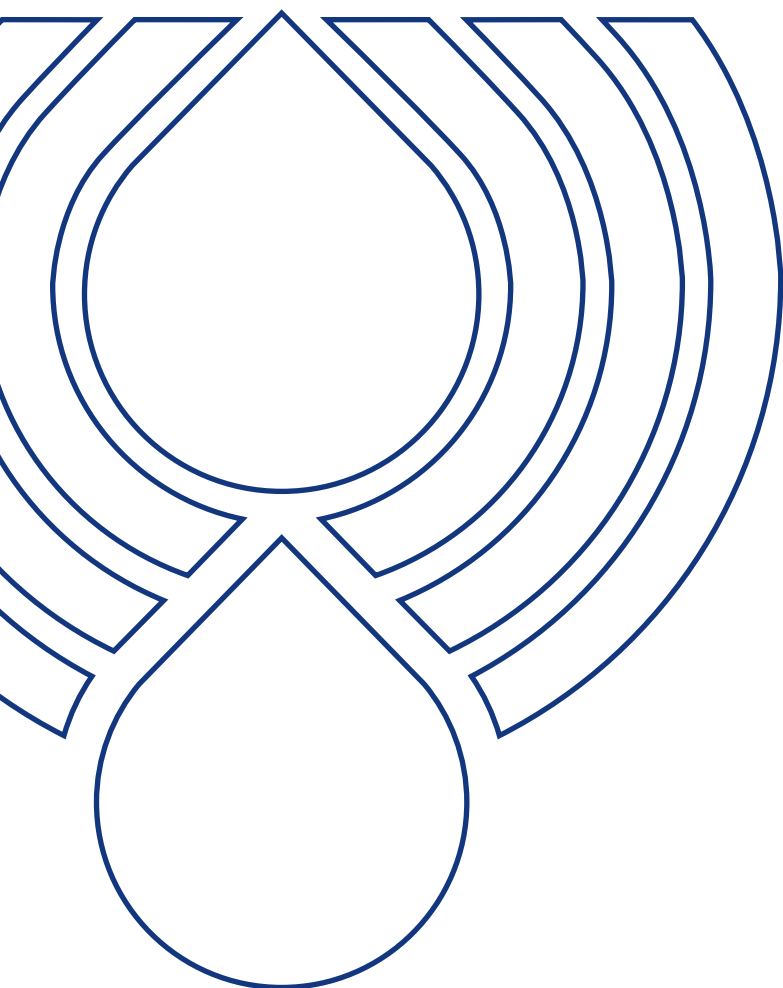


TANK ACCESSORIES

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.

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



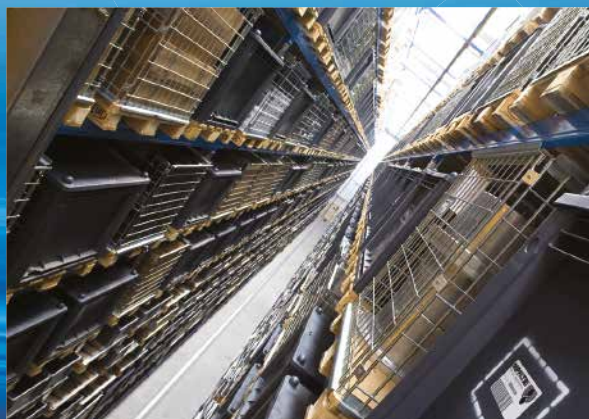
TECHNOLOGY

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.**





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 l/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 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

