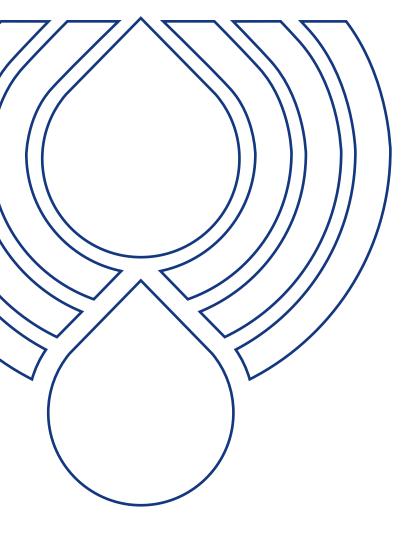
TANK ACCESSORIES



PASSION TO PERFORM





A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

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



MARKET **LEADER**



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

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

WORLDWIDE PRESENCE

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

The Group boasts **8** business branches





TECHNOLOGY

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







AND PRODUCTION

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











Flow rates up to 875 l/min

Mounting:

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

Pressure up to 20 bar

up to 3000 l/min

RETURN

FILTERS

Flow rates

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

and duplex designs



RETURN / SUCTION **FILTERS**

Flow rates up to 300 l/min

Pressure up to 80 bar

Mounting: - In-Line - Tank top

SPIN-ON **FILTERS**

Flow rates up to 365 l/min

Pressure up to 35 bar

Mounting: - In-Line - Tank top

Flow rates

Pressure

Mounting:

- In-Line
- Parallel manifold version
- In single

LOW & MEDIUM PRESSURE **FILTERS**

up to 3000 l/min

up to 80 bar

- and duplex designs



HIGH PRESSURE FILTERS

Flow rates up to 750 l/min

Pressure from 110 bar up to 560 bar

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





PRODUCT RANGE

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

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

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

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



STAINLESS STEEL HIGH PRESSURE FILTERS

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

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

CONTAMINATION MONITORING PRODUCTS

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

MOBILE FILTRATION UNITS

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

POWER TRANSMISSION PRODUCTS

- Aluminium bell-housings for motors from 0.12 kW to 400 kW

- Couplings in Aluminium
- Cast Iron Steel
- Damping rings
- Foot bracket
- Aluminium tanks
- Cleaning covers

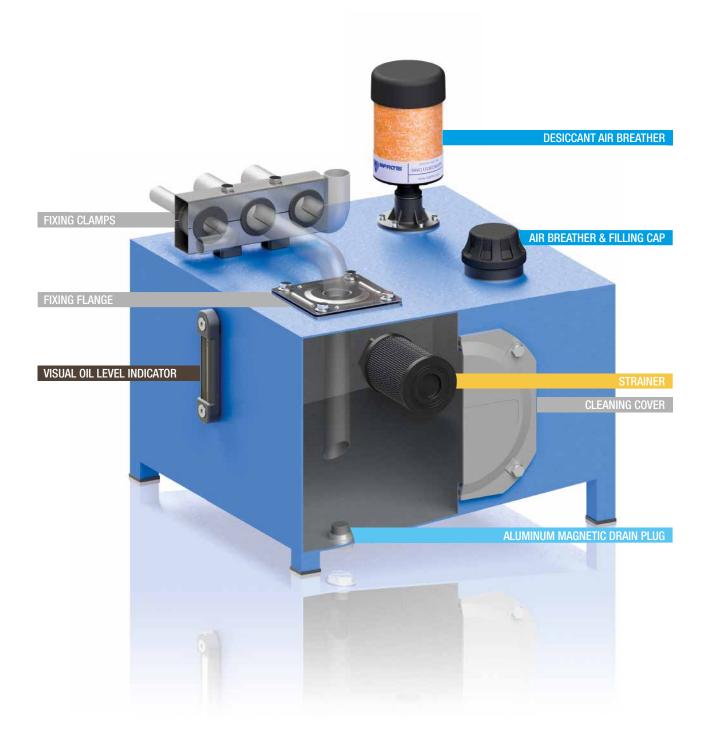
TANK ACCESSORIES

- Oil filler and

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



TANK ACCESSORIES





INDEX

1 page)	INTRODUCTION
1	COMPANY	
6	PRODUCT RANGE	

(10) page		STRAINERS
13	STR & MPA - MPM	Submerged suction filter, with bypass or magnetic column

20 page		AIR BREATHERS AND FILLER PLUGS
23	SAP 054-075 - SA	Air breathers
29	SAW 115	Desiccant air breathers
33	SCS	Metal air breathers with interchangeable filter element
39	SME 1 - SMF 1 - SML 1	Risers for breathers and filler caps installation
45	TA 46 - TAP 50 - SAP 50	Filling cap, air breather & filling cap
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(72) page	9	FILLER AND DRAIN PLUGS
75	TC 50	Nylon filler plug
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86 pag	je	VISUAL OIL LEVEL INDICATORS
89	LCP - LCC	Spy eyes
95	LVA - LVU	Visual oil level indicator

(100 page		ELECTRICAL OIL LEVEL INDICATORS
103	LEN - LEG - LET - LEM - LEU	Electrical oil level indicator
115	LVK	Electrical and visual oil level indicator

(120) page)	ACCESSORIES
123	EM1	Gauge isolator valves
129	SVM	Gauge isolator valves
133	FTA - FTR	Oil tank fixing flange
137	SFT	Fixing clamps
143	OB	Cleaning covers
149	SE10LT	Aluminium tanks



Strainers are used as safety filters to protect pumps from gross contamination which can cause them to grip.







STR & MPA - MPM page 13



-(11)

STR & MPA - MPM series

Flow rate up to 875 l/min





-(13)

STR & MPA-MPM GENERAL INFORMATION

Description

Technical data

Strainers

Flow rate up to 875 l/min

STR

STR is a range of suction strainers for protection of the downstream pump against the coarse contamination.

They are placed below the oil level directly connected to the suction line of the pump.

Available features:

- Female threaded connections up to 3", for a maximum flow rate of 875 l/min
- Bypass valve, to relieve excessive pressure drop across the filter media

Common application:

- Mobile machines (Construction and Agriculture machines)

- Industrial equipment

MPA - MPM

 $\ensuremath{\mathsf{MPA}}$ and $\ensuremath{\mathsf{MPM}}$ are ranges of suction strainers for protection of the downstream pump against the coarse contamination.

They are placed below the minimum oil level, directly connected to the suction line of the pump.

The robust design allows the use of these filters in any heavy duty application.

Available features:

- Female threaded connections up to 3", for a maximum flow rate of 875 l/min
- Magnetic column (MPM), to hold the ferrous particles

Common application: Industrial equipment

Weights [kg]

Hilter series	
STR	
MPA - MPM	

see page 17 see page 19



(14)

STR materials

- 1 Connection: Polyamide, GF reinforced
- 2 Core tube: Tinned steel
- 3 Wire mesh
- 4 End cap: Polyamide, GF reinforced
- 5 Bypass valve: Polyamide, GF reinforced Steel

MPA - MPM materials

- 1 Connection: Aluminium
- 2 Magnetic column
- 3 Tie rod: Galvanized steel
- 4 End cap: Galvanized steel
- 5 Core tube: Galvanized steel
- 6 Filter media: Wire mesh
- 7 Bottom: Galvanized steel
- 8 Washer: Galvanized steel
- 9 Self-locking nut: Galvanized steel Nylon

Bypass valve Opening pressure 30 kPa (0.3 bar)

Elements Fluid flow through the filter element from OUT to IN.

Temperature From -25 °C to +110 °C



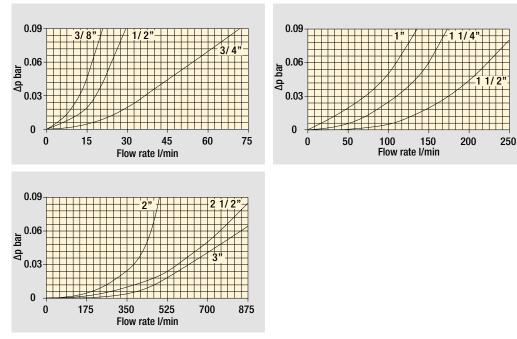


— ((())) MPALTRI

GENERAL INFORMATION STR & MPA-MPM

Pressure drop

 $\label{eq:Filters} \mbox{Filters pressure drop Δp} \mbox{ in function of connection type }$



The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

Flow rates [l/min]

Filter series	Thread	I/min
	3/8"	19
	1/2"	28
	3/4"	67
	1"	126
	1 1/4"	167
STR & MPA - MPM	1 1/2"	258
	2"	480
	2 1/2"	854
	2"	480
	3"	995

Maximum flow rate for a complete suction filter

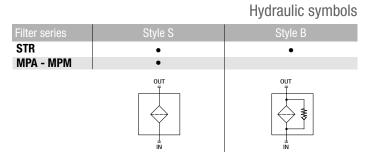
with a pressure drop $\Delta p = 0.08$ bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use

our selection software available on www.mpfiltri.com.

Please, contact our Sales Department for further additional information.

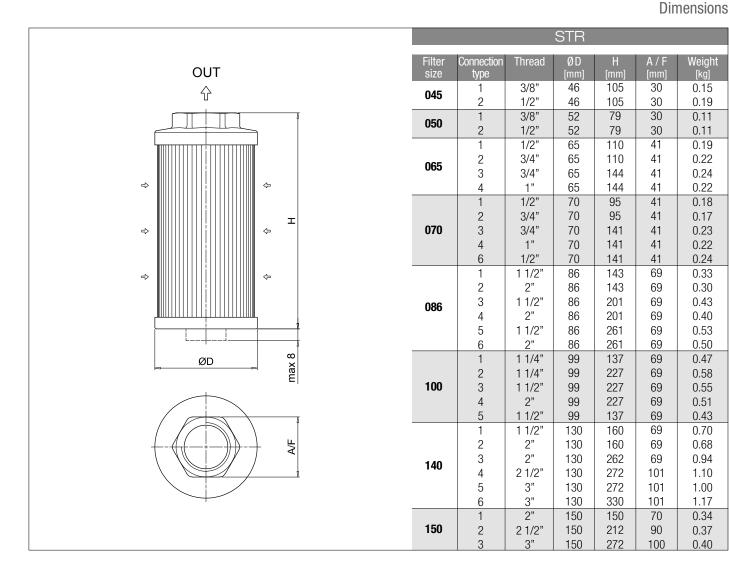


Designation & Ordering code

								COMPL	ete fil	TER						
Eleme	nt series	s and siz	ze							Configuration example 1	STR045	5 1	В	G1	M60	P01
STR04		o una on								Configuration example 2	STR100) 4	S	G2	M250	P01
STR05	i0									5						
STR06																
STR07	'0															
STR08																
STR10																
STR14																
STR15	i0															
Conne	ction typ	pe														
						6 STR100		0 STR150								
<u>1</u> 3/		3/8"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/2"									
2 1/	2" 1	1/2"	3/4"	3/4"	2"	1 1/4"	2"	2 1/2"								
3 -			3/4"	3/4"	1 1/2"	1 1/2"	2"	3"								
4 -	-		1"	1"	2"	2"	2 1/2"	-								
<u>5 -</u> 6 -			-	- 1/2"	<u>1 1/2"</u> 2"	1 1/2"	3" 3"	-								
6 -	-		-	1/2	2	-	3	-								
Valves		ıt bypas	20													
S B		ypass (
<u> </u>	WILLID	ypass c	1.5 Dai													
Thread	1 tvne															
G1	Thread	i GAS														
G2	Thread															
Filtrati	ion ratin	ıg (filter	media)													
M25	Wire m	nesh 2	25 µm													
M60	Wire m															
M90		nesh g														
M250	Wire m	nesh 25	60 µm													
			ОТЧ		ORMATI	NN							B	xecution	1	
Condit	ions of (nackani											PC)1 MP	Filtri star	ndard
	size Pcs												P	x Cu	stomized	
045		12														

(16)

STR







Designation & Ordering code

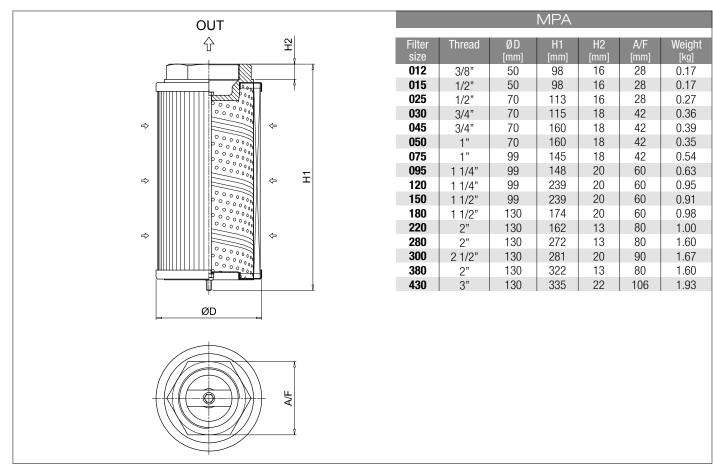
		COMPLETE FILTER						
Eleme	nt series		Configuration example 1:	MPA	030	G1	M60	P01
MPA	Without magnetic column		Configuration example 2:	MPM	430	G2	M250	P01
MPM	With magnetic column							
Conne	ctions							
012	3/8"							
015	1/2"							
025	1/2"							
030	3/4"							
045	3/4"							
050	1"							
075	1"							
095	1 1/4"							
120	1 1/4"							
150	1 1/2"							
180	1 1/2"							
220	2"							
280	2"							
300	2 1/2"							
380	2"							
430	3"							
Thread								
G1	Thread GAS							
G2	Thread NPT							
	ion rating (filter media)							
M25	Wire mesh 25 µm							
M60	Wire mesh 60 µm					ecution		
M90	Wire mesh 90 µm				P0		Filtri star	Idard
M250	Wire mesh 250 µm				Px	k Cus	tomized	

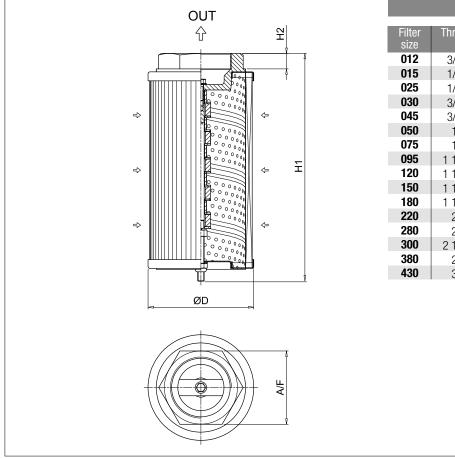
	OTHER INFORMATION
Condi	ions of packaging
Size	Pcs. per box
012	12
015	6
025	6
030	6
045	6
050	6
075	6
095	6
120	6
150	6
180	1
220	1
280	1
300	1
380	1
430	1

(18)

MPA-MPM

Dimensions





Filter size	Thread	ØD [mm]	H1 [mm]	H2 [mm]	A/F [mm]	Weight [kg]
012	3/8"	50	98	16	28	0.17
015	1/2"	50	98	16	28	0.17
025	1/2"	70	113	16	28	0.27
030	3/4"	70	115	18	42	0.36
045	3/4"	70	160	18	42	0.39
050	1"	70	160	18	42	0.35
075	1"	99	148	18	42	0.54
095	1 1/4"	99	154	20	60	0.63
120	1 1/4"	99	244	20	60	0.95
150	1 1/2"	99	244	20	60	0.91
180	1 1/2"	130	174	20	60	0.98
220	2"	130	163	13	80	1.00
280	2"	130	273	13	80	1.60
300	2 1/2"	130	282	20	90	1.67
380	2"	130	323	13	80	1.60
430	3"	130	336	22	106	1.93

MPM

(19)

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

Metal and plastic versions suitable for use on mobile equipment are available. Filler plugs perform a dual function, air filtration at the tank inlet and prefiltration of the fluid by means of the basket, in order to prevent the ingress of foreign material into the tank during filling and top-up operations.

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

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



Air Breathers & Filler Plugs



SAP 054-075 - SA	page 23
SAW 115	29
SCS	33
SME 1 - SMF 1 - SML 1	39
TA 46 - TAP 50 - SAP 50	45
TA 80	53
TAP 90	57
TAP 114	63
TAP 115 & SAP 115	67





SAP 054-075 series

Nylon air breather filter







SAP 054-075 GENERAL INFORMATION

Technical data

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

Designation & Ordering code

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

 Filtration rating

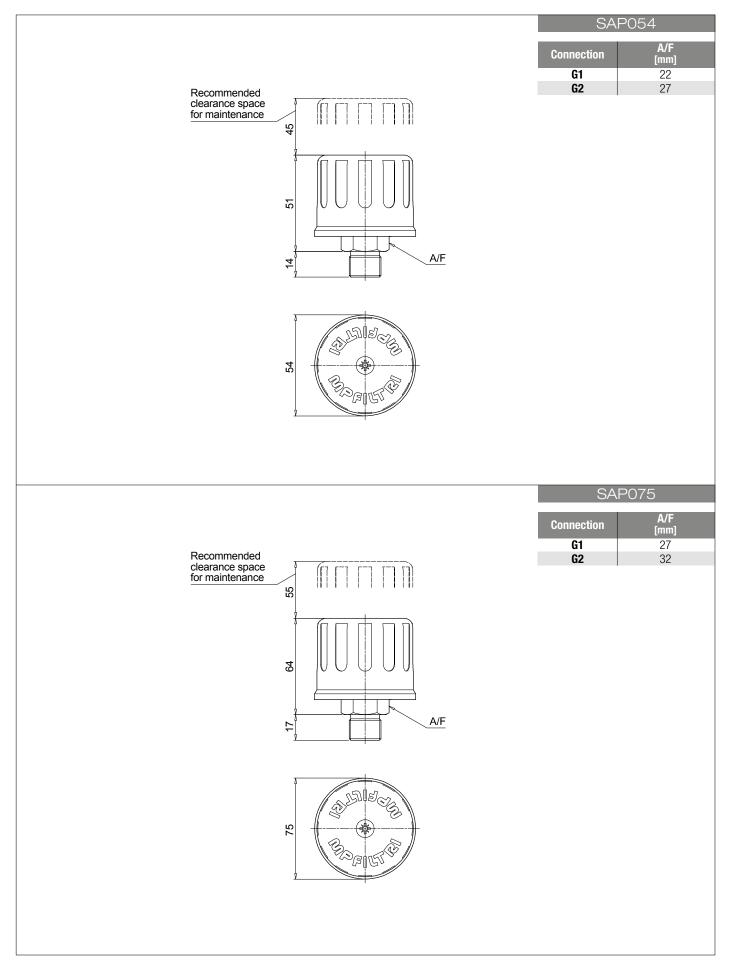
 L03
 Resin impregnated paper
 3 μm

 L10
 Resin impregnated paper
 10 μm



SAP 054-075

Dimensions





SA general information

Technical data

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

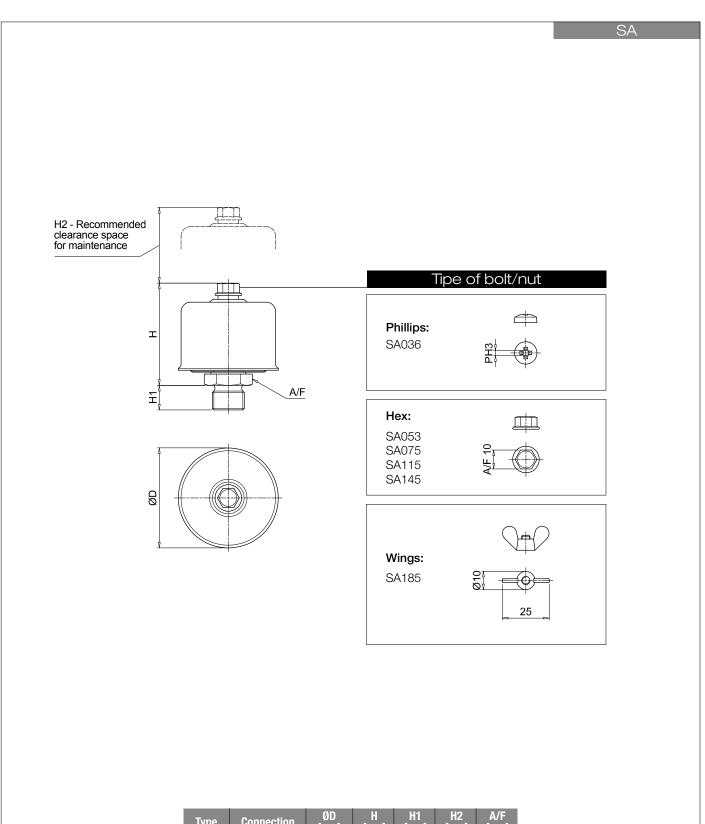
SA 075 - 0.26 kg SA 115 - 0.40 kg SA 145 - 0.59 kg SA 185 - 1.22 kg

