

# BFB, BFT

# BASKET FILTERS



Original ELESA Model FRB+C, FRF+C



**BFB**

(Bayonet-style Flange)



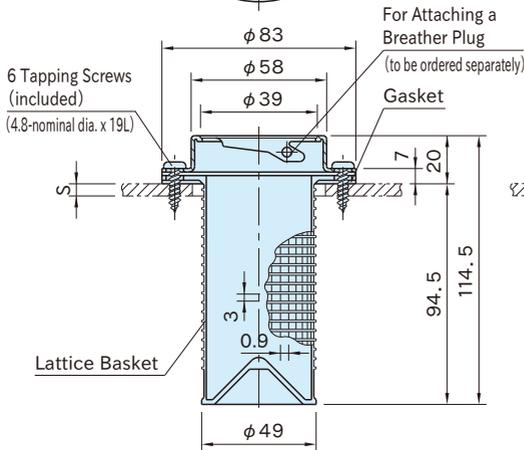
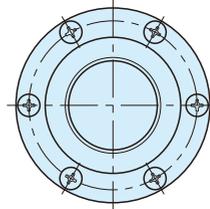
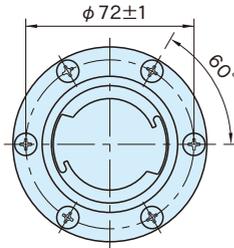
**BFT**

(Threaded-style Flange)

The cap must be ordered separately.

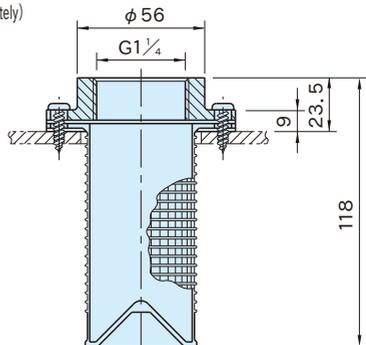


Part Number	Flange	Basket	Gasket	Tapping Screw
<b>BFB</b>	Steel (SUM22L) Zinc plated finish	Polypropylene plastic Black Matte	Nitrile rubber (NBR)	Steel (SUM22L) Zinc plated finish
<b>BFT</b>	Glass-fiber reinforced polyamide plastic Black Matte	Black Matte Lattice: 0.9x3mm		



**BFB**

(Bayonet-style Flange)



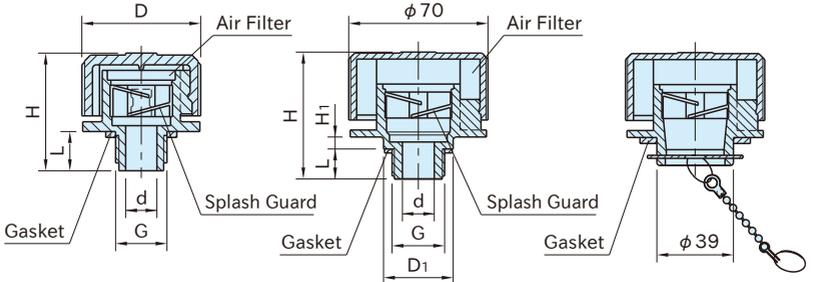
**BFT**

(Threaded-style Flange)

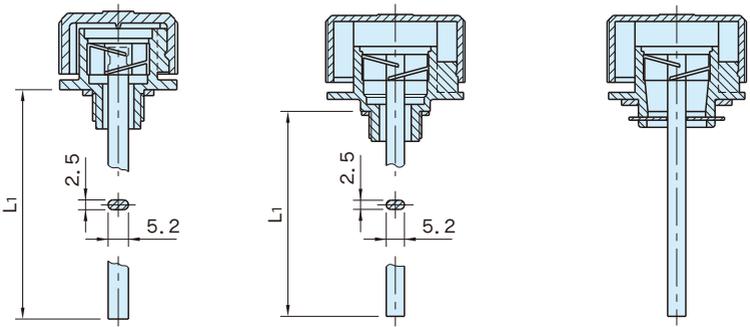
**BM / BR BREATHER PLUGS**



Type	Cap	Threaded Connector	Air Filter	Dipstick	Gasket
<b>BM</b>			Zinc plated steel wire (SWMGS-1) Filtration: 50~60 μ	-	Steel (SUM22L) Zinc plated finish
<b>BM-G</b>					
<b>BR-T</b>	Polyamide plastic	Polyamide plastic	Polyurethane plastic Filtration: 40 μ	-	Nitrile rubber (NBR)
<b>BR-39B</b>	Orange Matte	Black Matte			
<b>BR-TG</b>					
<b>BR-39BG</b>				Steel (SUM22L) Zinc plated finish	