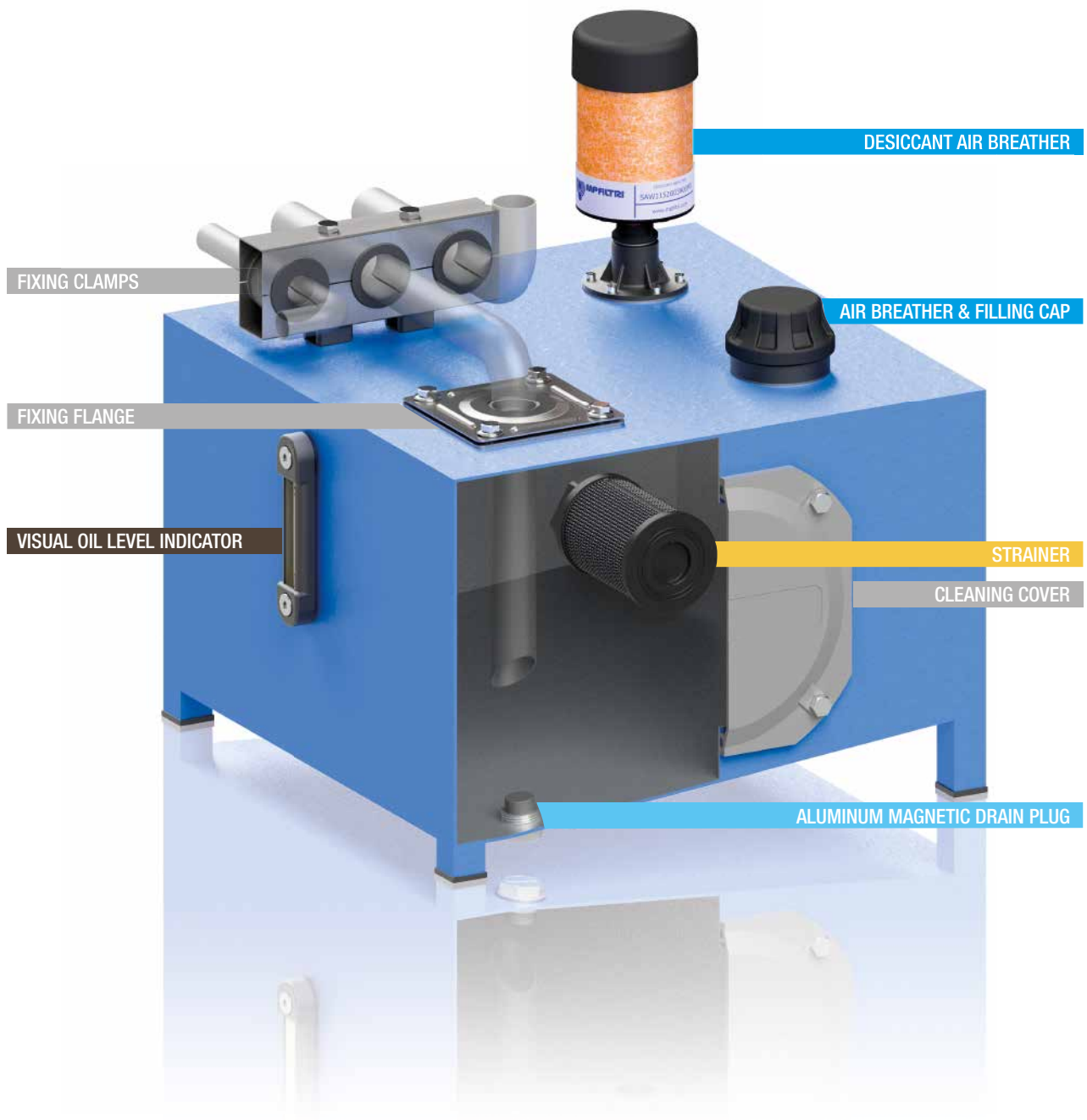
POWER TRANSMISSION PRODUCTS

- 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



1 page INTRODUCTION

1	COMPANY
6	PRODUCT RANGE

10 page STRAINERS

13	STR & MPA - MPM	Submerged suction filter, with bypass or magnetic column
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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
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 FILLER AND DRAIN PLUGS