Designation & Ordering code

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

					FILTE	ELEMENT				
Filter	element series a	and size				Configurati	on example :	A8	L10	P01
A05	A5	A7	A8	A10	A11					
Filtra	tion rating (filter	media)				L				
L03	Resin impregr	ated paper	3 µm			_				
L10	Resin impregr	ated paper	10 µm			_	Execu	ition		
							P01		standard	
							Рхх	Customi	zed	

SA Dimensions



Туре	Connection	עש [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
010	G4	10	00	15	00	27
	G5			20		32
115	G1 - G4	115	80	17	70	38
145	G1 - G4	145	115	25	100	55
185	G1 - G4	185	164	25	150	90





SAW 115 series

Moisture control desiccant air breather







SAW 115 GENERAL INFORMATION

Technical data

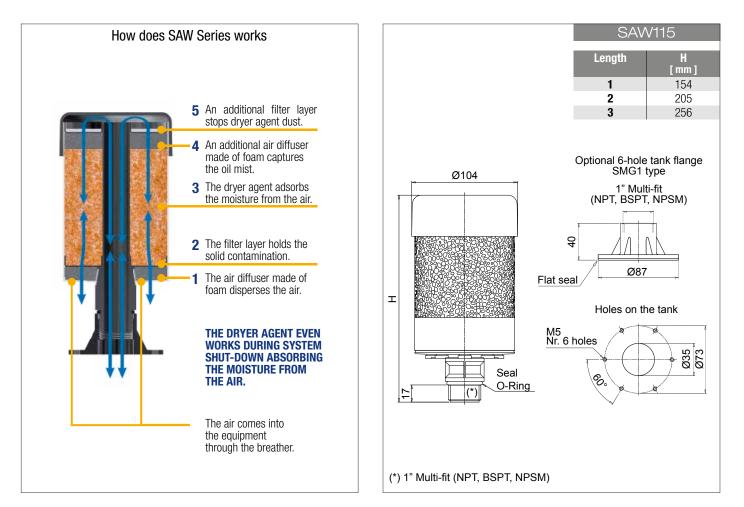
Air breathers & Filler plugs Moisture control desiccant air breather Max air flow up to 453 l/min	Flow rate Δp 0.02 bar Flow rate [l/min] Filtration rating 03 SAW115 453
SAW is a range of desiccant breathers; they are products that combine the filtration of the solid contamination and the absorption of the free water contained into the air. They are usually directly fitted on the tank; the filter layers remove the solid contamination while the desiccant agent holds the moisture contained in the air that enters into the tank as result of the tank breathing. While in service or during shut-down, the desiccant agent dries the equipment, absorbing moisture from the reservoir.	Materials Connection: Nylon Internal Support Pipe: Nylon Screen: Polycarbonate Cover: Nylon Dryer Agent: Silica Gel Filter Efficiency 3μm absolute (B ₃ ≥200) Seals NBR
 Available features: Male threaded connections up to 1", for a maximum flow rate of 453 l/min Fine filtration rating, to get a good cleanliness level into the reservoir Common applications: Hydraulic systems, oil storage, tanks, transformers, renewable energy, Gearboxes. 	Temperature From -25 °C to +90 °C Humidity Level Below Ambient Conditions SAW1153G03A00P01: protects 30,000+ cycles Deliquescent: Protects 5,000 cycles (Testing parameters 23 °C, 30 l/min) Silica Gel Weight Lenght 1: 0.32 kg
Chemical CompatibilityRecommended:Not Recommended:- All Gear Oil- Phosphate Ester- Most Hydraulic Fluid- Hydrogen Sulphide- Mineral and Synthetic Oil- Sulphuric Acid- High Alkaline Cleaner	Lenght 1: 0.62 kg Lenght 2: 0.56 kg Lenght 3: 0.84 kg Total Weight Lenght 1: 0.60 kg Lenght 2: 0.90 kg Lenght 3: 1.20 kg

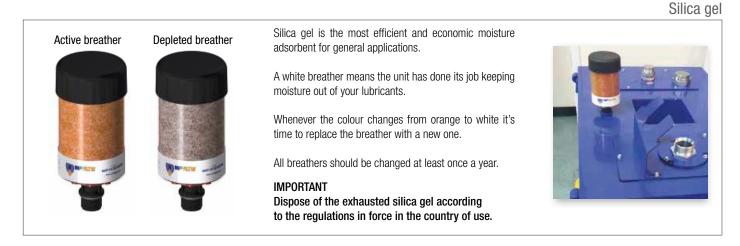
Designation & Ordering code

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

SAW 115

Dimensions





Air vent holes

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

IMPORTANT INSTALLATION INFORMATION

())) MPALTRI

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



31 Air Breathers & Filler Plugs



Metal air breather filter





GENERAL INFORMATION

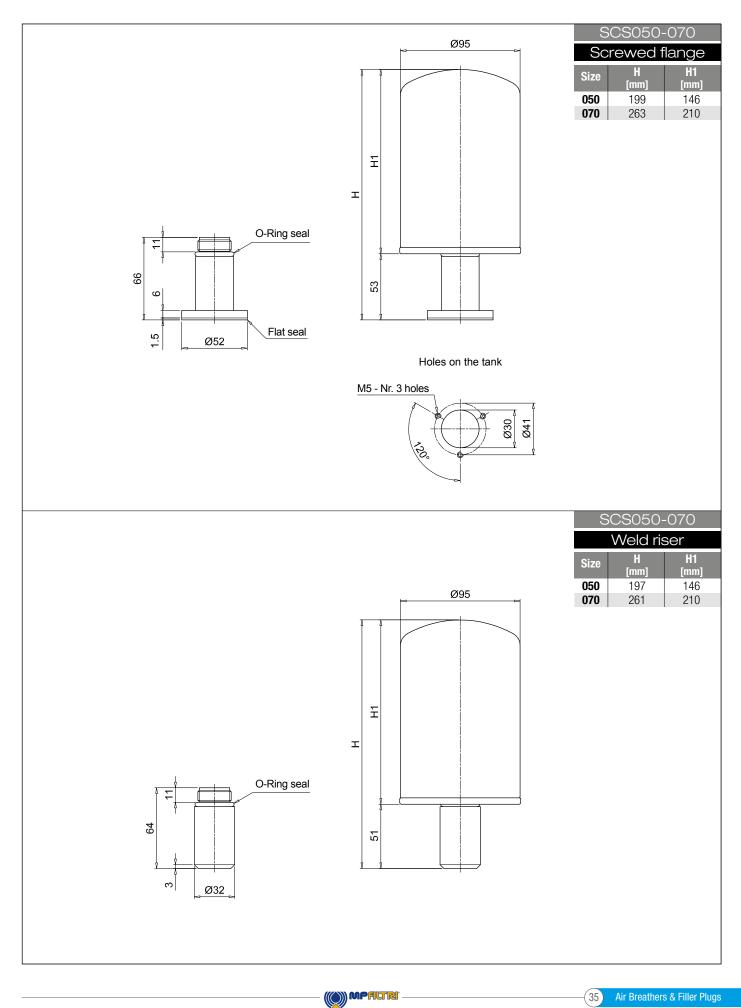
Technical data

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

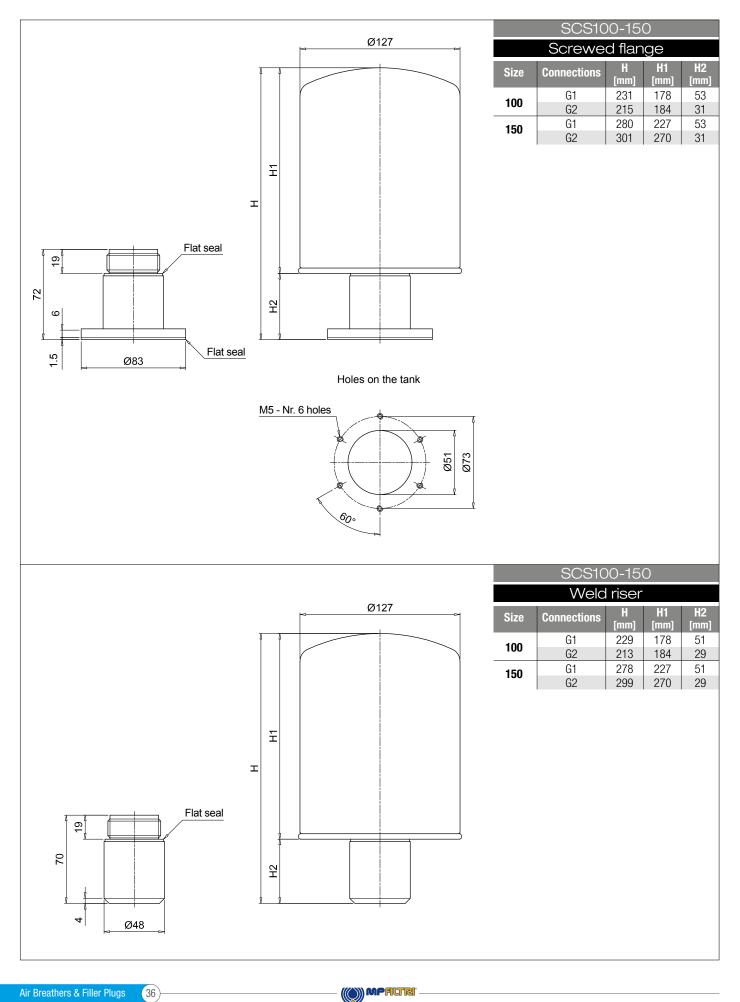
Designation & Ordering code

METAL AIR BREATHER FILTER															
Series	and size						Configu	ration exa	imple 1 :	SCS050	С	G2		V	P01
SCSO	50 SCS070 SCS1	00	SCS150				Configu	ration exa	imple 2 :	SCS150	С	G2	A10	V	P01
Conne	ections to the tank														
C	Weld riser														
F	Screwed flange					_									
Threa	ded connection		SCS050 - 070	S	CS100 ·	- 150									
G1	Connection ISO 228		G 3/4"		1/4"										
G2	Connection U.S. standard		1" - 12 UNF	11	/2" - 16	5 UN									
Filtrat A03 A10 P10	tion rating Without filter element Inorganic microfiber Inorganic microfiber Resin impregnated paper	3 μm 10 μm	Size: 050 • • •	070 • •	100 • •	150 • •		Seals A V	s NBR FPM			-	n P Filtri s ustomize		
					FI	LTER EL	EMENT								
Filter CS CG	element series Connection ISO 228 Connection U.S. standard		Threaded connection	ו: G ־ •	_	62 •		Confi	guration e	example :	CG	150	A10	V	P01
Filter 050	element size 070 100		150												
Filtrat	tion rating														
A03	Inorganic microfiber	3 µm					_	Seals	S			Executio	n		
A10	Inorganic microfiber	10 µm						Α	NBR		Ē	PO1 M	P Filtri s	tandard	
P10	Resin impregnated paper	10 µm						V	FPM			Yxx C	ustomize	ed	
Air Breathers & Filler Plugs 34															

SCS 050-070 SCS



SCS 100-150









SME1-SMF1-SML1series

Risers for breathers and filler caps installation

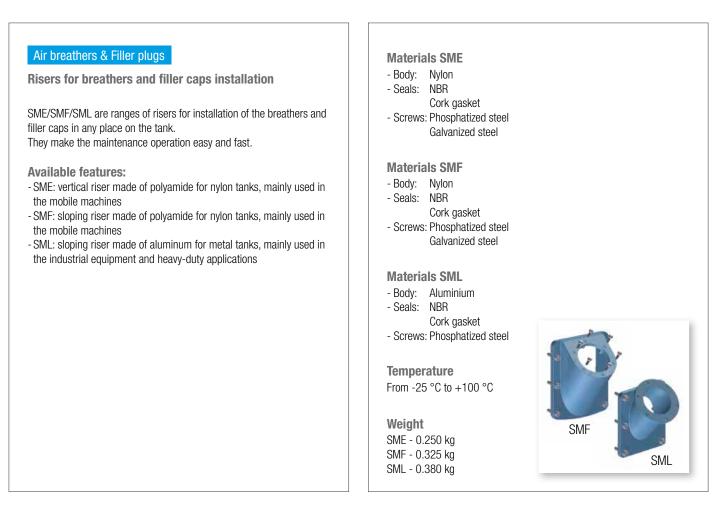






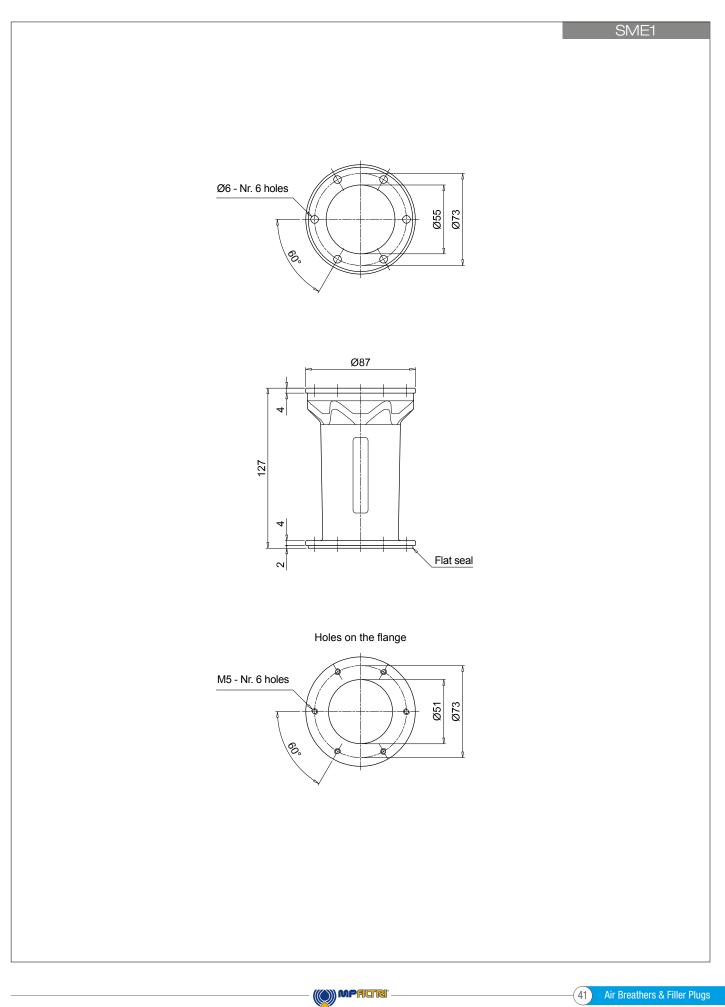
SME1-SMF1-SML1

Technical data

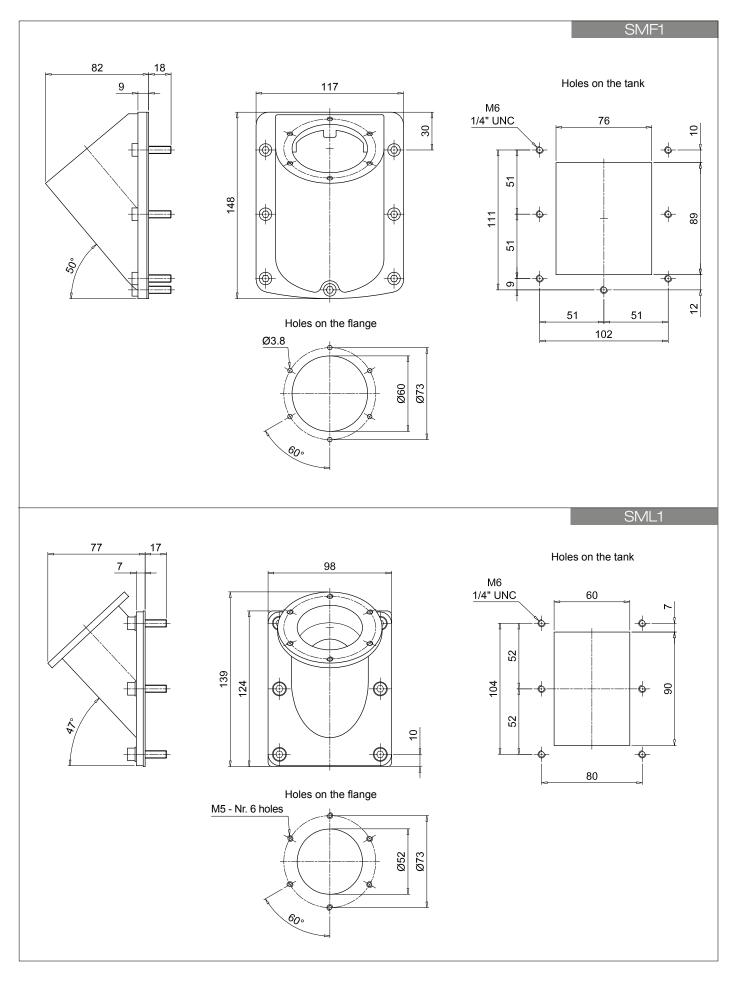


					SME / SMF / SML
Series	and size				Configuration example : SMF1 M A P01
SME1	Polyamide vertical riser				
SMF1	Polyamide sloping riser				
SML1	Aluminium sloping riser				
Conne	ctions to the tank				
М	Metric screws				
U	UNC screws				
					_
Seals					
Α	NBR				
			Series		
Execut	ion	SME1	SMF1	SML1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

