









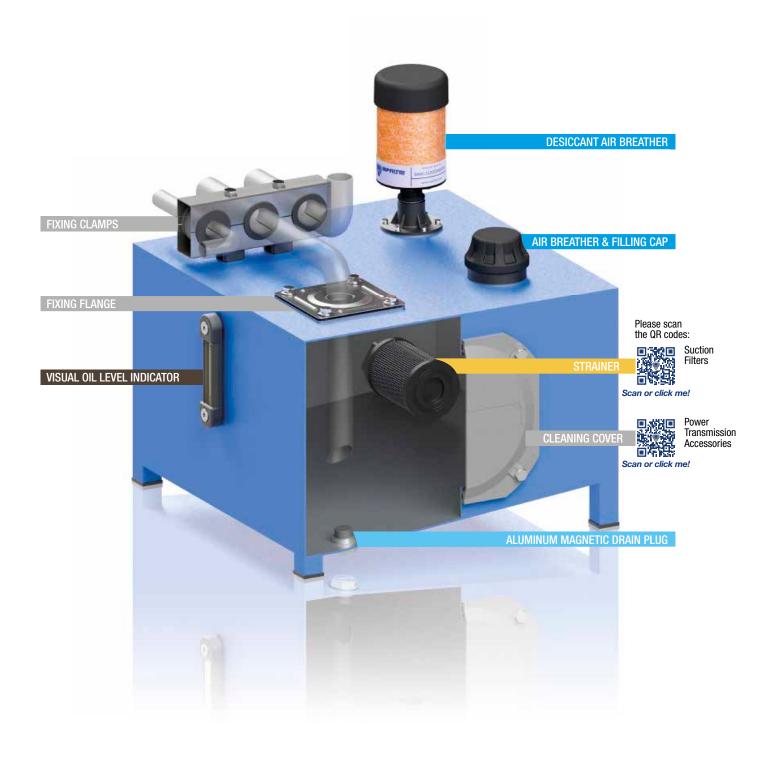
# A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

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.



## **TANK ACCESSORIES**







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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. MARKET **EADER** 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**



Scan or click me!

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**













SPIN-ON

**FILTERS** 





#### SUCTION **FILTERS**

#### Mounting:

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

#### **RETURN FILTERS**

#### Mounting:

- In-Line
- Tank top
- In single

### and duplex designs

### RETURN / SUCTION **FILTERS**

Mounting:

- In-Line
- Tank top

Mounting:

- In-Line
- Tank top

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

Mounting:

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

### HIGH PRESSURE **FILTERS**

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, ATEX filters) 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

Mounting:

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



#### FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

Mounting:

- In-Line



# CONTAMINATION CONTROL SOLUTIONS

- Off-line, in-line particle analyser
- 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 with flow rates from 15 I/min up to 200 I/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

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



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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

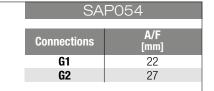


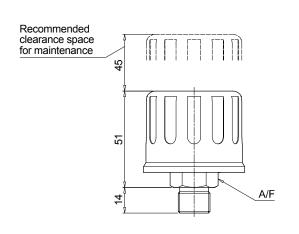
#### Designation & Ordering code

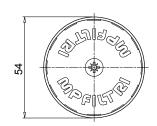
		C	OMPLETE AIR FILTER
Series and size			Configuration example: SAP054 G2 L10 A P01
SAP054 SAP075			-
Connections	SAP054	SAP075	
G1	G 3/8"	G 1/2"	
G2	G 1/2"	G 3/4"	_
Filtration rating	_	_	
<b>L03</b> Resin impregnated paper	3 µm		
L10 Resin impregnated paper	10 μm		-
Seals			
A NBR			Execution
			P01 MP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

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

#### **Dimensions**

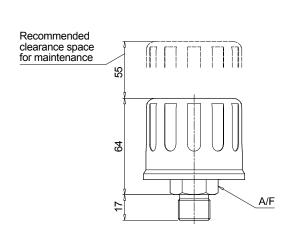


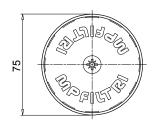




### <u>S</u>AP075

Connections	A/F [mm]
G1	27
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

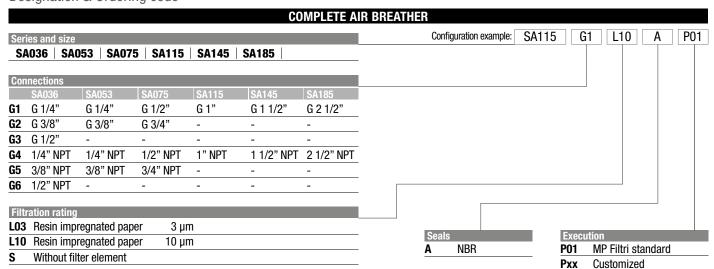
#### Weight

SA 036 0.08 kg SA 053 0.15 kg SA 075 0.26 kg SA 115 0.40 kg SA 145 0.59 kg SA 185 1.22 kg



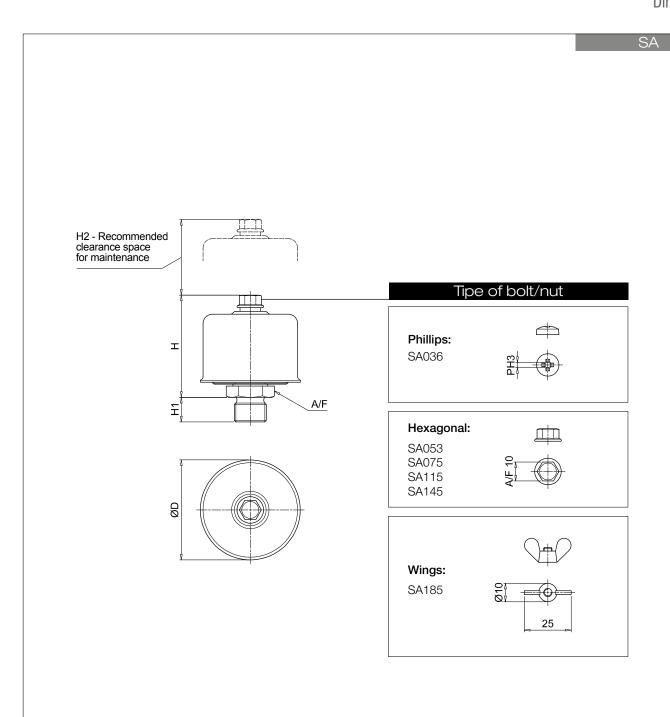
Customized

#### Designation & Ordering code



					FILTER I	LEMENT			
Filter	element series and size					I	Configuration exam	ole: A8	L10 P01
AO	5 A5 A7	<b>A8</b>	A10	A11					
Filhus	tion votion					-			
L03	tion rating Resin impregnated paper	3 µm							
L10	Resin impregnated paper	10 µm				=	F	ecution	
·						-	PO		i standard





	Туре	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			13		27
	075	G2	75	69	17	60	32
	070	G4	10		15		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

18



# 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 $\Delta p$ 0.02 bar

Flow rate [l/min]

**SAW115** 453

#### **Materials**

Connection: Polyamide

Internal Support Pipe: Polyamide

Screen: Polycarbonate Cover: Polyamide 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)

#### (Tooking parameters 20 °C, C

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

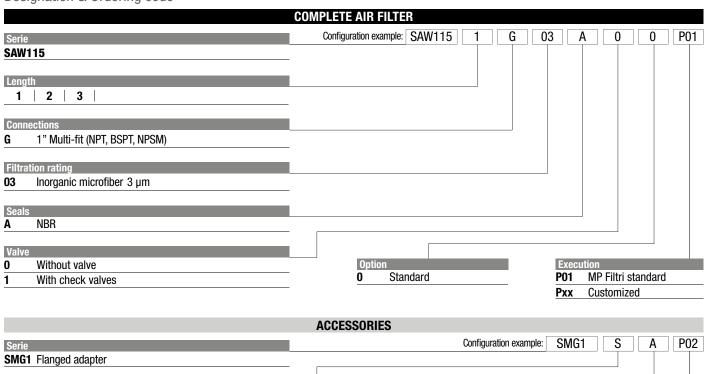
Length 2 0.90 kg

Length 3 1.20 kg



MP Filtri standard

#### Designation & Ordering code

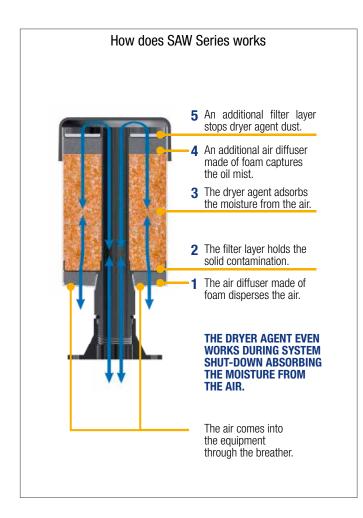


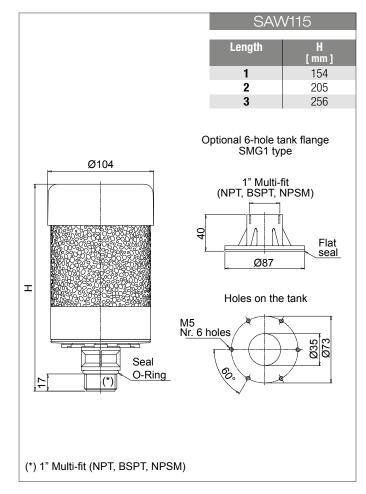
**NBR** 

Without screws

20

#### **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.

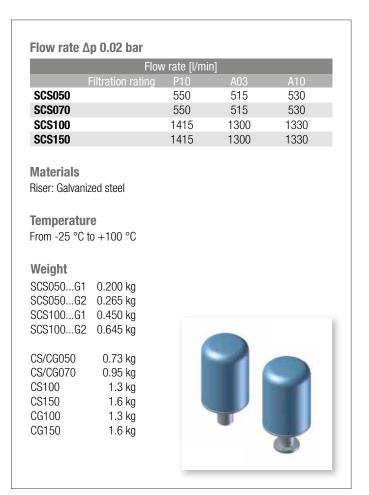
They are composed of a spin-on filter can screwed on a connection tube, directly fitted on the tank. They are directly fitted on the tank.

#### **Available features:**

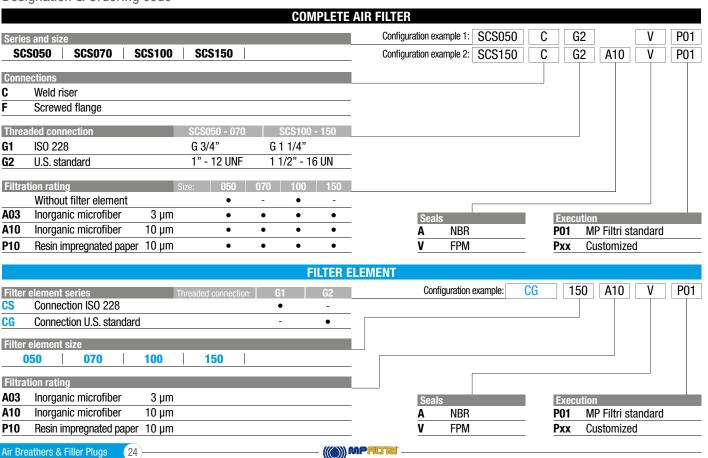
- Weld or flanged connection, for a maximum flow rate of 1415 I/min
- Fine cellulose and microfibre filtration, to get a good cleanliness level into the reservoir

#### **Common applications:**

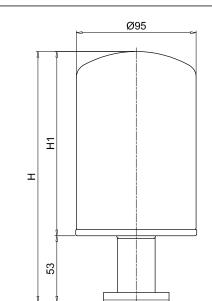
- Mobile machines (construction and agriculture machines)
- Industrial equipment



#### Designation & Ordering code



**Dimensions** 



O-Ring seal

Flat seal

99

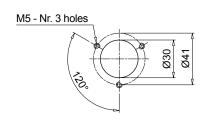
9

1.5

Ø52

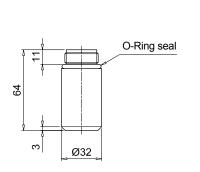
SCS050-070				
Screwed flange				
Size	H [mm]	H1 [mm]		
050	199	146		
070	263	210		

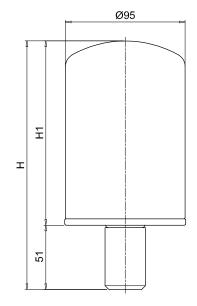




#### SCS050-070

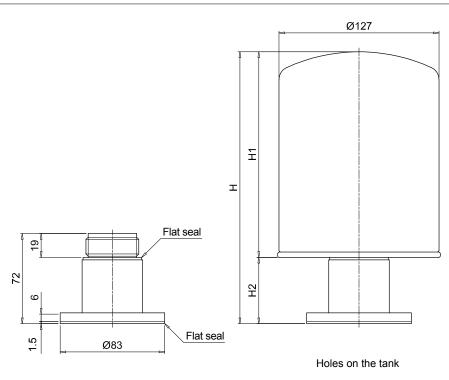
	Weld ris	ser
Size	H [mm]	H1 [mm]
050	197	146
070	261	210



