

OIL FILLER AND AIR BREATHER FILLER CAPS



The complete series of oil filter and breather filler caps makes it possible to meet all market demands. Metal and plastic styles suitable for use on mobile equipment are available.

Filler caps perform a dual function, air filtration at the tank inlet and prefiltration of the fluid by means of the strainer, 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.

Temperature

- from -25° to +100°C

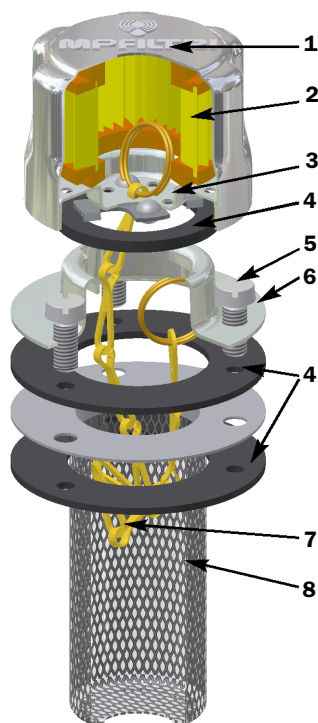
Compatibility

- NBR seals and Cork Gasket, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
Synthetic fluids, glycol water.
- FPM seals, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU.

Metal oil filler and breather filler caps

Series TA 46

Dimensions



TA46 B (Materials)

- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
- 3 - 6 - Flange: Galvanised Steel
- 4 - Seals: NBR
Cork Gasket
- 5 - Screws: Galvanised Steel
- 7 - Chain, ring: Brass
- 8 - Strainer: Galvanised Steel

Flow rates with Δp : 0,02 bar

Filtration	l/min
3 μm	150
10 μm	200

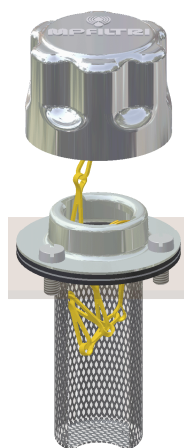
Weight

TA 46: 0,100 kg

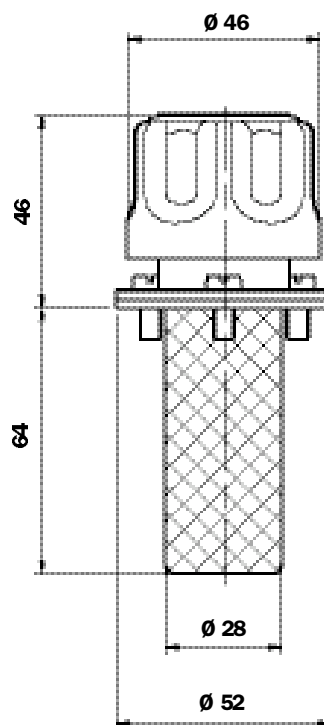
TA 46 B

Bayonet connection

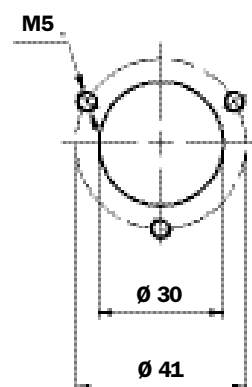
Non-removable strainer



Bayonet connection



Reservoir holes



Ordering information

Filler caps series

TA46

Example: TA46

1	2	3	4	5	6	7
☐	☐	☐	☐	☐	☐	☐
B	03	A	0	C	1	P01

1 - Connection to reservoir

☐ B	Flange with bayonet connection
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2 - Filter element

☐ 03	3 μm
☐ 10	10 μm

3 - Seals

☐ A	NBR
☐ B	Cork Gasket

4 - Valves

☐ 0	Without
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5 - Variants

☐ 0	Standard
☐ C	With chain

6 - Strainer

☐ 0	Without strainer
☐ 1	L= 65 mm

7 - Options

☐ P01	MP Standard
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Series TA 80

Metal filler / breather filler caps

TA80 B/D (Materials)

- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
- 3 - Pressurisation valve:
 - Bodies: Nylon
 - End cap-disk: Galvanised Steel
 - Spring: Steel
 - Seals: NBR
- 4 - Flange and anti-slosh feature: Galvanised Steel
- 5 - Seals: Cork Gasket
 - NBR
- 6 - Screws and washers: Galvanised Steel
- 7 - Flange: Galvanised Steel
- 8 - Chain, ring: Brass
- 9 - Strainer TA80B: Galvanised Steel

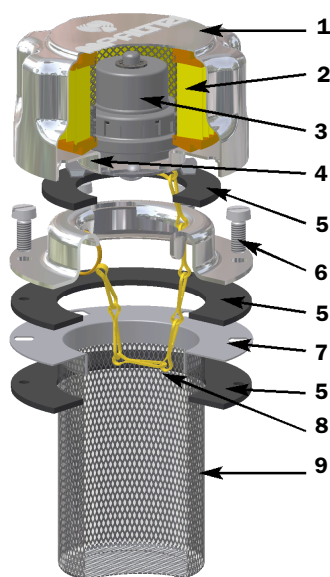
Flow rates with Δp : 0,02 bar

Filtration	l/min
3 μm	450
10 μm	550

Weight

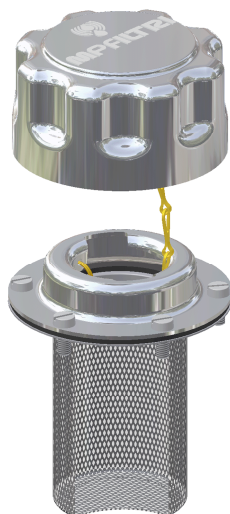
Strainer L 80 mm: 0,330 Kg

Strainer L 150 mm: 0,350 Kg



TA 80 B

Bayonet connection
Non-removable strainer



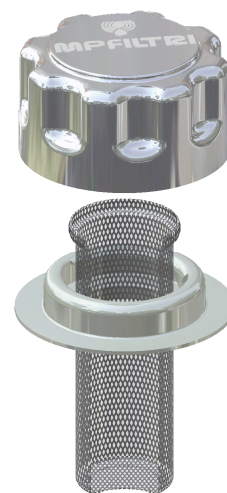
TA 80 B

Bayonet connection
With Padlock Hasp



TA 80 D

Bayonet connection
Removable strainer



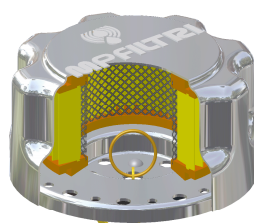
TA80B00....P01

Bayonet connection
Closed filler cap without
filter element



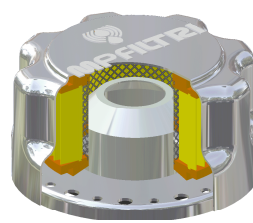
TA80B10....P01

Bayonet connection
Filler cap with filter element



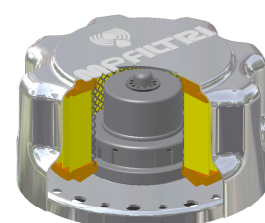
TA80B10.9..P01

Bayonet connection
Filler cap with anti-slosh
feature and filter element



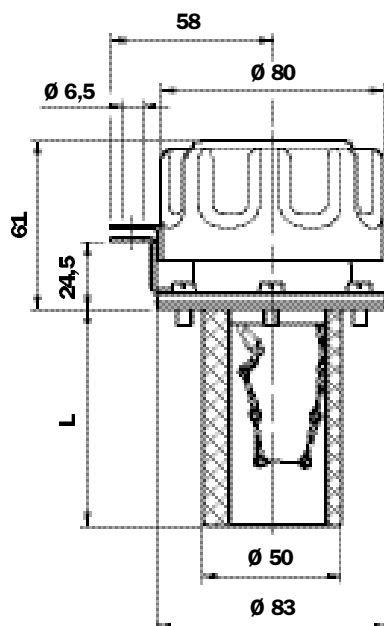
TA80B10.1..P01

Bayonet connection
Filler cap with
pressurisation valve and
filter element

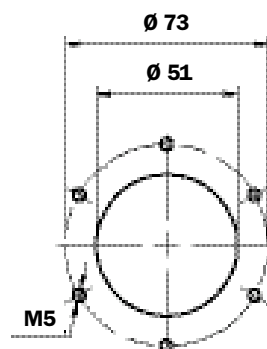


Dimensions

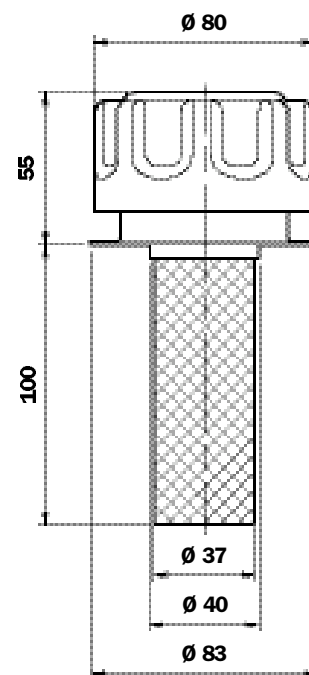
Bayonet connection



Reservoir holes



Weld flange



Ordering information

Filler caps series

TA80

Example: TA80

1	2	3	4	5	6	7
☐	☐	☐	☐	☐	☐	☐
B	03	A	1	L	2	P01

1 - Connection to reservoir

☐ B	Flange with bayonet connection
☐ D	Weld flange

2 - Filter element

☐ 00	Without filter (Blank filler cap)
☐ 03	3 µm
☐ 10	10 µm

3 - Seals

☐ A	NBR
☐ B	Cork Gasket

4 - Valves

☐ 0	Without
☐ 1	0,3 bar pressurisation valve (only with seals NBR)
☐ 2	0,7 bar pressurisation valve (only with seals NBR)
☐ 9	Anti-slosh feature

5 - Variants

☐ 0	Standard
☐ L	With Padlock Hasp (B versions only)

6 - Strainer

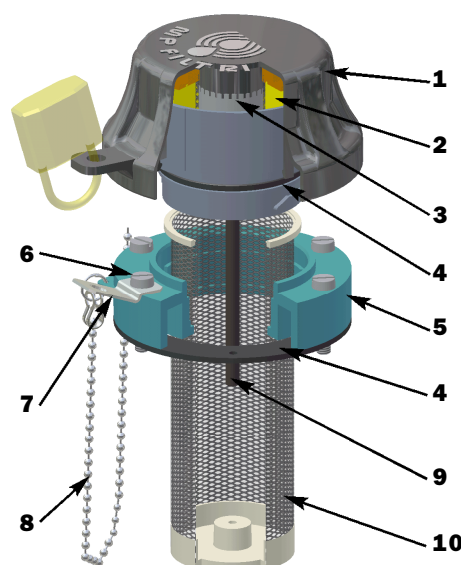
☐ 0	Without strainer
☐ 1	L= 80 mm (B versions only)
☐ 2	L= 150 mm (B versions only)
☐ 3	L= 100 mm (D versions only)

7 - Options

☐ P01	MP Standard
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Series TAP 90

Nylon filler / breather filler caps



TAP90 (Materials)

- 1 - Cover/ringnut: Nylon
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane
- 3 - Pressurisation valve:
Nylon
Galvanised Steel
NBR
- 4 - Seal: NBR
- 5 - Flange B: Nylon
- 6 - Screws: Galvanised Steel
- 7 - Padlock hasp: Galvanised Steel
- 8 - Chain, ring: Brass
- 9 - Dipstick: Phosphated steel
- 10 - Strainer: Galvanised Steel/Nylon