SME1-SMF1-SML1



SME1-SMF1-SML1











TA 46 TAP 50 SAP 50 series

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







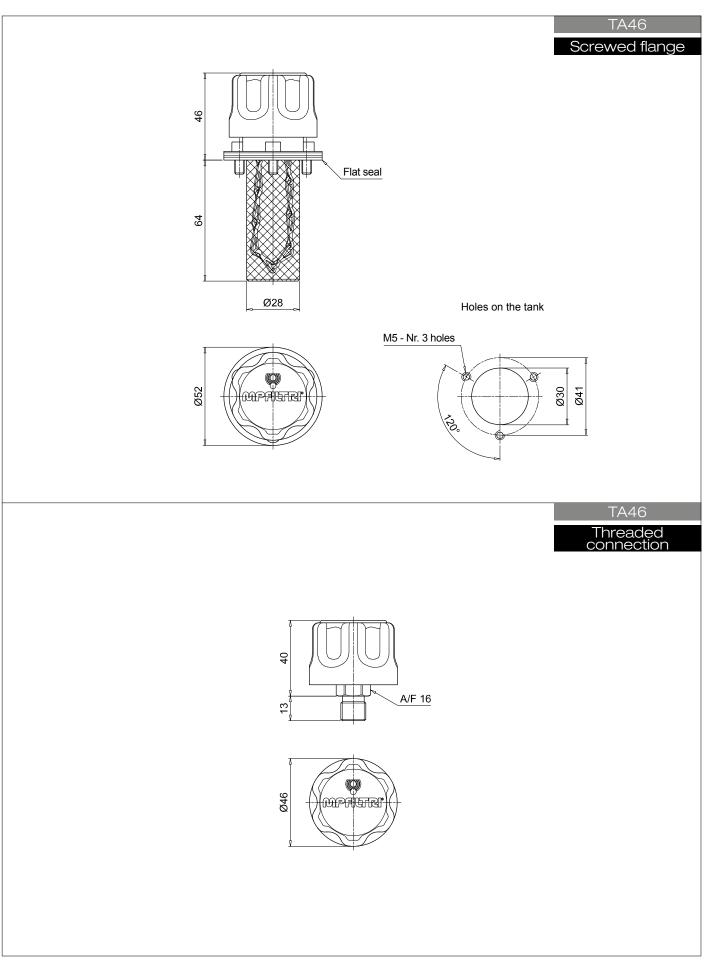
Technical data

Air breathers & Filler plugs	Flow rate Δp 0.02 bar Flow rate [l/min]
Metal oil filler and air breather filler cap	Filtration rating 03 10
Flow rate up to 200 I/min	TA46 150 200
TA46 is a range of compact metal air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures. They are usually directly fitted on the tank. The robust design allows the use of these filters in any heavy-duty application.	Materials (version G/N) - Cover: Chrome plated steel - Filter element: Resin impregnated paper, Polyurethane - Flange: Galvanized steel - Connection: Phosphatized steel
 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 	Materials (version B) - Cover: Chrome plated steel - Filter element: Resin impregnated paper, Polyurethane - Flange: Galvanized steel - Connection: Phosphatized steel - Seals: NBR - Chain, ring: Cork gasket - Screws: Galvanized steel - Basket: Brass
	Temperature From -25 °C to +100 °C
	Weight
	TA 46 B 0.10 kg
	TA 46 G/N 0.11 kg

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



TA 46 Dimensions





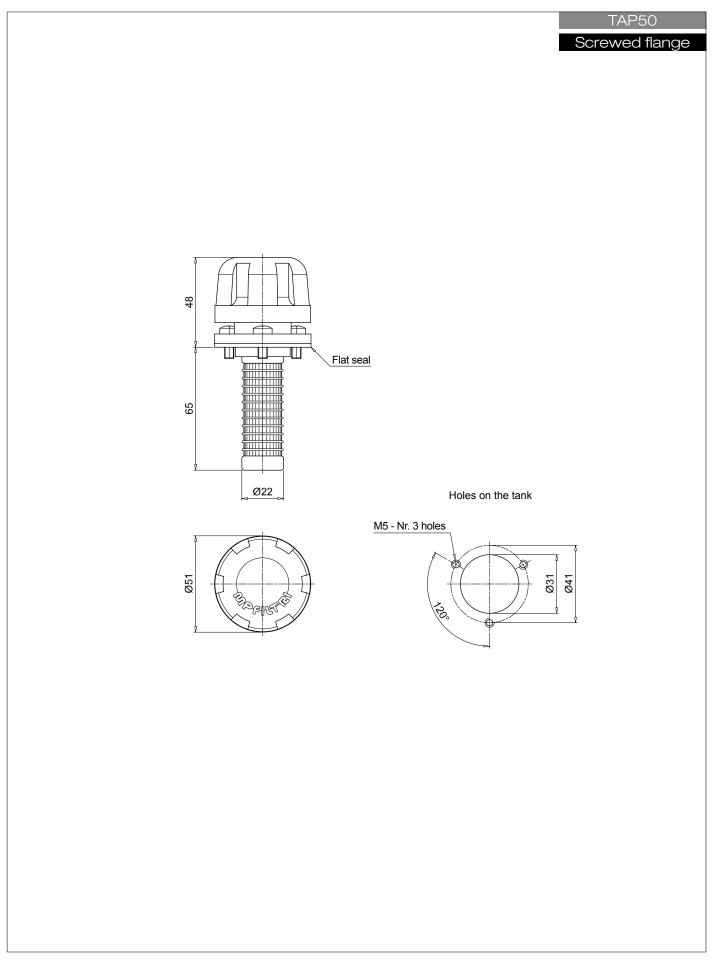
TAP 50 GENERAL INFORMATION

Technical data

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

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









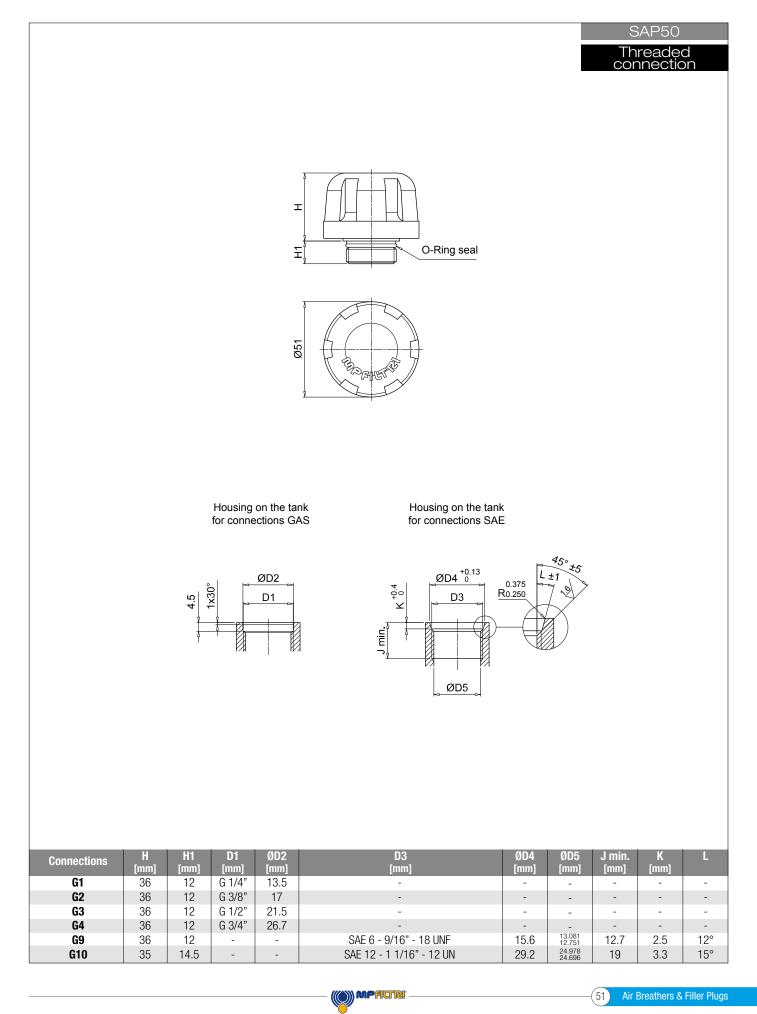
SAP 50 GENERAL INFORMATION

Technical data

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

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











Metal oil filler and air breather filler cap





TA 80 GENERAL INFORMATION

Technical data

Air breathers & Filler plugs

Metal oil filler and air breather filler cap Flow rate up to 550 l/min

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

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

Available features:

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

Common applications:

- Hydraulic systems
- Mobile machines
- Industrial equipment

Flow rate $\Delta p 0.02$ bar

	Flow rate [l/min]									
	Filtration rating	03	10							
TA80		450	550							

Materials

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

Temperature

From -25 °C to +100 °C

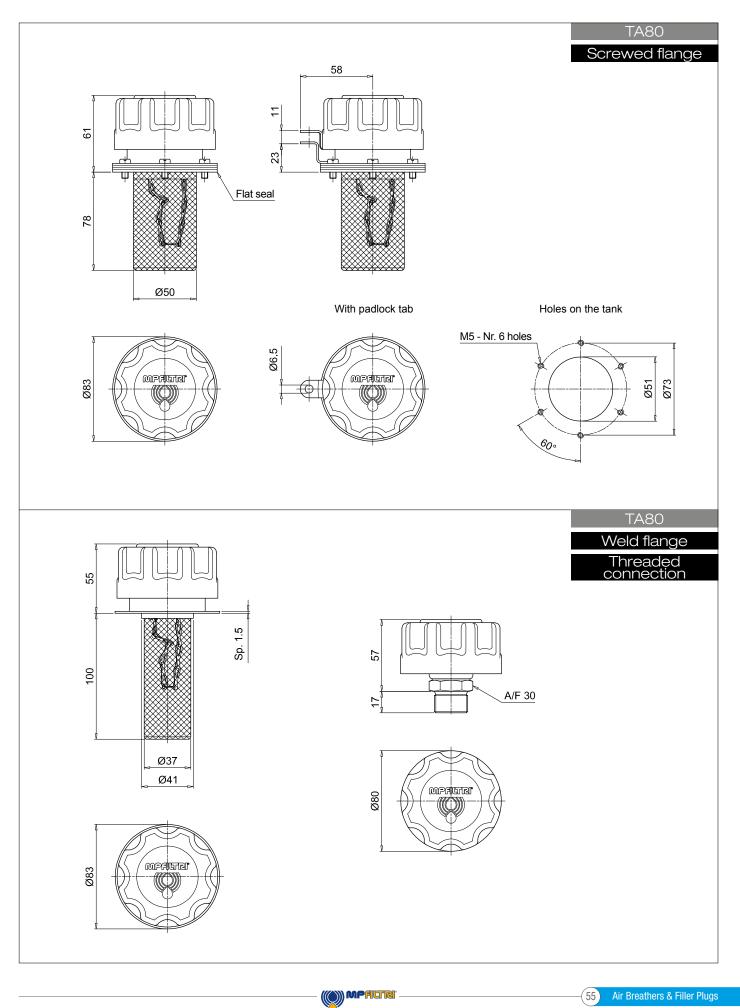
Weight L 80 mm 0.33 kg L 100 mm 0.35 kg



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



TA 80





TAP 90 series

Nylon oil filler and air breather filler cap







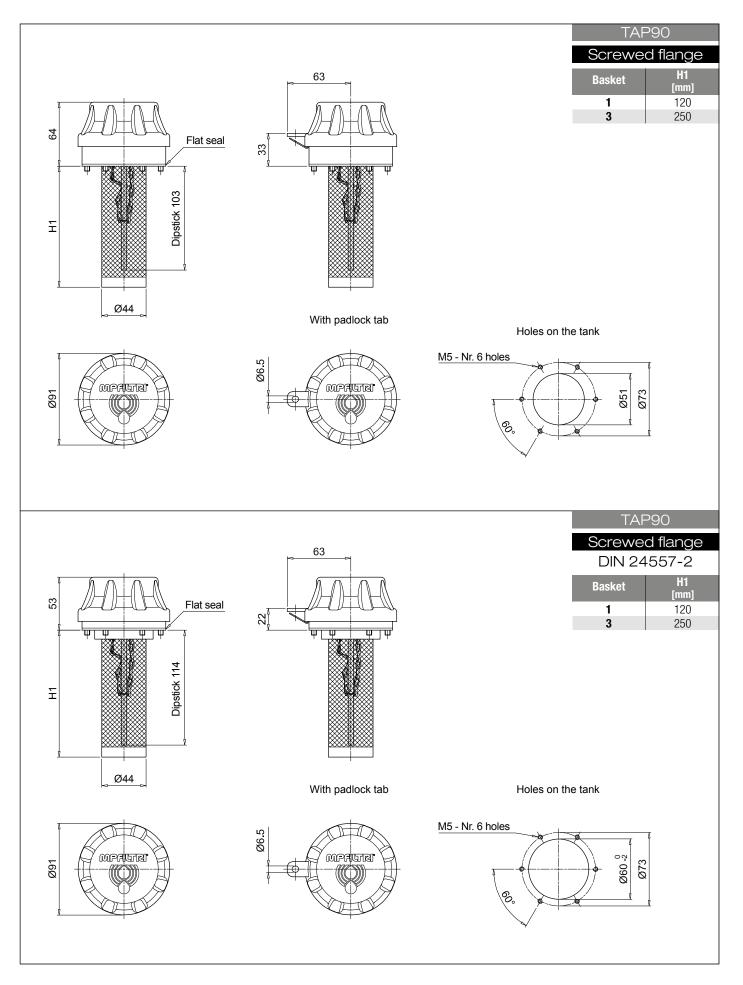
TAP 90 GENERAL INFORMATION

Technical data

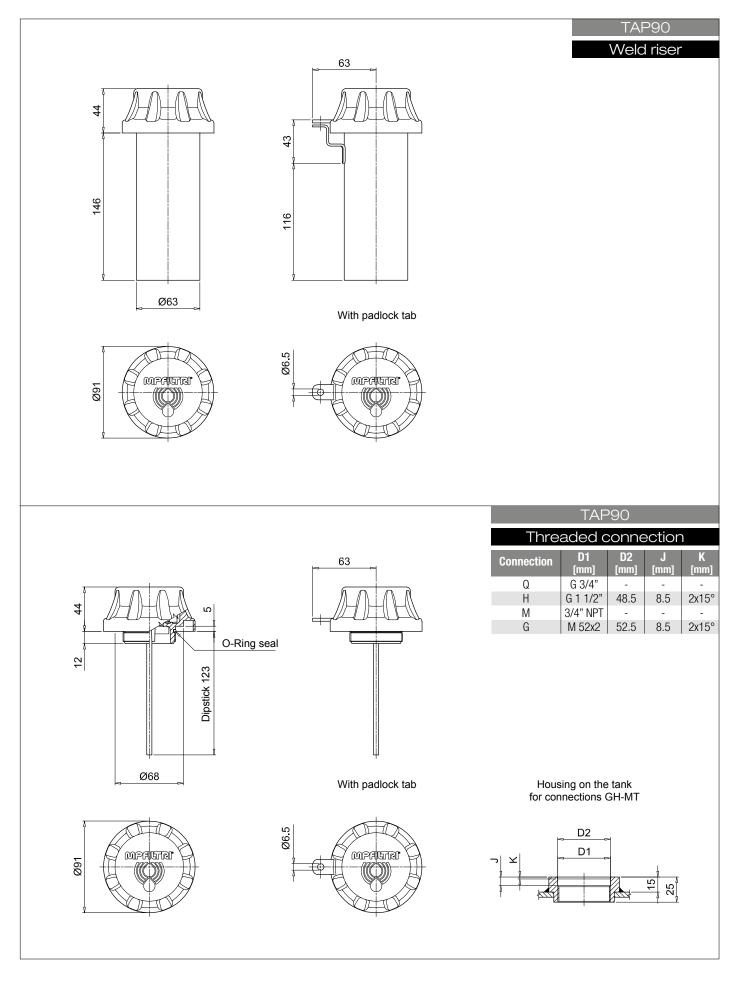
Air breathers & Filler plugs	Flow rate ∆p 0.02 bar
Nylon oil filler and air breather filler cap	Flow rate [l/min]
Flow rate up to 550 I/min	Filtration rating 03 10 TAP90 450 550
 TAP90 is a range of plastic air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures. They are usually 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 	 Materials Cover/Ringnut: Nylon Filter element: Resin impregnated paper, Polyurethane Pressurization valve: Nylon (bodies), Galvanized steel (end cap - disk), NBR (seals) Flange B: Nylon Seals: NBR Screws: Galvanized steel Padlock tab: Galvanized steel Chain, Ring: Brass Dipstick: Phosphatized steel Basket: Galvanized steel, Nylon
Common applications: - Hydraulic systems - Mobile machines - Industrial equipment	Temperature From -25 °C to +100 °C
	Weight L 120 mm 0.25 kg L 250 mm 0.31 kg

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









(()) MPALTRI









Nylon oil filler and air breather filler cap





TAP 114 GENERAL INFORMATION

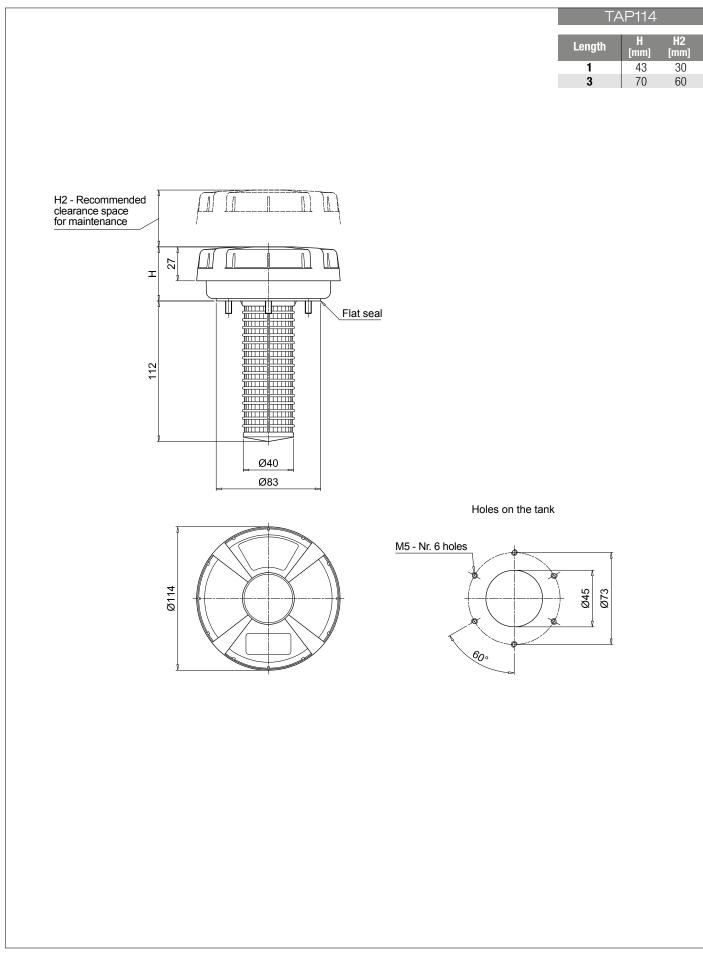
Technical data

Air breathers & Filler plugs Nylon oil filler and air breather filler cap Flow rate up to 1600 I/min TAP114 is a range of plastic large air breathers and filler caps for protection of the tank against the solid contamination contained into	Flow rate Δp 0.02 barFlow rate [l/min]Filtration rating L10TAP114 length 11450TAP114 length 31600
 protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures. They are usually directly fitted on the tank. Available features: Flanged connection, for a maximum flow rate of 1600 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) 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 	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>

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

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











TAP 115 & SAP 115

Nylon oil filler and air breather filler cap







TAP 115 GENERAL INFORMATION

Technical data

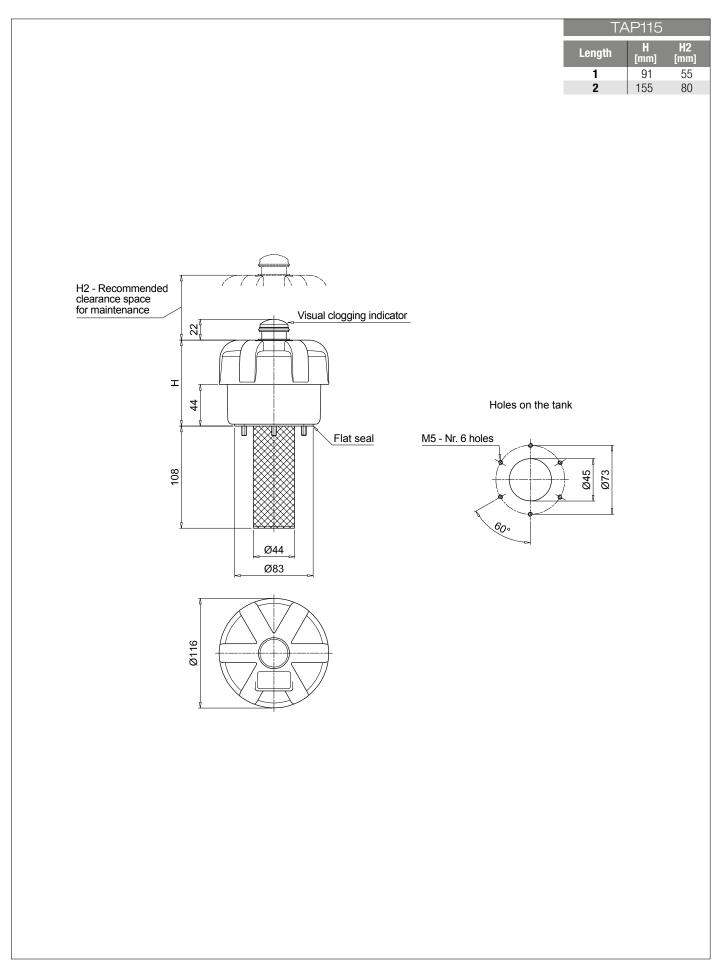
	Flow rate ∆p 0.02 bar		
 Nylon oil filler and air breather filler cap Flow rate up to 2150 l/min TAP115 is a range of plastic large air breathers and filler caps for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures. They are usually directly fitted on the tank. Available features: Flanged connection, for a maximum flow rate of 2150 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 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 		1600 2150 impregnated p	L10 2000 2150

