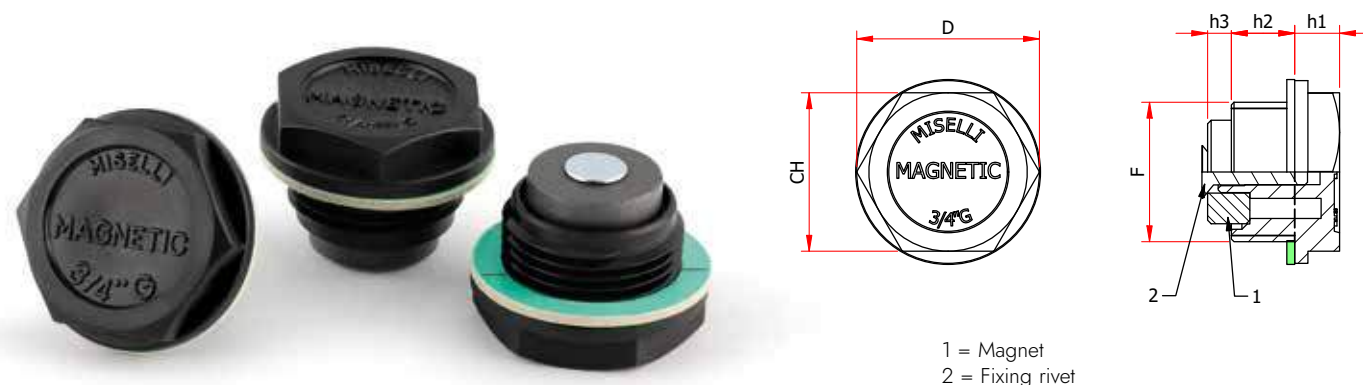


TM - DRAIN PLASTIC PLUG WITH MAGNET



Threaded hex head oil plug that can be fitted on the bottom of the transmission or tank, to be used as drain plug; the magnet attract ferrous metal parts, preventing damage to gears and others moving components.

Material: Polyamide PA66.

Sealing: flat fiber gasket.

Maximum working temperature: 100°C/212°F.

Cod.	F	CH	D	h3	h2	h1
TM/14	G 1/4"	17	20	5	9	7
TM/38	G 3/8"	18	22	10	10	7,5
TM/12	G 1/2"	24	27	9	11	8
TM/34	G 3/4"	30	34	6,5	11	9
TM/1	G 1"	35	42	14	12	10,5

TF/C - BLANKING CAP WITH INTERNAL THREAD



Blanking cap with internal thread designed for plastic tanks.

Material: Nylon.

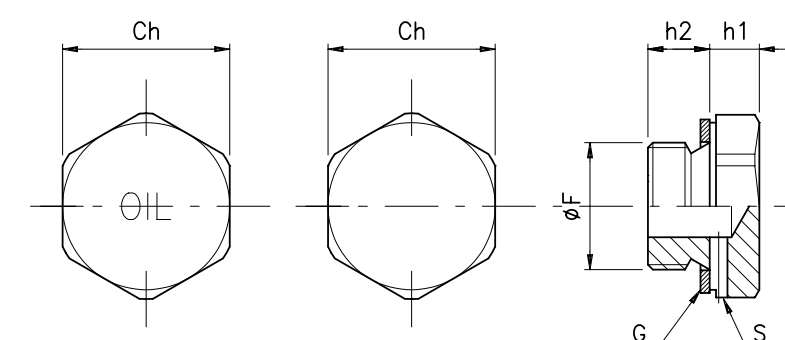
Sealing: internal flat gasket in EPDM, on enquiry.

Maximum working temperature: 90°C/ 194°F.

Thread sizes: G.1/4", 3/8", 1/2", 3/4" 1", 1 1/4", 1 1/2", 2", 2 1/2", 3".

M/TCN(S) - ALUMINUM FILL PLUG

M/TSN - ALUMINUM DRAIN PLUG



M/TCN – M/TCNS

M/TSN

G = Fiber gasket
S = Breather hole

Aluminium hex head plug. M/TCN – M/TCNS comes marked OIL, M/TSN comes blank.

Material: Aluminum alloy.