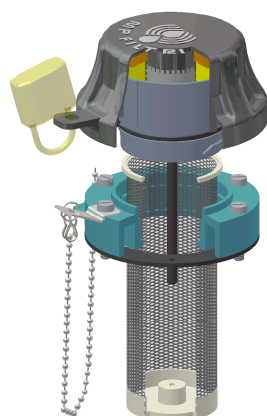
Flow rate with Δp : 0,02 bar

Filtration	l/min
3 μm	450
10 μm	550

Weight

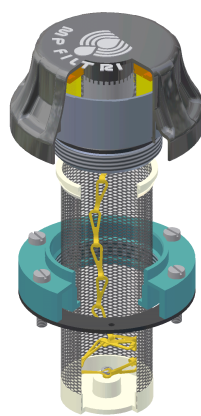
Strainer L 120 mm: 0,180 Kg
Strainer L 250 mm: 0,210 Kg

TAP90 B..... Flange with bayonet connection



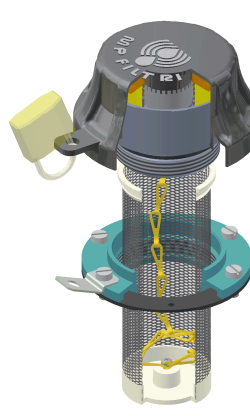
External chain

TAP90 R..... Flange with M52x2 connection



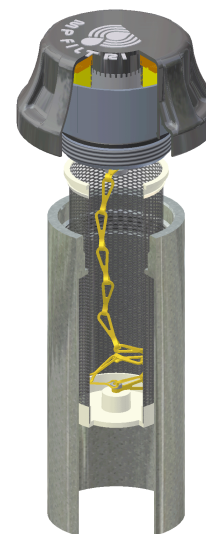
Internal chain

TAP90 F..... Flange with spigot DIN 24557 Connection M52x2



Internal chain

TAP90 C..... Weld riser Connection M52x2



Weld riser in
galvanised steel,
internal chain

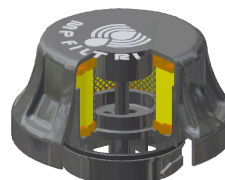
TAP90 B-C-R-F With dipstick



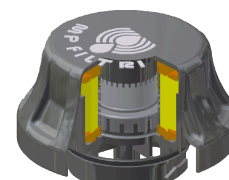
TAP90 B-C-R-F Closed filler cap without filter element



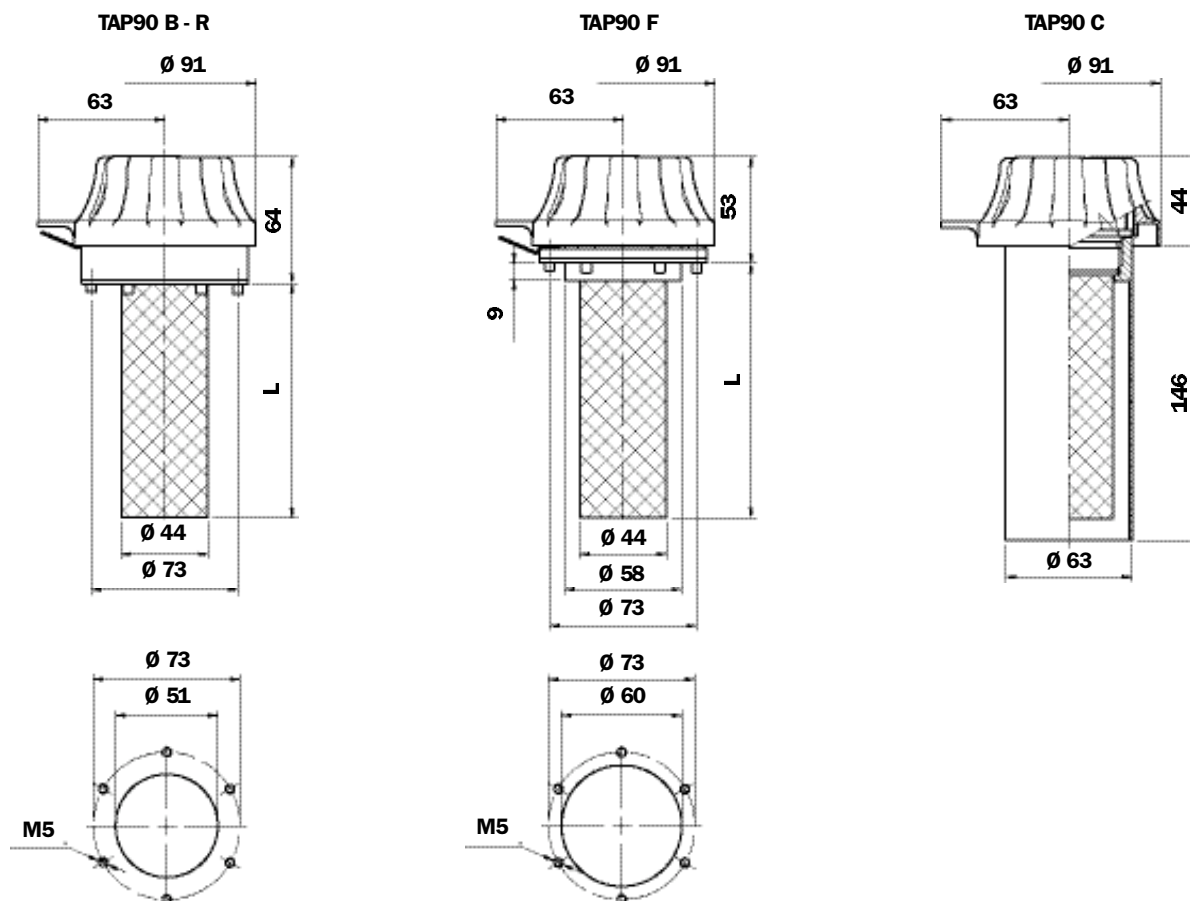
TAP90 B-C-R-F Filler cap with filter element



TAP90 B-C-R-F Filler cap with pressurisation valve



Dimensions



Ordering information

Filler caps series TAP90

Example: TAP90

1	2	3	4	5	6	7
☐	☐	☐	☐	☐	☐	☐
B	03	A	1	0	5	P01

1 - Connection to reservoir

☐ B	Flange with bayonet connection
☐ C	Weld riser (M52X2 version only)
☐ F	Flange with threaded M52x2 connection Spigot Ø 60 (DIN 24557)
☐ R	Flange with M52X2 threaded connection

2 - Filter element

☐ 00	Without filter (Blank filler cap)
☐ 03	3 µm
☐ 10	10 µm

3 - Seals

☐ A	NBR
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4 - Valves

☐ 0	Without
☐ 1	0.3 bar pressurisation valve
☐ 2	0.7 bar pressurisation valve
☐ 9	Blank filler cap

5 - Variantes

☐ 0	Standard
☐ L	With Padlock Hasp
☐ A	With Dipstick
☐ C	With Chain external for connection B With Chain internal for connection C-F-R (with strainer only)
☐ D	With Padlock Hasp and chain external for raccordement B With Padlock Hasp and chain internal for raccordements C-F-R (with strainer only)
☐ E	Dipstick and chain external (only connection B)
☐ F	Dipstick and Padlock Hasp
☐ G	Dipstick, Padlock Hasp and chain external (only connection B)

6 - Strainer

☐ 0	Without strainer
☐ 1	L= 120 mm
☐ 3	L= 250 mm

INOX strainer on request

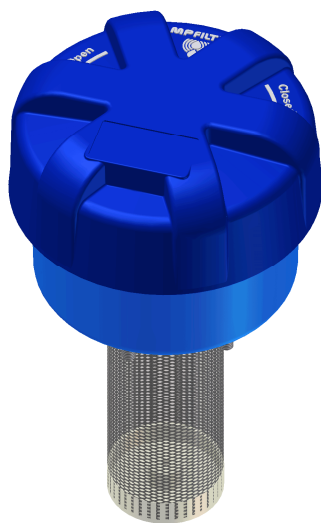
7 - Options

☐ P01	MP Standard
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In the version with chain the L= 120 strainer features a press fitting.

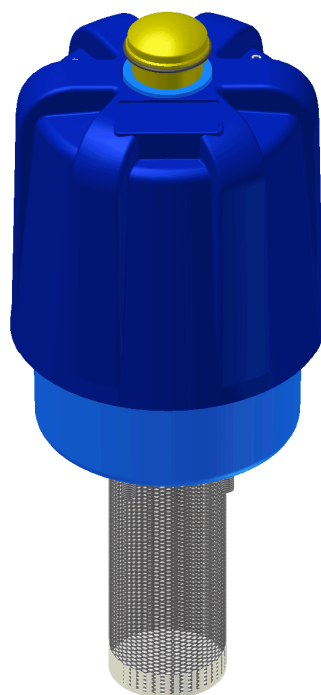
Series TAP 115

Nylon filler /
breather filler caps



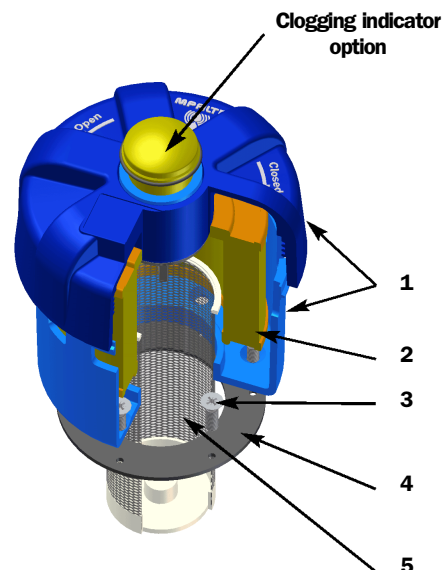
Example
TAP115

Length 1
Without Indicator



Example
TAP115

Length 2
With Indicator



TAP115 (Materials)

- 1 - Cover/Flange: Nylon
- 2 - Breather filter: Resin impregnated cellulose/Micro fibre
- 3 - Seals: NBR
FPM
- 4 - Screws: Galvanised Steel
- 5 - Strainer: Galvanised Steel/Nylon