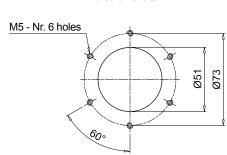


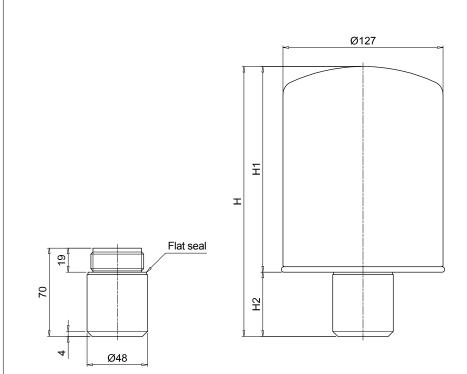
# SCS scs 100-150

#### **Dimensions**



2 m]
3
1
3
1





#### 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



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# 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



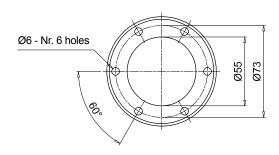
#### Designation & Ordering code

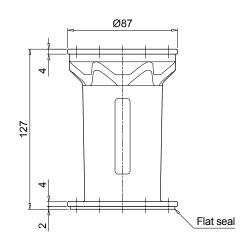
				C	OMPLETE ADAPTER
Series					Configuration example: SMF1 M A P
SME1	Polyamide vertical riser				
SMF1	Polyamide sloping riser				-
SML1	Aluminium sloping riser				-
	, <u>v</u>				-
Connec	ctions			_	
M	Metric screws				
U	UNC screws				=
-					-
Seals					
A	NBR				
-			Series		<del>-</del>
Execut	ion	SME1	SMF1	SML1	
P01	MP Filtri standard	-	•	•	
P02	Standard without logo	•	-	-	_

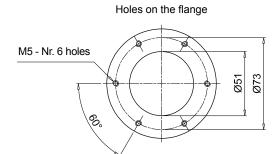
30)-

**Dimensions** 

SME1

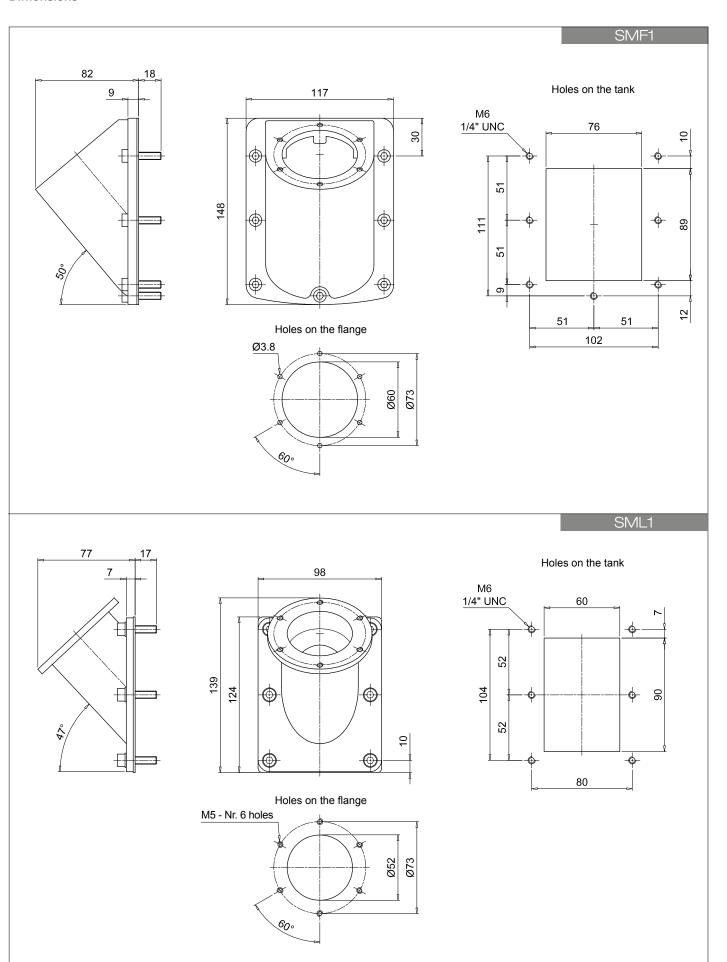






# SME1-SMF1-SML1

#### **Dimensions**





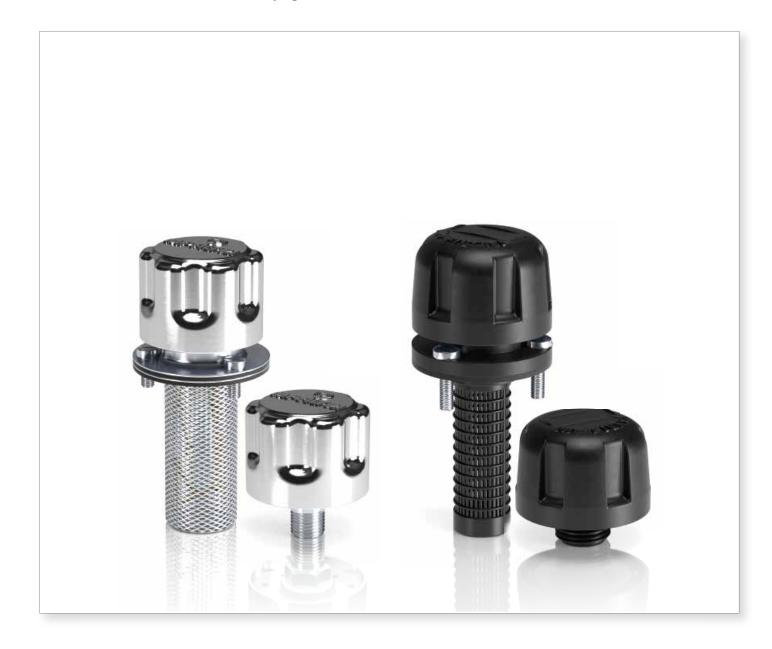


# TA 46 TAP 50 SAP 50 series

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 l/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 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

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

	Flow	rate [l/m	in]	
	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**

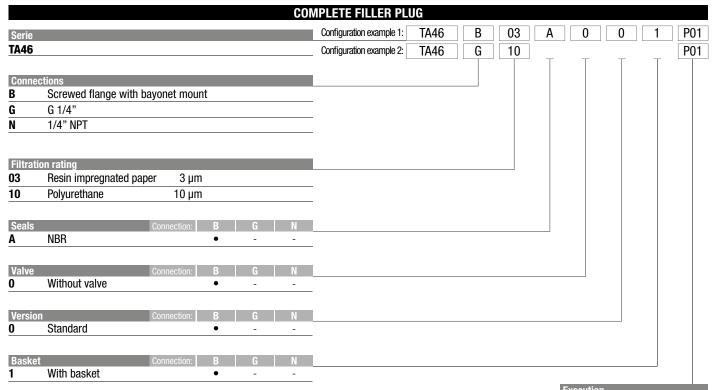
From -25 °C to +100 °C

### Weight

TA 46 B 0.10 kg TA 46 G/N 0.11 kg



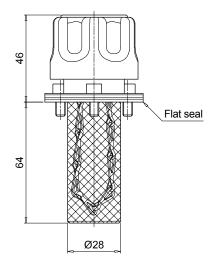
### Designation & Ordering code



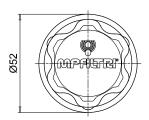
P01 MP Filtri standard
Pxx Customized

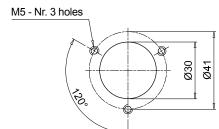
## TA46

# Screwed flange



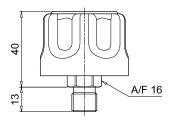
Holes on the tank

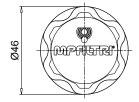




## TA46

# 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
- Pressurization valve, to guarantee a positive pressure into the tank

### **Common applications:**

- Compact hydraulic systems
- Compact mobile machines
- Industrial equipment

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

	Flow	rate [l/m	in]	
	Filtration rating	03	10	
TAP50		180	202	

### **Materials**

- Cover/ringnut: Polyamide
- Filter element: Resin impregnated paper, Polyurethane
- Pressurization valve: Polyamide, Galvanized steel, NBR
- Seals: NBR
- Flange: Polyamide
- Screws: Galvanized steel
- Basket: Polyamide

### **Temperature**

From -25 °C to +100 °C

### Weight

TAP 50 0.60 kg

### Quantity

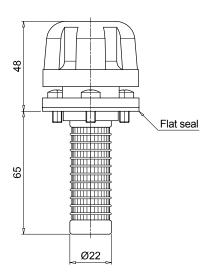
10 pcs/pack



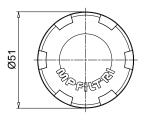


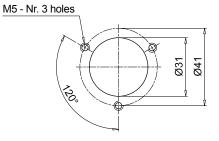
## TAP50

# 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
- Pressurization valve, to guarantee a positive pressure into the tank

### **Common applications:**

- Compact hydraulic systems
- Compact mobile machines
- Industrial equipment

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

Flow	ı 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

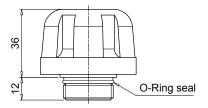
		PLETE AIR FILTER						
Serie		Configuration example:	SAP50	G3	L03	Α	1	0 P01
SAP50		-						
Conne G2	G 3/8"							
G3	G 1/2"	-						
G4	G 3/4"	-						
		<del>.</del>						
Filtrati	on rating							
L03	Resin impregnated paper 3 µm	_						
L10	Polyurethane 10 µm	=						
Seals A	NBR							
	NDIT	=						
Valve								
0	Without valve						_	
1	0.5 bar pressurization valve							
Baske								
0	Without basket	-			Exec			
					P01		ltri stano	dard
					Рхх	Custo	mized	

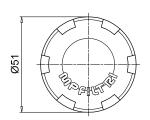
40

## SAP50

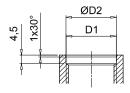
# Threaded connection

Connections	D1 [mm]	ØD2 [mm]
G2	G 3/8"	17
G3	G 1/2"	21.5
G4	G 3/4"	26.7





### Housing on the tank





# 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
- Anti-splash, to avoid fluid coming out through the air breather due to sloshing

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

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

Flo	w rate [l/mi	n]	
Filtration rating	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**

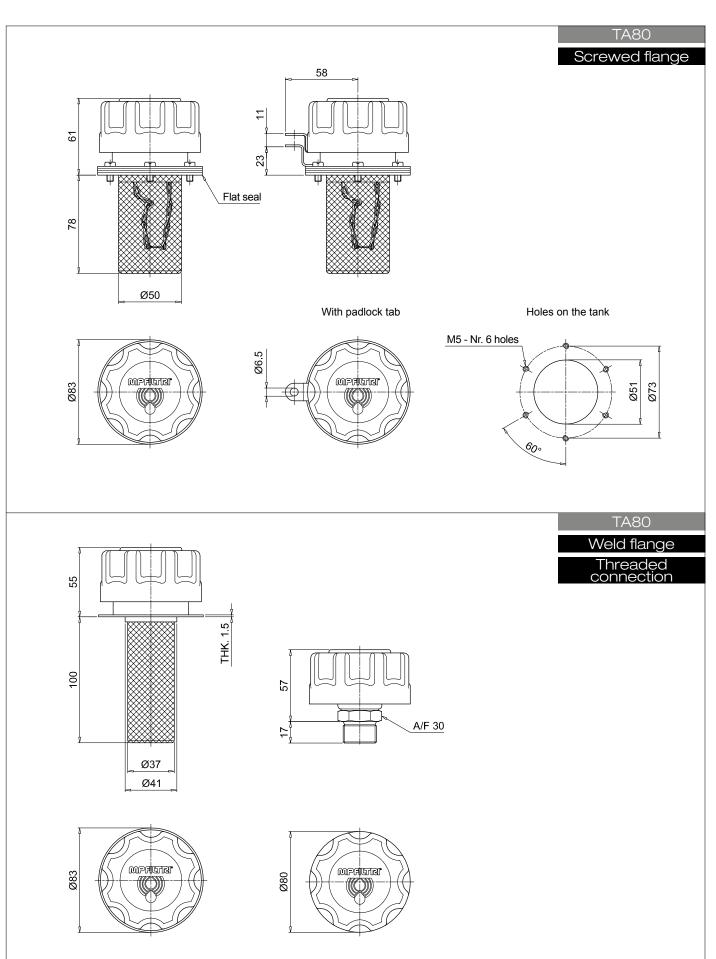
From -25 °C to +100 °C

### Weight

L 80 mm 0.33 kg L 100 mm 0.35 kg



	COMPLETE FILL	LER PLUG / COMPLETE AIR FILTER
Seri	е	Configuration example 1: TA80 B 03 A 0 L 1 P01
TA8	0	Configuration example 2: TA80 G 10 A 2 P01
Con	nections	
В	Screwed flange with bayonet mount <b>G</b> G 3/4"	
D	Weld flange with bayonet mount N 3/4" NPT	-
E:IA.	ation rating Connection: B D G N	
00	ation rating Connection: B D G N Without filter (blind filler plug) •	
03	Resin impregnated paper 3 µm • • •	-
10	Polyurethane 10 µm • • •	-
Sea	ls NBR	
Α	NDN	-
Valv		
0	Without valve • • •	_
1	0.3 bar pressurization valve - • •	_
2	0.7 bar pressurization valve - • •	_
9	With anti-splash feature - • •	_
Vers	cion Connection: B D G N	
0	Standard • •	
L	With padlock tab •	-
	•	-
Bas		
0	Without basket • •	_
1	With basket 80 mm •	Execution
3	With basket 100 mm	P01 MP Filtri standard
		Pxx Customized





# 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 rate [l/mi	n]	
Filtration rati	ng 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**

