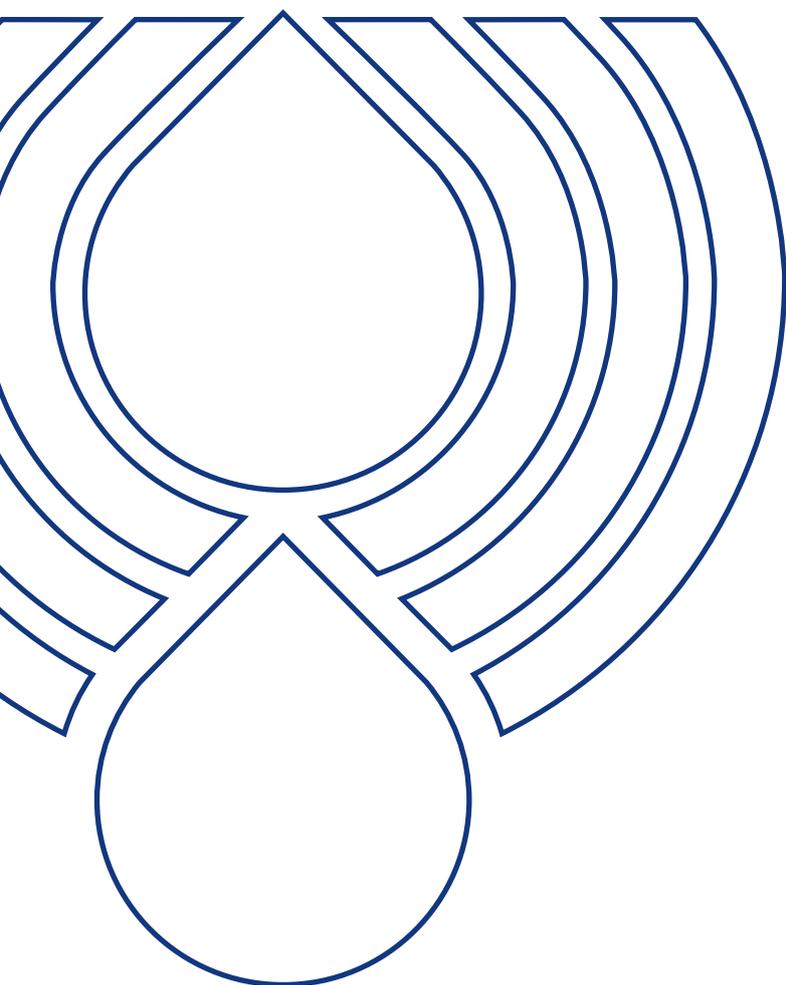


TANK ACCESSORIES

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 **9** 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