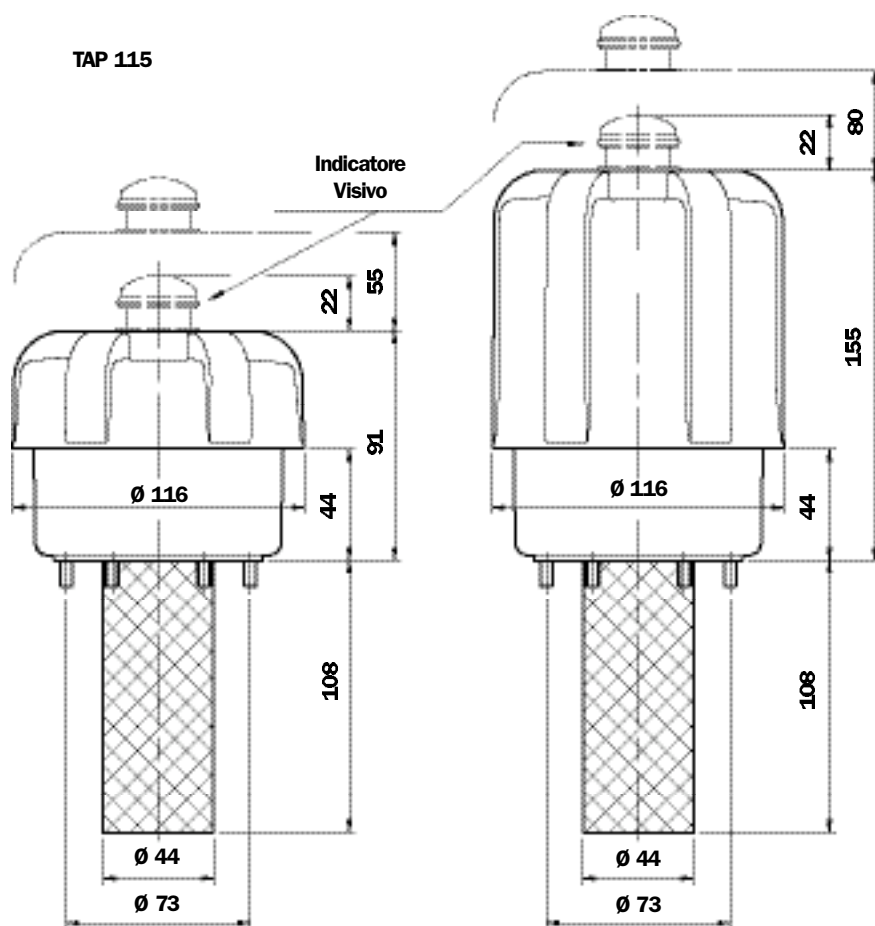
Clogging indicator

Set pressure: - 0,062 bar $\pm$ 10 %

Manual reset

Dimensions

TAP 115



Flow rates with Δp : 0,02 bar

Length 1

Filtration	l/min
3 μ m	1600
10 μ m	2000

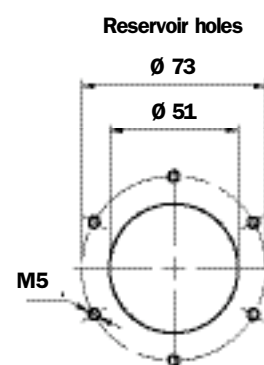
Length 2

Filtration	l/min
3 μ m	2150
10 μ m	2150

Weight

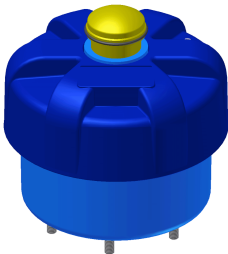
TAP 115 1: 0,460 Kg

TAP 115 2: 0,585 Kg

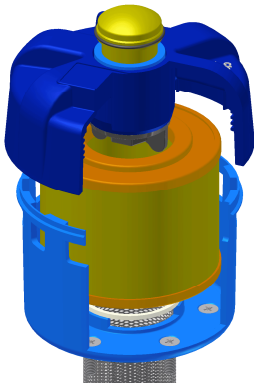


Changing the filter
element in
TAP 115 series filler caps

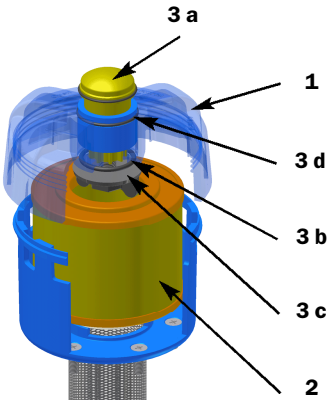
- 1 Thoroughly clean the filler cap and adjacent parts.
- 2 Unscrew and raise the cover.



- 3 Renew the filter element and screw the cover fully home into the cartridge (DO NOT OVER TIGHTEN).



Pos.	Description	Q.tà	Filler cap series TAP 115	
1	Complete filler cap	1	See order table	
2	Filter Element	1	See order table	
3	Indicator Kit	1	NBR 02005187	VITON 02005188
3a	Visual indicator	1	S62P01	
3b	Seal	1	O-R 3106 Ø 26,64 X 2,62	
3c	Indicator securing screw	1	01022670	
3d	O-R indicator	1	O-R 2112 Ø 28,3 x 1,78	



Ordering information

Filler caps series TAP115	1	2	3	4	5	6	7
	☐	☐	☐	☐	☐	☐	☐
	2	F	A03	A	1	B	P01

Filter Element A115	1	3	7
	☐	☐	☐
	2	A03	P01

1 - Length

☐
☐

2 - Connection

☐	Flange
--------------------------	--------

3 - Filter element

☐	Resin impregnated cellulose 10 µm
☐	Inorganic microfibre 3 µm

4 - Seals

☐	NBR
☐	FPM

5 - Strainer

☐	Without
☐	L= 120 mm

6 - Indicator

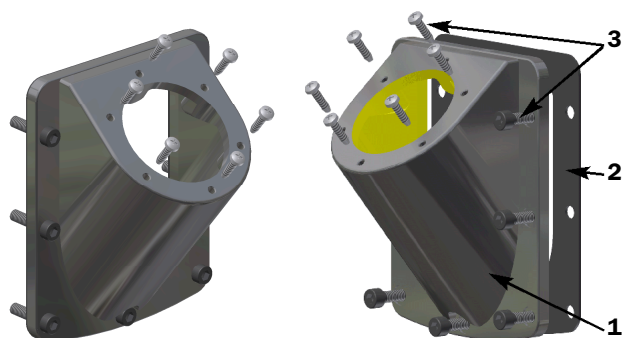
☐	Without
☐	Visual indicator

7 - Options

☐	MP Standard
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Series SMF

Nylon inclined flange



SMF (Materials)

1 - Flange: Nylon

2 - Seals: NBR

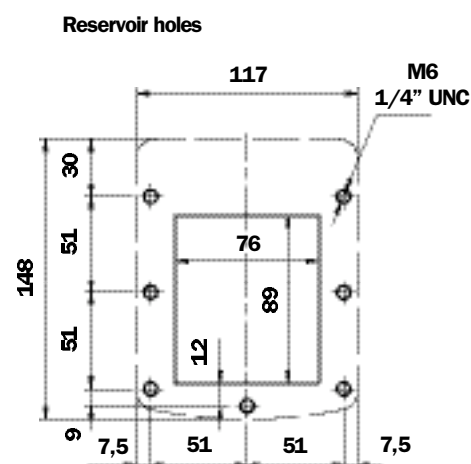
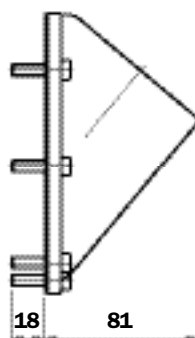
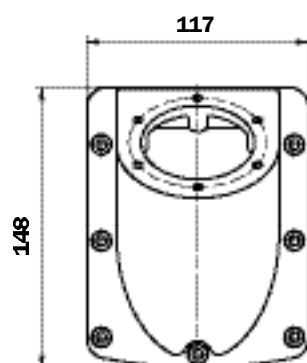
Cork Gasket

3 - Screws: Galvanised/Phosphated steel

Weight

SMF: 0,325 Kg

Dimensions



Ordering information

SMF 1

1	2	3
☐	☐	☐

Example: SMF 1 M A P01

1 - Connection to reservoir



Fixing with Metric screws

Fixing with UNC screws

2 - Seals



NBR

Cork Gasket

3 - Options



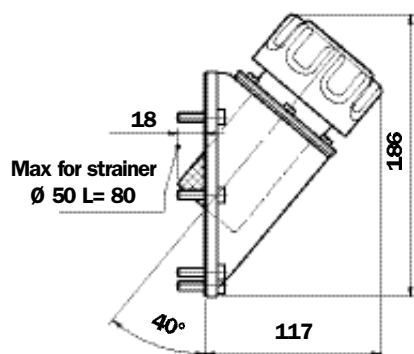
MP Standard

- Nylon inclined flange
- Metal filler / breather filler caps

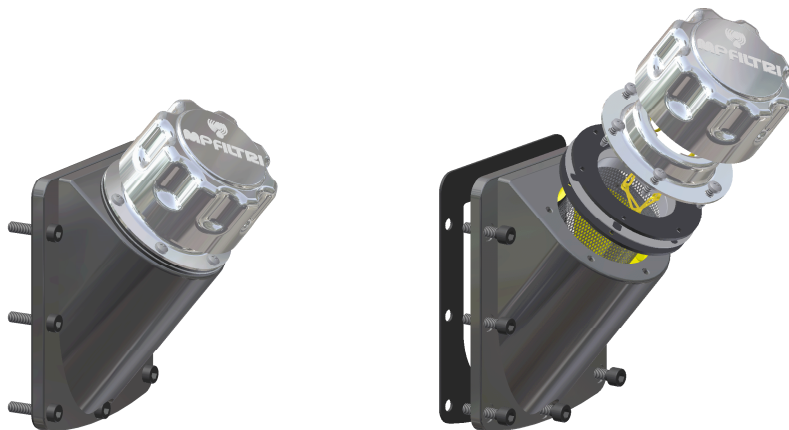
Series TAF80

Dimensions

TAF 80 B



For tank hole see "SMF 1" page 18.



Flow rate with Δp : 0,02 bar

Filtration	l/min
3 μm	450
10 μm	550

Weight

TAF 80: 0,655 Kg

Ordering information

TAF80
 Example: TAF80 **B** **03** **A** **1** **L** **1** **M** **P01**

1 - Filler cap connection

B Flange with bayonet connection

2 - Filter element

00 Without filter
03 3 μm
10 10 μm

3 - Seals

A NBR
B Cork Gasket

4 - Pressurisation valve

0 Without
1 0.3 bar pressurisation valve
2 0.7 bar pressurisation valve
9 Blank filler cap

Only with seal NBR

5 - Variants

0 Standard
L With Padlock Hasp

6 - Strainer

1 L= 80 mm

7 - Connection to reservoir

M Fixing with Metric screws
U Fixing with UNC screws

8 - Options

P01 MP Standard

Series TAF 90

- Nylon inclined flange
- Nylon filler / breather filler caps

Dimensions

TAF 90 ...



Flow rate with Δp : 0,02 bar

Filtration l/min

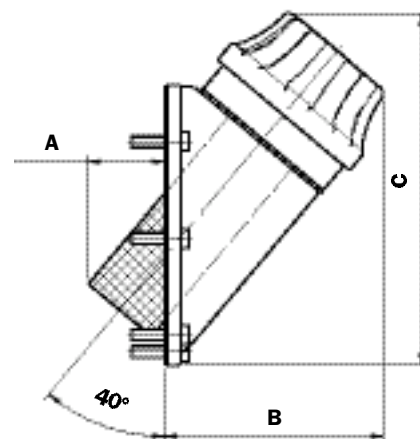
3 μm 450

10 μm 550

Weight

TAF 90: 0,535 Kg

TAF 90 B - R - F



TYPE	A	B	C
TAF90 B - R	40	116	186
TAF90 F	48	109	178

For tank hole see "SMF 1" page 18.

Ordering information

TAF90	1	2	3	4	5	6	7	8
Example: TAF90	B	03	A	1	L	1	M	P01

1 - Filler cap connection

B	Flange with bayonet connection
F	Flange with threaded connection M52x2 Spigot $\varnothing$ 60 (DIN 24557)
R	Flange with threaded connection M52x2

2 - Filter element

00	Without filter
03	3 μm
10	10 μm

3 - Seals

A	NBR
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4 - Pressurisation valve

0	Without
1	0.3 bar pressurisation valve
2	0.7 bar pressurisation valve
9	Blank plug

5 - Variants

0	Standard
L	With Padlock Hasp

6 - Strainer

1	L= 120 mm
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7 - Connection to reservoir

M	Fixing with Metric screws
U	Fixing with UNC screws

8 - Options

P01	MP Standard
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- Nylon inclined flange
- Nylon filler / breather filler caps

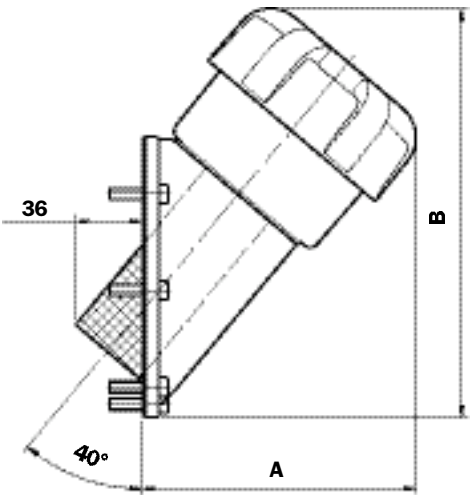
Series TAF 115

Dimensions

TAF 1151 F



TAF 115



Flow rate with Δp : 0,02 bar

Length 1		Length 2	
Filtration	l/min	Filtration	l/min
3 μ m	1600	3 μ m	2150
10 μ m	2000	10 μ m	2150
Weight		Weight	
TAF 115 1: 0,785 Kg		TAF 115 2: 0,910 Kg	

Length	A	B
1	145	216
2	187	266

For tank hole see “SMF 1”
page 18.