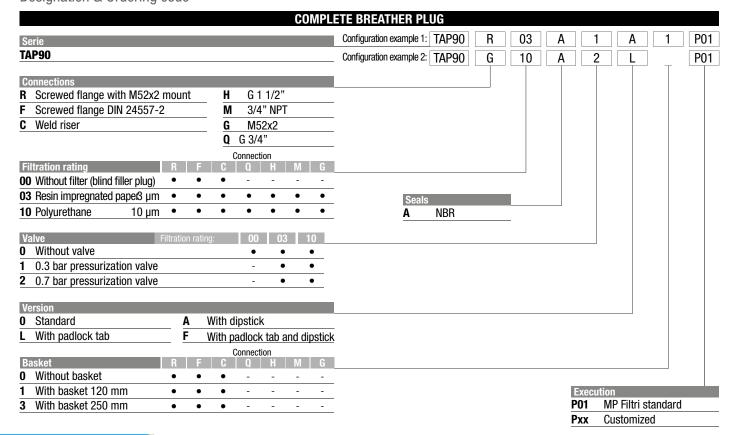
From -25 °C to +100 °C

### Weight

L 120 mm 0.25 kg L 250 mm 0.31 kg



### Designation & Ordering code

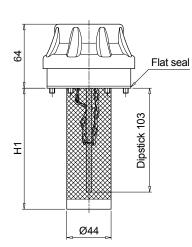


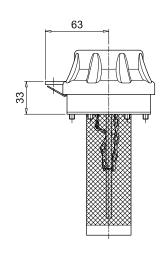
48



## Screwed flange

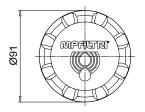
Basket	H1 [mm]
1	120
3	250

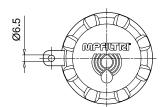


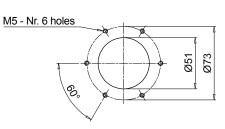


With padlock tab

Holes on the tank





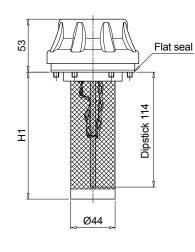


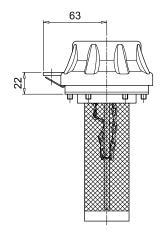
## TAP90

## Screwed flange

DIN 24557-2

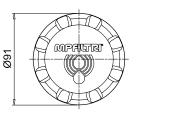
Basket	H1 [mm]
1	120
3	250

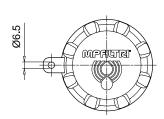


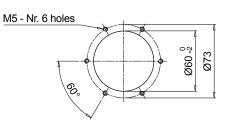


With padlock tab

Holes on the tank

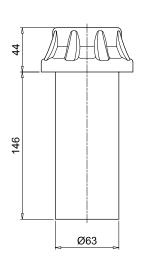


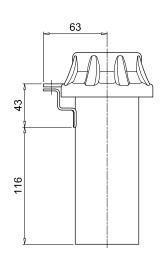




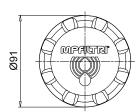
### TAP90

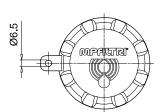
### Weld riser





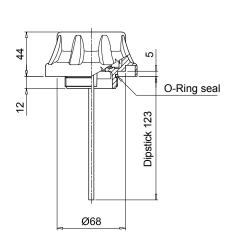
With padlock tab

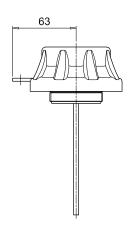




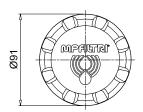
## TAP90

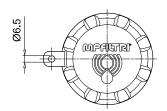
#### Threaded connection Connections [mm] [mm] [mm] [mm] Q G 3/4" G 1 1/2" Н 48.5 8.5 2x15° Μ 3/4" NPT G M 52x2 52.5 2x15° 8.5



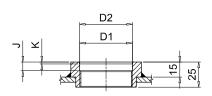


With padlock tab





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



(50)





# TAP 114 series

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



### 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
- Anti-splash, to avoid fluid coming out through the air breather due to sloshing

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

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

		Flow rate [I/min		
	Length	standard	with anti-splash	
TAP114	1	1450	480	
<b>TAP114</b>	3	1600	530	

### **Materials**

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

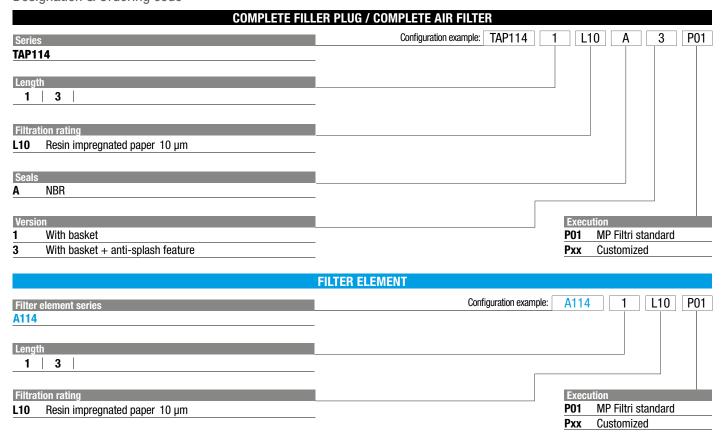
### **Temperature**

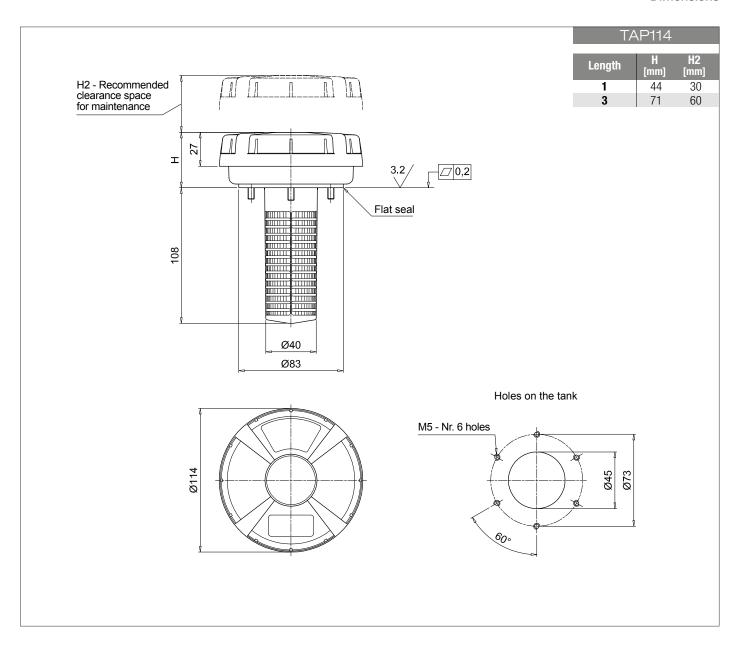
From -25 °C to +100 °C

### Weight

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







## Version with anti-splash feature





# 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 2000	Flow rate [l/min]		
	Filtration rating A03 L10	Filtration ratin	
TABASE U. O. 0450	<b>h 1</b> 1600 2000	1	TAP115 length 1
<b>IAP115 length 2</b> 2150 2150	<b>h 2</b> 2150 2150	2	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**

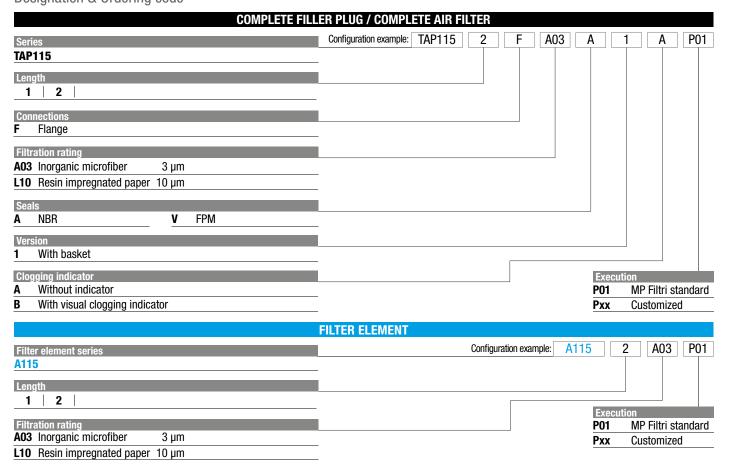
From -25 °C to +100 °C

### Weight

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



### Designation & Ordering code



58

	TAP115  Length   H   H2   [mm]   [mm]   1   91   55   2   155   80
H2 - Recommended clearance space for maintenance  Visual clogging  Flat se	Holes on the tank



### 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 [I/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									
0 g 0	0000	0000									

### **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%

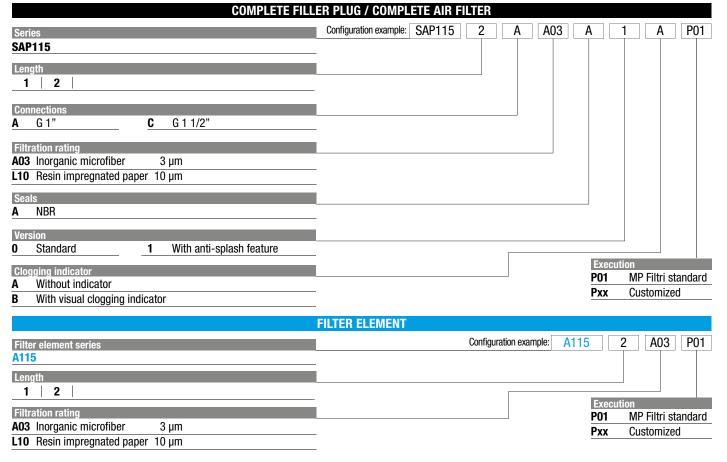
### **Temperature**

From -25 °C to +100 °C

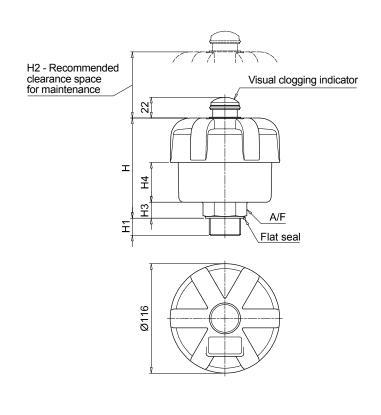
### Weight

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

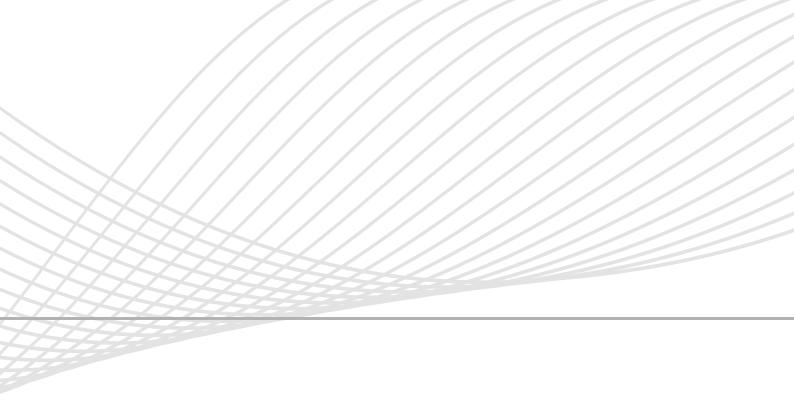




		S	AP118	5			
Length	Connections	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	A/F [mm]
4	Α	106	18	55	17	42	41
ı	С	111	23	55	22	42	55
2	Α	170	18	80	17	106	41
2	С	175	23	80	22	106	55



The filler plugs series is composed by different versions: with breather filter, with dipstick for measuring the reservoir fluid level or with anti-splash fins to prevent spillage of oil from the reservoir to be specifically used on mobile equipments.