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

MOBILE FILTRATION UNITS

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

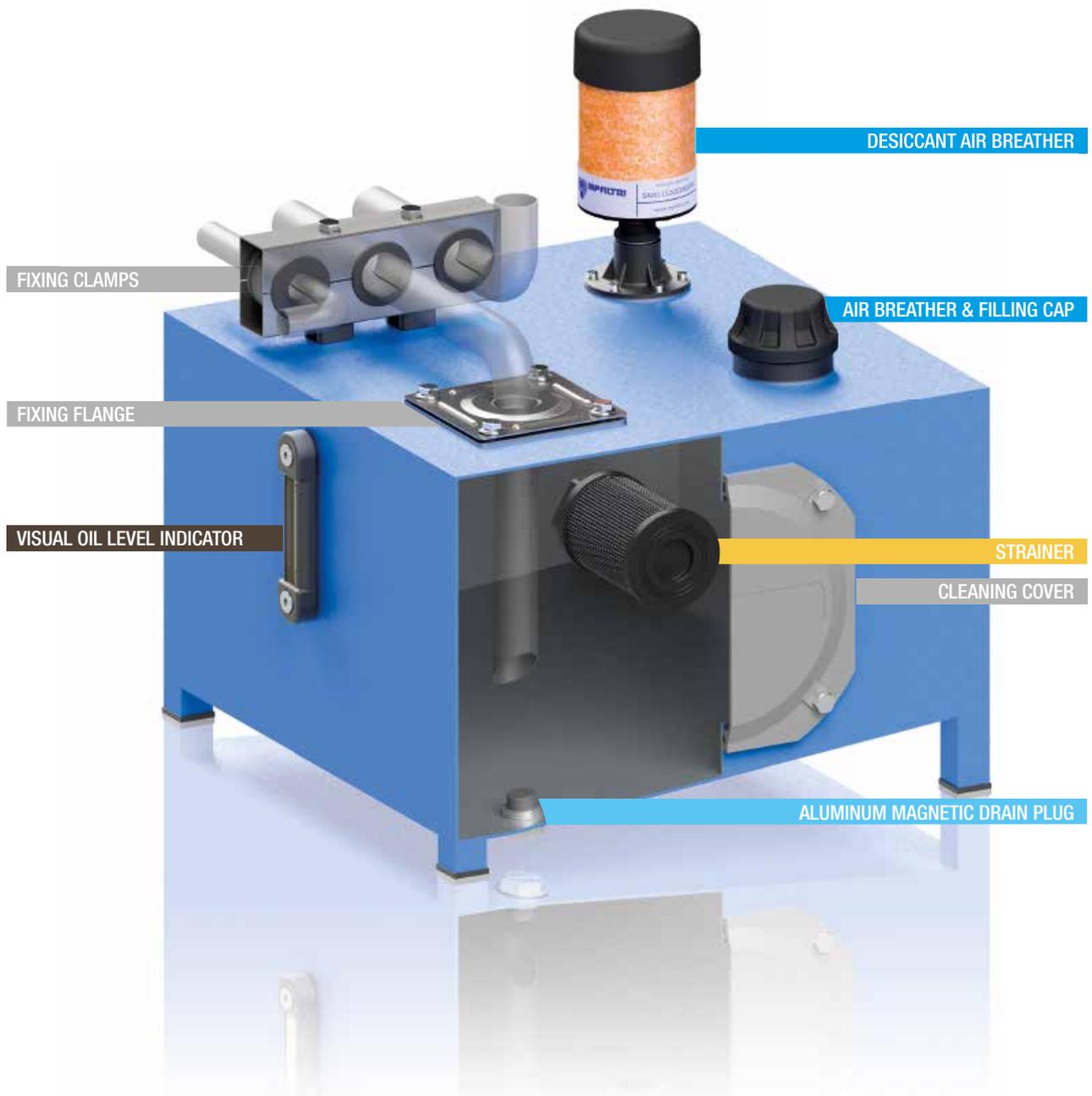
POWER TRANSMISSION PRODUCTS

- 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
20	page	AIR BREATHERS AND FILLER PLUGS	
23		SAP 054-075 - SA	Air breathers
29		SAW 115	Moisture control 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	Filler plug and air filter up to 200 l/min
53		TA 80	Steel filler plug and air filter up to 500 l/min
57		TAP 90	Filler plug and polyamide air filter up to 550 l/min
63		TAP 114	Filler plug and polyamide air filter up to 1600 l/min
67		TAP 115 & SAP 115	Filler plug and polyamide air filter up to 3000 l/min
72	page	FILLER AND DRAIN PLUGS	
75		TC 50	Polyamide filler plug
79		TKT - TSD - TKM	Filler and draining plugs
86	page	VISUAL OIL LEVEL INDICATORS	
89		LCP - LCC	Visual oil level indicator - round shape
95		LVA - LVU	Visual oil level indicator - vertical shape
100	page	ELECTRICAL OIL LEVEL INDICATORS	
103		LEN - LEG - LET - LEM - LEU	Electric oil level indicator
115		LVK	Visual and Electric oil level indicator
120	page	ACCESSORIES	
123		EM1	Pressure gauge isolator
129		SVM	Gauge selector valve
133		FTA - FTR	Oil tank fixing flange
137		MULTIFIT 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