Ordering information

TAF115	1	2	3	4	5	6	7	8
Example: TAF115	2	F	A03	A	1	B	M	P01

1 - Filler cap length

1
2

2 - Connection

F	Flange
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3 - Filter element

L10	Resin impregnated cellulose 10 μ m
A03	Inorganic microfibre 3 μ m

4 - Seals

A	NBR
V	FPM

5 - Strainer

0	Without
1	L= 120 mm

6 - Indicator

A	Without
B	Visual indicator

7 - Connection to reservoir

M	Fixing with Metric screws
U	Fixing with UNC screws

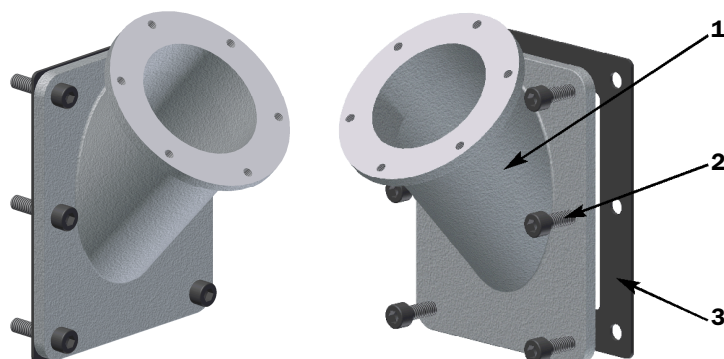
8 - Options

P01	MP Standard
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Series SML

Aluminium inclined flange

Aluminium inclined flange



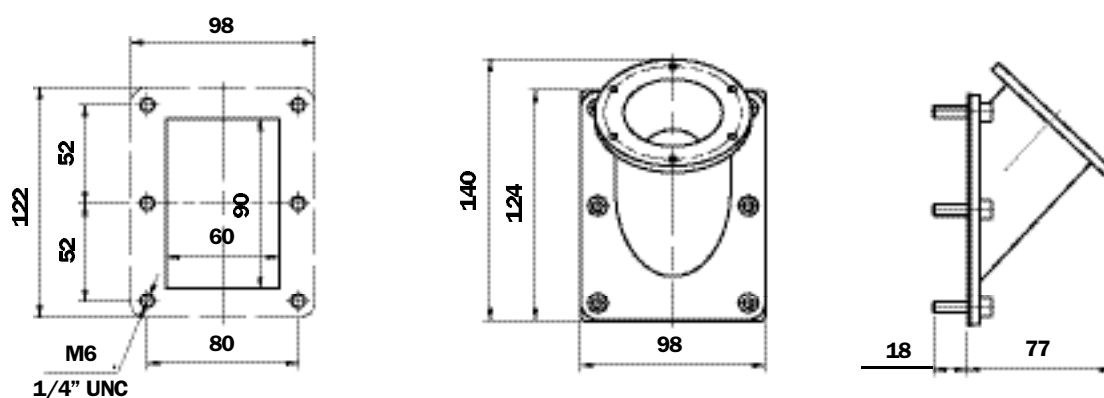
SML (Materials)

- 1** - Flange: Aluminium
- 2** - Screws: Phosphated steel
- 3** - Seals: NBR
Cork Gasket

Weight

SML: 0,380 Kg

Dimensions



Ordering information

SML 1 ☐ 1 ☐ 2 ☐ 3
Example: SML 1 **M** **A** **P01**

1 - Connection to reservoir

- | | |
|----------|---------------------------|
| M | Fixing with Metric screws |
| U | Fixing with UNC screws |

2 - Seals

- | | |
|----------|-------------|
| A | NBR |
| B | Cork Gasket |

3 - Options

- | | |
|------------|-------------|
| P01 | MP Standard |
|------------|-------------|

- Aluminium inclined flange
- Metal filler / breather filler caps

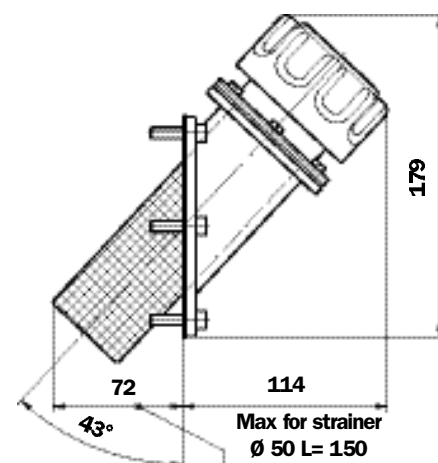
Series TAL 80

Dimensions



For tank hole see "SML 1"
page 22.

TAL 80 B



Flow rate with Δp : 0,02 bar

Filtration	l/min
3 μm	450
10 μm	550

Weight

TAL 80 1: 0,710 Kg

Ordering information

TAL80

Example: TAL80

1	2	3	4	5	6	7	8
☐	☐	☐	☐	☐	☐	☐	☐
B	03	A	1	L	2	M	P01

1 - Filler cap connection

☐	Flange with bayonet connection
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2 - Filter element

☐	Without filter
☐	3 μm
☐	10 μm

3 - Seals

☐	NBR
☐	Cork Gasket

4 - Pressurisation valve

☐	Without
☐	0.3 bar pressurisation valve
☐	0.7 bar pressurisation valve
☐	Blank filler cap

Only with
seal NBR

5 - Variants

☐	Standard
☐	With padlock hasp

6 - Strainer

☐	L= 80 mm
☐	L= 150 mm

7 - Connection to reservoir

☐	Fixing with Metric screws
☐	Fixing with UNC screws

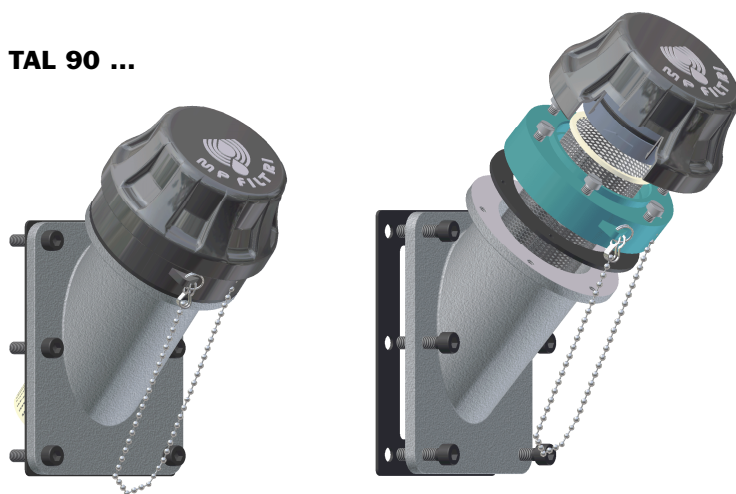
8 - Options

☐	MP Standard
--------------------------	-------------

Series TAL 90

Dimensions

TAL 90 ...



Flow rate with Δp : 0,02 bar

Filtration l/min

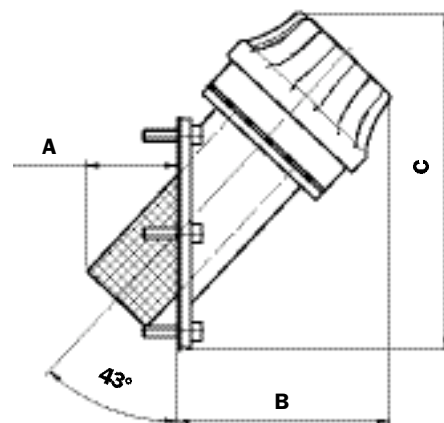
3 μm 450

10 μm 550

Weight

TAL 90: 0,560 Kg

TAL 90 B - R - F



TYPE	A	B	C
TAL90 B - R	48	113	179
TAL90 F	56	106	171

For tank hole see "SML 1"
page 22.

Ordering information

TAL90	1	2	3	4	5	6	7	8
Example: TAL90	B	03	A	1	L	1	M	P01

1 - Filler cap Connection

B	Flange with bayonet connection
F	Flange with threaded connection M52x2 Spigot $\varnothing$ 60 (DIN 24557)
R	Flange with threaded connection M52x2

2 - Filter element

00	Without filter
03	3 μm
10	10 μm

3 - Seals

A	NBR
----------	-----

4 - Pressurisation valve

0	Without
1	0.3 bar pressurisation valve
2	0.7 bar pressurisation valve
9	Blank plug

5 - Variants

0	Standard
L	With padlock hasp

6 - Strainer

1	L= 120 mm
----------	-----------

7 - Connection to reservoir

M	Fixing with Metric screws
U	Fixing with UNC screws

8 - Options

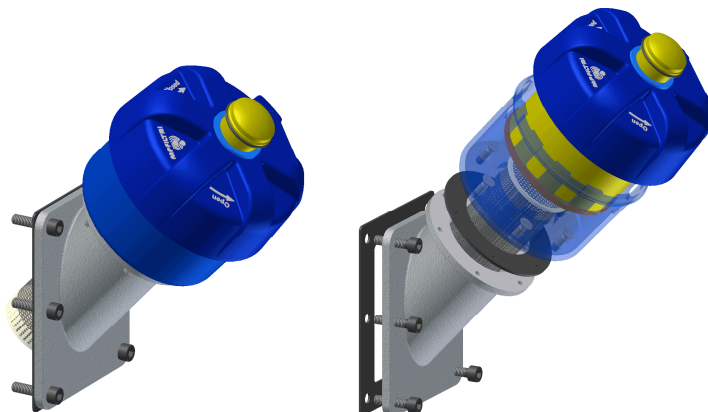
P01	MP Standard
------------	-------------

- Aluminium inclined flange
- Nylon filler /
breather filler caps

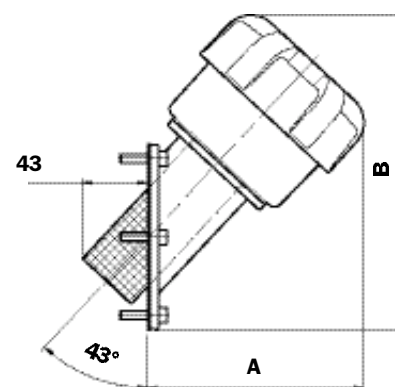
Series TAL 115

Dimensions

TAL 115 1 F



TAL 115



Flow rate with Δp : 0,02 bar

Length 1

Filtration	l/min
3 μm	1600
10 μm	2000

Weight

TAL 115 1: 0,840 Kg

Length 2

Filtration	l/min
3 μm	2150
10 μm	2150

Weight

TAL 115 2: 0,965 Kg

Length	A	B
1	143	209
2	187	257

For tank hole see "SML 1"
page 22.