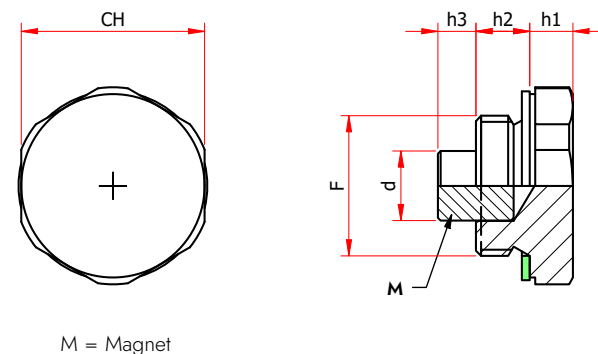
Sealing: flat fiber gasket.

Special versions

Sealing: flat aluminium gasket.

Cod.	F	Ch	h2	h1	Nm	Pack.
M/TCN-14 M/TCNS-14 M/TSN-14	G 1/4"	19	10	7	10	100
M/TCN-38 M/TCNS-38 M/TSN-38	G 3/8"	22	10	7	15	100
M/TCN-12 M/TCNS-12 M/TSN-12	G 1/2"	27	10	8	20	100
M/TCN-34 M/TCNS-34 M/TSN-34	G 3/4"	34	10	8	25	50
M/TCN-1 M/TCNS-1 M/TSN-1	G 1"	40	14	8	50	50
- - M/TSN-M10	M10x1	14	8	5	8	-
- - M/TSN-M12	M12x1,5	17	8	6	9	-
- - M/TSN-M14	M14x1,5	17	8	6	11	-
- - M/TSN-M16	M16x1,5	22	10	7	13	-
- - M/TSN-M18	M18x1,5	22	10	7	15	-
- - M/TSN-M20	M20x1,5	24	10	7	18	-

TMA - ALUMINIUM DRAIN PLUG WITH MAGNET



M = Magnet

Aluminium hex plug with a pressed-in cylindrical magnet, located in the base of the plug. This plug is fitted to the bottom of the tank, in order to collect ferrous particles that are floating in the oil, helping to protect pumps, valves and cylinders.

Material: Aluminum alloy.

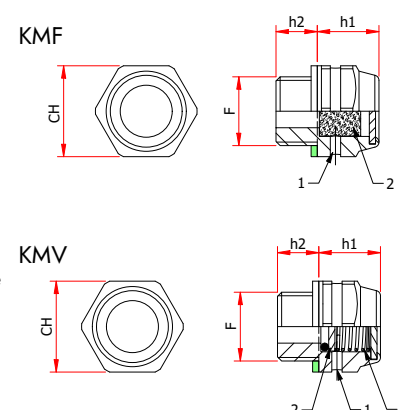
Sealing: flat fiber gasket.

Magnet: anisotropic ferrite.

Cod.	Ch	F	d	h1	h2	h3	Weight gr	Pack.
TMA/14	19	G 1/4"	5	7	10	6	10	100
TMA/38	22	G 3/8"	8	7	10	7	15	100
TMA/12	27	G 1/2"	10	8	10	7	27	100
TMA/34	34	G 3/4"	13	8	10	7	42	50
TMA/1	40	G 1"	13	8	14	7	68	50

KMF - BRASS FILLER PLUG WITH FILTER

KMV - BRASS FILLER PLUG WITH VENT VALVE



1 = Breather holes
2 = Air filter
3 = One-way check valve

Brass filler breather with two breather holes located under the hex head, providing an adequate airflow capacity. Extensively used in small oil tanks, gearboxes, gear reducers, torque multipliers and transmissions.

Material: Brass.

Sealing: flat fiber gasket.

Maximum working temperature: 90°C/194°F.

KMF: metal filter (filtration degree around 200 microns) to avoid pollution of the oil.

