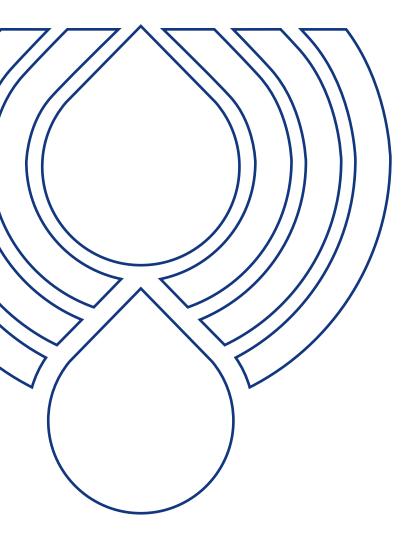
# **TANK ACCESSORIES**

FILLER AND DRAIN PLUGS



PASSION TO PERFORM





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

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





## **WORLDWIDE PRESENCE**

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

The Group boasts **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.

















#### SUCTION **FILTERS**

Flow rates up to 875 l/min

#### Mounting:

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

#### **RETURN FILTERS**

Flow rates up to 3000 l/min

Pressure

up to 20 bar

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

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

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

Flow rates up to 3000 I/min

Pressure up to 80 bar

Mounting:

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

#### HIGH PRESSURE **FILTERS**

Flow rates up to 750 l/min

Pressure from 110 bar up to 560 bar

Mounting:

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



### **PRODUCT RANGE**

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

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

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

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









#### STAINLESS STEEL HIGH PRESSURE FILTERS

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

#### Mounting:

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

# CONTAMINATION MONITORING PRODUCTS

- 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

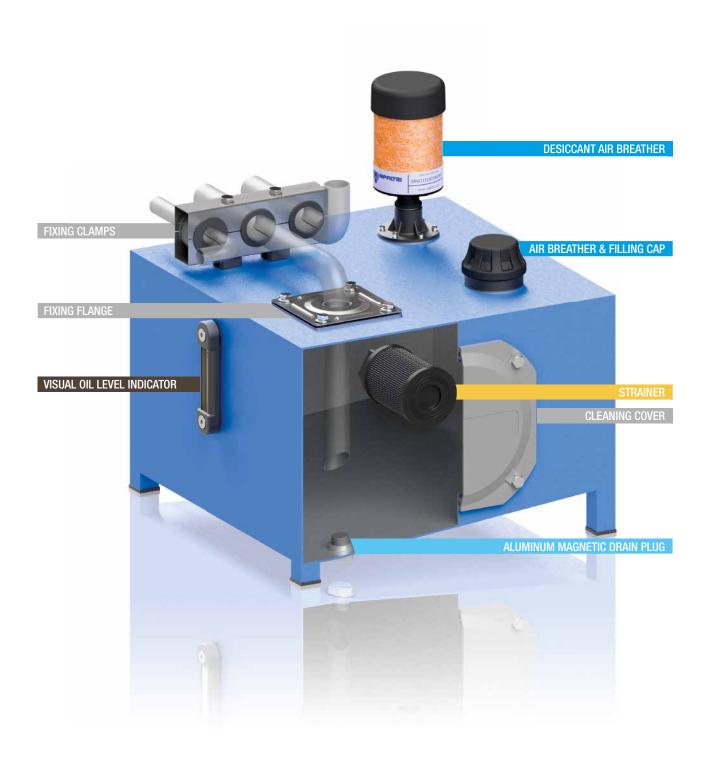
# POWER TRANSMISSION PRODUCTS

- 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**







1 pag	je	INTRODUCTION
1	COMPANY	
6	PRODUCT RANGE	

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

20 pag	je	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
53	TA 80	Filling cap
57	TAP 90	Air breather & filling cap
63	TAP 114	Air breather & filling cap
67	TAP 115 & SAP 115	Filling cap, air breather & filling cap

72 page	e	FILLER AND DRAIN PLUGS
75	TC 50	Nylon filler plug
79	TKT - TSD	Nylon filler plugs
79	TKM	Aluminium magnetic drain plug

86 pag	ge	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



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



# 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
- Caps with different graphics and colours, for the use in several applications