Ordering information

TAL115

Example: TAL115

1	2	3	4	5	6	7	8
☐	☐	☐	☐	☐	☐	☐	☐
2	F	A03	A	1	B	M	P01

1 - Filler cap length

☐
☐

2 - Connection

☐	Flange
--------------------------	--------

3 - Filter element

☐	Resin impregnated cellulose 10 μm
☐	Inorganic microfibre 3 μm

4 - Seals

☐	NBR
☐	FPM

5 - Strainer

☐	Without
☐	L= 120 mm

6 - Indicator

☐	Without
☐	Visual indicator

7 - Connection to reservoir

☐	Fixing with Metric screws
☐	Fixing with UNC screws

8 - Options

☐	MP Standard
--------------------------	-------------

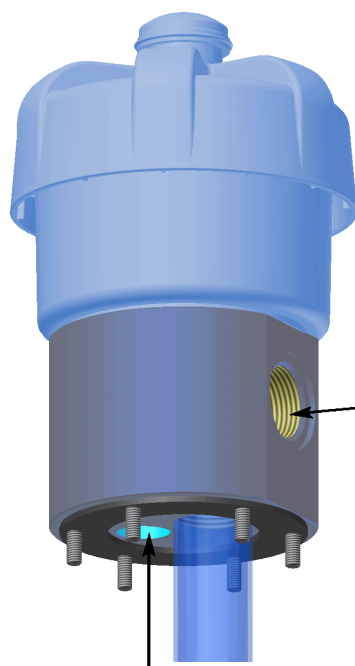
Series ATS

Universal adapter for oil filling to reservoir.

Possible use with oil filter/air breather filler caps type:

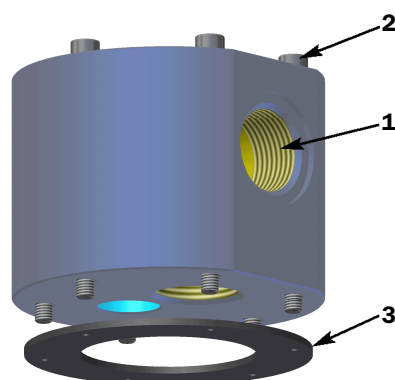
- TA 80
- TAP 90
- TAP 115
- SCS 100 F

Dimensions



Oil filling

Air inlet/outlet



ATS (Materials)

1 - Adapter: Anodised Aluminium

2 - S c rews: Steel

3 - Seals: NBR

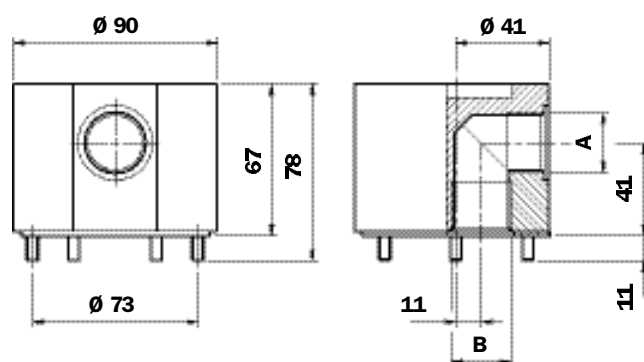
FPM

Cork Gasket

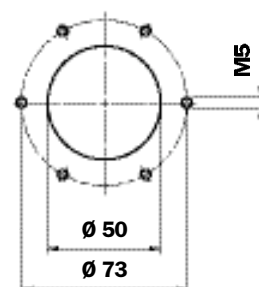
Weight

ATS: 1 Kg

Adapter for Filler and breather plugs



Reservoir holes



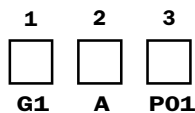
Connection	A	B
G1	G 3/4"	G 3/4"
G2	SAE 12	1 1/16" 12 UN

Ordering information

Adapter for filler caps

ATS 1

Example: **ATS 1**



1 - Connection

G1	G 3/4"
G2	SAE 20 (1 1/16" 12 UN)

2 - Seals

A	NBR
B	Cork Gasket
V	FPM

3 - Options

P01	MP Standard
------------	-------------

AIR BREATHES FILTERS



The comprehensive series of breather filters makes it possible to meet all market demands. Metal and plastic styles suitable for use on mobile equipment are available.

The function of breather filters is to intercept environmental contamination.

The correct use of breather filters ensures longer life of filter cartridges installed in the hydraulic circuit, and in applications where high level of contamination are present.

The use of breather filters calls for the simultaneous installation of plugs for filling and topping up fluids; it is recommended to use plugs complete with strainer for correct prefiltration of the fluid. If the filler plug is equipped with a filter, the filtration degree must be the same as that of the breather filter.

Temperature

- from -25° to +100°C

Compatibility

- NBR seals and Cork Gasket, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
Synthetic fluids, glycol water.
- FPM seals, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU.

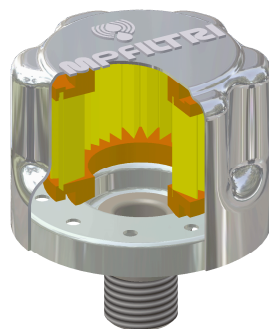
Metal breather filter

Series TA 46

Ordering information

TA46G-N...P01

With filter



Flow rate with Δp : 0,02 bar

Filtration	l/min
3 μm	150
10 μm	200

Weight

TA 46: 0,110 kg

Breather filter

TA46

Example: TA46

1	2	3
☐	☐	☐
G	03	P01

1 - Connection to reservoir

☐	G 1/4"
☐	1/4" NPT

3 - Options

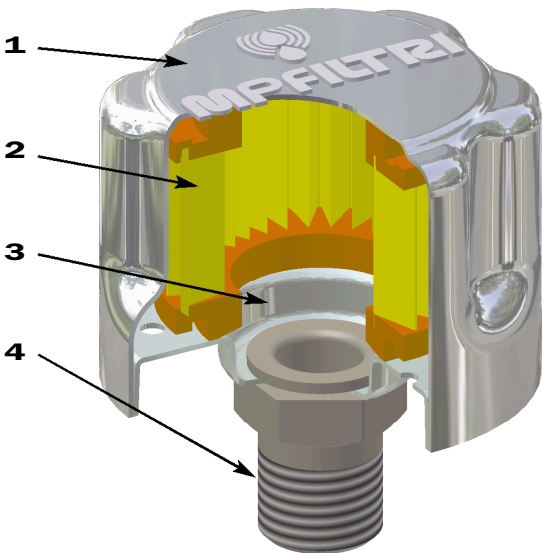
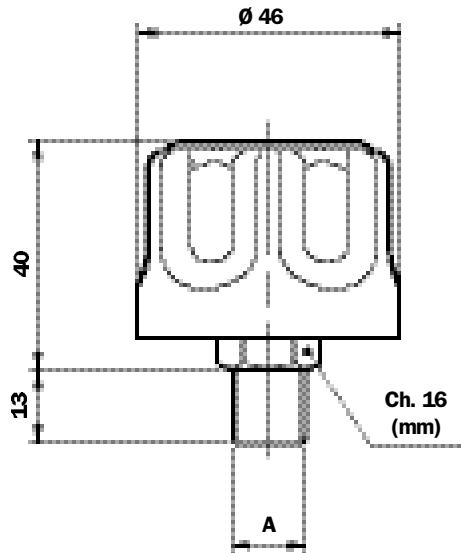
☐	P01 MP Standard
--------------------------	-----------------

2 - Filter element

☐	03 3 μm
☐	10 10 μm

Dimensions

Threaded connection



TA46 G - N (Materials)

- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane/Stainless steel
- 3 - Flange: Galvanised Steel
- 4 - Threaded connection: Phosphated Steel

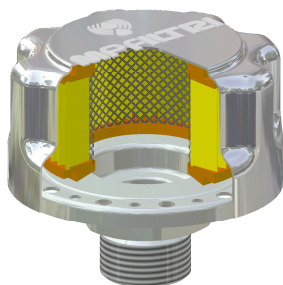
Connection	A
G	G 1/4"
N	1/4" NPT

Series TA 80

Metal breather filter

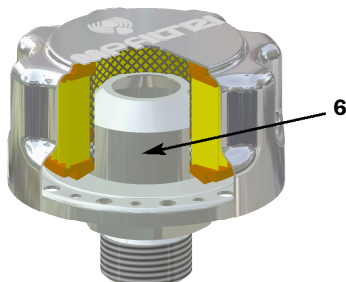
TA80G-N.....P01

With filter



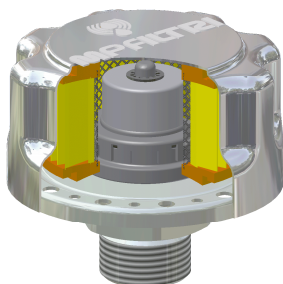
TA80 G-N...0900P01

With anti-slosh feature



TA80 G-N...A...00P01

With filter and
pressurisation valve



Codice per l'ordinazione

Breather filter

TA80

Example: TA80

1	2	3	4	5
☐	☐	☐	☐	☐

1 - Connection to reservoir

☐ G	G 3/4"
☐ N	3/4" NPT

5 - Options

☐ P01	MP Standard
------------------------------	-------------

2 - Filter element

☐ 03	3 µm
☐ 10	10 µm

3 - Seal

☐ 0	Without
☐ A	NBR (pressurised only)

4 - Valves

☐ 0	Without
☐ 1	0.3 bar pressurisation valve
☐ 2	0.7 bar pressurisation valve
☐ 9	Anti-slosh feature

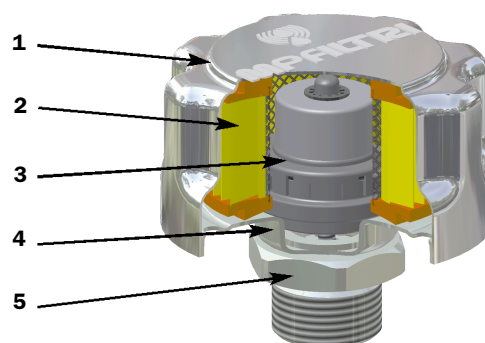
Flow rate with Δp : 0,02 bar

Filtration	l/min
3 µm	450
10 µm	550

Weight

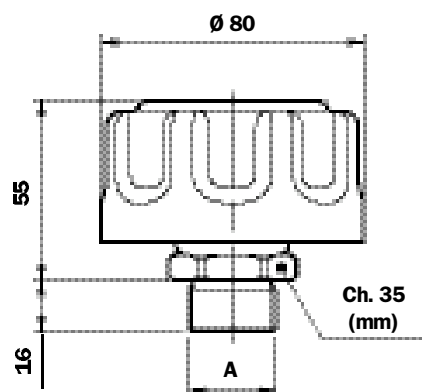
TA 80: 0,350 Kg

TA80



Dimensions

Threaded connection



Connection	A
G	G 3/4"
N	3/4" NPT

TA80 G (Materials)

- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane
- 3 - Pressurisation valve: Nylon
Galvanised Steel
NBR
- 4 - Flange: Galvanised Steel
- 5 - Threaded connection: Galvanised Steel
- 6 - Anti-slosh feature: Galvanised Steel

Nylon breather filter

Series **TAP 90**

Ordering information

Air breathers

TAP90

Example: TAP90

1	2	3	4	5	6
☐	☐	☐	☐	☐	☐
G	03	0	1	L	P01

1 - Connection to reservoir

G	M52x2
H	G 1 1/2"
L	G 1 1/4"
M	3/4"NPT
N	1"NPT
Q	G 3/4"