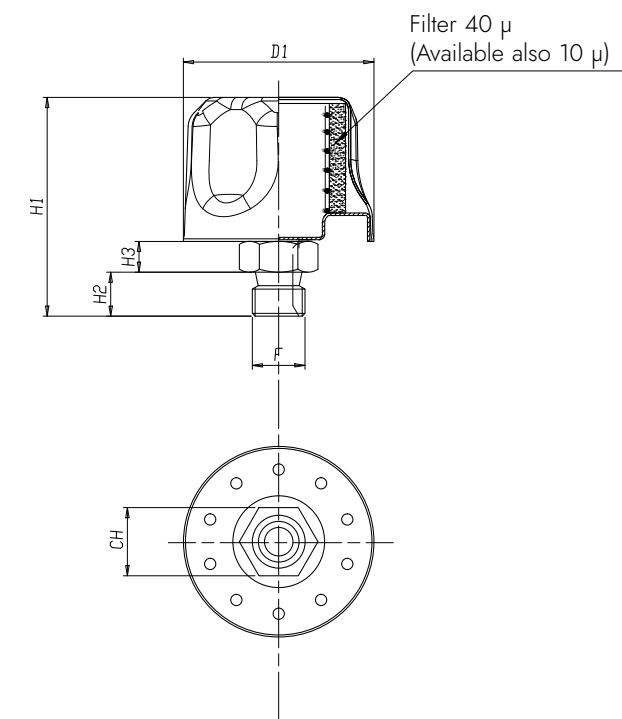
KMV: pre-tensioned spring of the valve will allow the valve disc to be lifted from its seat at a pressure of 0.35 bar/5 PSI, thus allowing the air to escape; when the pressure is reduced after venting, the valve will close and stop air to entering the tank. The vent valve, in closed position, prevent dust particles or other forms of contamination from the atmosphere to enter the oil.

Cod.	F	Ch	h1	h2	Pack.
KMF/14 KMV/14	G 1/4"	18	15,5	9	100
KMF/38 KMV/38	G 3/8"	22	14,5	10	100
KMF/12 KMV/12	G 1/2"	27	14,5	10	50

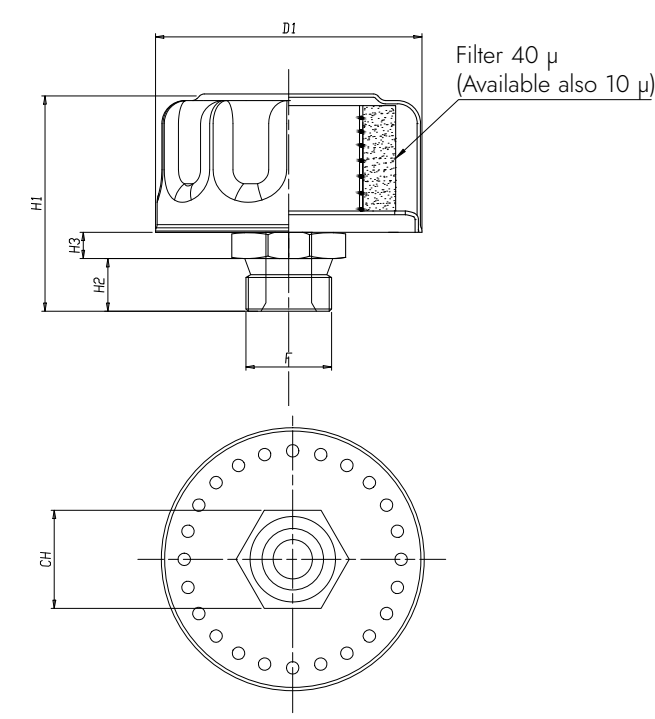
TA - METAL FILLER BREATHERS



TA4046



TA4080



Metal filler breather screw-in version.

Material: zinc plated steel with chrome-plated cap.