Designation & Ordering code

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

L10 Resin impregnated paper 10 µm









SAP 115

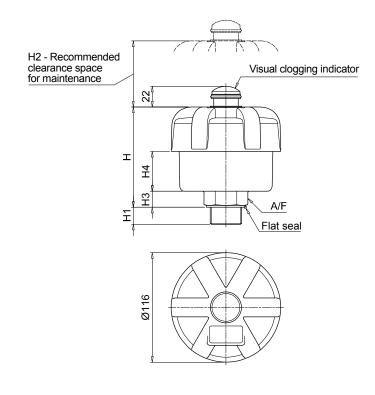
Air breathers & Filler plugs	Flow ra	te [l/min]	
lylon oil filler and air breather filler cap	Filtration ratio		L10
low rate up to 3000 I/min	SAP115 length 1 - G1"	1830	2170
AP115 is a range of plastic large air breathers for protection of the	SAP115 length 2 - G1"	2800	2800
ank against the solid contamination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

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

SAP 115

Dimensions

			S	4P118	5			
Len	gth	Connection	H H1 [mm] [mm]		H2 [mm]	H3 [mm]	H4 [mm]	A/F [mm]
	1	A	106	18	55	17	42	41
		С	111	23	55	22	42	55
		А	170	18	80	17	106	41
4	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 75
TKT - TSD - TKM	79



TC 50 series

Nylon filler cap





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TC 50 GENERAL INFORMATION

Technical data

Filler plugs

Nylon 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 usually 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
- $\mbox{-}\mbox{Caps}$ with different graphics and colours, for the use in several applications

Common applications:

- Hydraulic systems
- Mobile machinesIndustrial equipment

Materials

- Cover: Nylon
- Filter element: Galvanized steel
- Filler cap: Nylon
- Strainer: Galvanized steel / Nylon AISI 304 / Nylon
- Collar: Nylon
- 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



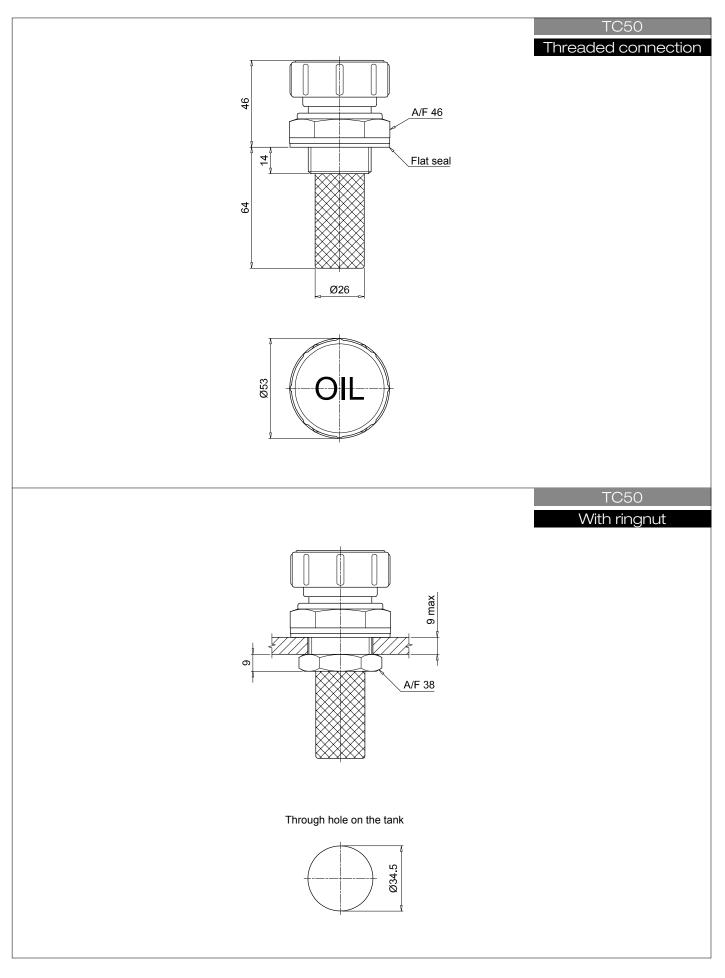
Designation & Ordering code

	F	ILLER PLUG - TC50										
Serie	s and size	Configuration example :	TC50	G1	L90	Р	F	1	0	C7	0 P	01
TC50											[Γ
0	a dha a dha daada											
	ections to the tank G 1"											
G1 GA												
UA	With ringnut											
Filtra	tion rating											
L90	Galvanized steel											
Seals	<i>m</i>											
Р	Inorganic fiber											
Covo	colour											
R	Red											
Y	Yellow											
Cove	wording											
0	Oil											
Ν	Neutral											
Bask												
S	Without basket											
C70	L = 70 mm - galvanized steel					B	xecu	tion _		_	_	
170	L = 70 mm - AISI 304						01		- iltri s	standa	rd	
							xx	Cust				
								0401	51111Z	~ ~		

76)-



TC 50 Dimensions











TKT - TSD - TKM series

Nylon and aluminium filler and drain plugs





GENERAL INFORMATION

Technical data

Filler plugs

Nylon filler plug

TKT is a range of nylon compact filler plugs for filling of the fluid into the systems during the commissioning and maintenance procedures. They are usually 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: Nylon
- Seals: NBR, Inorganic fibre
- Labyrinth: Nylon
- Anti-splash feature: Resin impregnated paper
- Dipstick: Phosphatized steel

Temperature From -25 °C to +100 °C

Weight TVTC 12

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

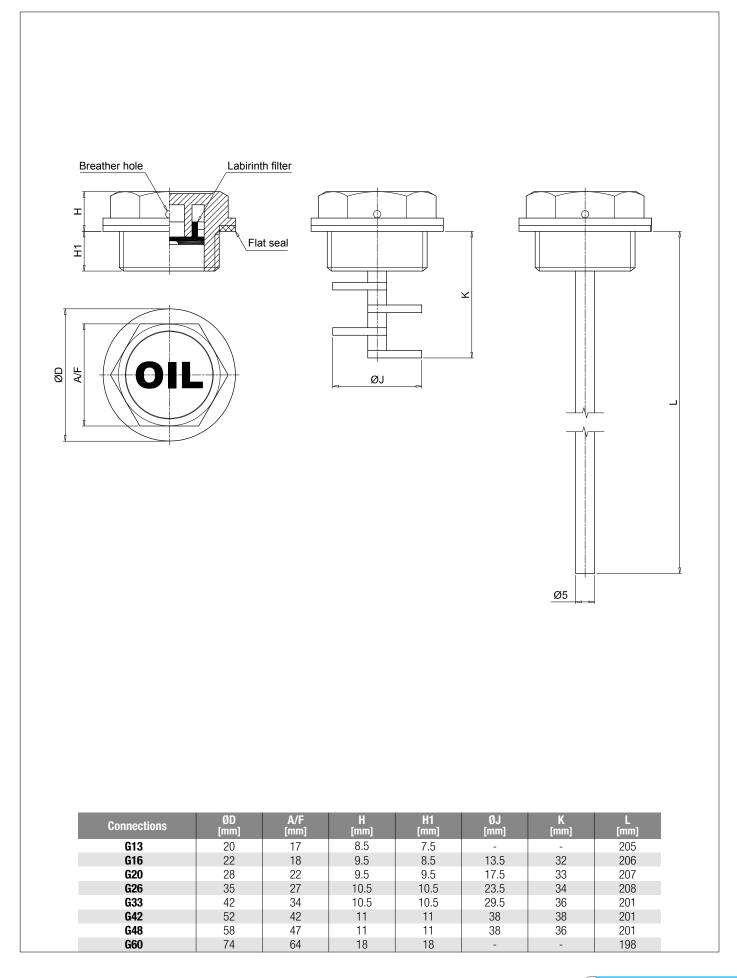
Quantity 25 pcs/pack



Designation & Ordering code

					F	ILLER PLUG - TKT											
Serie	s and size					Configuration example :	TKT	G2	6	Ν	Ν		Α	F	S	F	P01
ТКТ													T				
			Vers	sion													
	ections to the tank	S	A	F	L												
<u>G13</u>	Thread G 1/4"	•	•		٠												
<u>G16</u>	Thread G 3/8"	•	•	•	•												
G20	Thread G 1/2"	•	•	•	•												
G26	Thread G 3/4"	•	•	•	•												
G33	Thread G 1"	•	•	٠													
G42	Thread G 1 1/4"	•	•	•													
G48	Thread G 1 1/2"	•	•	•													
G60	Thread G 2"	•	•														
N Cove O	Black nylon r wording Oil	N	Neutral	sion													
Seals		S	A	F	L												
Α	NBR		•	•									_				
В	Inorganic fiber	•			•												
Breat S	ther hole Without breather hole	F	With bre	athor bo	lo												
3	שונווטענ גובמנוובו ווטוב	<u> </u>			16												
Versi	on											Exec	ution			_	
S	Standard	F	With ant	i-splash	feature							P01		Filtri	standa	ırd	
Α	With dipstick	L	With lab									Рхх	Cus	tomiz	zed		
Filler a	and Drain Plugs 80—					— ((())) MPALTR' –											

Dimensions





TSD general information

Technical data

Filler plugs

Nylon filler plug

TSD is a range of nylon 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 usually 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: Nylon
- Cover: Nylon
- Seal: NBR
- Filter: Galvanized steel
- Anti-splash feature: Nylon
- 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 a

Quantity 25 pcs/pack



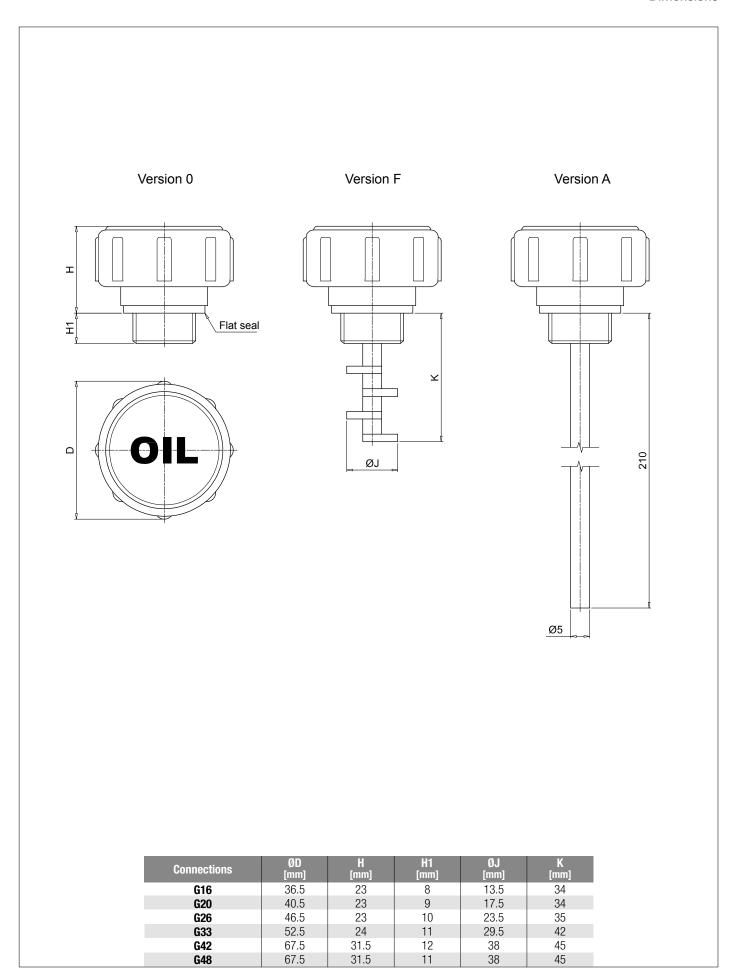
Designation & Ordering code

						FILLER PLUG - TSI)												
Serie	s and size					Configuration example :	TSD	(326	R	{	6	ì	Α		F	S	;	P01
TSD						_			Τ							Τ			
0						_													
G16	ections to the tank Thread G 3/8"	G33	Thread	C 1"															
G20	Thread G 1/2"	G42	Thread		/4"	_													
G26	Thread G 3/4"	G48	Thread																
Cove	r colour																		
R	Red	Y	Yellow																
Cove	r wording																		
0	Oil																		
Ň	Neutral					_													
G	Gasoil					_													
Seals																			
Α	NBR					_													
Filter	element		_	Cov	er wording														
0	Without filter element		_	•	• •														
A	Steel filter element			•	•	_													
						_													
Versi																			
S A	Standard With dipatiok					_							_						
A F	With dipstick					_							E P0	ecuti	-	ltri o	land	ard	
г	With anti-splash feature					_							Pu Px		MP Fi Custo			alu	
													<u>г х</u>	Χ	อนจแ	IIIZE	u		

82)-



Dimensions





(83)

TKM GENERAL INFORMATION

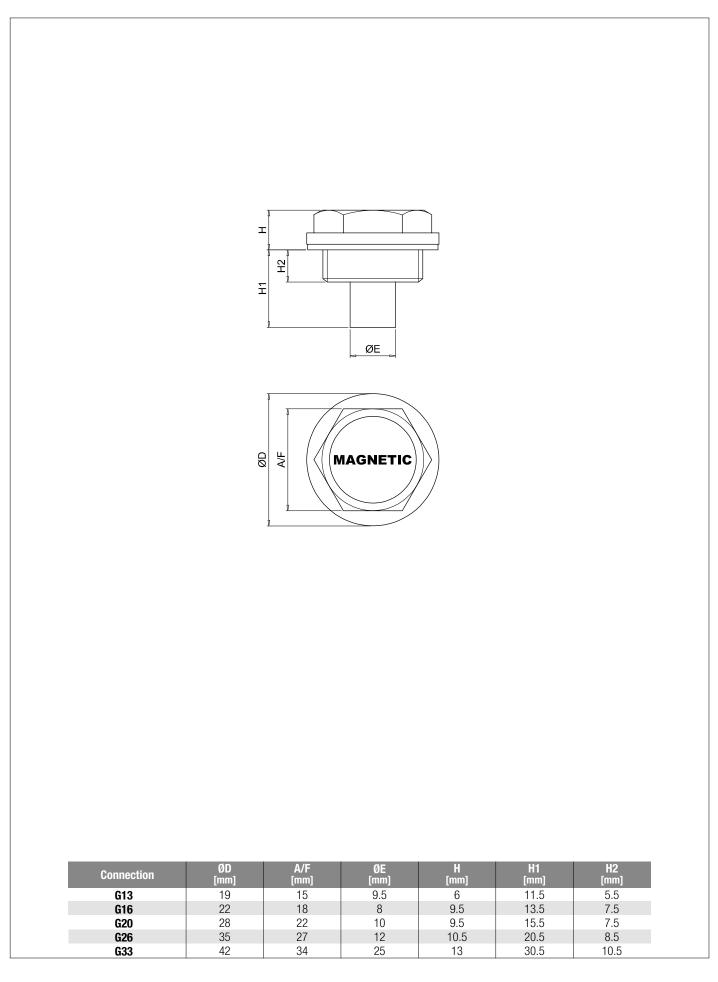
Technical data

Drain plugs Aluminium magnetic drain plug	Materials - Body: Aluminium
Automation in agriculo ai anti piag	- Seal: Inorganic fibre
TKM is a range of aluminium compact plugs for draining of the fluid from the systems during the commissioning and maintenance procedures. They are usually directly fitted on the bottom of the tank. The integrated magnet holds the ferrous contamination.	Temperature From -25 °C to +100 °C
Available features:	
- Male threaded connections up to G 1"	Weight TKMG13 14 g
Common applications:	TKMG16 23 g
- Hydraulic systems - Mobile machines	TKMG20 42 g TKMG26 95 g
- Industrial equipment	TKMG26 95 g TKMG33 98 g
	Quantity
	1 pc/pack

Designation & Ordering code

		DRAIN PLUG - TKM				
Serie	s and size	Configuration example : TK	MG	20	B	P01
ткм						
Conn	ections to the tank					
G13	Thread G 1/4"					
G16	Thread G 3/8"					
G20	Thread G 1/2"					
G26	Thread G 3/4"					
G33	Thread G 1"					
Seals	3					
В	Inorganic fiber				-	
		Exe	cution			
		P01		tri stand	lard	
		Pxx	c Custo	mized		







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 89
LVA - LVU	95

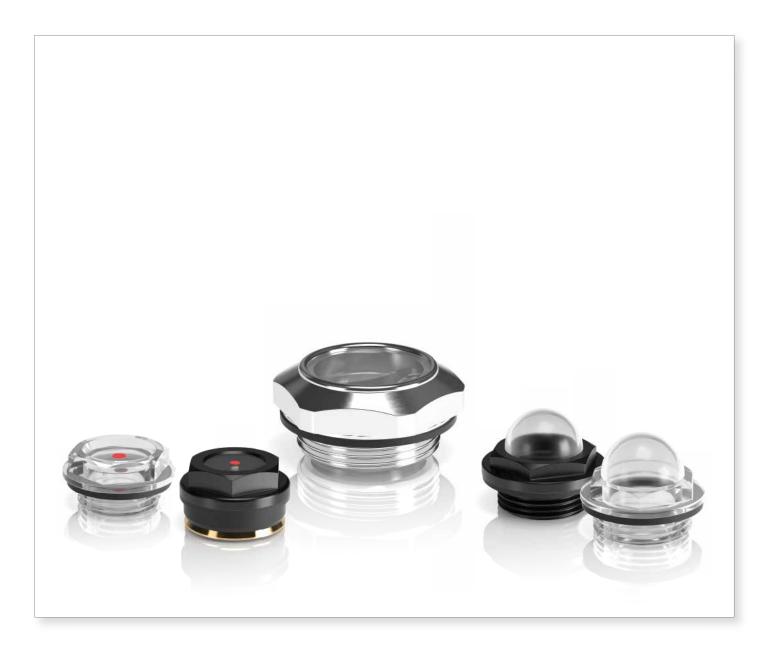






LCP - LCC series

Visual oil level indicators





LCP GENERAL INFORMATION

Technical data

Visual oil level indicators 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.	T SeriesMaterialsWeight- Body: PolyamideLCPG131 g- Contrast screen: NylonLCPG162 g- Seals: NBRLCPG204 gLCPG268 gLCPG3310 gLCPG4212 g
 Available features: Male threaded connections up to G 2" Baffle, to allow an easy monitoring of the level Expansion kit, for reliable sealing even in thanks with thin walls Common applications: Hydraulic systems Mobile machines Industrial equipment 	M SeriesMaterialsWeight- Body: AluminiumLCPG206 g- Lens: ThermoplasticLCPG269 g- Contrast screen: NylonLCPG3313 g- Seals: Inorganic fibreN SeriesMaterialsWeight- Body: NylonLCPG132 g- Lens: ThermoplasticLCPG164 g- Contrast screen: NylonLCPG207 g- Seals: Inorganic fibre, NBRLCPG207 g- Seals: Inorganic fibre, NBRLCPG209 g- Expansion kit: Brass, NBRLCPG3012 gLCPG4225 gLCPG4848 gLCPG6059 gTemperatureFrom -20 °C to + 80 °CQuantity25 pcs/pack