2 - Filter element

03	3 µm
10	10 µm

3 - Seal

0	Without
A	NBR

4 - Pressurisation valve

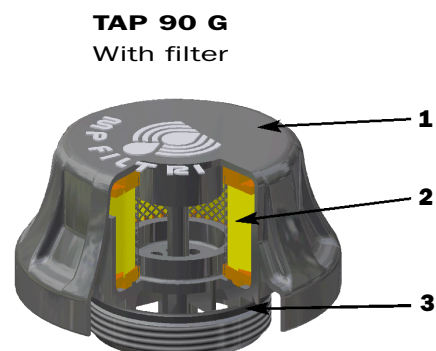
0	Without
1	0.3 bar pressurisation valve
2	0.7 bar pressurisation valve

5 - Variants

0	Standard
A	With Dipstick
L	With Padlock Hasp
F	With Dipstick and Padlock Hasp

6 - Options

P01	MP Standard
------------	-------------



TAP90 (Materials)

- 1 - Cover/ringnut: Nylon
- 2 - Breather filter: Resin impregnated cellulose Polyurethane
- 3 - Seal: NBR

Flow rate with Δp : 0,02 bar

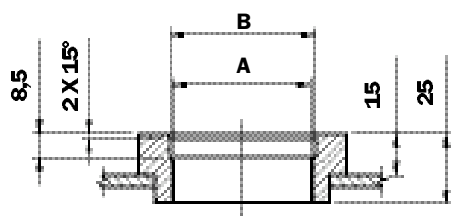
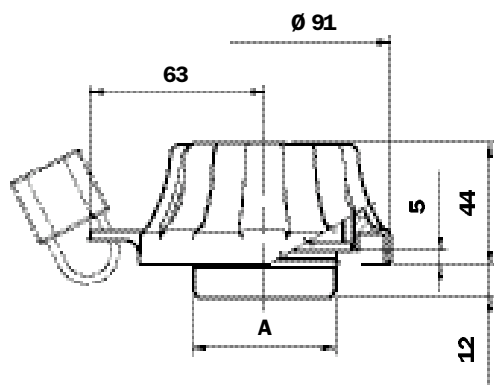
Filtration	l/min
3 µm	450
10 µm	550

Weight

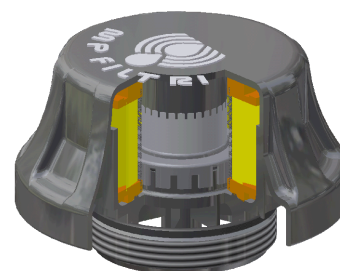
TAP 90: 0,130 Kg

Dimensions

TAP 90 for connection on weld flange

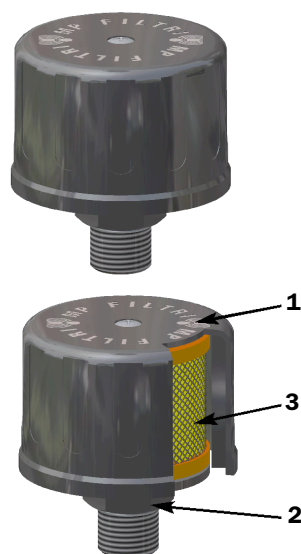


	A	B
G	M52x2	Ø 52,5
H	G 1 1/2"	Ø 48,5
L	G 1 1/4"	Ø 42
M	3/4" NPT	-
N	1" NPT	-
Q	G 3/4"	-

TAP G
With PressurisationTAP G
With Dipstick

SAP

Series 054 - 075



SAP 054 - 075 (Materials)

- 1 - Cover: Nylon
- 2 - Connection: Nylon
- 3 - Filter element: Resin impregnated cellulose

Flow rate with Δp : 0,02 bar

Filtration l/min

SAP 054

3 μm	200
10 μm	250

SAP 075

3 μm	350
10 μm	400

Weights

SAP 054: 0,060 Kg

SAP 075: 0,150 Kg

Ordering information

Breather filter	1	2	3	4	5
SAP	☐	☐	☐	☐	☐
Example: SAP	075	G4	L10	A	P01
Filter element	☐	☐			
Example:	A7	L10			

1 - Size

Filter	Filter element
☐ 054	☐ A4
☐ 075	☐ A7

3 - Filter element

☐ L03	Resin impregnated cellulose 3 μm
☐ L10	Resin impregnated cellulose 10 μm

4 - Seal

☐ A	NBR
----------------------------	-----

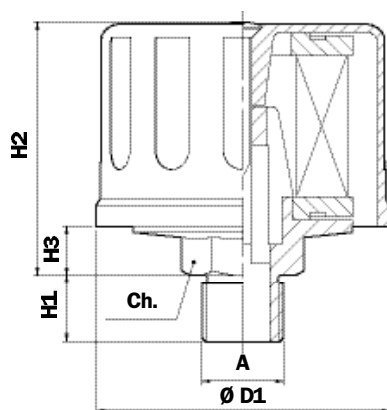
5 - Opzioni

☐ P01	MP Filtri
------------------------------	-----------

2 - Connessione al serbatoio

	SAP 054	SAP 075
☐ G1	G 3/8"	G 1/2"
☐ G2	G1/2"	G 3/4"
☐ G3	-	-
☐ G4	1/2" NPT	1/2" NPT
☐ G5	-	3/4" NPT

Dimensions



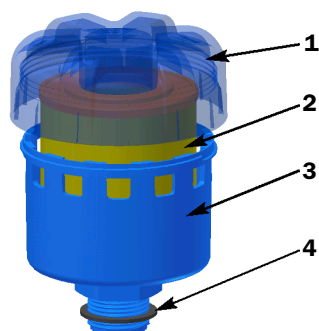
Connection to reservoir "A"

Type SAP	G1	G2	G3	G4	G5
054	G 3/8"	G 1/2"	-	1/2" NPT	-
075	G 1/2"	G 3/4"	-	1/2" NPT	3/4" NPT

Dimensions

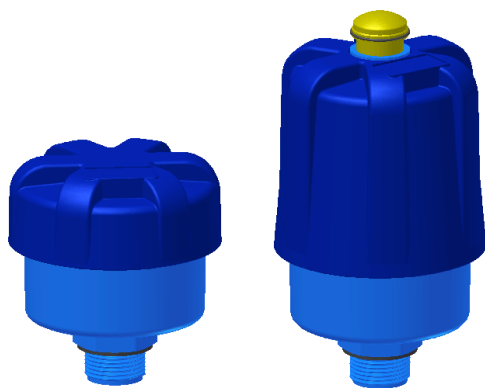
Type SAP	D1	H1	H2	H3	Ch. (mm)
054 G1					22
054 G2	54	13,5	51	8	27
054 G4					
075 G1					32
075 G2	75	17	64	9	27
075 G4					32
075 G5					

Nylon breather filter



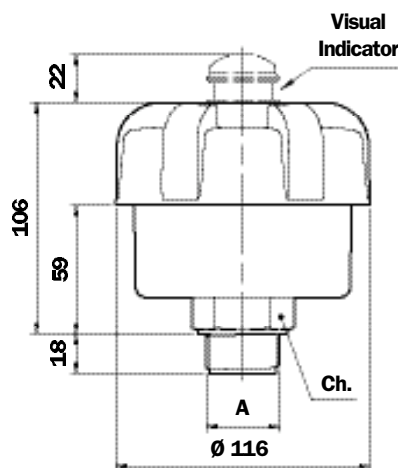
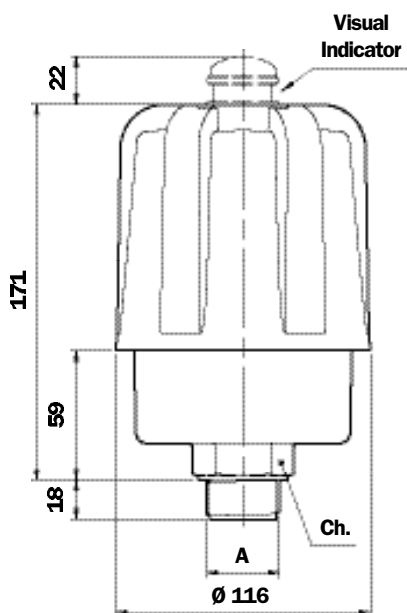
SAP115 (Materials)

- 1 - Cover: Nylon
- 2 - Breather filter: Resin impregnated cellulose
Inorganic microfibre
- 3 - Connection: Nylon
- 4 - Seals: NBR
FPM



Clogging indicator

Set pressure: - 0.062 bar $\pm$ 10 %
Manual reset



Series SAP 115

Ordering information

Breather filter SAP115

Example: SAP115

Filter element A115

Example: A115

1 - Length

1
2

2 - Connection

A	G 1"
B	M33x2
C	G 1 1/2"

3 - Filter element

L10	Resin impregnated cellulose 10 µm
A03	Inorganic microfibre 3 µm

4 - Seals

A	NBR
V	FPM

5 - Variants

0	Without
1	With anti-slosh feature

6 - Indicator

A	Without
B	Visual indicator

7 - Options

P01	MP Standard
-----	-------------

Flow rate with Δp : 0,02 bar

TYPE	Filtration	I/min SAP 115 1	I/min SAP 115 2
G 1"	L10	2170	2800
	A03	1830	2800
G 1 1/2"	L10	2330	3000
	A03	1995	3000

Weight

SAP 115 1: 0,410 Kg
SAP 115 2: 0,525 Kg

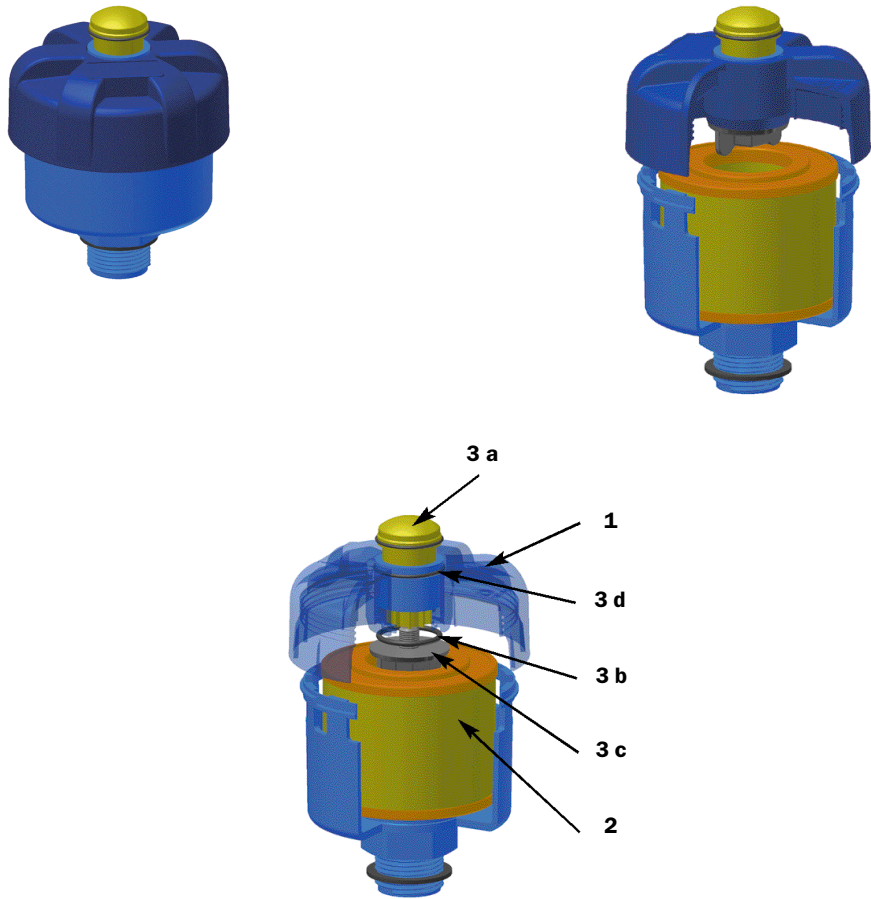
Dimensions

Connection	A	Ch. (mm)
A	G 1"	41
B	M33x2	41
C	G 1 1/2"	55

**Changing the filter
element in breather filters
series SAP 115**

- 1 Thoroughly clean the plug and adjacent parts.