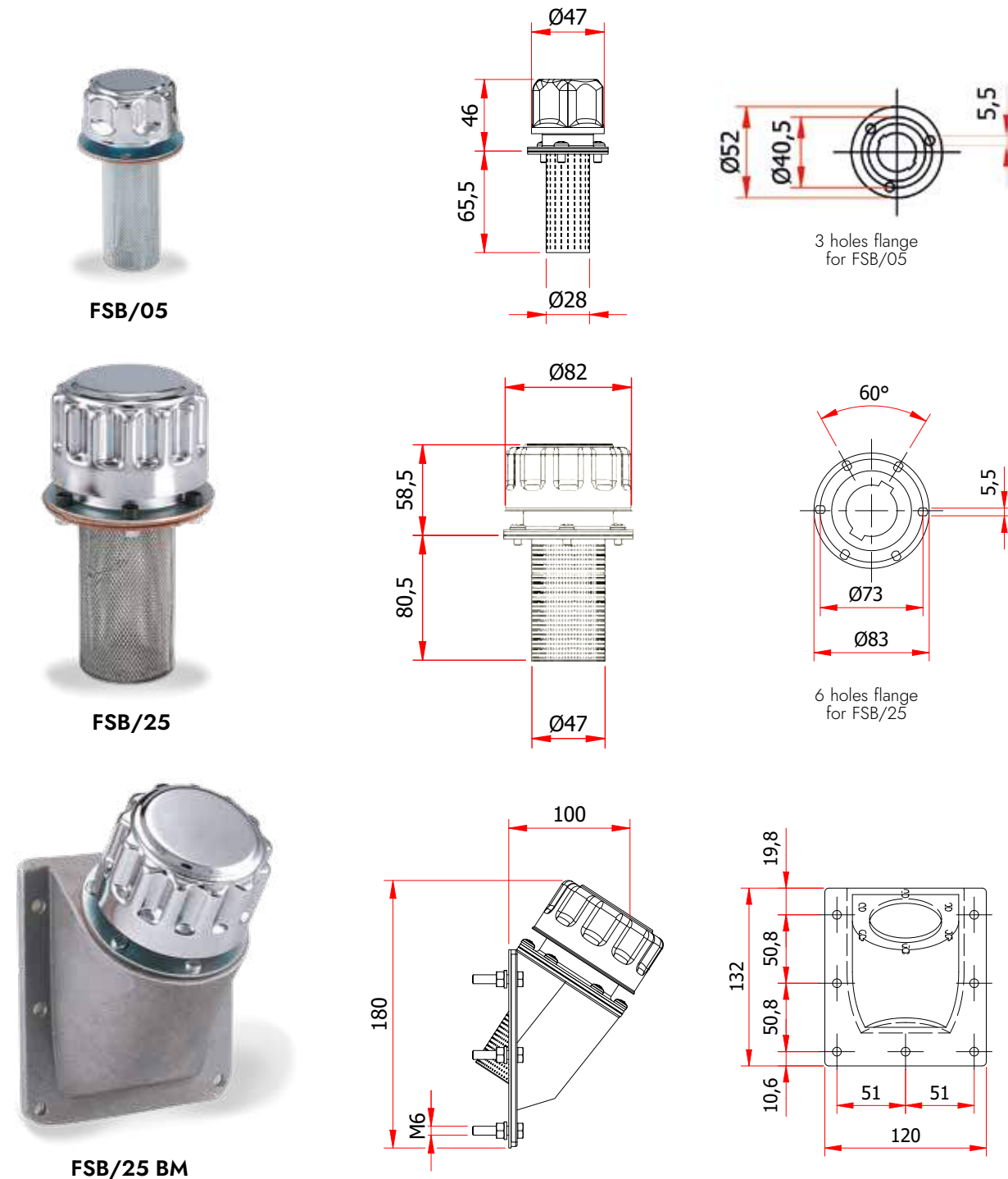
Filter: air filter element made of polyurethane foam, filtration degree 40 microns (10 microns on request)

allowing the reservoir to breathe whilst protecting it from contamination found in dusty environments.

Airflow rate "P": indicated in the table expressed in Lt/min measured at a pressure of 50 mbar/0,73 PSI.

Cod.	F	CH	D1	H1	H2	H3	P	Weight gr	Pack.
TA4046-14	G1/4	17	46	52	10	7	130	60	10
TA4046-38	G3/8	19	46	54	12	7	168	70	10
TA4046-12	G1/2	24	46	56	14	9	175	80	10
TA4046-34	G3/4	30	46	54	16	8	170	120	10
TA4080-12	G1/2	24	80	68	14	8	670	200	10
TA4080-34	G3/4	30	80	70	16	8	680	240	10
TA4080-1	G1	36	80	74	18	10	680	300	10

FSB - FILLER BREATHERS CAP WITH STRAINER



Filler breather cap with air filter. Mounting with flange and self tapping M5 screws, bayonet connection.

Material: chromed steel.

Filter: air filter element made of polyurethane foam, filtration degree 40 microns (10 microns on request).

Filtering strainer: 800 µ filtration degree.

Sealing: Cork.

Airflow capacity: up to 950 Liters/min (see data and graphic page 73).

Special versions

FSB/25-SD: with welding flange.

FSB/25-38: with removable metal filtering strainer.