# Filler and Drain Plugs



TC 50	page 65
TKT - TSD - TKM	69





# TC 50 series

Polyamide filler plug



# TC 50 GENERAL INFORMATION

### Technical data

### Filler and Drain Plugs

### Polyamide filler plug

TC50 is a range of plastic compact air breathers and filler plugs 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:

- G 1" male threaded connection, with or without nut
- Metal filtration, to hold the coarse contamination contained into the air
- Filling basket, to hold the coarse contamination contained into the fluid and to diffuse the fluid flow into the tank
- Caps with different graphics and colours, for the use in several applications

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Cover: Polyamide
- Filter element: Galvanized steel
- Filler cap: Polyamide
- Strainer: Galvanized steel / Polyamide AISI 304 / Polyamide
- Collar: Polyamide
- Seals: Inorganic fibre
- Ringnut: Phosphatized steel

### **Temperature**

From -25 °C to +100 °C

### Weight

TC 50 G1" conn. 0.70 kg TC 50 with ringnut 0.10 kg

### Quantity

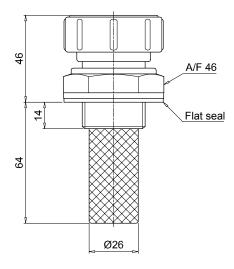
25 pcs/pack

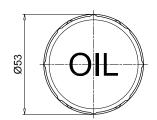


	COI	MPLETE FILLER PLU	IG									
Serie	S	Configuration example :	TC50	G1	LS	90	Р	R	1	0 0	70 F	201
TC50												
0	-11											
G1	ections G 1"											
GA	With ringnut											
UA	With Highlit											
Filtra	tion rating											
L90	Galvanized steel											
Seals												
P	Inorganic fiber											
Cove	colour											
R	Red											
Υ	Yellow											
	wording											
0	Oil											
N	Neutral											
Bask												
S	Without basket										_	
C70	With basket 70 mm - galvanized steel											
<b>170</b>	With basket 70 mm - AISI 304						P(	xecu		Itri stand	dord	
							P		Custo		ıaı u	
							Г	^^	บนอเบ	IIIIZGU		

## TC50

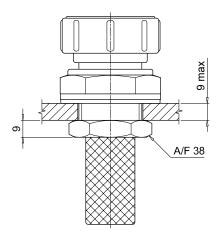
# Threaded connection



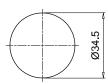


## TC50

# With ringnut



Through hole on the tank





# TKT - TSD - TKM series

Filler and draining plugs



### Technical data

### Filler and draining plugs

### Polyamide filler plug

TKT is a range of polyamide compact filler plugs for 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 G 2"
- Breathing hole, to reduce the pressure inside the filter during the maintenance operations
- Caps with different graphics and colours, for the use in several applications
- Dipstick, to monitor the fluid level into the tank even in complicated positions
- Antisplash, to avoid fluid coming out through the air breather due to sloshing
- Labyrinth filter, to avoid fluid coming out through the air breather due to sloshing

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Body: Polyamide
- Seals: NBR, Inorganic fibre
- Labyrinth: Polyamide
- Anti-splash feature: Resin impregnated paper
- Dipstick: Phosphatized steel

### **Temperature**

From -25 °C to +100 °C

### Weight

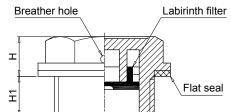
TKTG 13 5 g
TKTG 16 8 g
TKTG 20 10 g
TKTG 26 15 g
TKTG 33 30 g
TKTG 42 32 g
TKTG 60 35 g

### Quantity

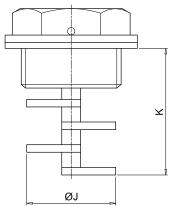
25 pcs/pack

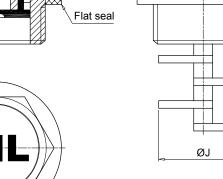


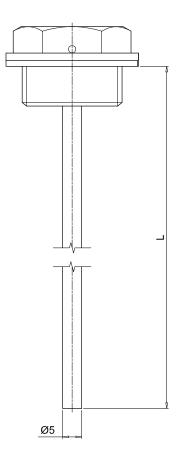
200	ignation a ordering of	<i>,</i> a o															
					COI	MPLETE FILLER PL	UG										
Serie	c	_	_	_	_	Configuration example :	TKT	G26	V	N	J	Α		F		S	P01
TKT	3					3			 i	•		Ť	<u>.                                    </u>	Ť		Ť	
			V	ersion		=											
Conn	ections	S	A	F	L												
G13	G 1/4"	•	•	-	•	_											
G16	G 3/8"	•	•	•	•	<u></u>											
G20	G 1/2"	•	•	•	•	_											
G26	G 3/4"	•	•	•	•	_											
G33	G 1"	•	•	•	-	=											
G42	G 1 1/4"	•	•	•	-	_											
G48	G 1 1/2"	•	•	•	-	=											
G60	G 2"	•	•	-	-	=											
Color																	
N	Black polyamide					_											
Cove	r wording																
0	Oil	N	Neutra	ī													
<u> </u>	Oli			ersion		_											
Seals		S	A	F	L												
Α	NBR	-	•	•	-	-											
В	Inorganic fiber	•	-	-	•	_											
						_											
	ther hole																
S	Without breather hole	F	With br	reather h	ole	=											
Versi	on										Ev	ecu	tion				
S	Standard	F	With a	nti-snlasi	h feature						PO			Filtri	stan	dard	
A	With dipstick	<u>:</u>		byrinth f		-					Px			tomi		uuiu	
	With dipotion	-	with it	wy milli		=						^	ouo	COTTI	20u		



ØD







Connections	ØD [mm]	A/F [mm]	H [mm]	H1 [mm]	ØJ [mm]	K [mm]	L [mm]
G13	20	17	8.5	7.5	-	-	205
G16	22	18	9.5	8.5	13.5	32	206
G20	28	22	9.5	9.5	17.5	33	207
G26	35	27	10.5	10.5	23.5	34	208
G33	42	34	10.5	10.5	29.5	36	201
G42	52	42	11	11	38	38	201
G48	58	47	11	11	38	36	201
G60	74	64	18	18	-	-	198

### Filler / draining plugs

# Polyamide filler plug

TSD is a range of polyamide compact air breathers and filler plugs 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 G 1 1/2"
- Metal filtration, to hold the coarse contamination contained into the air
- Caps with different graphics and colours, for the use in several applications
- Dipstick, to monitor the fluid level into the tank even in complicated positions
- Antisplash, to avoid fluid coming out through the air breather due to sloshing

# **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Body: Polyamide
- Cover: Polyamide
- Seal: NBR
- Filter: Galvanized steel
- Anti-splash feature: Polyamide
- Dipstick: Phosphatized steel

### **Temperature**

From -25 °C to +100 °C

### Weight

TSDG16 15 g

TSDG20 25 g

TSDG26 28 g

TSDG33 60 g

TSDG42 69 g

TSDG48 74 g

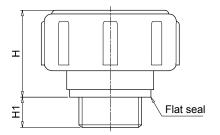
### Quantity

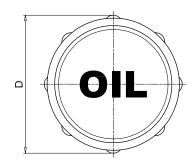
25 pcs/pack



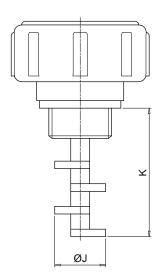
zooignadon a oraoning				CO	MPLETE FILLER PL	UG									
Series					Configuration example :	TSD	G26	;	3	G		Α	F	S	P0
TSD															
Connections			_												
616 G 3/8"	G33	G 1"													
<b>320</b> G 1/2"	G42	G 1 1/4"			_										
<b>G26</b> G 3/4"	G48	G 1 1/2"			_										
<b>120</b> d 3/4	<u>u+0</u>	U 1 1/2			_										
Cover colour															
Red	Υ	Yellow													
	_				_										
Cover wording															
<b>)</b> Oil					<u> </u>										
N Neutral					<u> </u>										
G Gasoil					<u> </u>										
					_										
Seals															
A NBR					=										
Filter element			Cover	wording 0 G											
Without filter element			•	• •											
A Steel filter element			•	• -	<del>-</del>										
					<del>_</del>										
Version															
S Standard					<u> </u>										
A With dipstick					_						Exec	ution			
With anti-splash feature					_						P01			standa	rd
											Pxx	Cus	tomiz	ed	

Version S

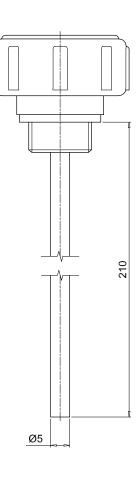




Version F



# Version A



Connections	ØD [mm]	H [mm]	H1 [mm]	ØJ [mm]	K [mm]
G16	36.5	23	8	13.5	34
G20	40.5	23	9	17.5	34
G26	46.5	23	10	23.5	35
G33	52.5	24	11	29.5	42
G42	67.5	31.5	12	38	45
G48	67.5	31.5	11	38	45

# Filler / draining plugs

# Aluminium drain plug

TKM is a range of aluminium compact plugs for draining of the fluid from the systems during the commissioning and maintenance procedures. They are directly fitted on the bottom of the tank.

The integrated magnet holds the ferrous contamination.

# **Available features:**

- Male threaded connections up to G 1"

# **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Body: Aluminium avec insert magnétique
- Seal: Inorganic fibre

# **Temperature**

From -25 °C to +100 °C

### Weight

TKMG13 14 g

TKMG16 23 g

TKMG20 42 g

TKMG26 95 g

TKMG33 98 g

# Quantity

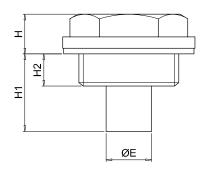
25 pcs/pack

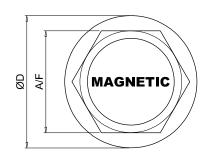


# Designation & Ordering code

D 001	griduori & ordering code					
	CO	MPLETE DRAIN PLUG				
Series		Configuration example : T	KM	G20	В	P01
TKM						
		_				
Conne	ections	ı				
G13	G 1/4"					
G16	G 3/8"					
G20	G 1/2"					
G26	G 3/4"	_				
G33	G 1"	_				
Seals						
В	Inorganic fiber					
		_				
		Ev	kecution			
		PO		Filtri sta	andard	
		Px		stomized		

74)-





Connections	ØD [mm]	A/F [mm]	ØE [mm]	H [mm]	H1 [mm]	H2 [mm]
G13	19	15	9.5	6	11.5	5.5
G16	22	18	8	9.5	13.5	7.5
G20	28	22	10	9.5	15.5	7.5
G26	35	27	12	10.5	20.5	8.5
G33	42	34	25	13	30.5	10.5

### LC

The sight plugs series allow visibility of the fluid contained in the reservoirs, showing the level and also any changes in transparency and emulsion.

# LV

The oil level indicators series is available for both static and mobile applications; the construction materials used make it possible to guarantee service with wide temperature variations and compatibility with all hydraulic fluids.

LVA / LVU level indicators are available with fixing centre distance from 76 to 1000 mm.

These indicators are available in three configurations, with transparent plastic body, with black plastic body and with aluminium body. Fixing to reservoirs with unthreaded holes or with reduced thickness can be achieved using series LCC equipped with expansion kit.



# Visual Oil Level Indicators



LCP - LCC	page 79
LVA - LVU	85



# LCP - LCC series

Visual oil level indicator - round shape



# Visual Oil Level Indicators

### Visual oil level indicator - round shape

LCP is a range of plastic compact fluid level indicators, usually called spy eyes, for monitoring of the fluid level into the tank. They are directly fitted on the tank side.

Housings made of polyamide or steel can be selected, to meet every condition.

### **Available features:**

- Male threaded connections up to G 2"
- Contrast baffle, to allow an easy monitoring of the level
- Special fixing kit, for reliable sealing even in thanks with thin walls

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# T Series Weight

LCPG13 1 g LCPG16 2 g

LCPG20 4 g LCPG26 8 g LCPG33 10 g

LCPG42 12 g

### **Materials**

- Body: Polyamide

- Contrast baffle : Polyamide

- Seals: NBR

# M Series

Weight LCPG20 6 g LCPG26 9 g LCPG33 13 g **Materials** - Body: Aluminium

- Lens: Thermoplastic - Contrast baffle : Polyamide

- Seals: Inorganic fibre

# **N** Series

Weight LCPG13 2g LCPG16 4 g LCPG20 7 g LCPG26 9 g

LCPG30 12 g LCPG33 18 g

LCPG42 25 g LCPG48 48 g LCPG60 59 g

# **Temperature**

From -20 °C to +80 °C

# Quantity

25 pcs/pack

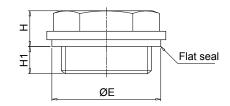
# **Materials**

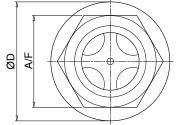
- Body: Polyamide
- Lens: Thermoplastic
- Contrast baffle : Polyamide
- Seals: Inorganic fibre, NBR
- Special fixing kit: Brass, NBR



COMPLETE VISUAL OIL LEVEL INDICATOR											
Series	\$	Configuration example 1 : LCP	G26	N	S	В	S	P01			
LCP		Configuration example 2 : LCP	G42	Т	S	Α		P01			
		Configuration example 3 : LCP	G20	М	С	Α		P01			
	ections Material: N T M	201	u_u_u				Т	10.			
G13	G 1/4" • • -	_									
G16	G 3/8" • • -	-									
G20	G 1/2" • • •	-									
G26 G33	G 3/4" • • • • • • • • • • • • • • • • • • •	=									
	0.4.4/49	=									
G42 G48	G 1 1/4" • • G 1 1/2" •	-									
G60	G 2" •	=									
uou	42	-									
Mater	rial										
N	Black Polyamide <b>T</b> Transparent polyamide	M Aluminium									
Contr	Material:   N     N     State   State   N     State   State	T	M								
S	Without contrast baffle • • • • • •	• • • • • • • •	-								
C	With contrast baffle - • • • •	• • • •	•								
	Material: N	Т	M								
Seals	Expansion kit: SK										
A B	Inorganic fiber -	• -									
U	morganic niber	<del>-</del>									
	Material: N	T	M								
Speci	al fixing kit Connection: G13   G16   G20   G26   G33   G42	G48 G60			cution						
S	Without special fixing kit • • • • •	• •	-	P01			andard				
K	With special fixing kit • • •	•	-	Pxx	Cust	omize	b				

# LCP - N





G13 G16 G20 G26

**G33** 

G42

G48

42

52

58

41

51

53.5

without expansion kit											
tions	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [mm]						
	20	18.5	17	9	7						
	22	21.5	18	10	7						
	28	26	22	10	7						
	35	32	27	10.5	8						

34

42

47

13.5

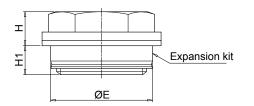
14

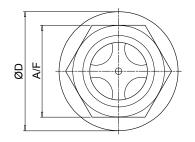
16

10.5

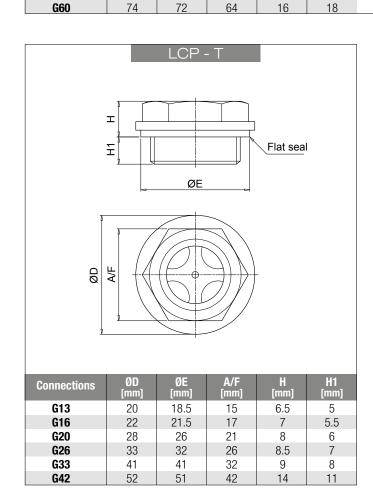
11

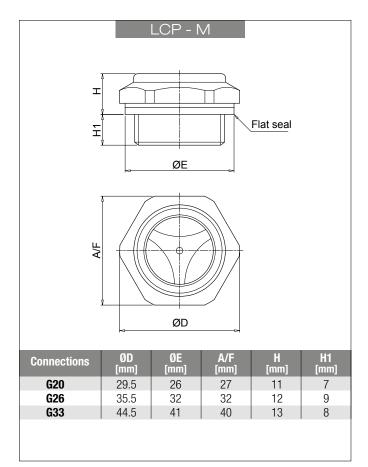
11





with expansion kit											
Connections	ØD         ØE         A/F         H         H           [mm]         [mm]         [mm]         [mm]										
G20	28	26	22	9	8						
G26	35	30	27	10	8.5						
G33	42	40	34	13	11						
G42	52	50	42	13.5	11.5						
G48	58	55	47	15.5	11.5						
<del></del>			47								





# Visual Oil Level Indicators

### Visual oil level indicator - round shape

LCC is a range of plastic compact fluid level indicators, usually called spy eyes, for monitoring of the fluid level into the tank. They are directly fitted on the tank side.