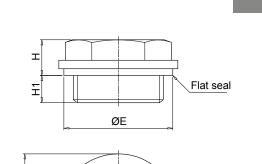
Designation & Ordering code

					LC	P							
Serie	s and size				Со	nfiguration example 1	: LCP	G26	Ν	S	В	S	P01
LCP					Co	nfiguration example 2	: LCP	G42	T	S	Α		P01
					Со	nfiguration example 3		G20	Μ	С	Α		P01
	ections to the tank	Material:	N	T M			LOI			Ť			
<u>G13</u>	Thread G 1/4"		•	•	-								
<u>G16</u>	Thread G 3/8"		•	•	_								
G20	Thread G 1/2"		٠	• •	-								
<u>G26</u>	Thread G 3/4"		•	• •	-								
<u>G33</u>	Thread G 1"		٠	• •	-								
G42	Thread G 1 1/4"		•	•	-								
G48	Thread G 1 1/2"		٠		-								
G60	Thread G 2"		٠		-								
N Baffle S C	Black nylon Without With baffle	T Material: Connection: G13 (●	Transparent G16 G20 G2	N 26 G33 G42	M G48 G60 • • •	Metal (aluminiu T G13 G16 G20 G	ım) 126 G33 G4	M 2					
Seals A B	NBR Inorganic fiber	Material: Expansion kit:	5	•		T •		•					
Expai S	nsion kit Without	Material: Connection: G13	G16 G20 G2		G48 G60	T		M	Exe P01	cution MF	P Filtri sta	andard	
K	With expansion ki	t	• •	• •	•				Рхх	c Cu	stomized	b	

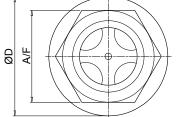
90)-



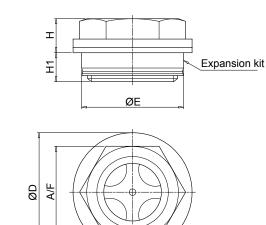
Dimensions



LCP - N

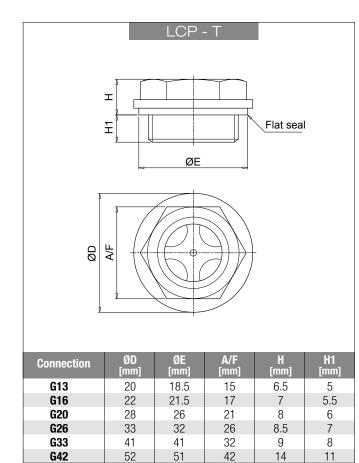


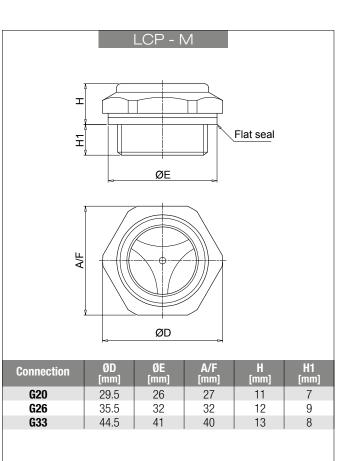
	withou	ut expa	Insion k	<it< th=""><th></th></it<>	
Connection	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [mm]
G13	20	18.5	17	9	7
G16	22	21.5	18	10	7
G20	28	26	22	10	7
G26	35	32	27	10.5	8
G33	42	41	34	13.5	10.5
G42	52	51	42	14	11
G48	58	53.5	47	16	11
G60	74	72	64	16	18



with expansion kit												
Connection	ØD [mm]	ØE [mm]	A/F [mm]	H [mm]	H1 [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							

Note: for installation onto OB Cleaning covers see page 147





Note: for installation onto OB Cleaning covers see page 147

LCC GENERAL INFORMATION

Technical data

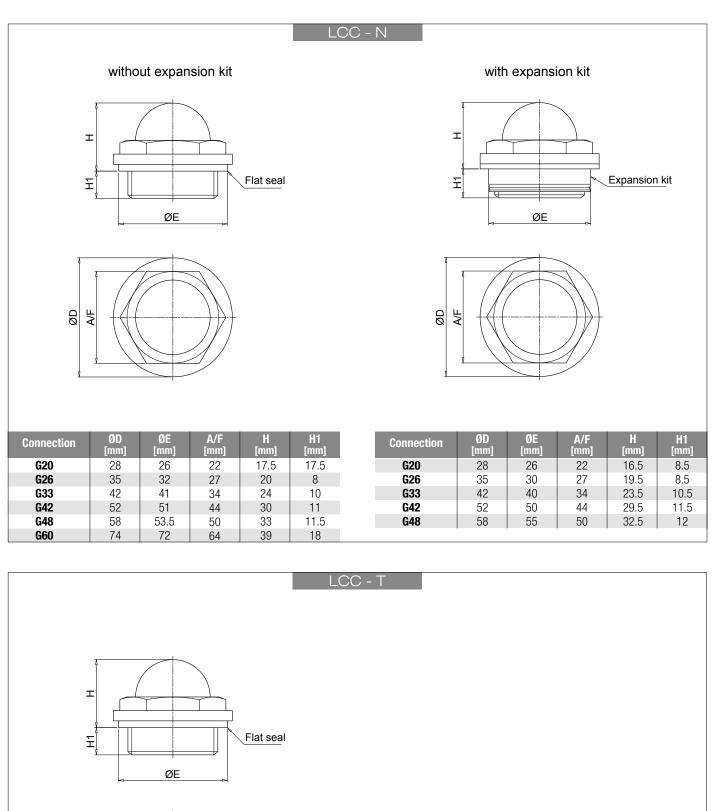
Visual oil level indicators LCC is a range of plastic compact fluid level indicators, usually called spy eyes, for monitoring of the fluid level into the tank. They are directly fitted on the tank side. The special shape of the screen allows the monitoring of the fluid level from every position.	N SeriesMaterialsWeight- Body: NylonLCCG267 g- Lens: PolyamideLCCG4220 g- Contrast screen: NylonLCCG6040 g- Seals: Inorganic fibre, NBR- Expansion kit: Brass / NBR
 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 	T Series Weight LCCG16 2 g LCCG20 4 g LCCG33 9 gMaterials - Body: Polyamide LCCG20 4 g LCCG33 9 gTemperature From -20 °C to + 80 °CQuantity 25 pcs/pack

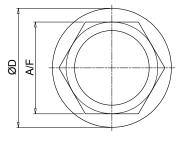
Designation & Ordering code

		LCC		
Series	and size	Configuration example 1 :	LCC G20	N A K P01
LCC		Configuration example 2 :	LCC G33	T A P01
	ctions to the tank Material: N T			
<u>G13</u>	Thread G 1/4"			
<u>G16</u>	Thread G 3/8" •			
<u>G20</u>	Thread G 1/2" • •			
<u>G26</u>	Thread G 3/4" • •			
G33	Thread G 1" • •			
G42 G48	Thread G 1 1/4" • Thread G 1 1/2" •			
G60	Thread G 1 1/2 •			
000				
Mater	ial			
N	Black nylon T Transparent polyamide			
	Material: N T			
Seals	Expansion kit: SK			
A B				
D	Inorganic fiber •			
	Material: N T			
Expan	sion kit Connection: G20 G26 G33 G42 G48 G60			
S	Without • • • • •			
K	With expansion kit • • • • •			
				cution
			P01	MP Filtri standard
			Pxx	Customized



_____ Dimensions





Connection	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

-(93)





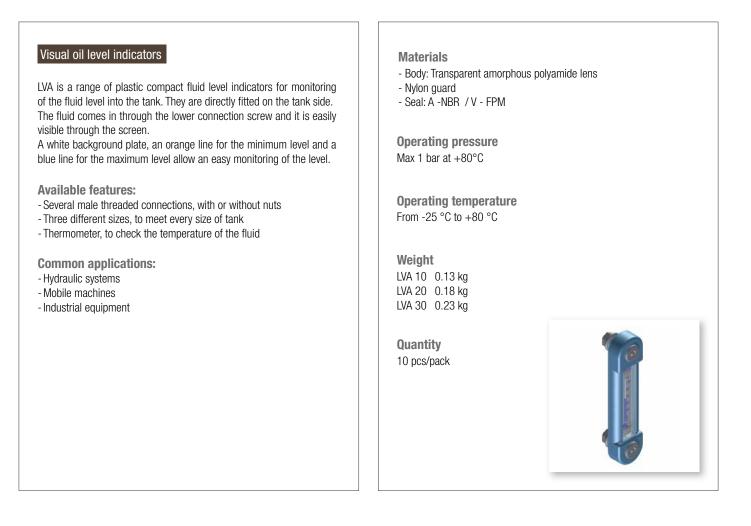
LVA - LVU series

Visual oil level indicators



LVA GENERAL INFORMATION

Technical data

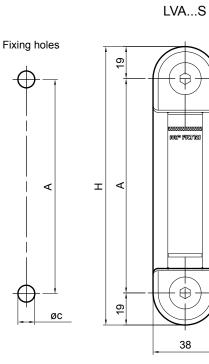


Designation & Ordering code

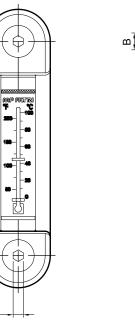
		LVA									
Series	3	Configuration example :	LVA	20	Т	Α		P	M1() [5	501
LVA		I								[
Size											
10	20 30										
Thern	nometer										
S	Without thermometer										
Т	With thermometer										
Seals											
Α	NBR										
V	FPM										
	material										
Р	Polyamide										
	ections										
M10	Screws M10	_									
M12	Screws M12										
U38	Screws 3/8" UNC			Executio	on _						
U12	Screws G 1/2" UNC				Fag MP						
				S02	Fag MP	Filtri,	witho	out nu	ts		

Dimensions

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								

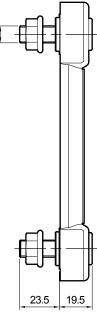






LVA...T

80

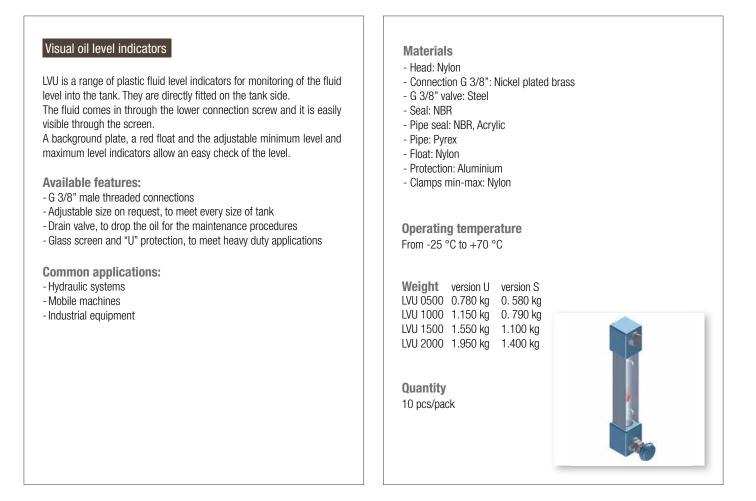


A/F 6



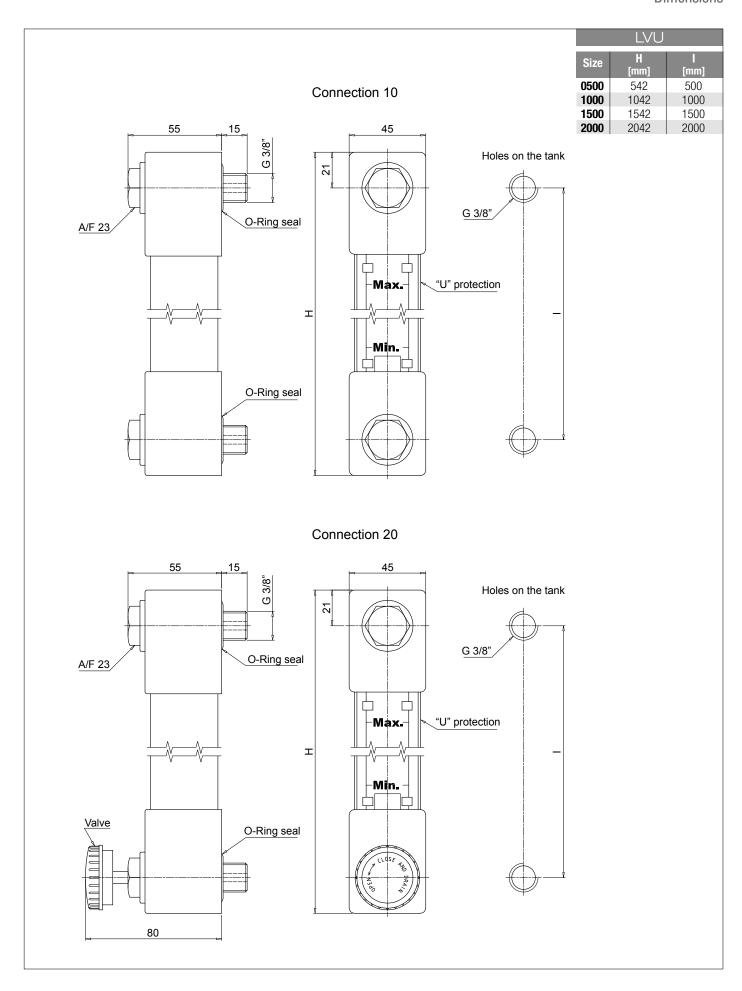
LVU GENERAL INFORMATION

Technical data



Designation & Ordering code

						LVU										
Serie	\$						Configuration example :	LVU	05	00	U		Α	1	0	P01
LVU																
						-										
Size																
0500	Distance between center $= 500 \text{ mm}$															
1000	Distance between center = 1000 mm					-										
1500	Distance between center = 1500 mm					_										
2000	Distance between center $= 2000 \text{ mm}$					_										
Differe	nt sizes on request		0.													
Body		500	Siz	ze 1500	2000											
S	Standard plexiglass body	٠	٠	٠	٠											
U	Plexiglass body, with "U" protection	•	•	•	٠	-										
Р	Pyrex body, with "U" protection	٠	•	•		-										
						-										
Seals																
Α	NBR															
V	FPM					-										
						-										
Conn	ections															
10	Connection G 3/8"					_									_	
20	Connection G 3/8", with drain valve					_				Ev	ecuti	ion _				
										PO			Filtri	stand	lard	
										Px		Cust	-			





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 normally sufficient to invert the float.

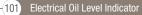


Electrical Oil Level Indicators



LEN - LEG - LET - LEM - LEU	page 103
LVK	115

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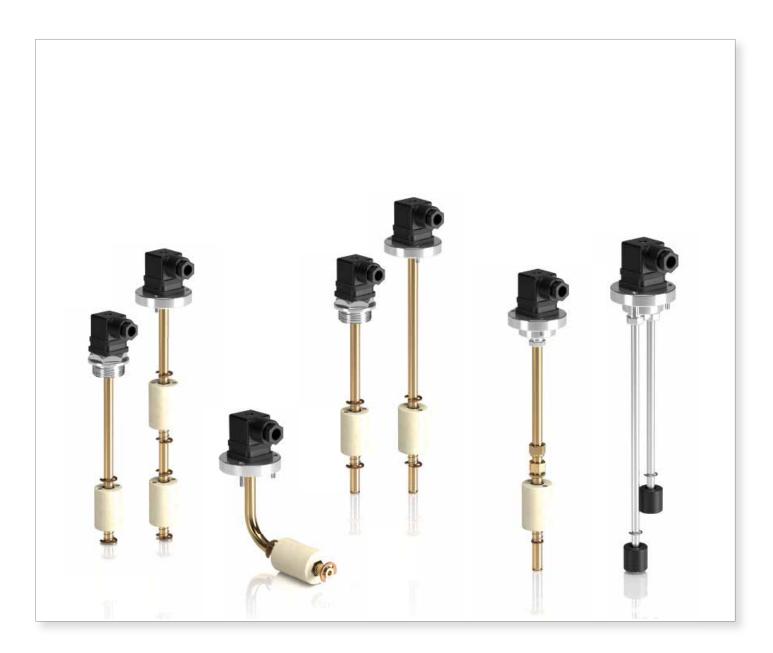






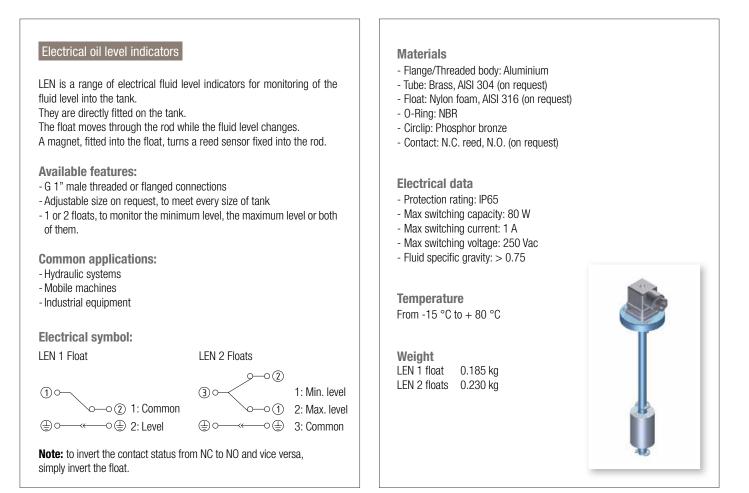
LEN - LEG - LET - LEM - LEU series

Electrical oil level indicators



EN general information

Technical data



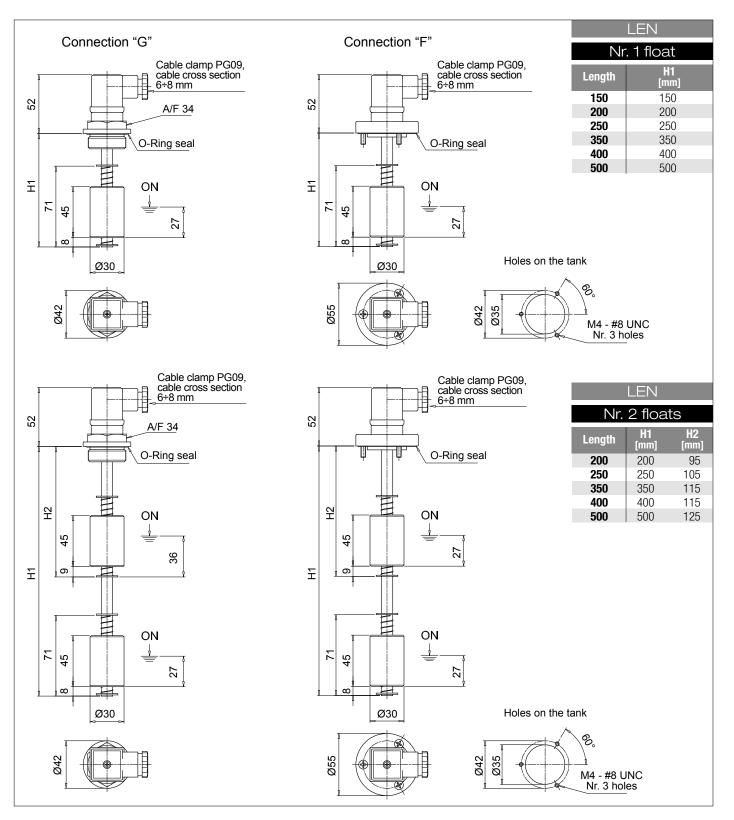
Designation & Ordering code

			LEN										
Serie	S	Configuration exampl	le : LEN	Α	350	2	Α	1	A		G	S	P01
LEN													
	material												
Α	Brass												
Leng	h												
150	200 250 350 400 500												
Num	per of floats 150 200 2	Length 250 350 400 500											
1	Nr. 1 float	• • • •											
2	Nr. 2 floats •	• • • •											
Float	material												
Α	Nylon foam												
Elect	rical switch												
1	N.C. (Normally Closed)												
Coole													
Seals A	NBR												
Conn G	ections to the tank Thread G 1"]		
F	Nr. 3 holes flange												
Elect	rical connection								Execu		tui atam	dord	
S	DIN 43650 connector								P01 Pxx	Custor	tri stan nized	uard	
										545101			