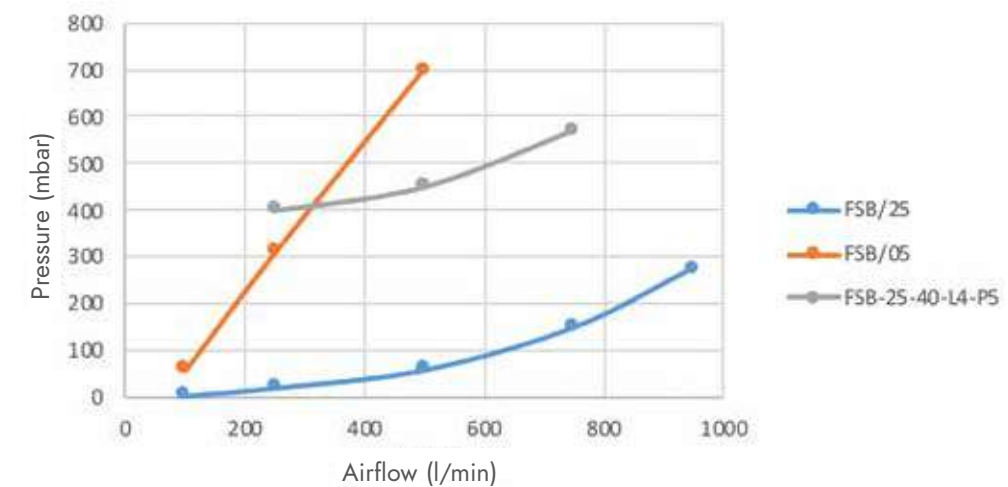
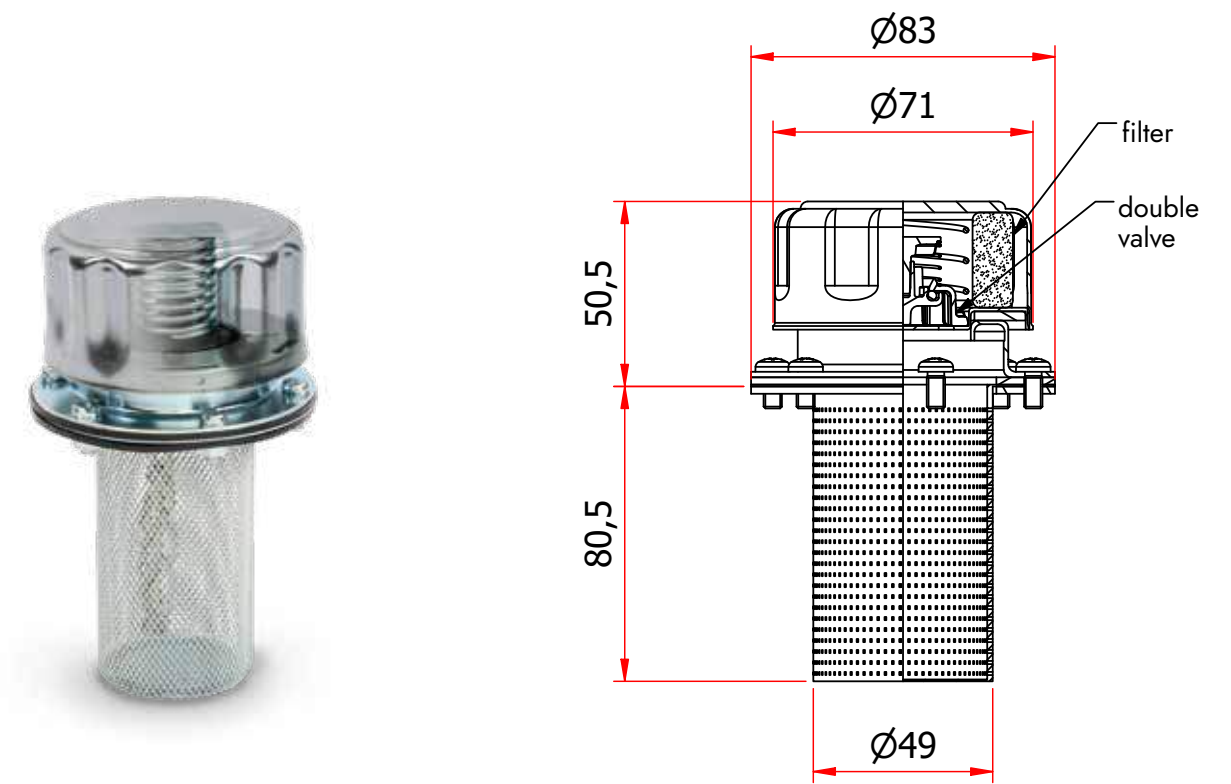
FSB/25-150: with 150 mm metal filtering strainer.