2 Unscrew and raise the cover.
- 3 Renew the filter element and screw the cover fully home into the cartridge (DO NOT OVER TIGHTEN).



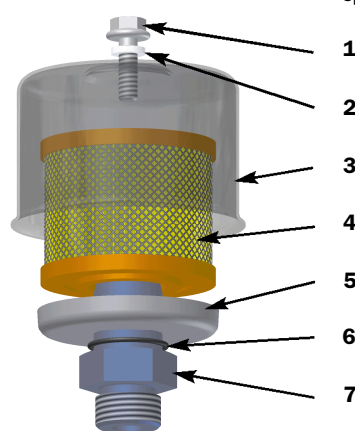
SAP 115 spare parts

Pos.	Description	Q.ty	Plug series SAP 115	
1	Complete plug	1	See order table	
2	Filter Element	1	See order table	
3	Indicator Kit	1	NBR 02005187	VITON 02005188
3a	Visual indicator	1	S62P01	
3b	Seal	1	O-R 3106 Ø 26,64 X 2,62	
3c	Indicator securing screw	1	01022670	
3d	O-R indicator	1	O-R 2112 Ø 28,3 x 1,78	

Series

SA

SA

Clogging indicator
option

SA (Materials)

1 - Screw: Galvanised Steel

2 - Washer: Teflon

3 - Cover: Steel

4 - Filter element: Plastisol

Galvanised steel mesh

Resin impregnated cellulose

5 - Ring: Galvanised Steel

6 - Seal: NBR

7 - Connection: Anodised Aluminium
Galvanised Steel

Ordering information

Breather filter

SA

Example: SA 075 G4 L10 A P01

Filter element

Example: A7 L10

1 - Size

Filter

036
053
075
115
145
185

Filter element

A05
A5
A7
A8
A10
A11

3 - Filter element

L03
L10
S

Resin impregnated cellulose 10 µm
(036 excluded)

Resin impregnated cellulose 10 µm

Without

4 - Seal

A

NBR

5 - Options

P01

MP Standard

2 - Connection to reservoir

Type

036
053
075
115
145
185

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"
-
-
1" NPT
-
-

G4

1/4" NPT
1/4" NPT
1/2" NPT
1" NPT
1 1/2" NPT
2 1/2" NPT

G5

3/8" NPT
3/8" NPT
3/4" NPT
-
-
-

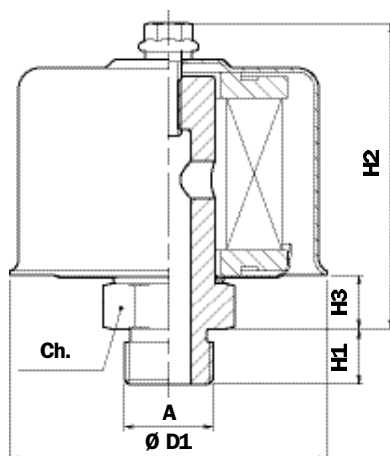
G6

1/2" NPT
-
-
-
-
-

Connection to reservoir "A"

Type	G1	G2	G3	G4	G5	G6	Weight (Kg)
036	G 1/4"	G 3/8"	G 1/2"	1/4" NPT	3/8" NPT	1/2" NPT	0,080
053	G 1/4"	G 3/8"	-	1/4" NPT	3/8" NPT	-	0,150
075	G 1/2"	G 3/4"	-	1/2" NPT	3/4" NPT	-	0,260
115	G 1"	-	-	1" NPT	-	-	0,400
145	G 1 1/2"	-	-	1 1/2" NPT	-	-	0,590
185	G 2 1/2"	-	-	2 1/2" NPT	-	-	1,220

Dimensions

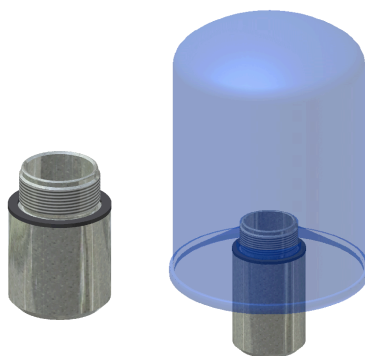


Dimension

Type	D1	H1	H2	H3	Ch. (mm)
036	36	13	36,5	9	22
053	53	13	52,5	7	22
075 G1	75	13	68,5	11,5	27
075 G2		17			32
075 G4		15			27
075 G5		20			32
115	115	17	80	11	38
145	145	25	115	13	55
185	185	25	164	23	80

Flow rate with Δp: 0,02 bar

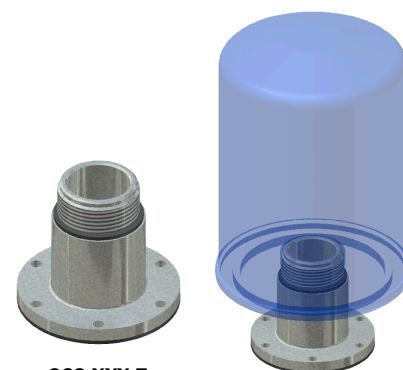
Type	3 µm	10 µm
036	-	140
053	250	250
075	350	400
115	800	850
145	1800	1850
185	5300	5500

Series**SCS****SCS XXX C****SCS** (Materials)

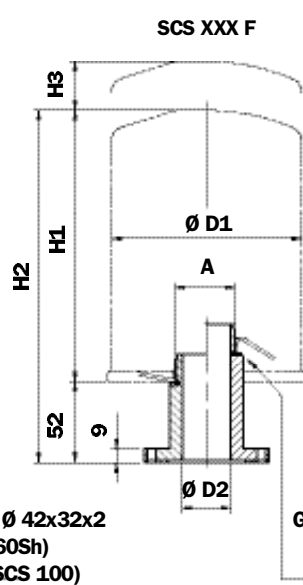
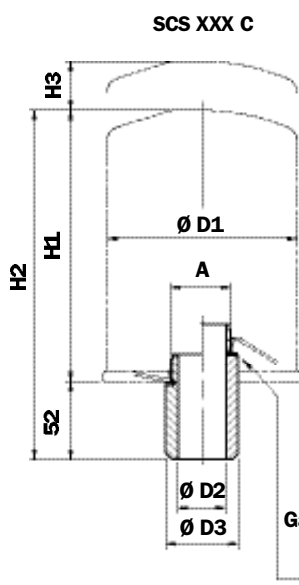
Riser: Galvanised steel

Flow rate with Δp : 0,02 bar

Type	Filtration l/min	
	P10	A03
SCS 050	P10	550
	A03	515
	A10	530
SCS 070	P10	550
	A03	515
	A10	530
SCS 100	P10	1415
	A03	1300
	A10	1330
SCS 150	P10	1415
	A03	1300
	A10	1330

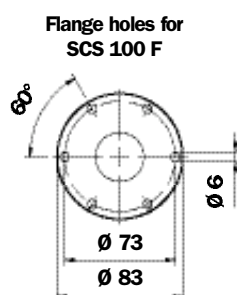
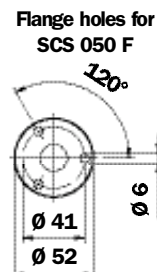
**SCS XXX F**

Dimensions

Gasket Ø 42x32x2
(60Sh)
(for SCS 100)Gasket Ø 42x32x2
(60Sh)
(for SCS 100)

Dimension SCS - CS - CG

Type	D1	H1	H2	H3	Weight (Kg)
CS/CG050	96	143	195	20	0,73
CS/CG070	96	210	262	20	0,95
CS100	129	180	232	25	1,3
CS150	129	220	272	25	1,6
CG100	129	180	232	30	1,3
CG150	129	265	317	30	1,6

Flange holes for
SCS 100 FFlange holes for
SCS 050 F

SCS Riser dimensions

Type	A	D2	D3	Weight (Kg)
SCS050...G1	G 3/4"	18	32	0,200
SCS050...G2	1" 12 UN	18	32	0,265
SCS100...G1	G 1 1/4"	32	48	0,450
SCS100...G2	1 1/2" 16 UN	32	48	0,645

FILLER CAPS



The series TK range of filler caps is composed of styles with breather filter, dipstick for measuring the reservoir fluid level and anti-slosh fins to prevent spillage of oil from the reservoir on mobile equipment.

Temperature

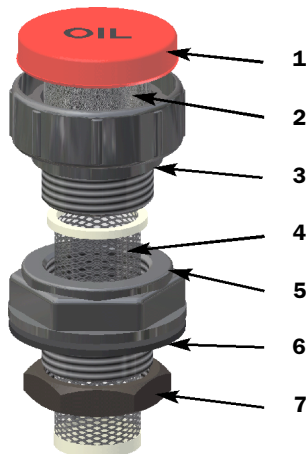
- from -25° to +100°C

Compatibility

- Mineral oils to ISO 2943 - aqueous emulsions
Synthetic fluids, glycol water.

Series TC 50

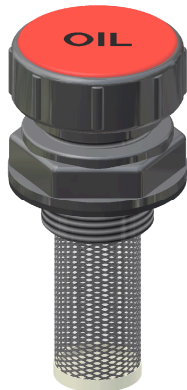
Dimensions



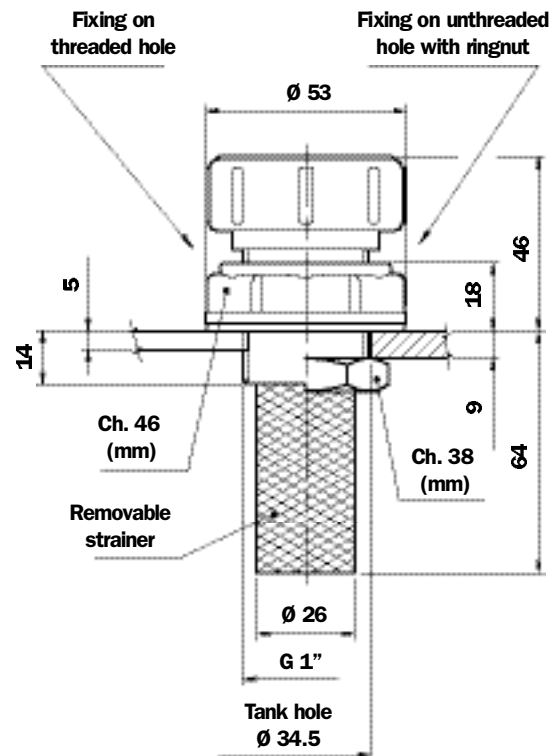
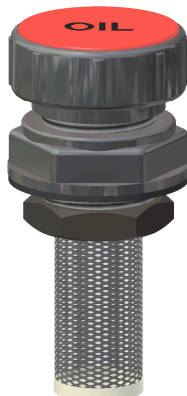
TC50 ((Materials))

- 1** - Cover: Nylon
- 2** - Breather filter: Galvanised steel wire
- 3** - Filler cap: Nylon
- 4** - Strainer: Galvanised Steel/Nylon
AISI 304 Stainless steel/Nylon
- 5** - Collar: Nylon
- 6** - Seal: Inorganic fibre
- 7** - Ringnut: Phosphated steel