The special shape of the screen allows the monitoring of the fluid level from every position.

### **Available features:**

- Male threaded connections up to G 2"
- Expansion kit, for reliable sealing even in thanks with thin walls

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **N Series**

Weight **Materials** LCCG26 7 g - Body: Polyamide LCCG42 20 g - Lens: Polyamide

LCCG60 40 g - Contrast screen: Polyamide

- Seals: Inorganic fibre, NBR - Expansion kit: Brass / NBR

# **T Series**

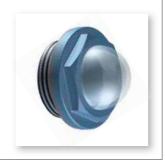
Weight **Materials** LCCG16 2g - Body: Polyamide LCCG20 4 g LCCG33 9 g - Seals: NBR

### **Temperature**

From -20 °C to + 80 °C

# Quantity

25 pcs/pack

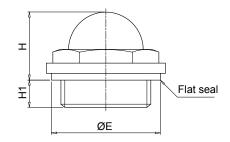


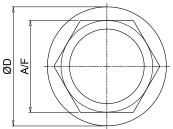
Customized

			COM	2 FTE	SUAL OIL LEVEL INDICATORS				
Serie	3				Configuration example 1 :	LCC	G20	N A	K
LCC					Configuration example 2 :	LCC	G33	ТА	
									T
	ections	Mater	ial: N	T					
G13	G 1/4"		-	-					
G16	G 3/8"		-	•					
G20	G 1/2"		•	•					
G26	G 3/4"		•	•					
G33	G 1"		•	•					
G42	G 1 1/4"		•	-					
G48	G 1 1/2"		•	-					
360	G 2"		•	-					
Matei N	Black polyamide <b>T</b>	Transp	parent poly	/amide					
Seals	Material: Expansion kit:	le k		T					
<u> </u>	NBR	- •		•					
<u>.</u> В	Inorganic fiber	• -							
		-							
	Material:	N		T_					
	sion kit Connection: G20 G26	G33 G42	G48 G60						
S	Without expansion kit • • With expansion kit • •	• •	• •	-					
K			• -						

# LCC - N

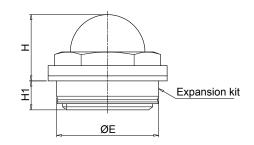
# without expansion kit

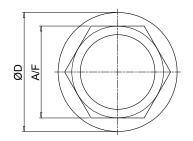




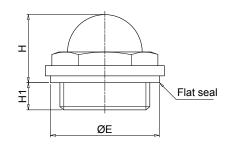
Connections	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [mm]
G20	28	26	22	17.5	17.5
G26	35	32	27	20	8
G33	42	41	34	24	10
G42	52	51	44	30	11
G48	58	53.5	50	33	11.5
G60	74	72	64	39	18

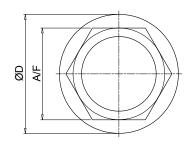
# with expansion kit





Connections	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [mm]
G20	28	26	22	16.5	8.5
G26	35	30	27	19.5	8.5
G33	42	40	34	23.5	10.5
G42	52	50	44	29.5	11.5
G48	58	55	50	32.5	12
	•				





Connections	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [mm]
G13	19	18.5	15	12.5	5
G16	21.5	21.5	17	14	5.5
G20	27	26	21	16.5	6
G26	33	32	26	19	7
G33	40	41	32	22.5	8



# LVA - LVU series

Visual oil level indicator - vertical shape



# Visual Oil Level Indicators

# Oil level indicator - vertical shape

LVA is a range of plastic compact fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank side. The fluid comes in through the lower connection screw and it is easily visible through the screen.

A white background plate, an orange line for the minimum level and a blue line for the maximum level allow an easy monitoring of the level.

### **Available features:**

- Several male threaded connections, with or without nuts
- Three different sizes, to meet every size of tank
- Thermometer, to check the temperature of the fluid

# **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Body: Transparent amorphous polyamide lens
- Polyamide guard
- Seal: NBR / FPM

# **Operating pressure**

Max 1 bar at +80°C

### **Temperature**

From -25 °C to +80 °C

### Weight

LVA 10 0.13 kg LVA 20 0.18 kg LVA 30 0.23 kg

# Quantity

10 pcs/pack



# Designation & Ordering code

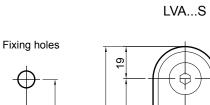
2 001	ghanon a ordering oddo										
	COMPLETE	VISUAL OIL LEVEL INDICAT	ORS								
Series		Configuration example :	LVA	20		Т		Α	Р	M1	0 S01
LVA								Т			
		-									
Size		l									
10	20   30										
		-									
Thorn	nomotor	I									
S	nometer Without thermometer										
<u>т</u>	With thermometer	=									
-	With the monteter	=									
01-											
Seals A	NBR										
-		-									
V	FPM	=									
	material Polynomide										
Р	Polyamide	-									
	ections M10										
M10 M12	M10 M12	-									
U38	3/8" UNC	-									
U12	G 1/2" UNC	-		Exec S01			ID E	ltri 14	ith ru	ito	
UIZ	U I/Z UNU	-		S02					ith nu	nuts	
				302	- I	ay IV	IF FI	ıuı, W	ııııouı	เทนเร	

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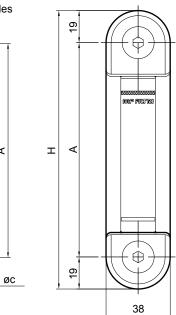


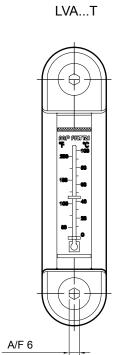
	LVA	
Size	A [mm]	H [mm]
LVA10	76	114
LVA20	127	165
LVA30	254	292

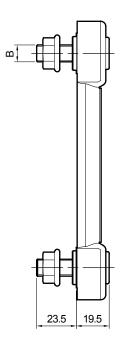
Туре	B [mm]	C [mm]
LVAM10	M10	10.5
LVAM12	M12	12.5
LVAU38	3/8" UNC	10.0
LVAU12	1/2"UNC	13.5



⋖







# Visual Oil Level Indicators

### Oil level indicator - vertical shape

LVU is a range of plastic fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank side.

The fluid comes in through the lower connection screw and it is easily visible through the screen.

A background plate, a red float and the adjustable minimum level and maximum level indicators allow an easy check of the level.

### **Available features:**

- G 3/8" male threaded connections
- Adjustable size on request, to meet every size of tank
- Drain valve, to drop the oil for the maintenance procedures
- Glass screen and "U" protection, to meet heavy duty applications

# **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

### **Materials**

- Head: Polyamide
- Connection G 3/8": Nickel plated brass
- G 3/8" valve: Steel
- Seal: NBR, FPM
- Pipe: Borosilicate glass, Acrylic
- Float: Polyamide
- Protection: Aluminium
- Clamps min-max: Polyamide

### **Temperature**

From -25 °C to +70 °C

### Weight

 Series
 version U
 version S

 LVU 0500
 0.780 kg
 0.580 kg

 LVU 1000
 1.150 kg
 0.790 kg

 LVU 1500
 1.550 kg
 1.100 kg

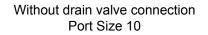
 LVU 2000
 1.950 kg
 1.400 kg

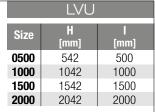


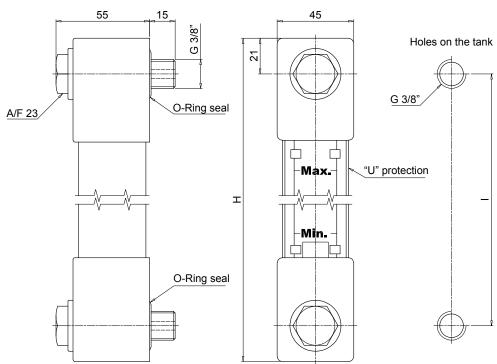
# Designation & Ordering code

			COMF	PLETE V	VISUAL	OIL LEVEL INDICATORS					
Serie						Configuration example :	LVU	0500	U	4	10 P01
LVU									$T^{T}$		
Size											
0500	Distance between center = 500 mm										
1000	Distance between center = 1000 mm										
1500	Distance between center = 1500 mm										
2000	Distance between center = 2000 mm										
Differe	ent sizes on request										
			Siz	ze							
Body		500	1000	1500	2000						
S	Standard plexiglass	•	•	•	•	-					
U	Plexiglass, with "U" protection	•	•	•	•	-					
Р	Borosilicate glass, with "U" protection	•	•	•	-	-					
Seals											
Α	NBR					-					
V	FPM					=					
	ections										
10	G 3/8"					<del>-</del>					
20	G 3/8", with drain valve					=		Exe	cution		
								P01	MP Fil	tri stano	lard
								Рхх	Custor	nized	

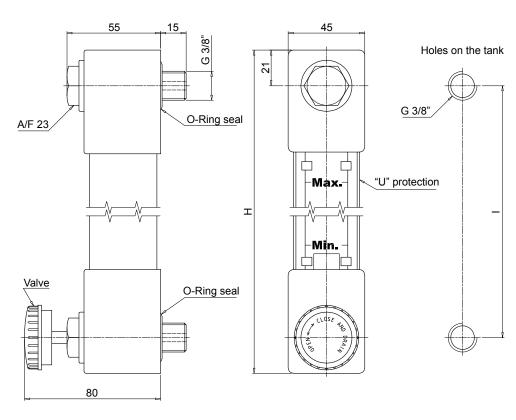
88







# With drain valve connection Port Size 20



Electromagnetic float level indicators use the action of a magnet fixed to the float to change the electrical status of a reed switch mounted inside the tube.

As the fluid level in the tank changes, the float moves together with the magnet that, connected with the reed switch, move the contacts thereby tripping an alarm signal.

The movement of the float is normally limited by mechanical stops because once the magnet exceeds the point at which it activates the reed switch, the switch reverts to its original status.

To invert the contact status from N.O. to N.C. and vice versa, it is sufficient to invert the float.



# Electrical Oil Level Indicators



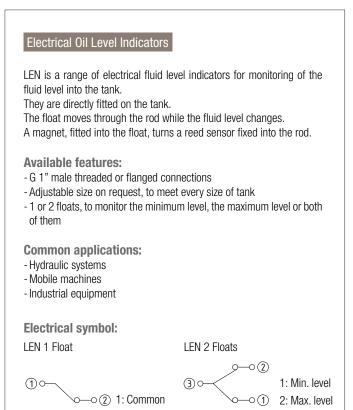
LEN - LEG - LET - LEM - LEU page 93



# LEN - LEG - LET - LEM - LEU series

**Electrical oil level indicators** 





### **Materials**

- Flange/Threaded body: Aluminium
- Tube: Brass
- Float: Polyamide foam
- O-Ring: NBR
- Circlip: Phosphor bronze
- Contact: N.C. (Normally Closed)

### **Electrical data**

- Protection rating: IP65
- Max switching capacity: 80 W
- Max switching current: 1 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

### **Temperature**

From -15 °C to + 80 °C

# Weight

3: Common

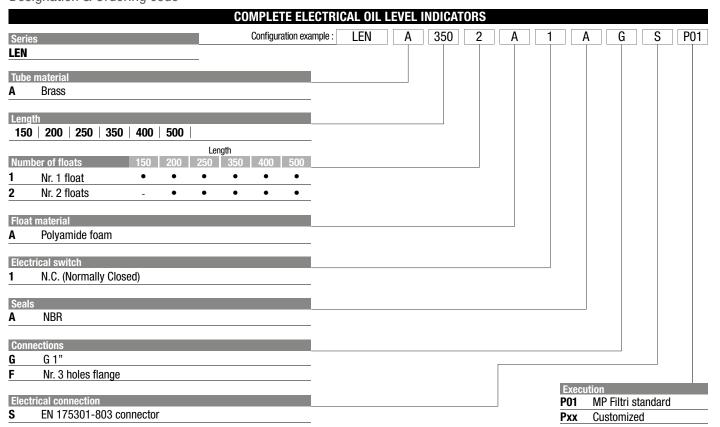
LEN 1 float 0.185 kg LEN 2 floats 0.230 kg