FSB/25-L: with predisposition ring for safety lock.

FSB/25-L+C: supplied with safety lock.

FSB/25-G: with NBR flat seals.

FSB/P5 - PRESSURIZED FILLER BREATHER CAP



Pressurized filler breather cap with double valve system, that allows a constant pressure to be kept in the tank. Mounting with flange and self tapping M5 screws, bayonet connection.

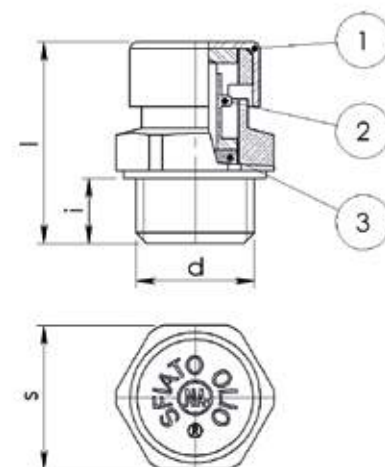
Material: chromed steel.

Filter: air filter element made of polyurethane foam, filtration degree 40 microns.

Sealing: with NBR flat seals.

When the fluid level falls, air enters the reservoir through the suction valve and the air filter. When the level rises, the pressure increased created is regulated by the safety valve (set at 0.35 bar/5 PSI) allowing the airflow to exit the tank only once that pressure is reached. This pressurization system reduces the air volume allowed into the reservoir, and consequently reduces the ingress of impurities into the oil, keeping the fluid clean. Ultimately this will assist in the correct functioning of the hydraulic system. These filler breathers are recommended for systems that are expected to operate in extremely dusty environments and mobile applications where leakages prevention is necessary.

31 A - BREATHER PLUG WITH SINTERED BRONZE FILTER



- (1) Protection cap: steel white zinc plated
(2) Labyrinth: Aluminium alloy
(3) Filter: Bronze sintered 50 microns

Metal filler breather that allow air to flow freely in both directions designed for use in speed reducers, gearboxes, bearing housings and transmissions of all types.

Material: body in brass and cap made in zinc plated steel.

Filter: bronze filter element (50 microns filtration degree).

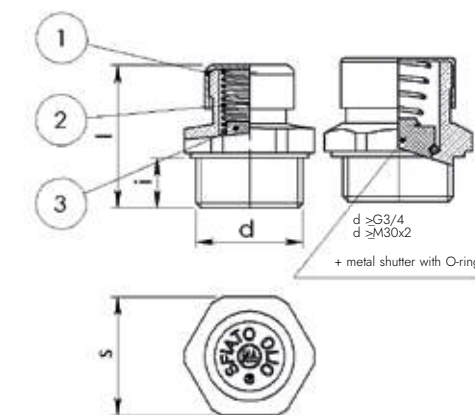
Labyrinth: Aluminium, to contain oil leakages.

Special versions

For sizes 3/8" and 1/2" possibility to supply conical threads.

Cod.	d	i (mm)	s (mm)	l (mm)	Weight gr	Pack.
31A-G.1/8	G1/8	7	14	22	16	100
31A-G.1/4	G1/4	9	17	29	31,5	100
31A-G.3/8	G3/8	9	20	28	37,5	100
31A-R.3/8	R3/8	10	19	27	36,5	100
31A-G.1/2	G1/2	10	24	29	59	50
31A-R.1/2	R1/2	11	22	30	56	50
31A-G.3/4	G3/4	12	32	35	96	50
31A-G.1	G1	13,5	40	43	201,5	25
31A-G.1 1/4 (on enquiry)	G1 1/4	15	50	53	450	-
31A-M10x1	M10x1	7	14	22	15	100
31A-M12x1,5	M12x1,5	9	17	29	30	100
31A-M14x1,5	M14x1,5	9	17	29	33	100
31A-M16x1,5	M16x1,5	9	22	28	43,5	100
31A-M18x1,5	M18x1,5	9	22	28	46,5	100
31A-M20x1,5	M20x1,5	10	24	32	71	50
31A-M22x1,5	M22x1,5	10	27	30	79	50
31A-M24x2	M24x2	11	30	33	118	25
31A-M30X2 (on enquiry)	M30X2	12	36	35	120	-

33 A - BREATHER PLUG WITH VENT VALVE



- (1) Protection cap: Steel white zinc plated
(2) Spring: Stainless steel
(3) Internal seal: NBR

Threaded metal plug with internal one-way vent valve designed for use in gearboxes, bearing housings and transmissions of all types.