#### **Common applications:**

- Hydraulic systems
- Mobile machines
- Industrial 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

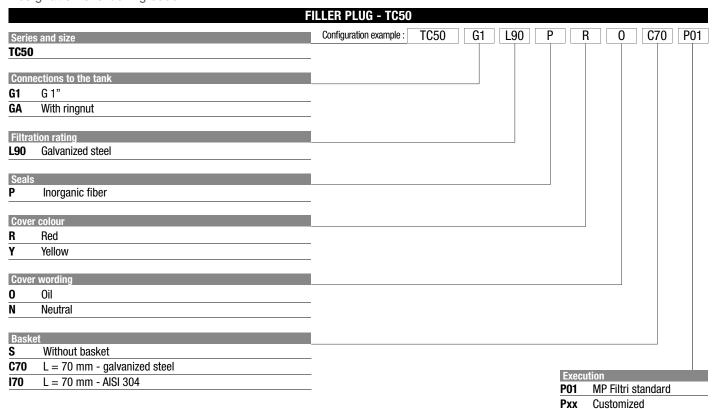
TC 50 G1" conn. 0.70 kg TC 50 with ringnut 0.10 kg

#### Quantity

25 pcs/pack



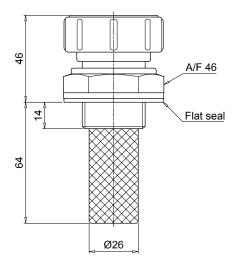
#### Designation & Ordering code

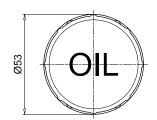


Dimensions

### TC50

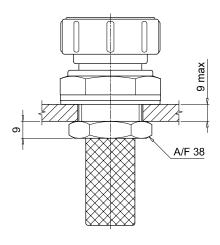
## Threaded connection



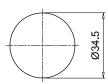


### TC50

## With ringnut



Through hole on the tank





# TKT - TSD - TKM series

Nylon and aluminium filler and drain plugs



#### 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

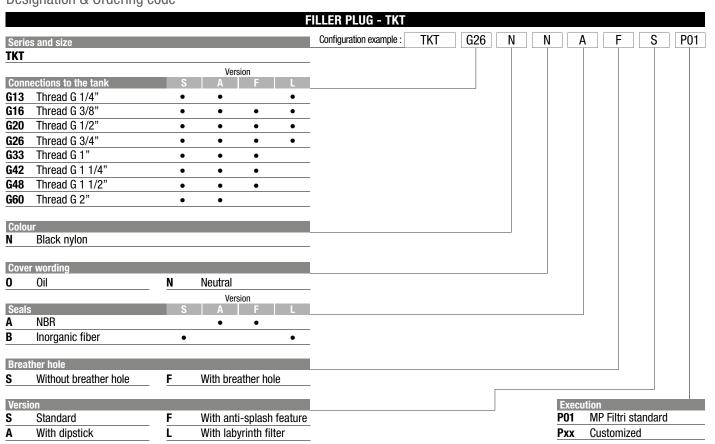
TKTG 13 5 g
TKTG 16 8 g
TKTG 20 10 g
TKTG 26 15 g
TKTG 33 30 g
TKTG 42 32 g
TKTG 60 35 g