Dimensions



Optional

DIN 43650 CONNECTOR

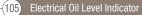
Materials

- Flange: aluminum
- Rod: brass
- Float: nylon foam
- Seals: A= NBR V= FPM

Temperature From -15 °C to +80 °C

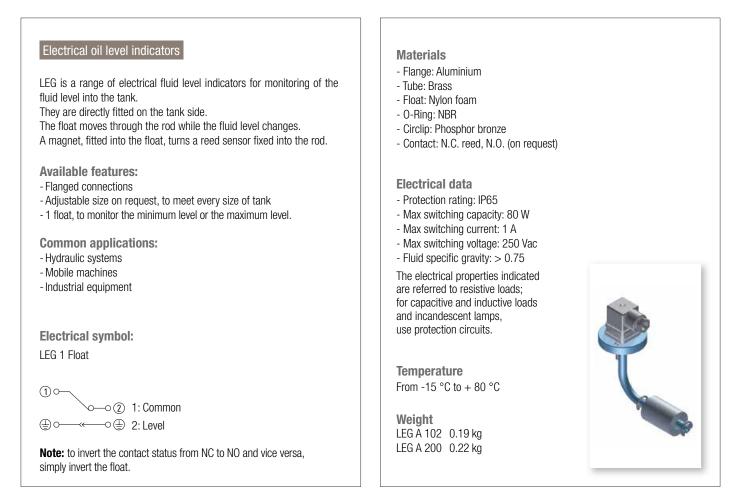
For temperatures outside this range, contact MP Filtri Technical and Sales Department





$\underline{\mathsf{EG}}$ general information

Technical data

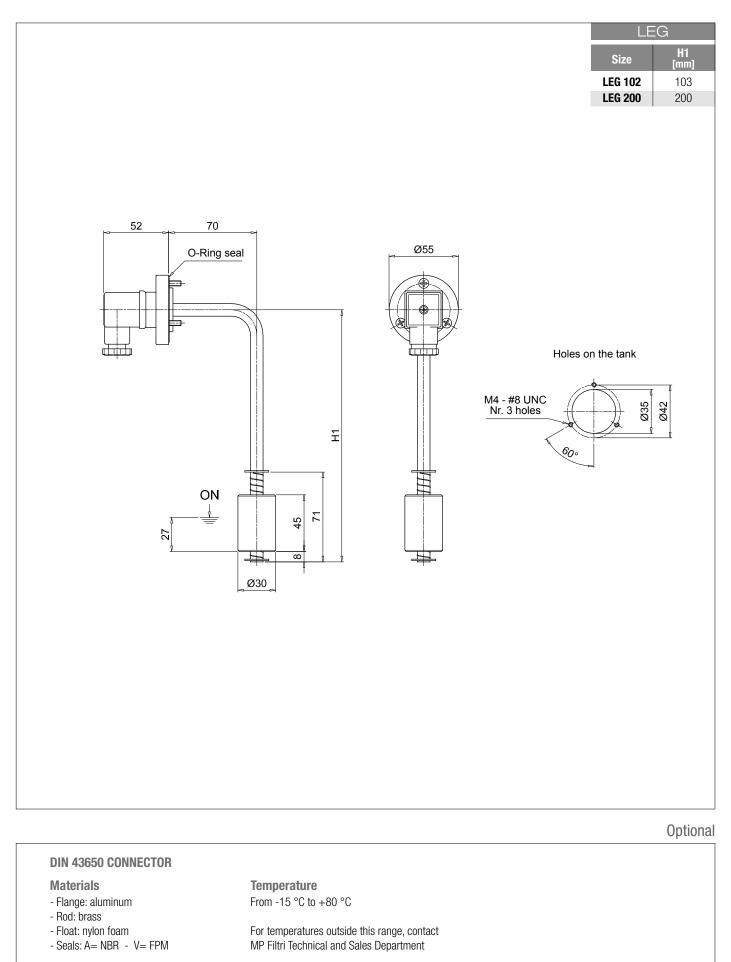


Designation & Ordering code

		LEG												
Series	Configuration example :	LEG	Α	20	0	1	Α	1	A		F	S	P	01
LEG														
Tube material														
A Brass														
Length 102 200														
Number of floats														
1 Nr. 1 float														
Float material A Nylon foam														
nyjon loam														
Electrical switch														
1 N.C. (Normally Closed)														
Seals														
A NBR														
Connection to the tank														
F Nr. 3 holes flange						_								
									_			_	_	
Electrical connection S DIN 43650 connector								P0	ecut 1		iltri sta	anda	'n	
								Px			mized		u	
								<u></u>		0000		~		

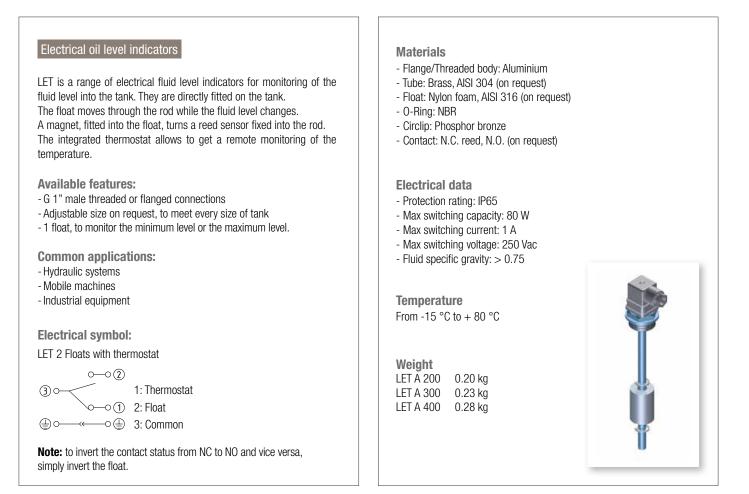






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Technical data

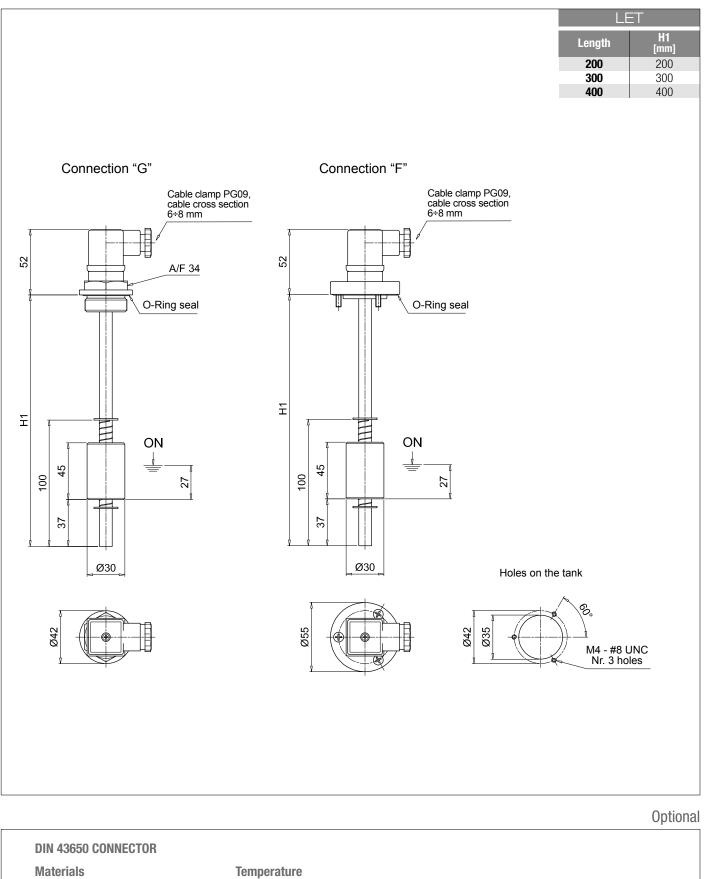


Designation & Ordering code

		LE	Т									
Series	Configuration example :	LET	Α	300	1	Α	1	Α	F	S	50	P01
LET												
Tube material												
A Brass		_										
Length												
200 300 400		_										
Number of floats												
1 Nr. 1 float		_										
Float material												
A Nylon foam		_										
Electrical switch												
1 N.C. (Normally Closed)												
Seals												
A NBR												
Connections to the tank												
G Thread G 1"												
F Nr. 3 holes flange		-										
Electrical connection			Th	ermostat	settina			Exe	cution			
S DIN 43650 connector			50			Normall	y Open)	P01		Filtri s	tandar	d
		-					/	Рхх	Cus	tomize	ed	



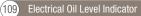




- Flange: aluminum
- Rod: brass
- Float: nylon foam
- Seals: A= NBR V= FPM

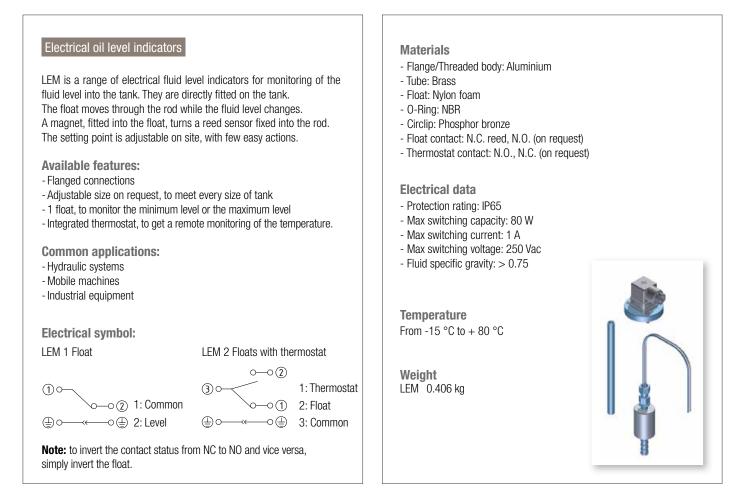
From -15 °C to +80 °C

For temperatures outside this range, contact MP Filtri Technical and Sales Department



LEM GENERAL INFORMATION

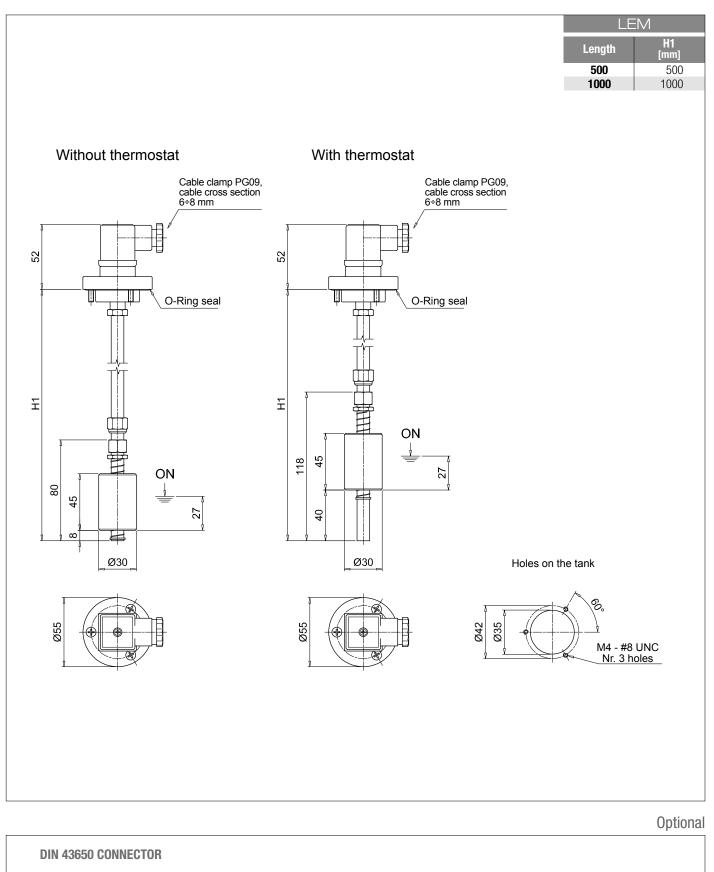
Technical data



Designation & Ordering code

			LEM															
Series	Configuration example :	LEM	Α	1	000	1		A] [-		A		F		S	60	F	P 01
LEM																		
Tube material																		
A Brass																		
L sus alle		_																
Length 500 1000																		
		_																
Number of floats																		
1 Nr. 1 float		_																
Float material																		
A Nylon foam																		
		_																
Electrical switch 1 N.C. (Normally Closed)																		
N.C. (Normany Closed)		_																
Seals																		
A NBR		_																
Connections to the tank																		
F Nr. 3 holes flange																		
Electrical connection				The	rmoet	ot oot	ting					Exe	outie					
S DIN 43650 connector		_		00	ermost W	at set ithou		mos	stat			P01			tri sta	andar	d	
				60		D°C N				Oper	1)	Pxx		Custo				





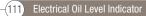
Materials

- Flange: aluminum
- Rod: brass
- Float: nylon foam
- Seals: A= NBR V= FPM

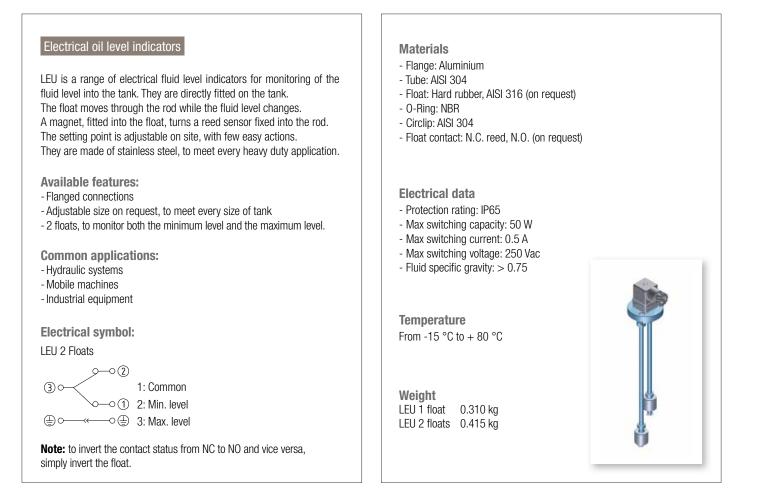
Temperature From -15 °C to +80 °C

For temperatures outside this range, contact MP Filtri Technical and Sales Department





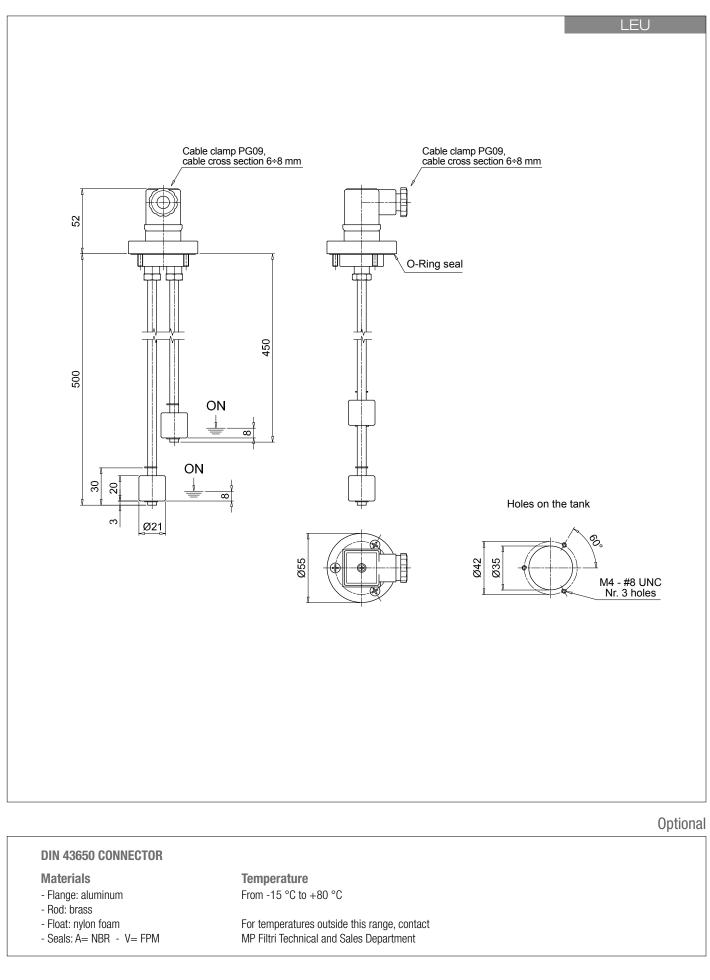
Technical data



Designation & Ordering code

		LEU								
Series	Config	uration example :	LEU	В	2	3	1 /	A F	S	6 P01
LEU										
Tube material		1								
B AISI 304		L								
		-								
Number of floats										
2 Nr. 2 floats		-								
Float material										
B NBR						1				
Electrical switch 1 N.C. (Normally Closed)										
1 N.C. (Normally Closed)		-								
Seals										
A NBR		-								
Connections to the tank		I								
F Nr. 3 holes flange										
		-								
Electrical connection										
S DIN 43650 connector		-								
							Execu	ition		
							P01	MP Filt	ri standa	ard
							Рхх	Custon	nized	













Electrical and visual oil level indicator





LVK GENERAL INFORMATION

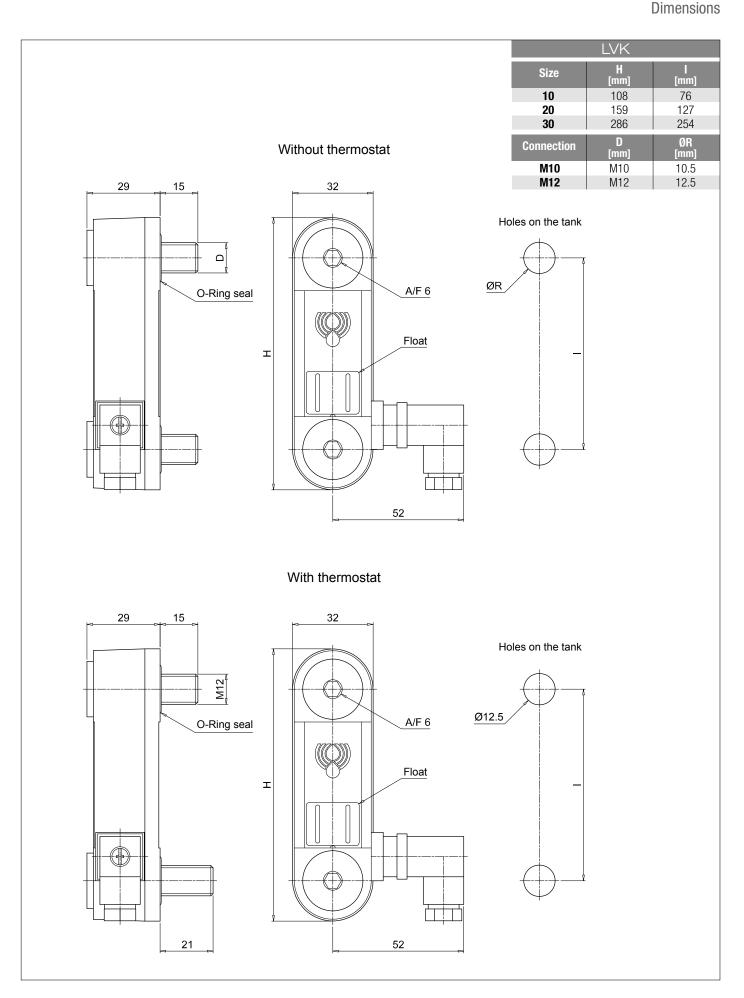
Technical data

Electrical and visual oil level indicators	Materials
LVK is a range of electrical and visual fluid level indicators for monitoring	- Head: Polyamide
of the fluid level into the tank. They are directly fitted on the tank side.	- Screws: Nickel plated brass (standard), Aisi 314 (optional)
The float moves through the indicator housing while the fluid level	- Seal: NBR (standard), FPM (optional)
changes.	- Float: Polyamide
A magnet, fitted into the float, turns a reed sensor fixed into the housing.	- Sensor thermometer: Screw + thermometer
<section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header>	TemperatureFrom -20 °C to + 80 °CWeightLVK 10 0.140 kgLVK 20 0.170 kgLVK 30 0.250 kgOuantity25 pcs/pack