TC50G1.....P01
Threaded reservoir



TC50GA.....P01
Unthreaded hole in
reservoir

**Weight**

TC 50 G1: 0,070 Kg

TC 50 GA: 0,100 Kg

Codice per l'ordinazione

**Filler
filler caps
series
TC50**

Example: TC50

1	2	3	4	5	6	7
						
G1	L90	P	R	0	C70	P01

1 - Connection

G1	G 1"
GA	With ringnut

2 - Filter element

L90 Steel

3 - Seals

P Inorganic fibre

4 - Cover colour

R	Red
G	Yellow

5 - Cover wording

O	Oil
N	Neutral

6 - Strainer

C70	Strainer L= 70 - Galvanised steel.
I70	Strainer L= 70 - AISI 304 Stainless steel
S	Without strainer

7 - Options

P01 MP Standard

Ordering information

Riser with Filter element SCS

Example: SCS

2	3	4	5	6	7
☐	☐	☐	☐	☐	☐
050	F	G1	A10	A	P01

Riser only SCS

Example: SCS

2	3	4	6	7
☐	☐	☐	☐	☐
050	F	G1	A	P01

Filter element

Example:

1	2	5	6	7
☐	☐	☐	☐	☐
CS	050	A10	A	P01

1 - Filter element type

CSConnection ISO 228
for SCS.....G1**CG**Connection A.S.A.
for SCS.....G2

2 - Size

050**070**

Riser assembly excluded

100**150**

Riser assembly excluded

3 - Connection to reservoir

C

Weld riser

F

Flange riser

4 - Threaded connection

G1G 3/4" for SCS 050/070
G 1 1/4" for SCS 100/150

G1 with filter elements series CS

G21" - 12 UN for SCS 050/070
1 1/2" - 16 UN for SCS 100/150

G2 with filter elements series CG

5 - Filter element

A03

Inorganic microfibre

A10

Inorganic microfibre

P10

Resin impregnated cellulose

6 - Seal

A

NBR

V

FPM

7 - Options

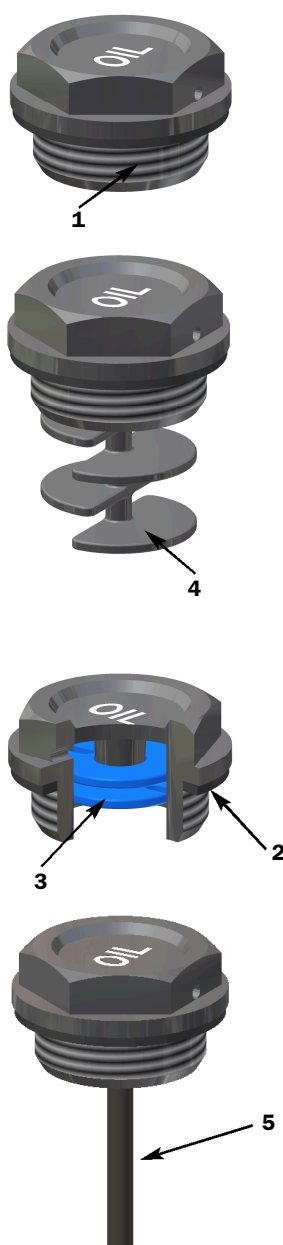
P01

MP Standard

Series

TKT

Dimensions



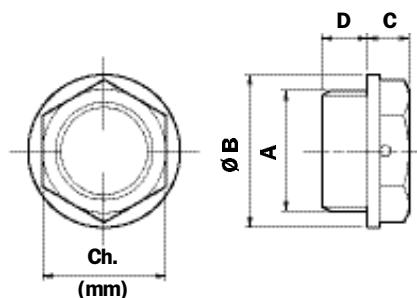
TKT (Materials)

- 1 - Body: Nylon
 2 - Seals: NBR
 Inorganic fibre
 3 - Labyrinth: Nylon
 4 - Anti-slosh feature: Nylon
 5 - Dipstick: Phosphated steel

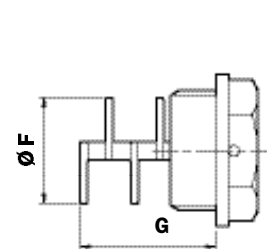
Quantità per confezione
 Number of Parts

TKT 25

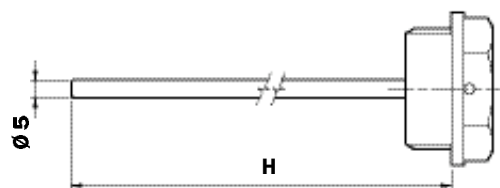
TKT****S



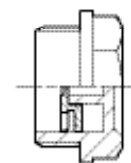
TKT****F



TKT****A



TKT****L



Size	A	Ø B	C	Ch. (mm)	D	Ø F	G	H
G13	G 1/4"	20	7	17	9	-	-	206
G16	G 3/8"	22	8	18	10	13,5	33	207
G20	G 1/2"	28	8	22	11	17,5	34	208
G26	G 3/4"	35	9	27	12	23,5	35	209
G33	G 1"	42	11,5	34	12,5	29,5	37,5	202,5
G42	G 1 1/4"	52	12	42	13	38	40	203
G48	G 1 1/2"	58	14	47	13	38	38	203
G60	G 2"	74	14	64	20	-	-	200

N.B. Seals thickness 2 mm.

Recommended tightening torque 10÷15 Nm.

Threaded
 round
 filler caps

TKT

Example: TKT

1 - Size

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"

2 - Colour

N	Black nylon
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3 - Cover wording

N	Neutral
O	Oil

Ordering information

1	2	3	4	5	6	7
☐	☐	☐	☐	☐	☐	☐
G20	N	O	A	F	F	P01

4 - Seal

A	
B	Inorganic fibre x TKT***S and TKT***L

5 - Style

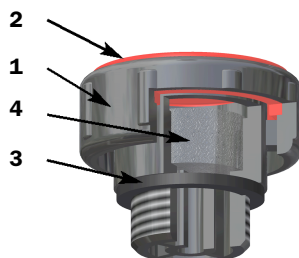
S	Without breather
F	Breather hole

6 - Accessories

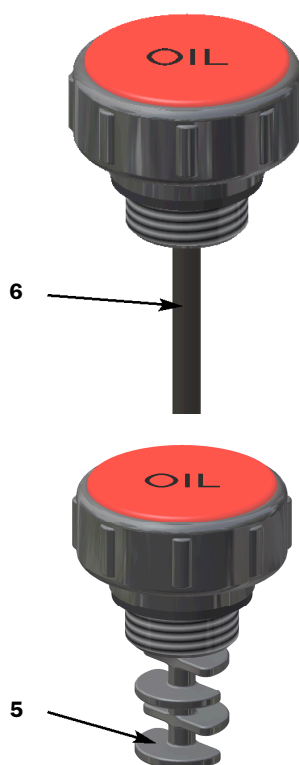
S	Without
A	Standard dipstick
F	Anti-slosh feature (except G13-G60)
L	Labyrinth filter (except G33-G42-G48-G60)

7 - Options

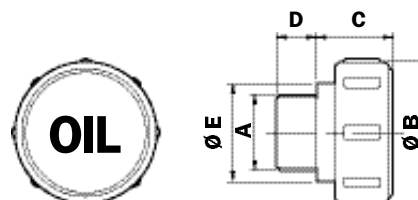
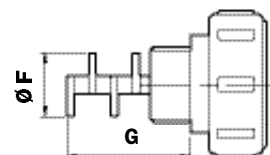
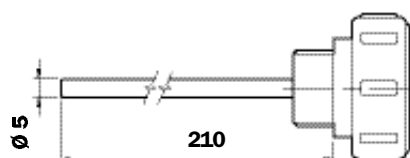
P01	MP Standard
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Series**TSD****Dimensions****TSD (Materials)**

- 1 - Body: Nylon
- 2 - Cover: Nylon
- 3 - Seal: NBR
- 4 - Filter: Galvanised steel
- 5 - Anti-slosh feature: Nylon
- 6 - Dipstick: Phosphated steel



Quantity per pack
Number of Parts
TSD 25

TSD**S****TSD****F****TSD****A**

Size	A	Ø B	C	D	Ø E	Ø F	G
G16	G 3/8"	35	21	10	23	13,5	36
G20	G 1/2"	39	21	11	27	17,5	36
G26	G 3/4"	45	21	12	33	23,5	37
G33	G 1"	51	24,5	13	39	29,5	44
G42	G 1 1/4"	66	29,5	14	54	38	47
G48	G 1 1/2"	66	29,5	14	54	38	47

N.B. Seals thickness 2 mm.
 Recommended tightening torque 10÷15 Nm.

Ordering information

**Threaded
 round
 filler caps
 TSD**

Example: TSD

1 - Size

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"

2 - Cover colour

R	Red
Y	Yellow

3 - Cover wording

N	Neutral
O	Oil
G	Gasoil

4 - Seal

A	NBR
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5 - Filter

A	Steel
O	Without (for "Gasoil" only)

6 - Accessories

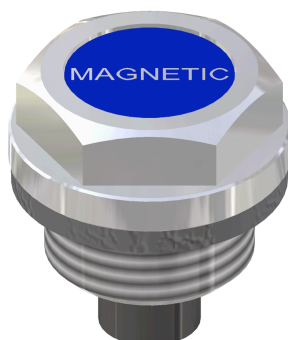
S	Without
A	Standard dipstick
F	Anti-slosh feature

7 - Options

P01	MP Standard
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1	2	3	4	5	6	6
☐	☐	☐	☐	☐	☐	☐
G20	R	O	A	A	F	P01

Series TKM



TKM (Materials)

Body: Aluminium

Seal: Inorganic fibre

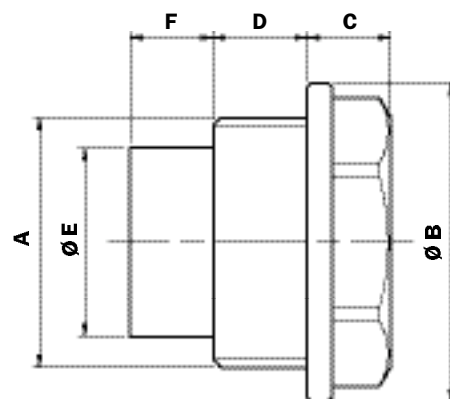
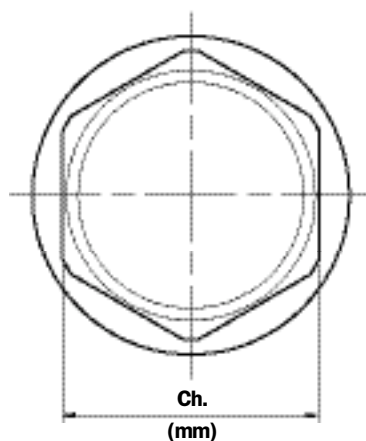
Temperature

- from -25° to +100°C

Compatibility

- Only mineral oils to ISO 2943

TKM



Size	A	Ø B	C	D	Ø E	F	Ch. (mm)
G13	G 1/4"	19	4,5	7	9,5	6	15
G16	G 3/8"	22	8	9	8	6	18
G20	G 1/2"	28	8	9	10	8	22
G26	G 3/4"	35	9	10	12	11	27
G33	G 1"	42	11	12,5	25	11	37

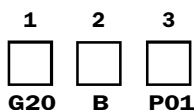
N.B. Seals thickness 2 mm.

Recommended tightening torque 10÷15 Nm.

Ordering information

Threaded round plug TKM

Example: TKM



1 - Size

G13	G 1/4"
G16	G 3/8"
G20	G 1/2"
G26	G 3/4"
G33	G 1"

2 - Seals

B	Inorganic fibre
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3 - Options

P01	MP Standard
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