75	TC 50	Nylon filler plug
79	TKT - TSD	Nylon filler plugs
79	TKM	Aluminium magnetic drain plug

86 page 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



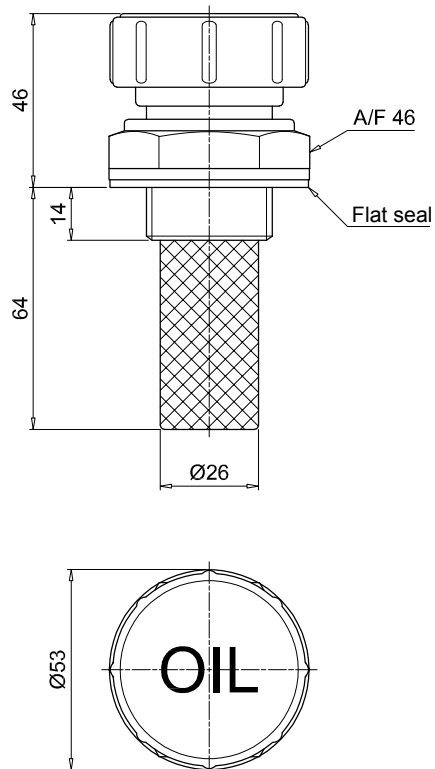
Designation & Ordering code

FILLER PLUG - TC50

Series and size	Configuration example :								
TC50	TC50	G1	L90	P	R	O	C70	P01	
Connections to the tank									
G1 G 1"									
GA With ringnut									
Filtration rating									
L90 Galvanized steel									
Seals									
P Inorganic fiber									
Cover colour									
R Red									
Y Yellow									
Cover wording									
O Oil									
N Neutral									
Basket									
S Without basket									
C70 L = 70 mm - galvanized steel									
I70 L = 70 mm - AISI 304									
Execution									
P01 MP Filtri standard									
Pxx Customized									

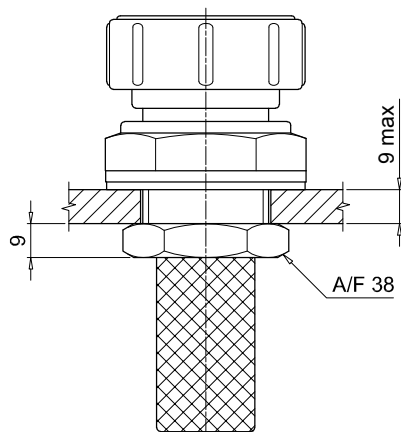
TC50

Threaded connection

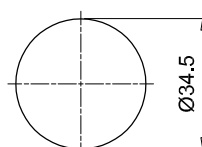


TC50

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 impregnate 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