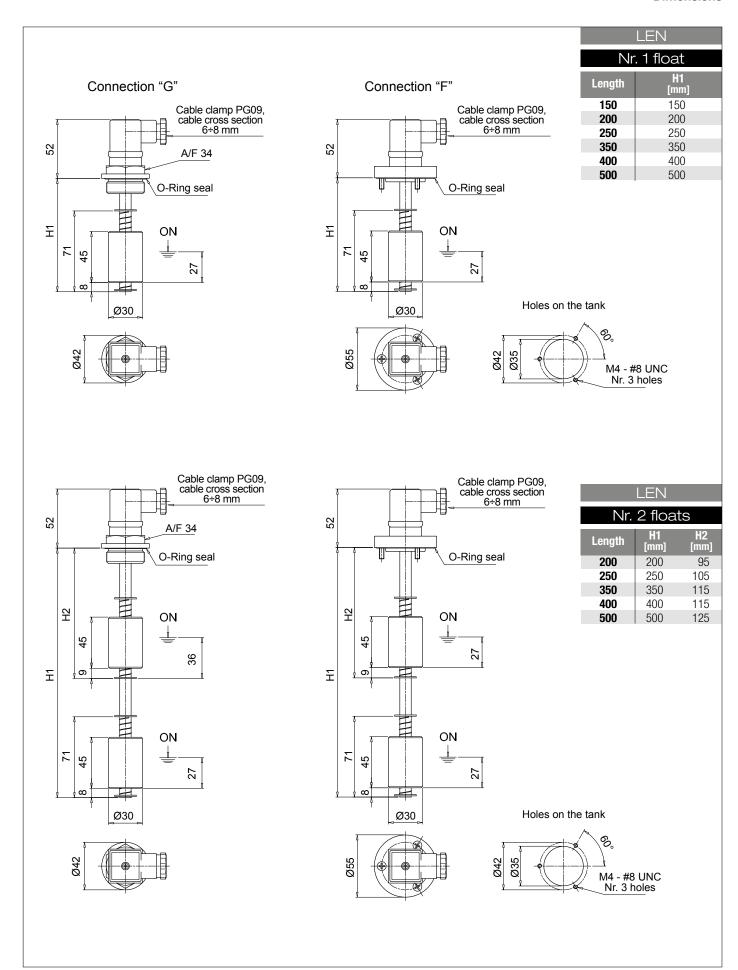


# Designation & Ordering code

simply invert the float.

Note: to invert the contact status from NC to NO and vice versa,





# Electrical Oil Level Indicators

LEG is a range of electrical fluid level indicators for monitoring of the fluid level into the tank.

They are directly fitted on the tank side.

The float moves through the rod while the fluid level changes.

A magnet, fitted into the float, turns a reed sensor fixed into the rod.

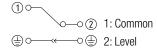
### **Available features:**

- Flanged connections
- Adjustable size on request, to meet every size of tank
- Floating monitor for oil level check

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# **Electrical symbol:**



**Note:** to invert the contact status from NC to NO and vice versa, simply invert the float.

### **Materials**

- Flange/Threaded body: Aluminium
- Tube: Brass
- Float: Polyamide foam
- O-Ring: NBR
- Circlip: Phosphor bronze
- Contact: N.C. (Normally Closed)

### **Electrical data**

- Protection rating: IP65
- Max switching capacity: 80 W
- Max switching current: 1 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

The electrical properties indicated are referred to resistive loads; for capacitive and inductive loads and incandescent lamps, use protection circuits.

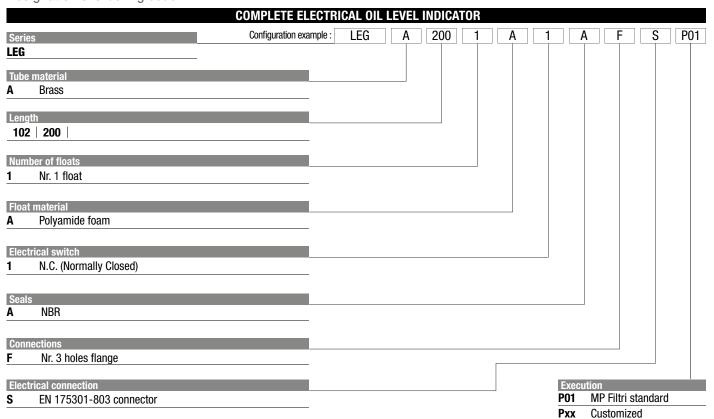
### **Temperature**

From -15 °C to + 80 °C

### Weight

LEG A 102 0.19 kg LEG A 200 0.22 kg

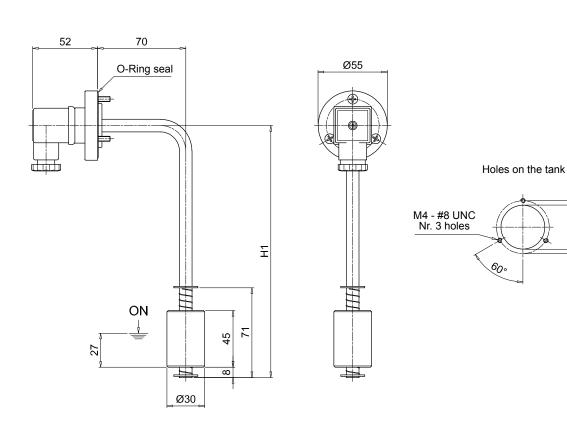






LE	EG
Size	H1 [mm]
<b>LEG 102</b>	103
LEG 200	200

Ø35 Ø42





# Electrical Oil Level Indicators

LET is a range of electrical fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank. The float moves through the rod while the fluid level changes. A magnet, fitted into the float, turns a reed sensor fixed into the rod. The integrated thermostat allows to get a remote monitoring of the temperature.

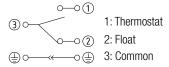
### **Available features:**

- G 1" male threaded or flanged connections
- Adjustable size on request, to meet every size of tank
- Floating monitor for oil level check

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# **Electrical symbol:**



**Note:** to invert the contact status from NC to NO and vice versa, simply invert the float.

### **Materials**

- Flange/Threaded body: Aluminium
- Tube: Brass
- Float: Polyamide foam
- O-Ring: NBR
- Circlip: Phosphor bronze
- Contact: N.C. (Normally Closed)

### **Electrical data**

- Protection rating: IP65
- Max switching capacity: 80 W
- Max switching current: 1 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

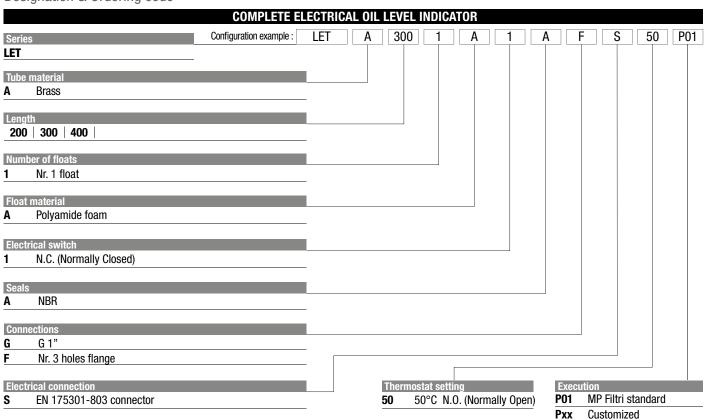
### **Temperature**

From -15 °C to +80 °C

### Weight

LET A 200 0.20 kg LET A 300 0.23 kg LET A 400 0.28 kg

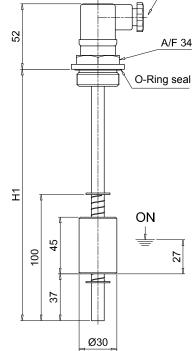


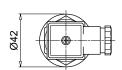


LE	ΞT
Length	H1 [mm]
200	200
300	300
400	400

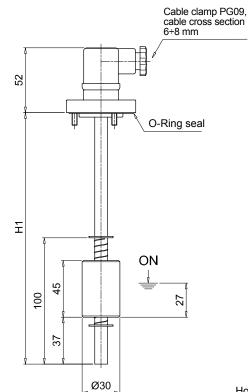
# Connection "G"



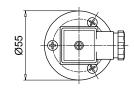


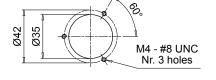


# Connection "F"



Holes on the tank





# Electrical Oil Level Indicators

LEM is a range of electrical fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank. The float moves through the rod while the fluid level changes. A magnet, fitted into the float, turns a reed sensor fixed into the rod. The setting point is adjustable on site, with few easy actions.

### **Available features:**

- Flanged connections
- Adjustable size to meet every size of tank
- Floating monitor for oil level check
- Integrated thermostat, to get a remote monitoring of the temperature

# **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# **Electrical symbol:**

LEM without thermostat

**Note:** to invert the contact status from NC to NO and vice versa, simply invert the float.

### **Materials**

- Flange/Threaded body: Aluminium
- Tube: Brass
- Float: Polyamide foam
- O-Ring: NBR
- Circlip: Phosphor bronze
- Float contact: N.C. reed, N.O. (on request)
- Thermostat contact: N.O., N.C. (on request)

### **Electrical data**

- Protection rating: IP65
- Max switching capacity: 80 W
- Max switching current: 1 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

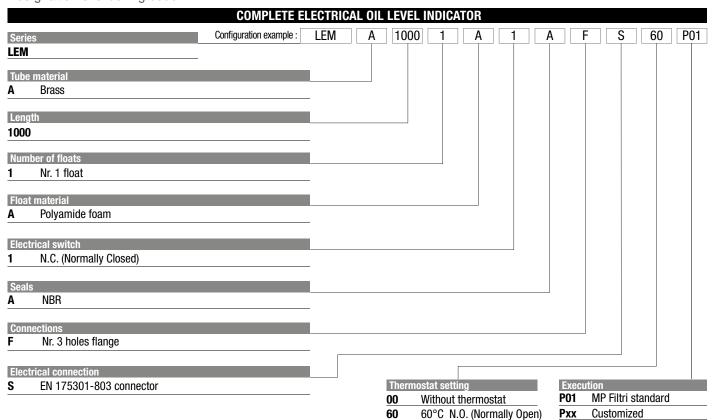
### **Temperature**

From -15 °C to +80 °C

Weight

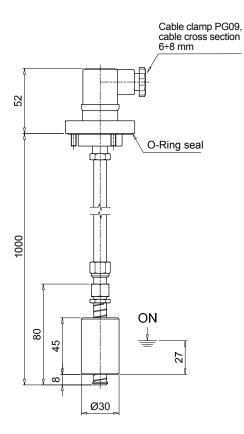
LEM 0.406 kg





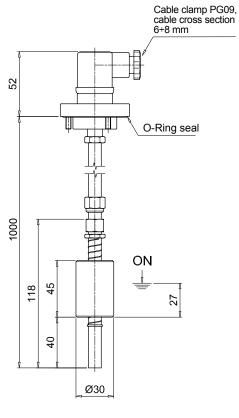
# LEM

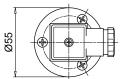
# Without thermostat



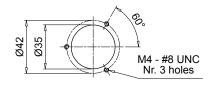
**Ø**22

# With thermostat





# Holes on the tank



# Electrical Oil Level Indicators

LEU is a range of electrical fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank. The float moves through the rod while the fluid level changes. A magnet, fitted into the float, turns a reed sensor fixed into the rod. The setting point is adjustable on site, with few easy actions. They are made of stainless steel, to meet every heavy duty application.

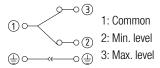
### **Available features:**

- Flanged connections
- Setting size for each tank type
- Double Floating monitor for oil level check

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# **Electrical symbol:**



Note: to invert the contact status from NC to NO and vice versa, simply invert the float.

### **Materials**

- Flange / Threaded body: Aluminium
- Tube: AISI 304
- Float: NBR, AISI 316 (on request)
- O-Ring: NBR
- Circlip: AISI 304
- Float contact: N.C. reed, N.O. (on request)

### **Electrical data**

- Protection rating: IP65
- Max switching capacity: 50 W
- Max switching current: 0.5 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

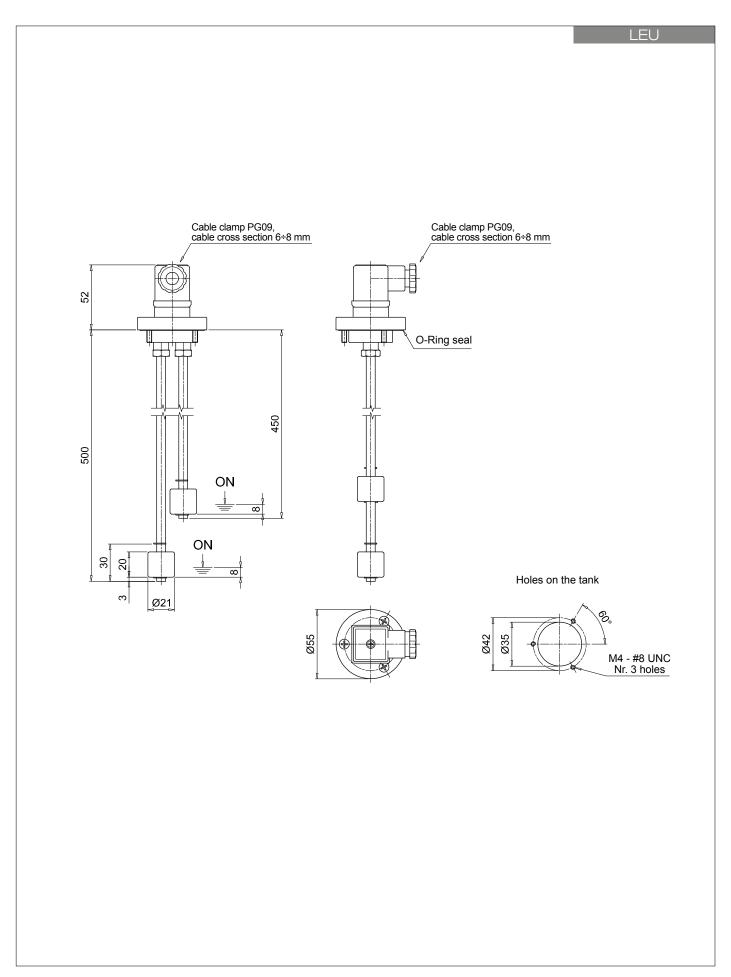
### **Temperature**

From -15 °C to + 80 °C





		<b>COMPLETE EL</b>	ECTRICAL OII	LEVEL	INDIC/	ATOR						
Serie	S	Config	uration example :	LEU	В	2	В	1	Α	F	S	P01
LEU			,				 Π		T			
Tubo	material		I									
В	AISI 304											
			-									
	oer of floats											
2	Nr. 2 floats		<del>.</del>									
Float	material		I									
В	NBR						J					
			-									
Elect	rical switch											
1	N.C. (Normally Closed)											
Coole			ı									
Seals A	NBR											
			-									
	ections											
F	Nr. 3 holes flange		-									
			ı									
S	rical connection EN 175301-803 connector											
<u> </u>	LIN 173301-003 CONNECTOR		-									
								Exe	cution			
								P01			standa	rd
								Pxx	Cus	stomiz	zed	





# LVK series

**Electrical and visual oil level indicator** 



# Electrical Oil Level Indicators

LVK is a range of electrical and visual fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank side. The float moves through the indicator housing while the fluid level changes.