Designation & Ordering code

				LVK							
Series	S			Configuration example :	LVK	20	Α	M12	1	T	5 P01
LVK											
Lengt	h	_									
10	20 30										
	· · ·			-							
Seals A	NBR										
				-							
	ections										
<u>M10</u>	Screws M10 M12	Screws M ²	12	-							
Electr	rical switch in absence of fluid										
1	N.O. (Normally Open)			_							
2	N.C. (Normally Closed)			_							
3	SPDT (single-pole, double throw)			_							
Verei			mection M12								
Versio S	Standard	M10	•								
T	With thermostat	•	•	-							
P	With PT100 sensor		•	-							
		Ve	ersion	-							
Thern	nostat setting	S	T P								
S	Standard (no setting)	•	•	_							
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)		•	_				Exe	cution		
6	60°C N.C. (Normally Closed)		•	_				P01	MP F	iltri stan	dard
7	70°C N.C. (Normally Closed)		•	_				Рхх	Cust	omized	

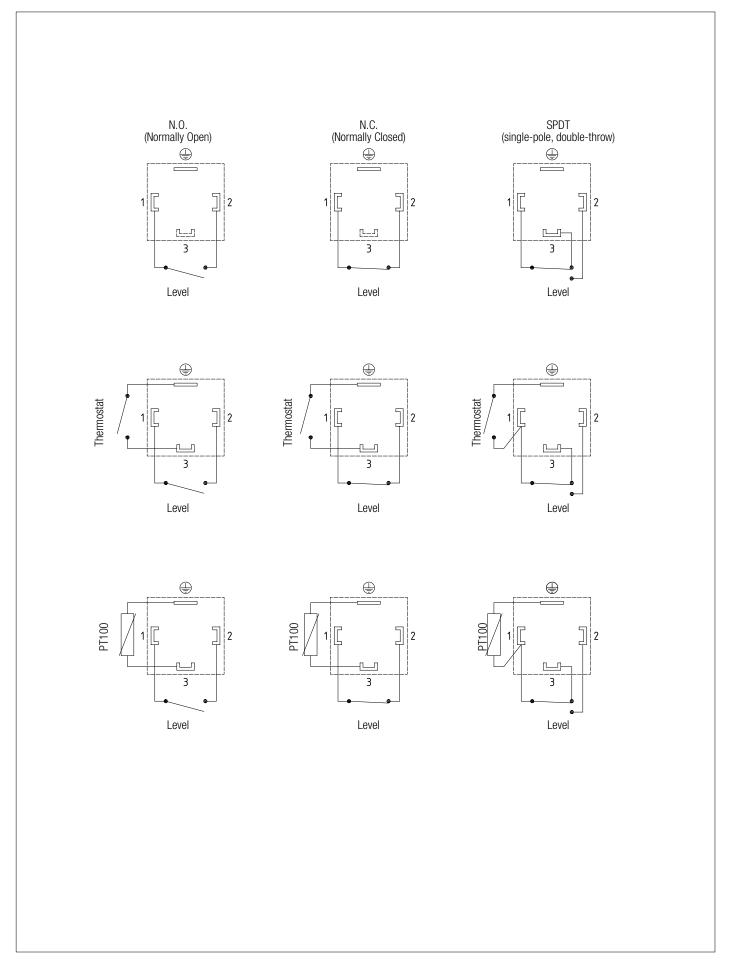






LVK GENERAL INFORMATION

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.

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

CLEANING COVERS, facilitating the maintenance of oil tanks in hydraulic power units, without necessarily having to dismantle the unit.

ALUMINIUM TANKS of 10 litres capacity, allowing the assembly of a compact hydraulic power unit.



Accessories



EM1	page 123
SVM	129
FTA - FTR	133
SFT	137
OB	143
SE10LT	149





Gauge isolator valves





=M1 general information

Technical data

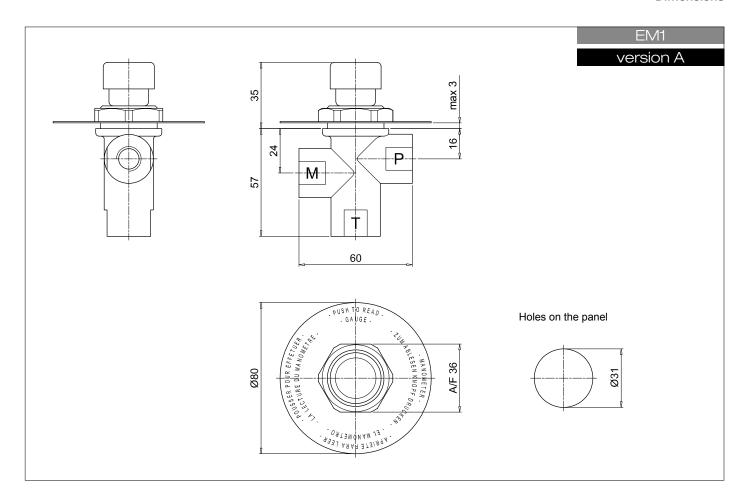
Materials C Materials A-B - Body: Cast iron - Body: Cast iron Gauge isolator valves are designed to protect pressure gauges from - Pin: Steel - Pin: Steel pressure shocks when the pressure reading is not required; after each - Seals: NBR, FPM - Seals: NBR, FPM reading setting the selector to the closed position serves to depressurise - Knob/cover: Nylon - Knob/cover: Nylon the pressure gauge by means of the T fitting connected to the reservoir. - Stop ring: Steel - Stop ring: Steel - Spring: Steel - Spring: Steel 3 and 6-way pressure gauge selectors perform the same function as - Nameplate: Aluminium - Nameplate: Aluminium the gauge isolator valves, allowing pressure values from different parts - Nut-screw: Galvanized steel - Nut-screw: Galvanized steel of the system to be read using a single pressure gauge. - Plug: Anodized steel **Operating pressure** Working instructions: 400 bar - Button not pressed: pressure gauge isolated - Button pressed: pressure gauge reading **Operating temperature** - Button pressed and turned (either to left or right): button remains in From -25 °C to + 100 °C 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. Weight EM1 version A 0.41 kg EM1 version B 0.44 kg EM1 version C 1.00 kg Quantity 25 pcs/pack

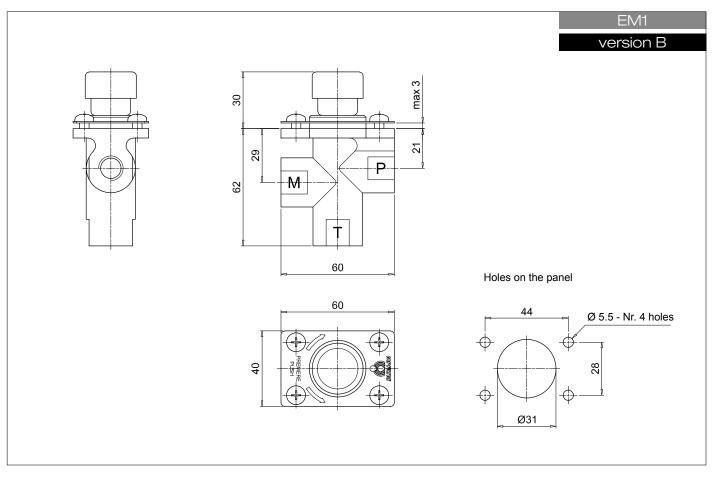
Designation & Ordering code

	EM1						
Series and size		Configuration example :	EM1	Α	G2	Α	P01
EM1	_						
Version							
A Threaded connections, panel mount with hex nut	_						
B Threaded connections, panel mount with screws							
C Manifold/threaded connections, panel mount with screws	_						
Connection							
G1 G 1/4"							
G2 1/4" NPT	_						
G3 SAE 5 - 1/2" - 20 UNF							
Seals							
A NBR							
V FPM							
Execution							
P01 MP Filtri standard							

Pxx Customized



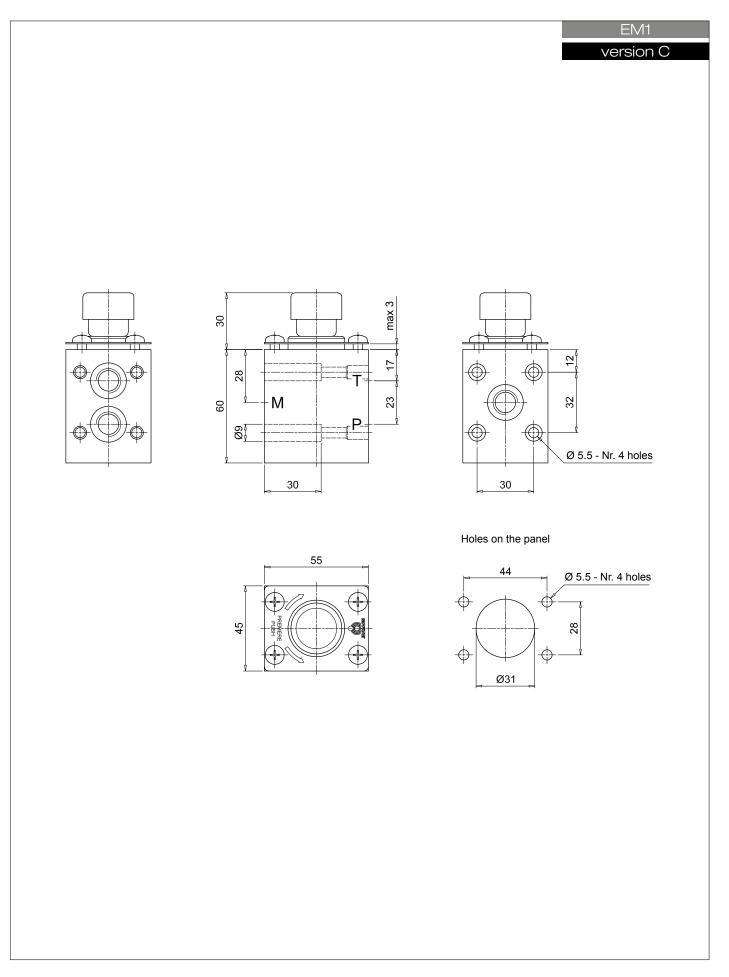




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Accessorie









SVM series

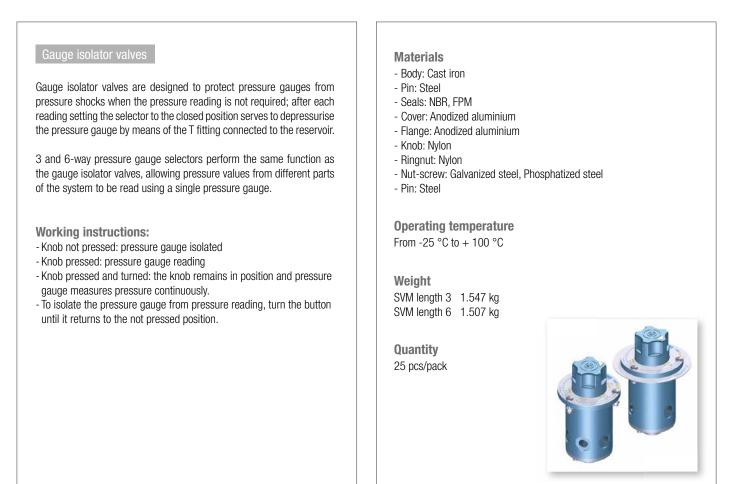
Gauge isolator valves





SVM general information

Technical data

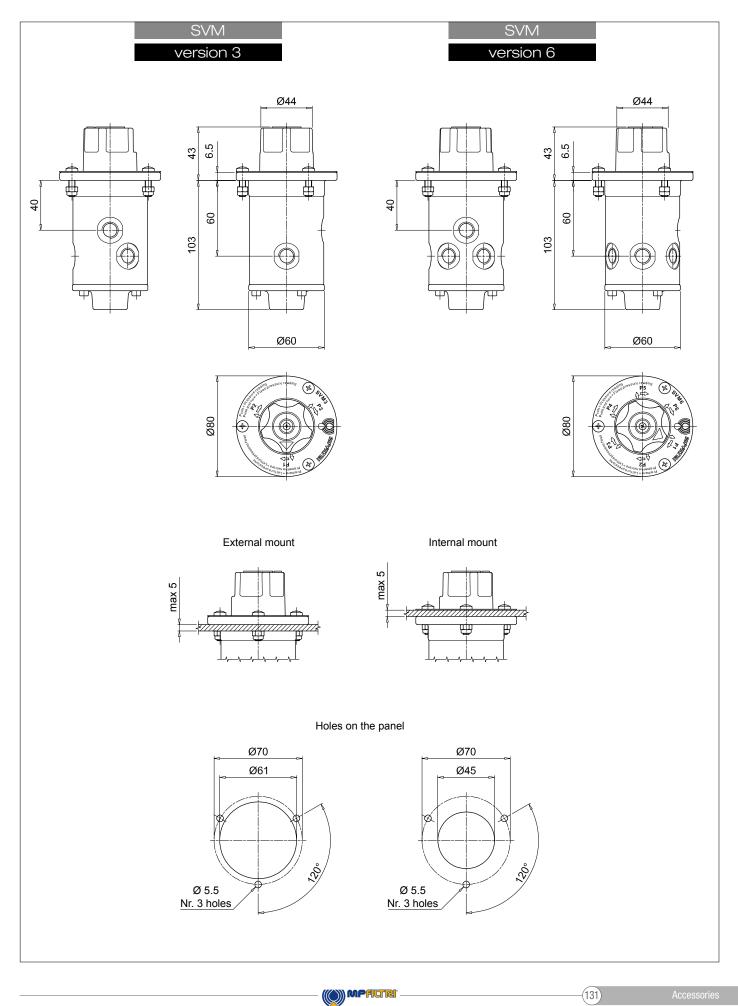


Designation & Ordering code

	SVM
Series and size	Configuration example : SVM 3 G1 A P01
SVM	
Version	
3 Nr. 3 pressure ports	_
6 Nr. 6 pressure ports	
Connection	
G1 G 1/4"	_
G2 1/4" NPT	_
G3 SAE 5 - 1/2" - 20 UNF	
Seals	
A NBR	
V FPM	
Execution	
P01 MP Filtri standard	

Pxx Customized







FTA -FTR series

Oil tank fixing flange





FTA - FTR GENERAL INFORMATION

Technical data

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 wells, absorbing vibration and radiusing plant paise amissions.	Materials - Flange: Galvanized steel - Flange seal: Inorganic fibre - Tube seal: NBR - Screw: Galvanized steel
walls, absorbing vibration and reducing plant noise emissions. Operating pressure 400 bar Operating temperature From -25 °C to + 100 °C	Weight FTA Weight FTR FTA 1215 0.590 kg FTR 0610 0.450 kg FTA 1620 0.570 kg FTR 1215 0.430 kg FTA 2225 0.550 kg FTR 1620 0.400 kg FTA 2630 0.530 kg FTR 2630 0.103 kg FTA 3235 0.500 kg FTR 3235 0.980 kg FTA 3842 0.520 kg FTR 3842 0.950 kg FTA 6061 0.900 kg FTR 4850 0.900 kg FTA 7577 0.860 kg FTR 6061 0.850 kg FTA 8789 0.830 kg FTR 6061 0.850 kg
	Quantity 25 pcs/pack

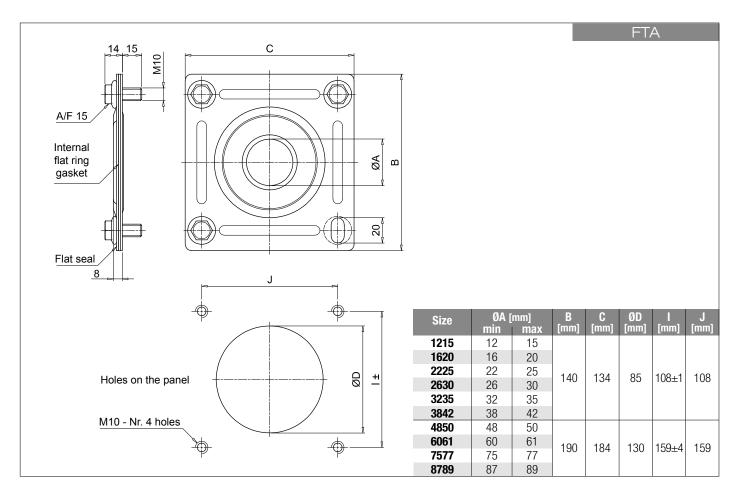
Designation & Ordering code

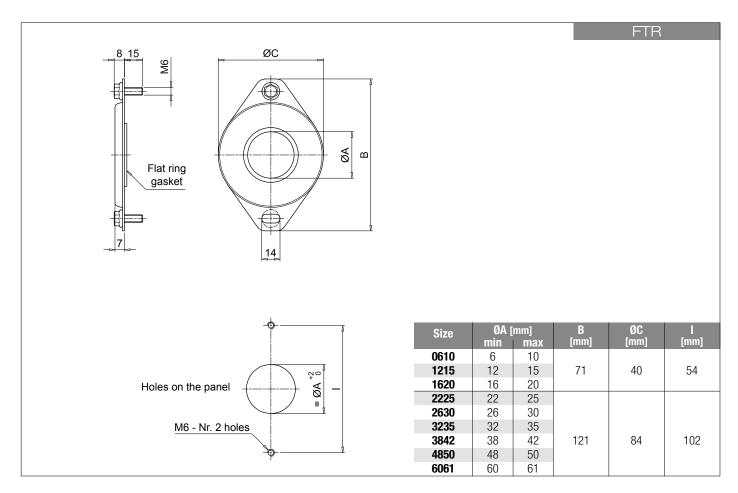
					FTA - FTR						
Series	3					Configuration example :	FTA	2630	G	Α	
FTA		FTR				L					
					_						
Size		E E	ΓΑ	FTR							
0610				•	-						
1215			•	•	-						
620	Pipe Ø16 ÷ 20 mm		•	•	-						
2225				•	-						
2630		•	•	•	-						
3235			•	•	-						
842		•	Ð	•	-						
850			•	•	-						
6061	Pipe Ø60 ÷ 61 mm		•	•	-						
7577			•		-						
8789	Pipe Ø87 ÷ 89 mm		•		-						
	e seals	1	TA	FTR							
G	Inorganic fiber		•								
)	Without seal			•							
Pipe s											
Α	NBR										
Execu											
P01	MP Filtri standard				-						
Рхх	Customized				-						