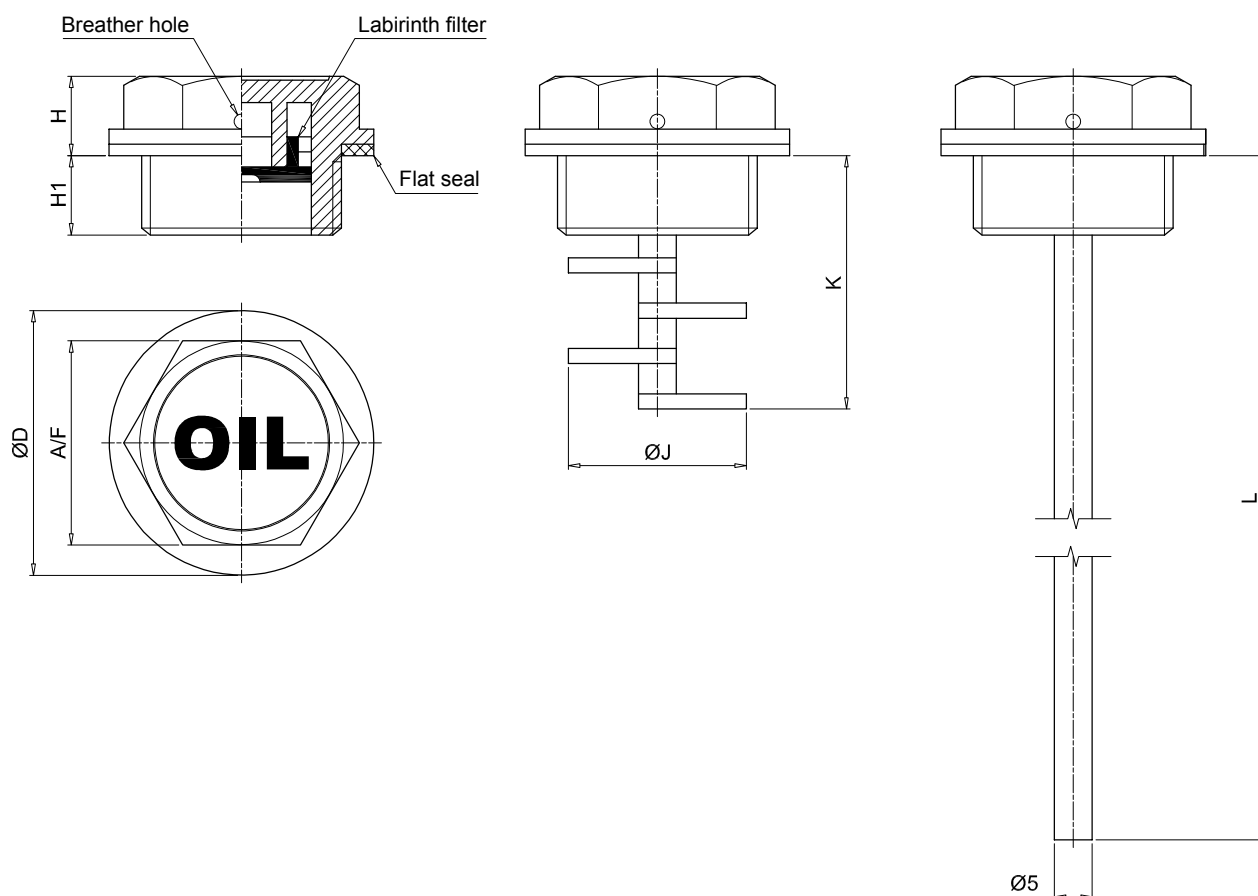
25 pcs/pack



Designation & Ordering code

FILLER PLUG - TKT

Series and size	Configuration example :									
TKT	TKT	G26	N	N	A	F	S	P01		
Connections to the tank	Version									
	S	A	F	L						
G13 Thread G 1/4"	•	•		•						
G16 Thread G 3/8"	•	•	•	•						
G20 Thread G 1/2"	•	•	•	•						
G26 Thread G 3/4"	•	•	•	•						
G33 Thread G 1"	•	•	•							
G42 Thread G 1 1/4"	•	•	•							
G48 Thread G 1 1/2"	•	•	•							
G60 Thread G 2"	•	•								
Colour										
N Black nylon										
Cover wording										
O Oil	N Neutral									
Seals	Version									
	S	A	F	L						
A NBR		•	•							
B Inorganic fiber	•			•						
Breather hole										
S Without breather hole	F With breather hole									
Version										
S Standard	F With anti-splash feature									
A With dipstick	L With labyrinth filter									
Execution										
P01 MP Filtri standard										
Pxx Customized										