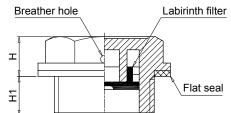
#### Quantity

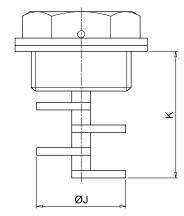
25 pcs/pack

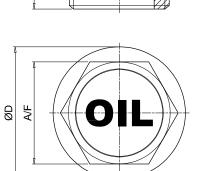


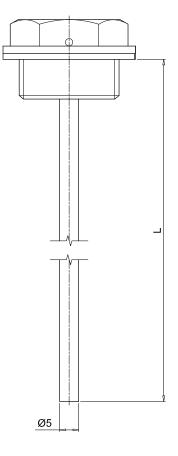
#### Designation & Ordering code











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

#### 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

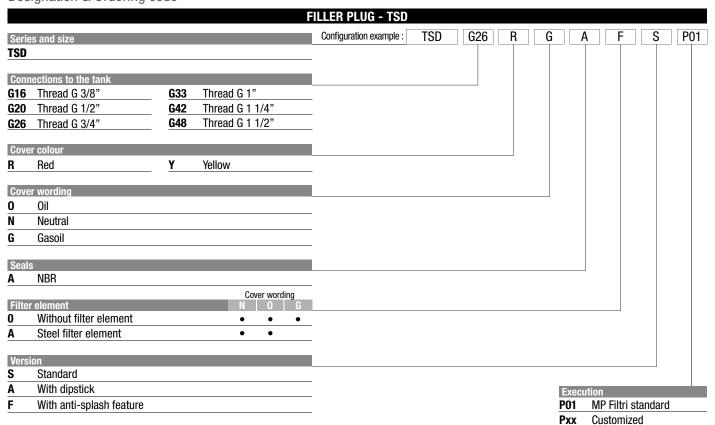
TSDG48 74 g

#### Quantity

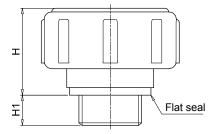
25 pcs/pack

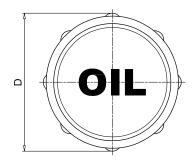


#### Designation & Ordering code

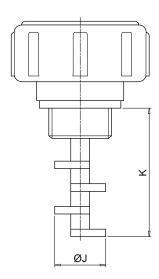


Version 0

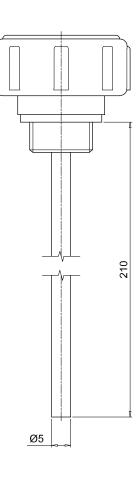




Version F



#### 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
<b>G26</b>	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

#### Technical data

#### Drain plugs

#### Aluminium magnetic 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 usually 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
- 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

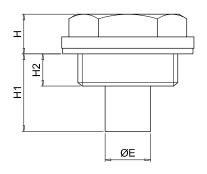
1 pc/pack

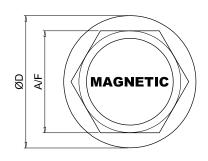


#### Designation & Ordering code

9	n a cracing coac	DRAIN PLUG - TKM					
		DRAIN FLUG - TRIVI	0	TIA	000		DO:
Series and size			Configuration example :	TKM	G20	В	PO <sup>-</sup>
TKM							
Connections to	the tank						
G13 Thread	I G 1/4"						
G16 Thread	I G 3/8"						
<b>G20</b> Thread	I G 1/2"						
<b>G26</b> Thread	I G 3/4"						
G33 Thread	I G 1"						
Seals							
	nic fiber						
		<del></del>					
				_			
				Execu		andard	
				P01	MP Filtri st		
				Pxx	Customized	d	

84)-





Connection	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



# **WORLDWIDE NETWORK**

#### **HEADQUARTERS**

#### MP Filtri S.p.A.

Pessano con Bornago Milano - Italy +39 02 957031 sales@mpfiltri.it

#### **BRANCH OFFICES**

#### **ITALFILTRI LLC**

Moscow - Russia +7 (495) 220 94 60 mpfiltrirussia@yahoo.com

#### MP Filtri Canada Inc.

Concord, Ontario - Canada +1 905 303 1369 sales@mpfiltricanada.com

#### **MP Filtri France SAS**

Villeneuve la Garenne France +33 (0)1 40 86 47 00 sales@mpfiltrifrance.com

#### **MP Filtri Germany GmbH**

St. Ingbert - Germany +49 (0) 6894 95652-0 sales@mpfiltri.de

#### MP Filtri India Pvt. Ltd.

Bangalore - India +91 80 4147 7444 / +91 80 4146 1444 sales@mpfiltri.co.in

#### MP Filtri (Shanghai) Co., Ltd.

Shanghai - Minhang District - China +86 21 58919916 116 sales@mpfiltrishanghai.com

#### MP Filtri U.K. Ltd.

Bourton on the Water Gloucestershire - United Kingdom +44 (0) 1451 822 522 sales@mpfiltri.co.uk

#### MP Filtri U.S.A. Inc.

Quakertown, PA - U.S.A. +1 215 529 1300 sales@mpfiltriusa.com



# **PASSION TO PERFORM**