Material: body in brass and cap made in zinc plated steel.

Vent valve: it opens at around 0.25 bar/4,35 PSI and exhausts excess pressure in the reservoir, and then closes once the preset pressure setting is reached. In off-high-

way applications the breather assists in containing oil leaks from the unit.

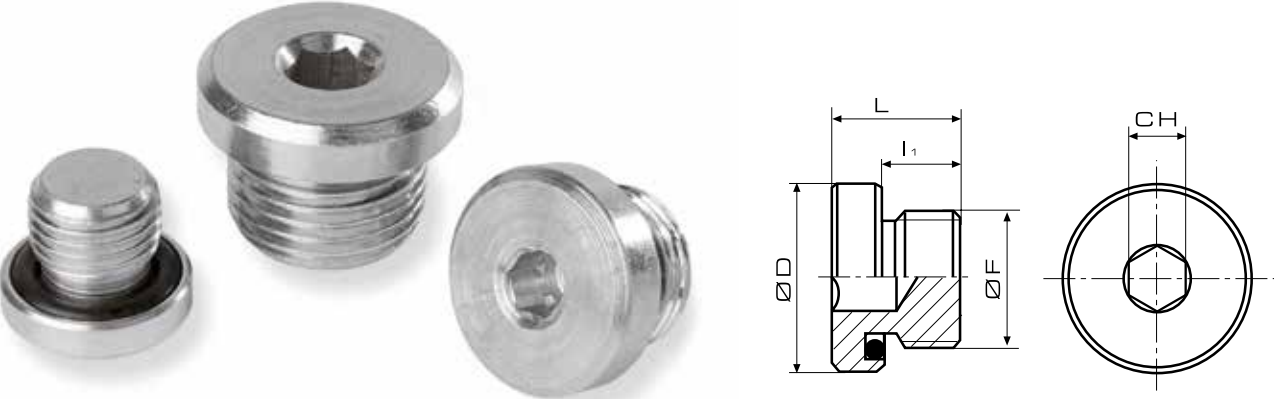
Maximum working temperature: 90°C/194°F.

Special versions

For sizes 1/4" 3/8" 1/2" 3/4" possibility to supply conical threads.

Cod.	d	i (mm)	s (mm)	l (mm)	Weight gr	Pack.
33A-G.1/8	G1/8	7	14	21,5	14,5	100
33A-G.1/4	G1/4	9	17	29	30,5	100
33A-R.1/4	R1/4	10	17	29	32	100
33A-G.3/8	G3/8	9	20	28	38	100
33A-R.3/8	R3/8	10	19	27	32	100
33A-G.1/2	G1/2	10	24	29	61	50
33A-R.1/2	R1/2	11	22	30	56	50
33A-G.3/4	G3/4	12	32	35	98	50
33A-R.3/4	R3/4	14	32	37	88	50
33A-G.1	G1	13	40	43	194	25
33A-G.1 1/4 (on enquiry)	G1 1/4	15,5	50	53	510	-
33A-G.1 1/2 (on enquiry)	G1 1/2	15	55	53	600	-
33A-M10x1	M10x1	7	14	22	14,5	100
33A-M12x1,5	M12x1,5	9	17	29	30	100
33A-M14x1,5	M14x1,5	9	17	29	32	100
33A-M16x1,5	M16x1,5	9	22	28	44	100
33A-M18x1,5	M18x1,5	9	22	28	45,6	100
33A-M20x1,5	M20x1,5	10	24	32	71	50
33A-M22x1,5	M22x1,5	10	27	30	81	50
33A-M24x1,5	M24x1,5	11	30	33	120	25
33A-M24x2	M24x2	11	30	33	120	25
33A-M30x2 (on enquiry)	M30x2	12	36	35	150	-

