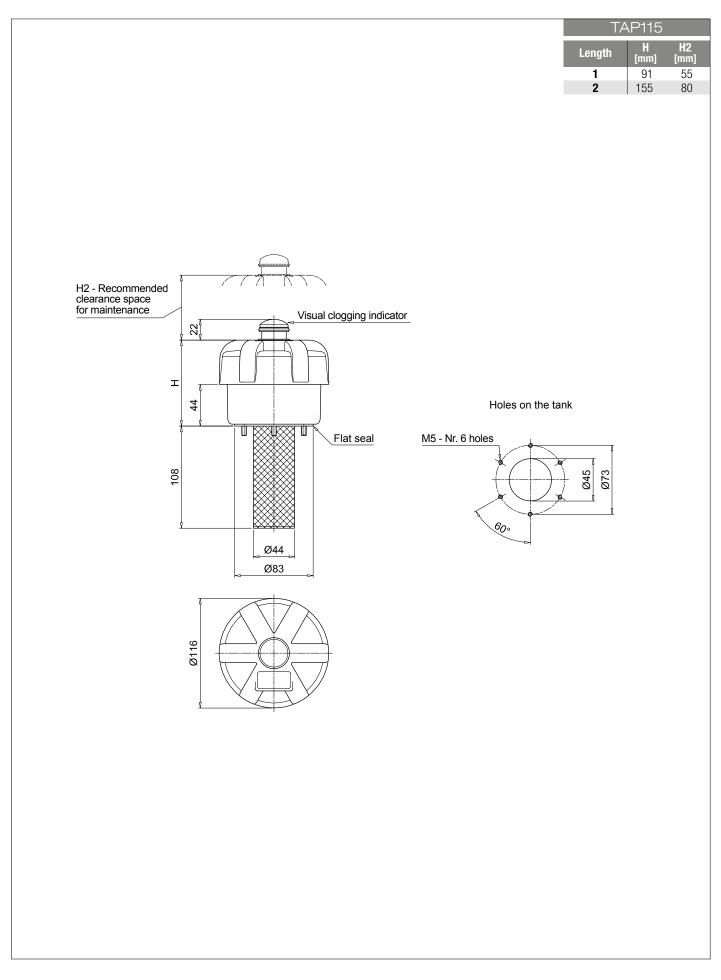
	Flow rate ∆p 0.02 bar		
<ul> <li>Nylon oil filler and air breather filler cap</li> <li>Flow rate up to 2150 l/min</li> <li>TAP115 is a range of plastic large air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.</li> <li>They are usually directly fitted on the tank.</li> <li>Available features: <ul> <li>Flanged connection, for a maximum flow rate of 2150 l/min</li> <li>Replaceable filter element.</li> </ul> </li> <li>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)</li> <li>Visual clogging indicator</li> <li>Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank</li> </ul> <li>Common applications: <ul> <li>Hydraulic systems</li> <li>Mobile machines</li> <li>Industrial equipment</li> </ul> </li>		1600 2150 impregnated p	L10 2000 2150

#### Designation & Ordering code

COMPLETE	BREATHER PLUG - TAP115				
Series and size	Configuration example : TAP115 2	F AO	3 A	1	A P01
TAP115         Screwed flange connection					
Length					
1   2					
Connection to the tank					
F Flange					
Filtration rating					
A03         Inorganic microfiber         3 μm           L10         Resin impregnated paper         10 μm					
Seals A NBR V FPM					
Version					
1 With basket					
Clogging indicator			Exe	cution	
A Without indicator			P01		tri standard
B With visual clogging indicator			Pxx	Custo	mized
	FILTER ELEMENT				
Filter element series and size	Configu	ration example :	A115	2 A	03 P01
<u>A115</u>					
Length					
1   2			Exe	cution	
Filtration rating			P01	MP Fil	tri standard
A03 Inorganic microfiber 3 μm			Рхх	Custo	mized

L10 Resin impregnated paper 10 µm









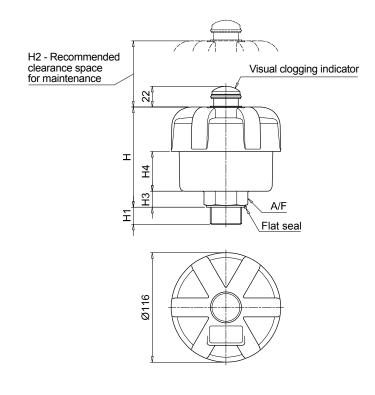
# SAP 115

Air breathers & Filler plugs	Flow rate [l/min]		
lylon oil filler and air breather filler cap	Filtration ratio		L10
low rate up to 3000 I/min	SAP115 length 1 - G1"	1830	2170
AP115 is a range of plastic large air breathers for protection of the	SAP115 length 2 - G1"	2800	2800
ank against the solid contamination contained into the air.	SAP115 length 1 - G1 1/2"	1995	2330
hey are usually directly fitted on the tank.	SAP115 length 2 - G1 1/2"	3000	3000
Available features:	Materials		
Male threaded connections up to 1 1/2", for a maximum flow rate	- Cover/flange: Nylon		
of 3000 l/min.	- Filter element: Microfibre, Resin i	mpregnated p	aper
Replaceable filter element.	- Connection: Nylon		-
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)	- Seals: NBR, FPM		
Visual clogging indicator	Clogging indicators		
Antisplash, to avoid fluid coming out through the air breather due to	- Manual reset		
sloshing	- Set pressure 0.062 bar +/- 10%		
Filling basket, to hold the coarse contamination contained into the			
fluid and to diffuse the fluid flow into the tank	Temperature		
	From -25 °C to +100 °C		-
Common applications:			
Hydraulic systems			
Mobile machines	Weight Length 1 Length 2		
Industrial equipment	SAP 115 0.41 kg 0.525 kg		
			194 <del>8 - 19</del> 99

COMPLETE	TE BREATHER PLUG - SAP115
Series and size	Configuration example : SAP115 2 A A03 A 1 A P01
SAP115 Threaded connection	
Length	
1 2	
Osumostion to the text	
Connection to the tank A Thread G 1"	
C Thread G 1 1/2"	_
- Filtration rating	
A03 Inorganic microfiber 3 μm	
L10 Resin impregnated paper 10 µm	_
Seals	
A NBR	
Version	
0 Standard 1 With anti-splash feature	
Clogging indicator	Execution
A Without indicator	P01 MP Filtri standard
B With visual clogging indicator	Pxx Customized
	FILTER ELEMENT
Filter element series and size	Configuration example : A115 2 A03 P01
A115	
Length	
1 2	
Filtration rating	Execution
A03 Inorganic microfiber 3 µm	P01 MP Filtri standard Pxx Customized
L10 Resin impregnated paper 10 µm	
Air Breathers & Filler Plugs 70	

# SAP 115

	SAP115							
Len	gth	Connection	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	A/F [mm]
		A	106	18	55	17	42	41
		С	111	23	55	22	42	55
		А	170	18	80	17	106	41
2	С	175	23	80	22	106	55	









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### PASSION TO PERFORM



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