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

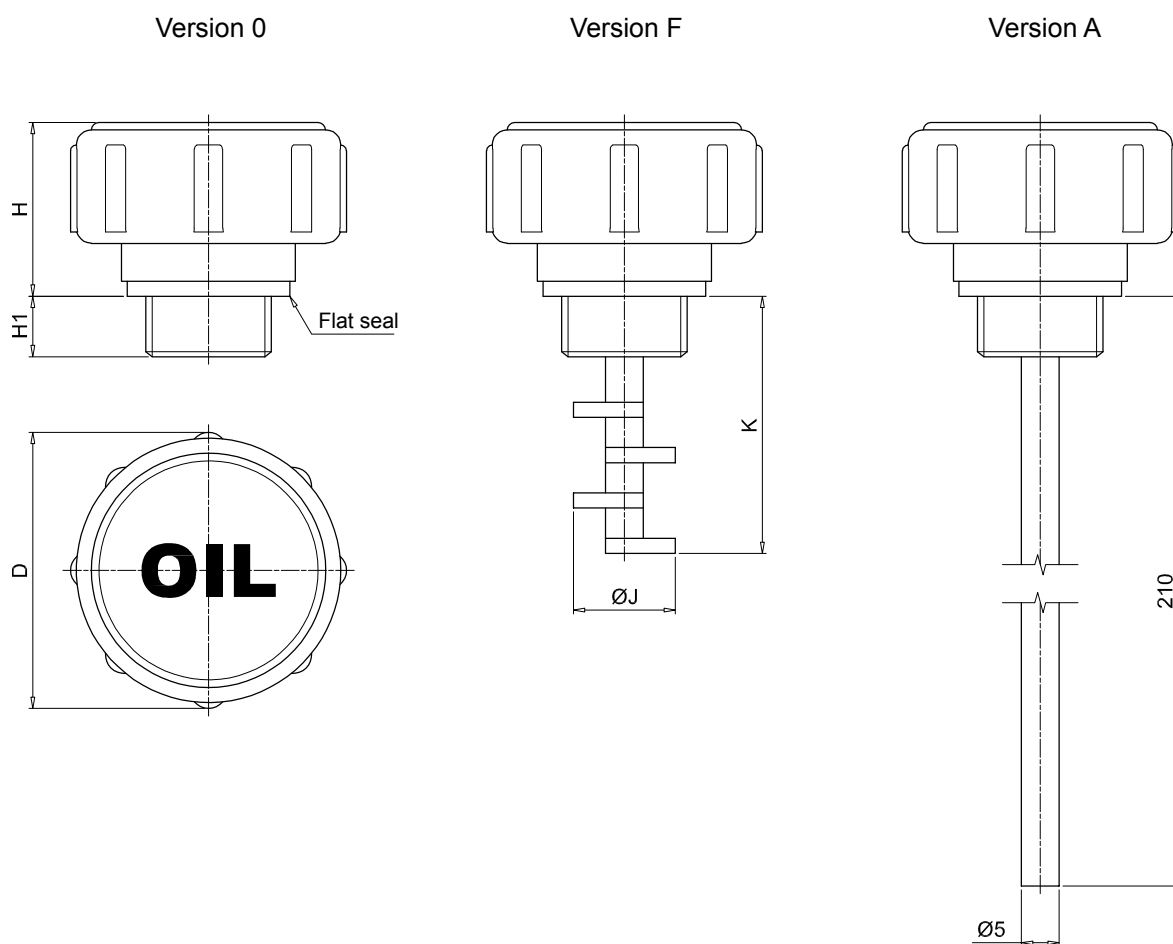
25 pcs/pack



Designation & Ordering code

FILLER PLUG - TSD

Series and size	Configuration example :								
TSD	TSD	G26	R	G	A	F	S	P01	
Connections to the tank									
G16 Thread G 3/8"	G33 Thread G 1"								
G20 Thread G 1/2"	G42 Thread G 1 1/4"								
G26 Thread G 3/4"	G48 Thread G 1 1/2"								
Cover colour									
R Red	Y Yellow								
Cover wording									
O Oil									
N Neutral									
G Gasoil									
Seals									
A NBR									
Filter element			Cover wording						
O Without filter element	•	•	•						
A Steel filter element	•	•							
Version									
S Standard									
A With dipstick									
F With anti-splash feature									
								Execution	
								P01 MP Filtri standard	
								Pxx Customized	



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

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

DRAIN PLUG - TKM

Series and size

TKM

Configuration example: **TKM** **G20** **B** **P01**

Connections 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"

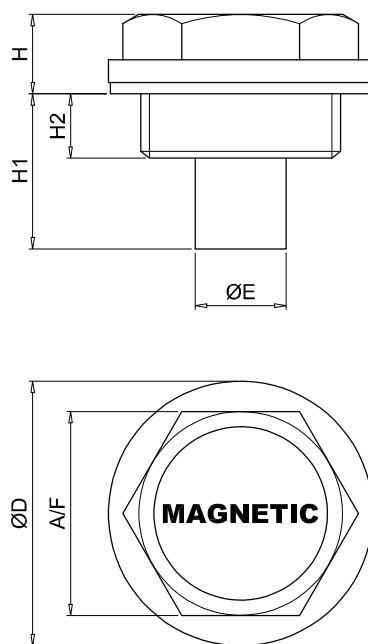
Seals

B Inorganic fiber

Execution

P01 MP Filtri standard

Pxx Customized



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



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