### **Available features:**

- Several male threaded connections
- Three different sizes, to meet every size of tank
- Thermometer, thermostat or PT100, to check the temperature of the fluid

### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial equipment

# **Electrical symbol:**

see page. 108

### **Materials**

- Head: Polyamide
- Screws: Nickel plated brass (standard), AISI 314 (optional)
- Seal: NBR (standard)
- Float: Polyamide
- Sensor thermometer: Screw + thermometer

### **Temperature**

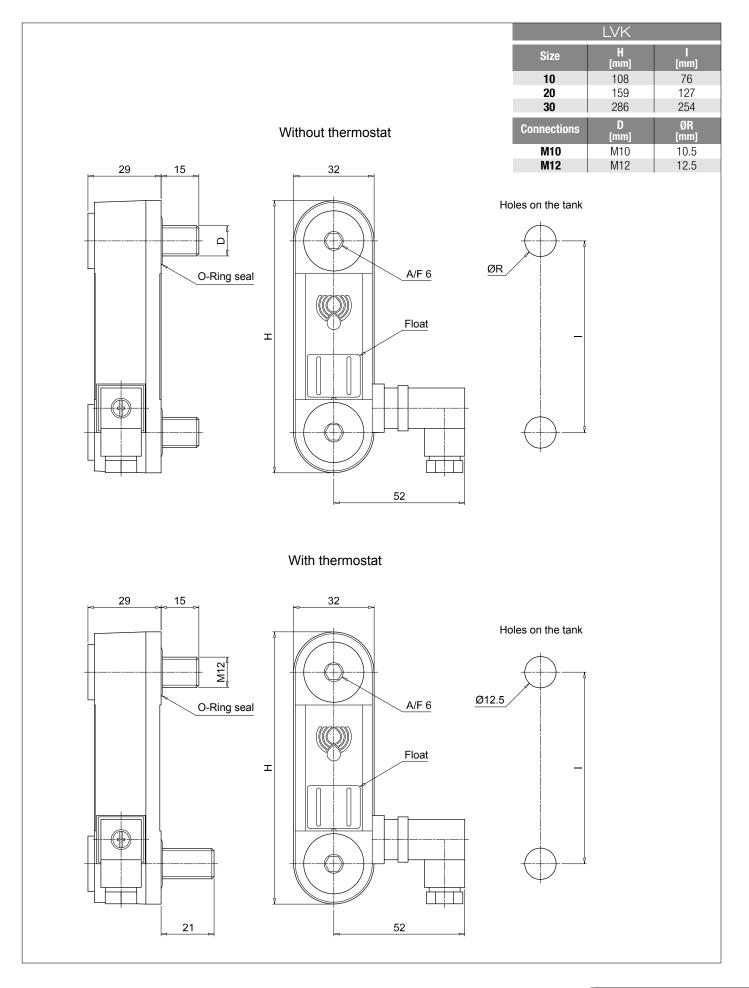
From -20 °C to + 80 °C

# Weight

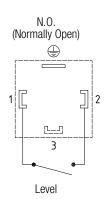
LVK 10 0.140 kg LVK 20 0.170 kg LVK 30 0.250 kg

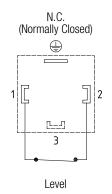


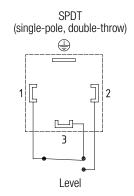
		COMPL	ETE E	LECTRIC	CAL AND VISUAL OI	L LEVEL	INDIC	ATOR	S							
Series	;				Configuration example :	LVK	20		A	M1	2	1	Ţ		5	P01
LVK		_														
Lengt					L											
10	20   30				=											
Seals					L											
Α	NBR				=											
Conne	ections															
M10	Screws M10 M12	Screws	M12		=											
Electr	ical switch in absence of fluid															
1	N.O. (Normally Open)				_											
2	N.C. (Normally Closed)				_											
3	SPDT (single-pole, double throw)															
		(	Connectio													
Versio		M10		M12												
S	Standard	•		•	=											
<u> </u>	With thermostat	-		•	=											
P	With PT100 sensor	-		•	=											
Thorn	nostat setting	e	Version	D	ı											
S	Standard (no setting)	•		•											J	
1	50°C N.O. (Normally Open)	-	•	_	-											
2	60°C N.O. (Normally Open)	-	•	-	_											
3	70°C N.O. (Normally Open)	-	•	-	=											
5	50°C N.C. (Normally Closed)	-	•	-	<del>-</del>						Eve	cution				
6	60°C N.C. (Normally Closed)	-	•	-	=						P01		Filtri	stand	dard	
7	70°C N.C. (Normally Closed)	-	•	-	_						Рхх		stomi			
-	to a time (terminally electric)				=							- Ou	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

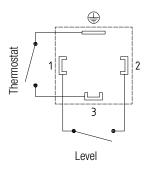


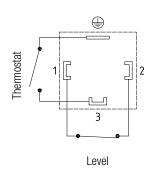
#### Electrical symbols

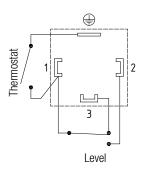


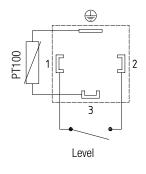


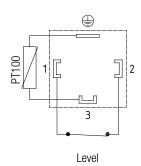


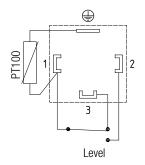














EM1 & SVM gauge isolator valves are designed to protect pressure gauges from pressure shocks when the pressure reading is not required.

FTA/FTR flanges make it possible to fix suction and return lines on the reservoir cover.

MULTIFIX fixing clamps make it possible to install various pipelines of different types and diameters, rapidly, easily, and, more importantly, economically.



# Accessories



EM1	page 113
SVM	119
FTA - FTR	123
MULTIFIX SFT	127



## EM1 series

**Pressure gauge isolator** 



#### Technical data

#### Accessories

#### Pressure gauge isolator

Gauge isolator valves are designed to protect pressure gauges from pressure shocks when the pressure reading is not required; after each reading setting the selector to the closed position serves to depressurise the pressure gauge by means of the T fitting connected to the reservoir.

#### **Working instructions:**

- Button not pressed: pressure gauge isolated
- Button pressed: pressure gauge reading
- Button pressed and turned (either to left or right): button remains in position and pressure gauge measures pressure continuously.
- To isolate the pressure gauge from pressure reading, turn the button until it returns to the not pressed position.

#### **Materials A-B**

- Body: Cast iron
- Pin: Steel
- Seals: NBR
- Knob/cover: Polyamide
- Stop ring: Steel
- Spring: Steel
- Nameplate: Aluminium
- Nut-screw: Galvanized steel

#### **Operating pressure**

400 bar

#### **Operating temperature**

From -25 °C to + 100 °C

#### Weight

EM1 version A 0.41 kg EM1 version B 0.44 kg EM1 version C 1.00 kg

#### **Materials C**

- Body: Cast iron
- Pin: Steel
- Seals: NBR
- Knob/cover: Polyamide
- Stop ring: Steel
- Spring: Steel
- Nameplate: Aluminium
- Nut-screw: Galvanized steel
- Plug: Anodized steel

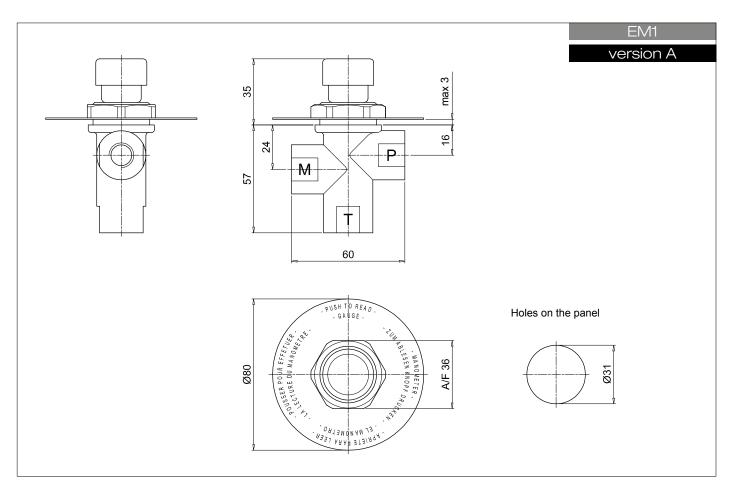


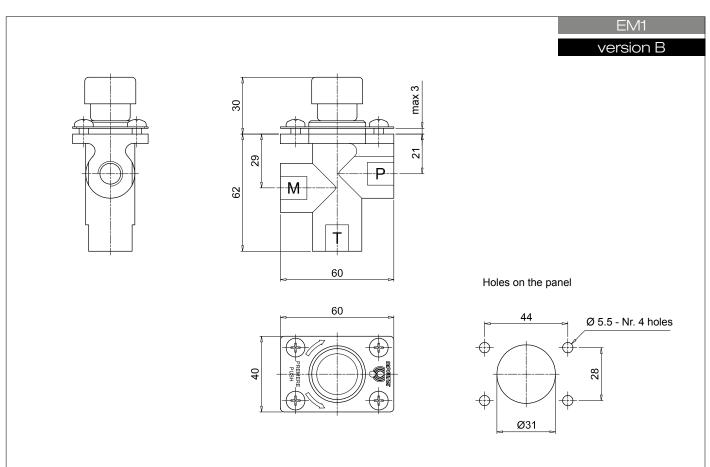
#### Designation & Ordering code

COMI	PLET PRE	SSURE	-GAUGE ISC	<b>LATOR</b>				
Series				Configuration example :	EM1	Α	G2 A	P01
EM1								
Version	G1	G2						
A Threaded connections, panel mount with hex nut	•	•	_					
B Threaded connections, panel mount with screws	•	-	_					
C Manifold/threaded connections, panel mount with screws	•	-	=					
Connection								
<b>G1</b> G 1/4"							_	
<b>G2</b> 1/4" NPT			=					
			_					
			_					
A NBR			_					
Evecution								
Pxx Customized			-					
Seals A NBR  Execution P01 MP Filtri standard			- - - -					



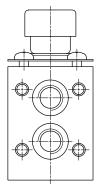


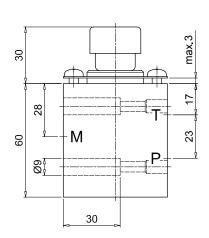


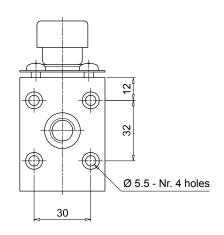


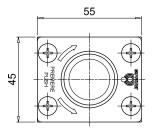
EM1

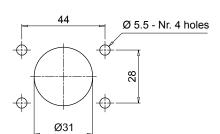
#### version C











Holes on the panel





## SVM series

**Gauge selector valve** 



### SVM GENERAL INFORMATION

#### Technical data

#### Accessories

#### **Gauge selector valve**

Gauge isolator valves are designed to protect pressure gauges from pressure shocks when the pressure reading is not required; after each reading setting the selector to the closed position serves to depressurize the pressure gauge by means of the T fitting connected to the reservoir.

#### **Working instructions:**

- Knob not pressed: pressure gauge isolated
- Knob pressed: pressure gauge reading
- Knob pressed and turned: the knob remains in position and pressure gauge measures pressure continuously.
- To isolate the pressure gauge from pressure reading, turn the button until it returns to the not pressed position.