Accessories

FTA - FTR

Dimensions







Accessorie





Fixing clamps





SFT MULTIFIX GENERAL INFORMATION

Technical data

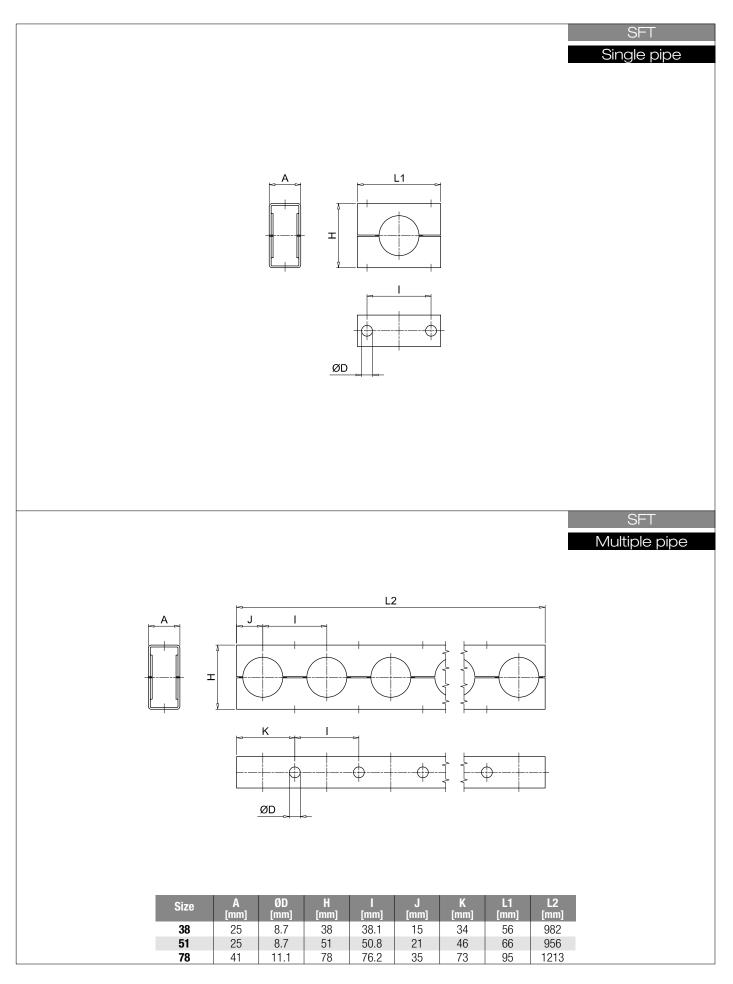
Fixing clamps MULTIFIX fixing clamps are particularly suitable when a series of pipelines must be installed requiring neat and high precision installation. These brackets make it possible to install various pipelines of different types and diameters, rapidly, easily, and, more importantly, economically.	Materials - Pair of brackets: Galvanized steel - Bush: NBR - Spacer: Steel - Studs: Steel - Screws: Steel - Foot and screw: Steel
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.	Weight SFT 38 1 0.050 kg SFT 51 1 0.100 kg SFT 78 1 0.570 kgOperating temperature From -25 °C to + 100 °CQuantity 25 pcs/pack

Designation & Ordering code

					SFT
Serie	S				Configuration example : SFT 51 19 P01
SFT	Pair of brackets				
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				
Рхх	Customized				_

SFT MULTIFIX

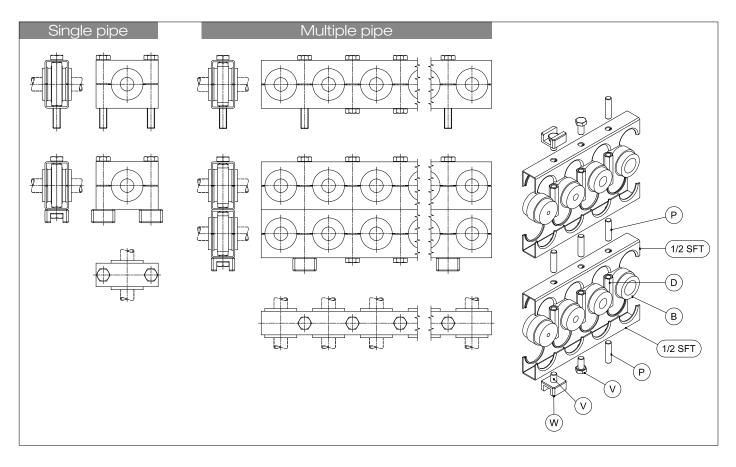
Dimensions

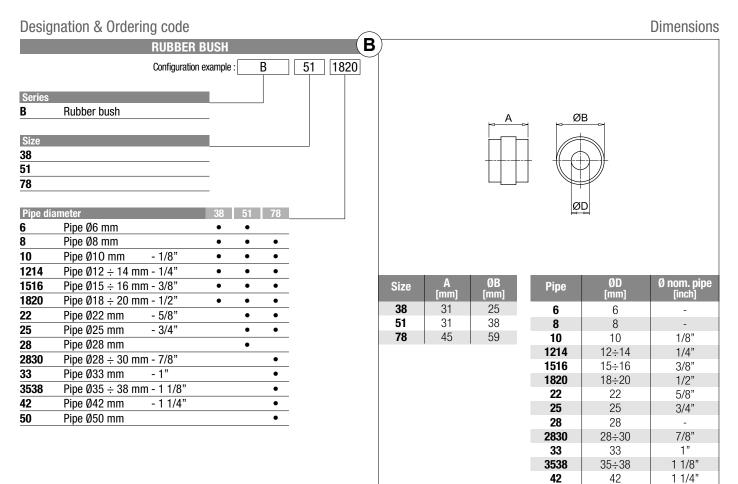




SFT MULTIFIX

Assembly





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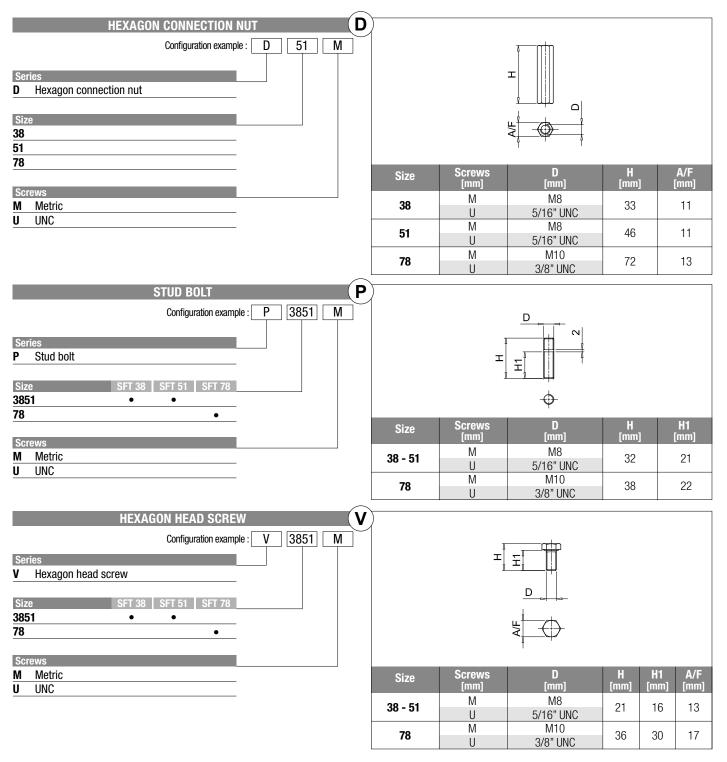
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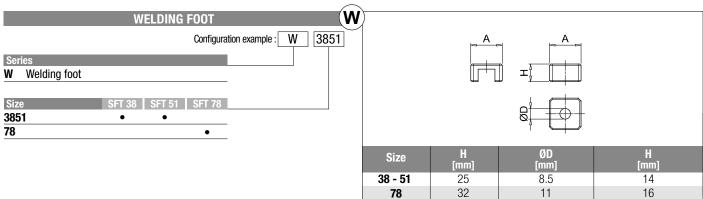
Accessories

SFT MULTIFIX

Designation & Ordering code

Dimensions









Cleaning covers





GENERAL INFORMATION

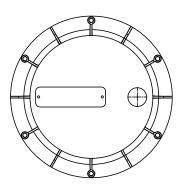
Technical data

Cleaning covers The pressure die-cast aluminium alloy cleaning covers offer superior mechanical strength and are manufactured to DIN 24339 standard. They provide easy access to the inside of the oil tank for inspection and cleaning purposes, without necessarily having to dismantle the unit.	Materials - Cleaning covers: Pressure die-cast aluminium alloy / cast iron - Seal: NBR 70 Shore A
On request and also for small quantities inspection doors can be supplied with: - customer logo - hole cut for visual level indicator - hole cut for visual and electrical level indicator - oil sample plug Compatibility with fluids - Mineral oils types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard - Water based emulsions types HFAE-HFAS, to ISO 6743/4 standard - Water glycol type HFC, to ISO 6743/4 standard: ask for anodized version OB275 and OB400 cleaning covers are designed according to DIN 24339.	Weight with seal without seal 0B275 2.06 kg 1.76 kg 0B350 2.10 kg 1.80 kg 0B356 2.10 kg 1.80 kg 0B400 3.20 kg 2.90 kg 0B475 3.70 kg 3.40 kg Operating temperature From -30 °C to +80 °C

Designation & Ordering code

	OB	
Size		
0B275		
0B350		
OB356		
OB400		
0B400 0B475		

Available customization



Nameplate with customer logo Ordering information: **OB475LOGOP05**

The nameplates applied to the new inspection door are identical to those applied to the old door. The difference with the new door is that nameplates are fixed with rivets.

For ordering information codes, minimum order quantities, fixing hole positions and other details not indicated in this publication, contact MP Filtri Technical and Sales Department.

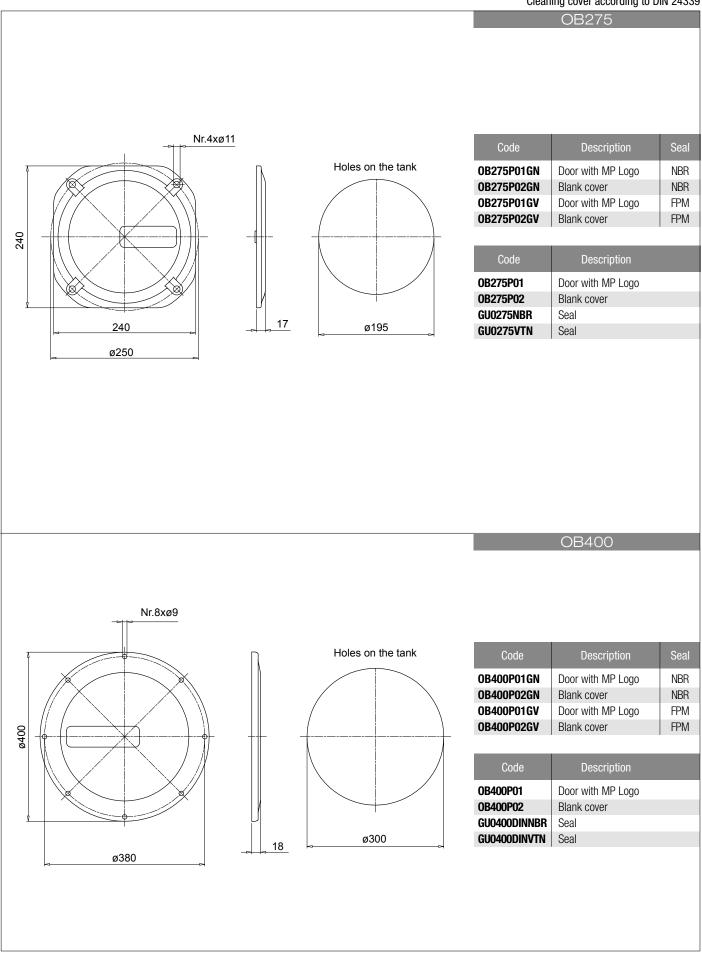




(145)

Dimensions

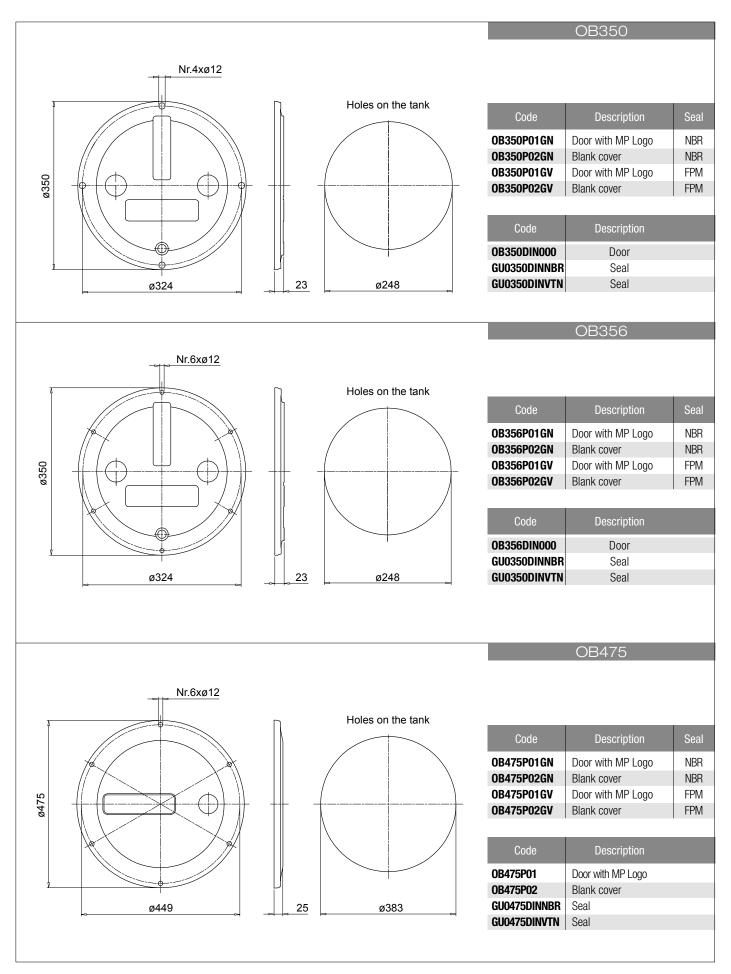
Cleaning cover according to DIN 24339



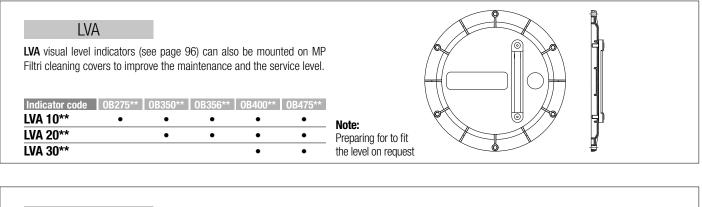
(()) MPALTRI

OB 0B350 - 0B356 - 0B475

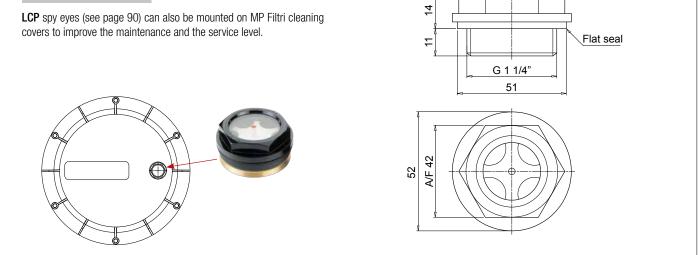
Dimensions







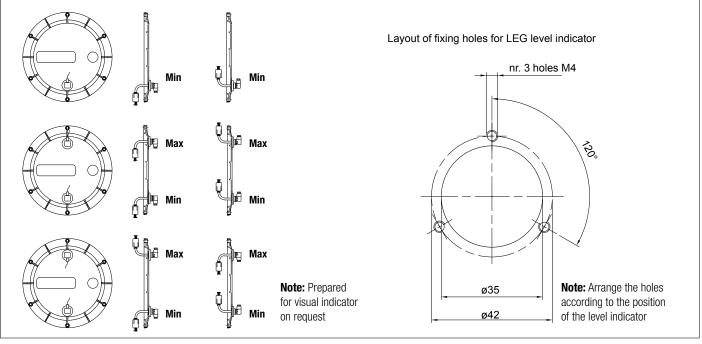




LEG

LEG series electrical level indicators (see page 106) are supplied with a 3-hole fixing flange and a reed switch having NC-NO contacts. Designed typically for installation on the vertical walls of oil tanks, these devices can also be mounted onto OB475 inspection door to indicate the minimum and maximum oil levels in the tank.

To operate correctly, the float must be positioned vertically and at a minimum distance of 35 mm from walls made of ferrous metal.







SE10LT series

Aluminium tanks





SE10LT GENERAL INFORMATION

Technical data

Aluminium tanks

With 10 litres capacity, MP Filtri aluminium tank SE10LT allows the assembly of a compact hydraulic power unit.

Made of pressure die-cast aluminium alloy, these tanks feature superior strength and optimum design and are ideal for compact hydraulic power units.

Generously proportioned fins ensure efficient cooling.

The tank is supplied with:

- M6 threaded fixing holes for lid
- feet with M8 threaded fixing holes
- G 3/8" threaded drain hole

The lid is sealed by a gasket made of special paper, which must be ordered separately indicating code "GUS 10.0".

Material Pressure die-cast aluminium alloy

Weight SE10LT 4 kg



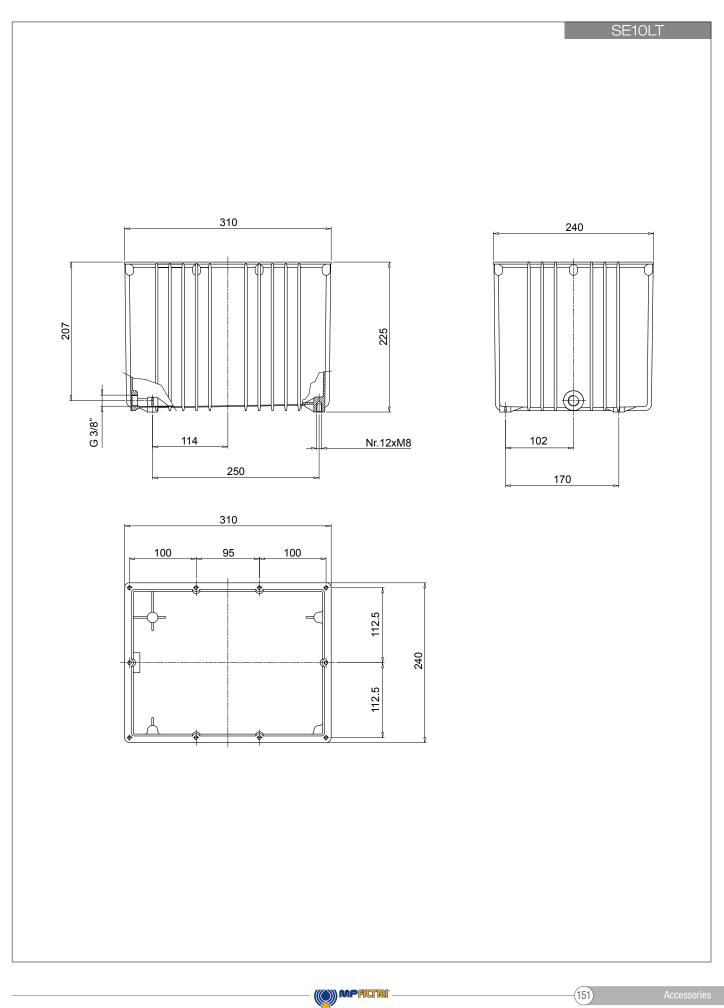
Designation & Ordering code

SE10LT

Size SE10LT



Dimensions



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