TTCE - CYLINDRICAL STEEL PLUG WITH INTERNAL HEX AND NBR SEAL



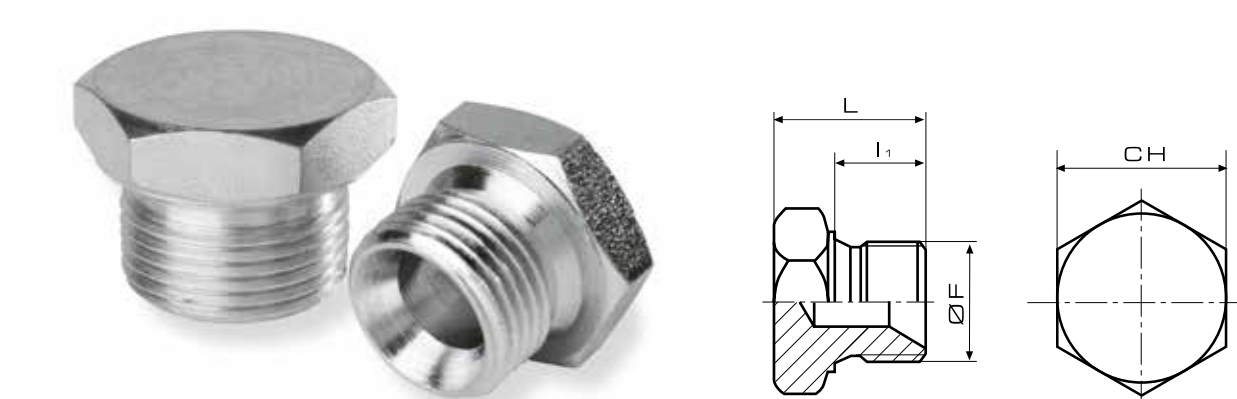
Material: Steel 11SMnPb37

Sealing: NBR 90 Shore.

Max. working temperature: 100°C/212°F

Cod.	ØF	I1	L	ØD	CH	Pack.
TTCE-18	G 1/8"	9	13	15	4	100
TTCE-14	G 1/4"	11	16	19	6	100
TTCE-38	G 3/8"	11	17	22	6	100
TTCE-12	G 1/2"	14	20	27	8	50
TTCE-34	G 3/4"	14	20	32	12	50
TTCE-1	G 1"	16	22	40	12	25
TTCE-114 (on enquiry)	G 1 1/4"	18	25	50	12	-
TTCE-112 (on enquiry)	G 1 1/2"	17	24	55	24	-
TTCE-10.1	M 10x1	8	12	15	5	100
TTCE-12.15	M 12x1,5	10	16	17	6	100
TTCE-14.15	M 14x1,5	10	16	19	6	100
TTCE-16.15	M 16x1,5	10	16	22	6	100
TTCE-18.15	M 18x1,5	11	17	25	6	100
TTCE-20.15	M 20x1,5	12	18	27	8	50
TTCE-22.15	M 22x1,5	12	18	28	8	50
TTCE-26.15 (on enquiry)	M 26x1,5	13,5	20	32	12	-
TTCE-27.2 (on enquiry)	M 27x2	13,5	20	32	12	-
TTCE-33.2 (on enquiry)	M 33x2	15	21	40	17	-
TTCE-42.2 (on enquiry)	M 42x2	17	24	50	22	-
TTCE-48.2 (on enquiry)	M48x2	17	24	55	24	-

TTE - HEX HEAD STEEL PLUG



Material: Steel 11SMnPb37

Cod.	ØF	I1	L	CH	Pack.
TTE-18	G 1/8"	8	13	14	100
TTE-14	G 1/4"	11	17	19	100
TTE-38	G 3/8"	12	19	22	100
TTE-12	G 1/2"	14	22	27	50
TTE-34	G 3/4"	16	25	32	50
TTE-1	G 1"	19	29	41	25
TTE-114 (on enquiry)	G 1 1/4"	20	31	50	-
TTE-112 (on enquiry)	G 1 1/2"	21	33	55	-
TTE-10.1	M 10x1	8	12	14	100
TTE-12.15	M 12x1,5	10	15	17	100
TTE-14.15	M 14x1,5	11	17	19	100
TTE-16.15	M 16x1,5	12	19	22	100
TTE-18.15	M 18x1,5	13	20	24	100
TTE-20.15	M 20x1,5	14	22	27	50
TTE-22.15	M 22x1,5	15	23	27	50
TTE-24.15 (on enquiry)	M 24x1,5	16	25	30	-
TTE-26.15 (on enquiry)	M 26x1,5	16	25	32	-