#### **Materials**

- Body: Cast iron
- Pin: Steel
- Seals: NBR
- Cover: Anodized aluminium
- Flange: Anodized aluminium
- Knob: Polyamide
- Ringnut: Polyamide
- Nut-screw: Galvanized steel, Phosphatized steel

#### **Operating pressure**

400 bar

#### **Operating temperature**

From -25 °C to + 100 °C

#### Weight

SVM version 3 1.547 kg SVM version 6 1.507 kg

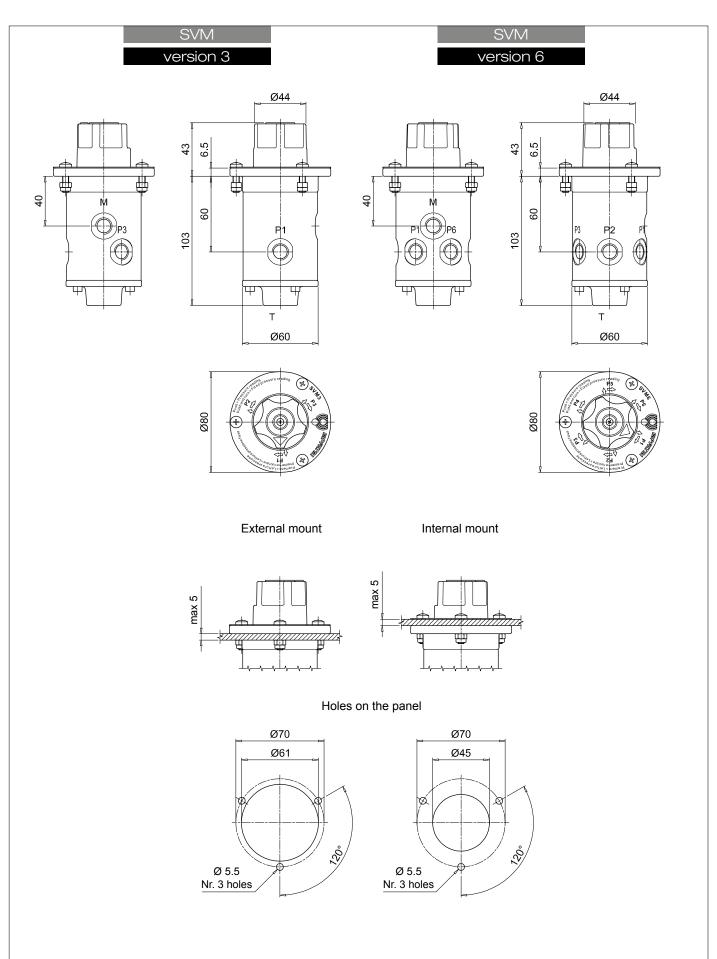


#### Designation & Ordering code

COMP	LETE GAUGE ISOLATOR VALVE
Series	Configuration example : SVM 3 G1 A P01
SVM	
Version	_
3 Nr. 3 pressure ports	
6 Nr. 6 pressure ports	
	_
Connection	
<b>G1</b> G 1/4"	
Seals	
A NBR	
Execution	
P01 MP Filtri standard	
Pxx Customized	



(120)





## FTA -FTR series

Oil tank fixing flange



### FTA - FTR GENERAL INFORMATION

#### Technical data

#### Accessories

#### Oil tank fixing flange

FT flanges make it possible to fix suction and return lines on the reservoir cover.

Fitting a flexible insert allows separation of pipes.

Both rigid pipes and flexible hoses can be separated from the reservoir walls, absorbing vibration and reducing plant noise emissions.

#### **Operating temperature**

From -25 °C to + 100 °C

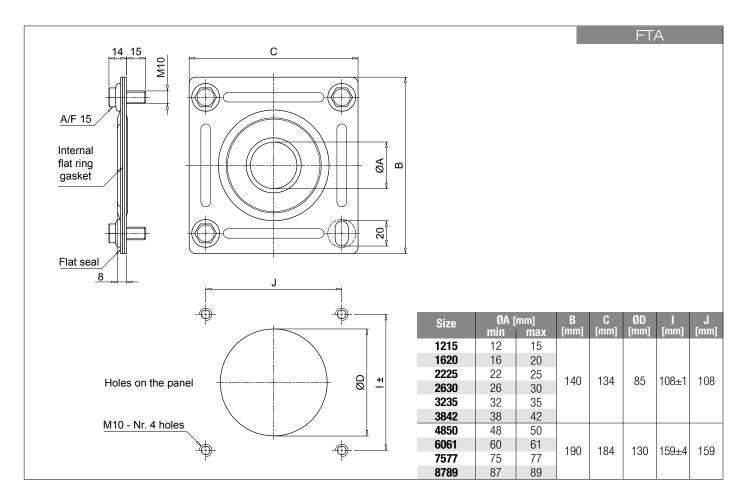
#### **Materials**

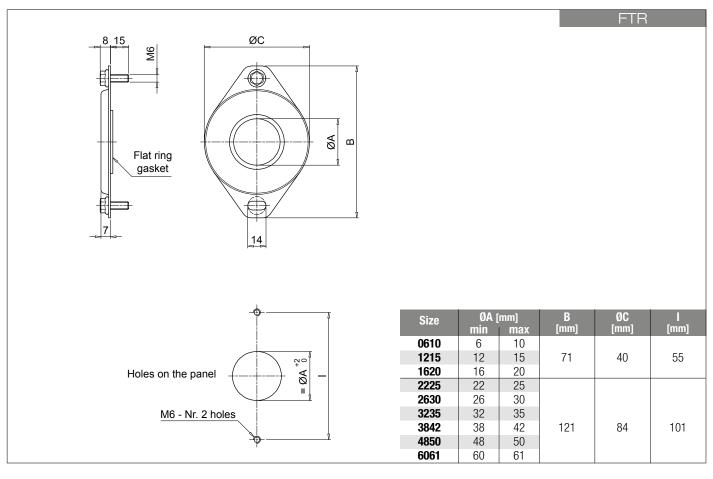
- Flange: Galvanized steel
- Flange seal: Inorganic fibre

- Tube seal: Inorganic - Tube seal: NBR - Screw: Galvanized stee	
Weight FTA  FTA 1215	Weight FTR  FTR 0610

#### Designation & Ordering code

				COMPLET	TE OIL TANK FI	XING FLANGE						ľ
Series					1		ration example :	FTA	2630	G	Α	
FTA		FTR			_							
Size	D: 000 10		FTA	FTR								
0610	Pipe Ø06 ÷ 10 mm		-	•	_							
1215	Pipe Ø12 ÷ 15 mm		•	•	_							
1620	Pipe Ø16 ÷ 20 mm		•	•	_							
2225	Pipe Ø22 ÷ 25 mm		•	•	_							
2630			•	•	_							
3235	Pipe Ø32 ÷ 35 mm		•	•	_							
3842	•		•	•	_							
1850			•	•	=							
6061	Pipe Ø60 ÷ 61 mm		•	•	=							
7577			•	-	=							
3789	Pipe Ø87 ÷ 89 mm		•	-	_							
Flanc	e seals		FTA	FTR								
3	Inorganic fiber		•	-								
)	Without seal		-	•	_							
D:												
Pipe s												
A	NBR				_							
Execu	tion											
P01	MP Filtri standard											
Рхх	Customized				_							





(126)



## MULTIFIX SFT series

**Fixing clamps** 



#### Technical data

#### Accessories

#### **Fixing clamps**

MULTIFIX fixing clamps are particularly suitable when a series of pipelines must be installed requiring neat and high precision installation. These brackets make it possible to install various pipelines of different types and diameters, rapidly, easily, and, more importantly, economically.

MULTIFIX clamps support, guide, and absorb impact and vibration, protecting the pipes and dispensing with the need for complex and unsightly mounting systems with angle clamps etc.

An orderly layout facilitates maintenance resulting in significant savings in running costs; it also allows intuitive visual design of the plant, which can be assembled easily even without specialised labour.

#### **Materials**

- Pair of brackets: Galvanized steel
- Bush: NBR
- Spacer: Steel
- Studs: Steel
- Screws: Steel
- Foot and screw: Steel

#### Weight

SFT 38 1 0.050 kg SFT 51 1 0.100 kg SFT 78 1 0.570 kg

#### **Operating temperature**

From -25 °C to + 100 °C



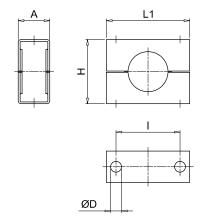
#### Designation & Ordering code

				CON	MPLETE FIXING CLAMP
Serie					Configuration example : SFT 51 19 P01
SFT					
01					
Size					
38	Height 38 mm - 1 1/2"				_
51	Height 51 mm - 2"				
78	Height 78 mm - 3"				-
Num	ber of pipe	38	51	78	
1	Single pipe	•	•	•	
16	Nr. 16 pipes	-	-	•	_
19	Nr. 19 pipes	-	•	-	_
26	Nr. 26 pipes	•	-	-	_
Exec	ution				
P01	MP Filtri standard				_
Pxx	Customized				_

128

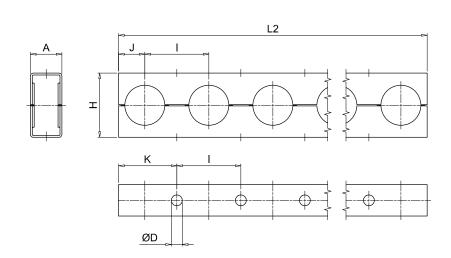
SFT

Single pipe



SFT

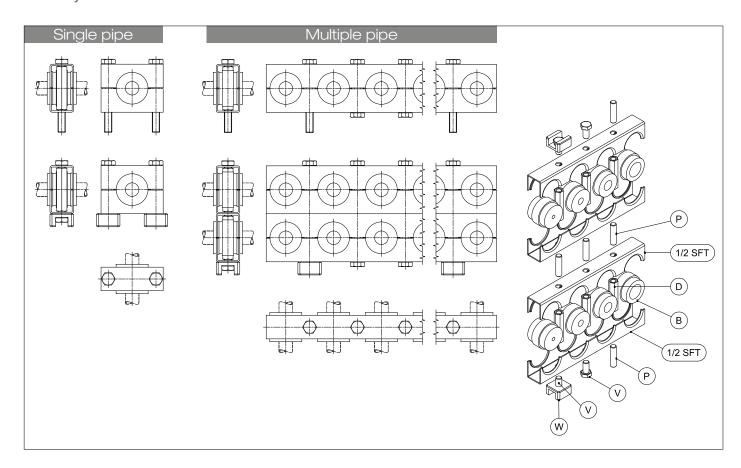
Multiple pipe

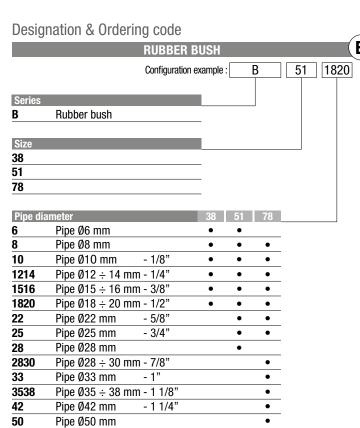


Size	A [mm]	ØD [mm]	H [mm]	l [mm]	J [mm]	K [mm]	L1 [mm]	L2 [mm]
38	25	8.7	38	38.1	15	34	56	982
51	25	8.7	51	50.8	21	46	66	956
78	41	11.1	78	76.2	35	73	95	1213

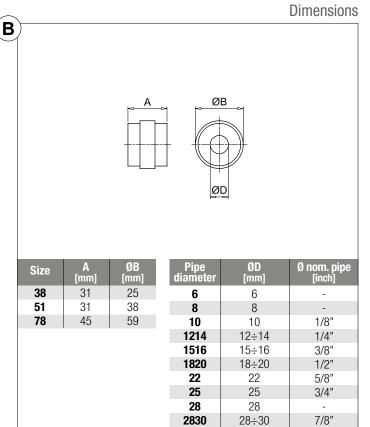
### SET MUI TIFIX

#### Assembly





(130)



33 3538

42

50

33

35÷38

42

50

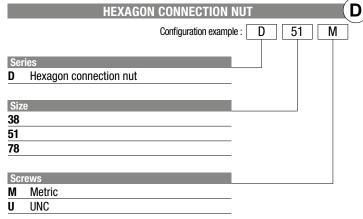
1"

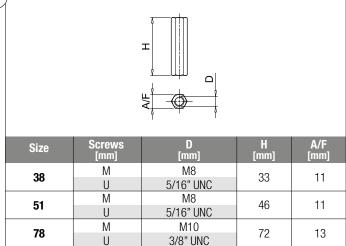
1 1/8"

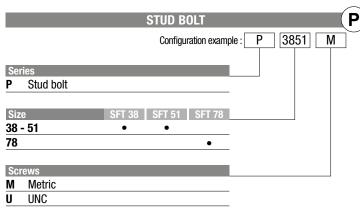
1 1/4"

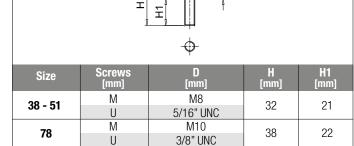
#### Designation & Ordering code

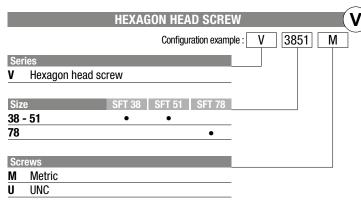
**Dimensions** 

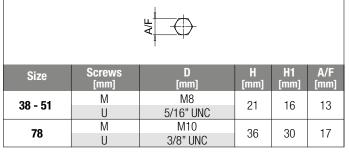


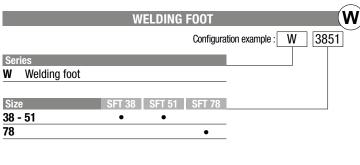


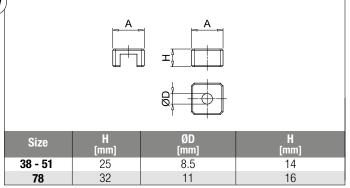


















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