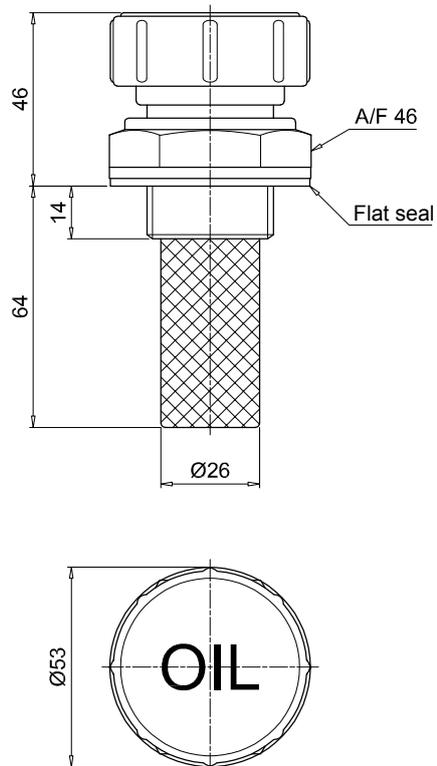
TC 50 series

Polyamide filler plug



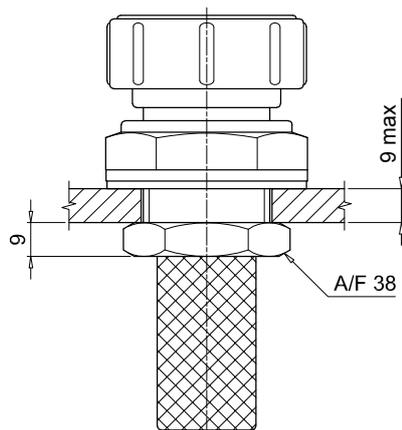
TC50

Threaded connection

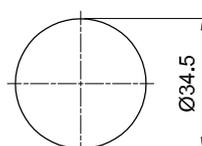


TC50

With ringnut



Through hole on the tank



TKT - TSD - TKM series

Filler and draining plugs



Technical data

Filler and draining plugs

Polyamide filler plug

TKT is a range of polyamide compact filler plugs for filling of the fluid into the systems during the commissioning and maintenance procedures. They are directly fitted on the tank.

Available features:

- Male threaded connections up to G 2"
- Breathing hole, to reduce the pressure inside the filter during the maintenance operations
- Caps with different graphics and colours, for the use in several applications
- Dipstick, to monitor the fluid level into the tank even in complicated positions
- Antisplash, to avoid fluid coming out through the air breather due to sloshing
- Labyrinth filter, to avoid fluid coming out through the air breather due to sloshing

Common applications:

- Hydraulic systems
- Mobile machines
- Industrial equipment

Materials

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

Temperature

From -25 °C to +100 °C

Weight

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

Quantity

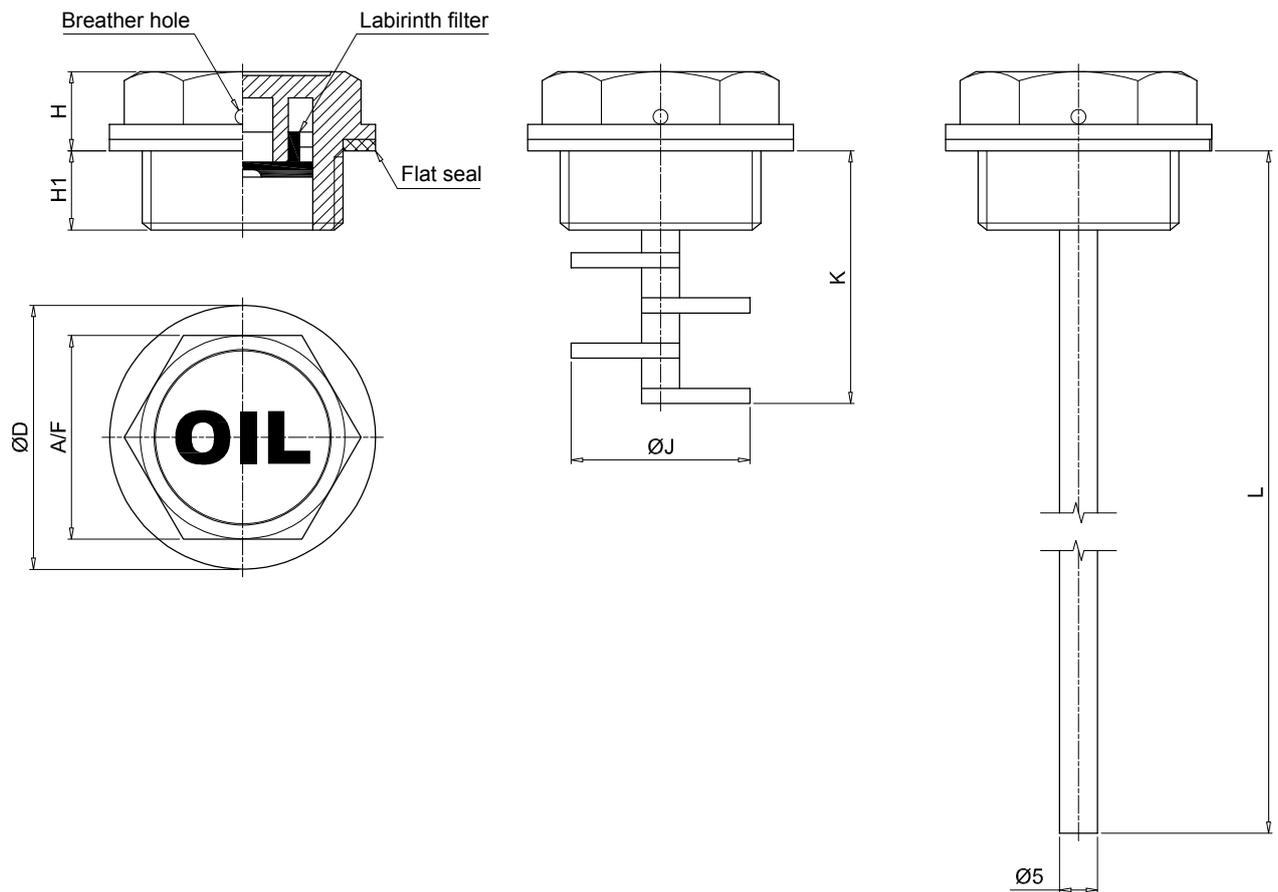
25 pcs/pack



Designation & Ordering code

COMPLETE FILLER PLUG

Series TKT	Configuration example : TKT G26 N N A F S P01									
Connections	S	A	F	L						
G13 G 1/4"	•	•		•						
G16 G 3/8"	•	•	•	•						
G20 G 1/2"	•	•	•	•						
G26 G 3/4"	•	•	•	•						
G33 G 1"	•	•	•							
G42 G 1 1/4"	•	•	•							
G48 G 1 1/2"	•	•	•							
G60 G 2"	•	•								
Colour N Black polyamide										
Cover wording O Oil	N Neutral									
Seals	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	$\varnothing D$ [mm]	A/F [mm]	H [mm]	H1 [mm]	$\varnothing J$ [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

TSD GENERAL INFORMATION

Technical data

Filler / draining plugs

Polyamide filler plug

TSD is a range of polyamide compact air breathers and filler plugs for protection of the tank against the solid contamination contained into the air and filling of the fluid into the systems during the commissioning and maintenance procedures.

They are directly fitted on the tank.

Available features:

- Male threaded connections up to G 1 1/2"
- Metal filtration, to hold the coarse contamination contained into the air
- Caps with different graphics and colours, for the use in several applications
- Dipstick, to monitor the fluid level into the tank even in complicated positions
- Antisplash, to avoid fluid coming out through the air breather due to sloshing

Common applications:

- Hydraulic systems
- Mobile machines
- Industrial equipment

Materials

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

Temperature

From -25 °C to +100 °C

Weight

TSDG16	15 g
TSDG20	25 g
TSDG26	28 g
TSDG33	60 g
TSDG42	69 g
TSDG48	74 g

Quantity

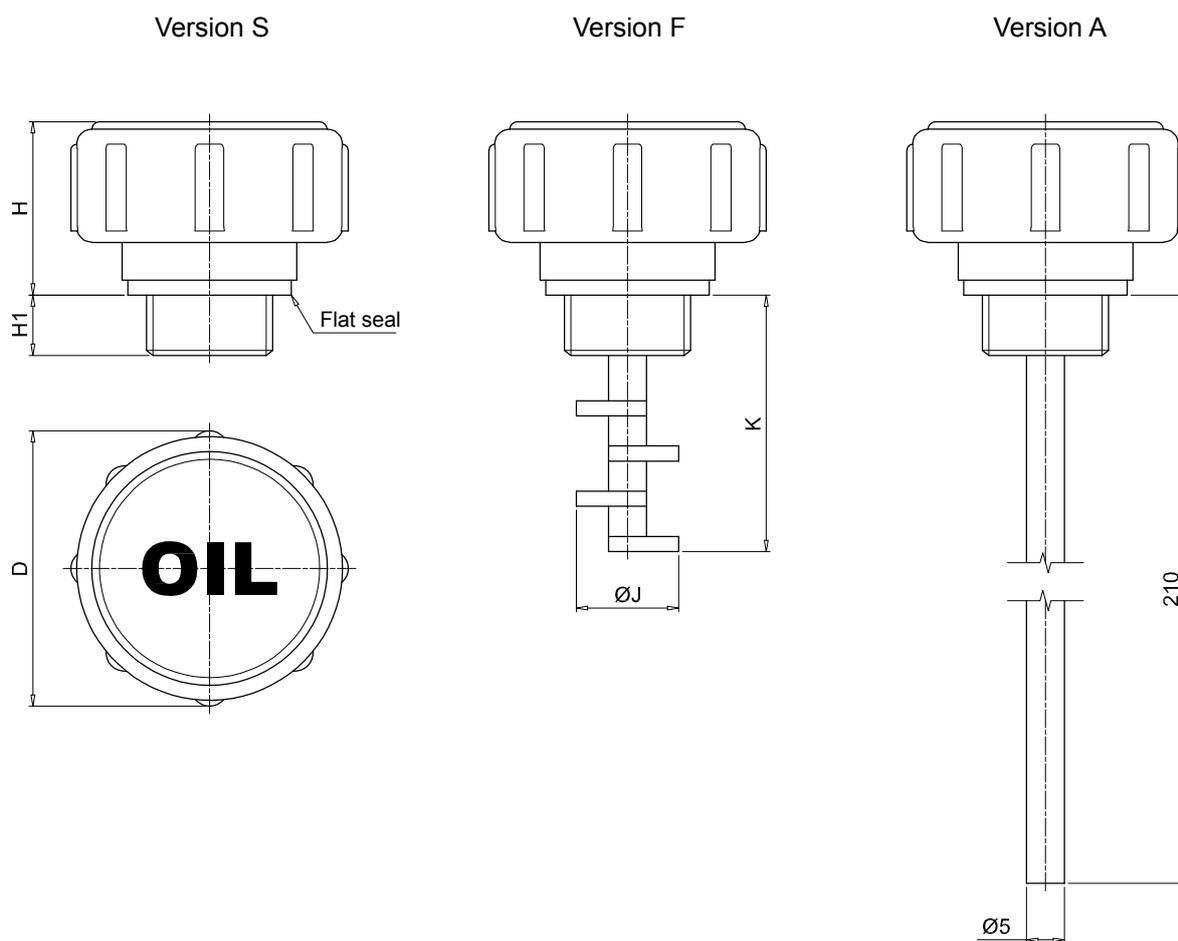
25 pcs/package



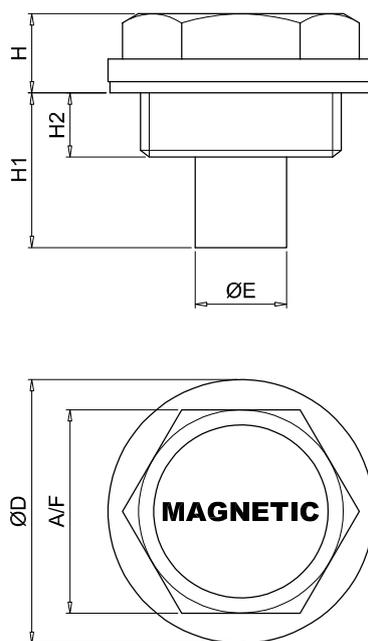
Designation & Ordering code

COMPLETE FILLER PLUG

Series	Configuration example :							TSD	G26	R	G	A	F	S	PO1	
TSD																
Connections																
G16	G 3/8"	G33	G 1"													
G20	G 1/2"	G42	G 1 1/4"													
G26	G 3/4"	G48	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



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

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