**BM** (Steel Wire Air Filter)      **BR-T** (Polyurethane Plastic Air Filter)      **BR-39B** (Polyurethane Plastic Air Filter)

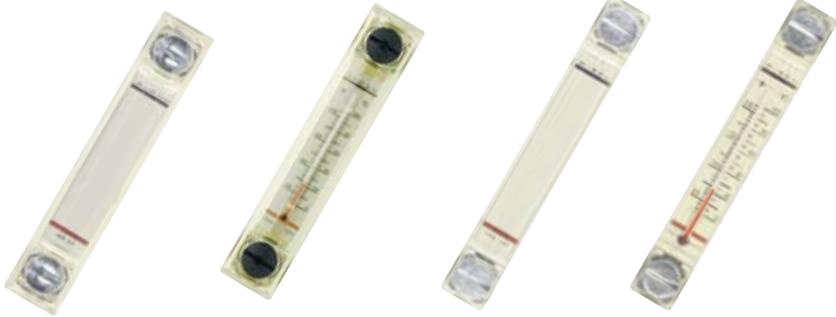


**BM-G** (Dipstick & Steel Air Filter)      **BR-TG** (Dipstick & Polyurethane Plastic Air Filter)      **BR-39BG** (Dipstick & Polyurethane Plastic Air Filter)

# LR / LT      COLUMN LEVEL INDICATORS

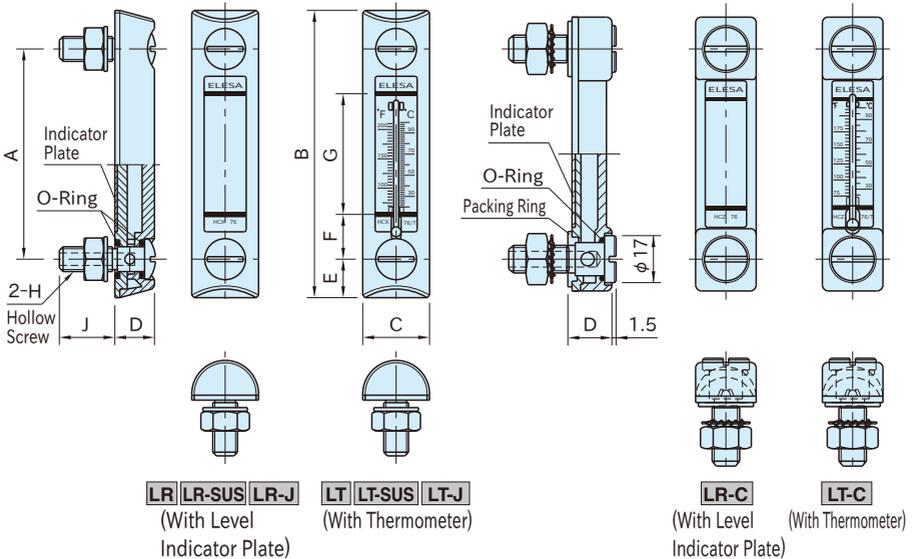


ELESA Original Design HCX & HCZ



**LR**  
(With Level Indicator Plate)
**LT-J**  
(With Thermometer)
**LR-C**  
(With Level Indicator Plate)
**LT-C**  
(With Thermometer)

Type	Body	Indicator Plate	Setscrews & Nut	O-Ring
<b>LR</b> <b>LT</b>	Special clear polyamide plastic	Aluminum (A1050P)	Steel (SUM22L) Zinc plated finish	Nitrile rubber (NBR)
<b>LR-C</b> <b>LT-C</b>			Stainless steel (SUS303)	Fluoric rubber (FKM)
<b>LR-SUS</b> <b>LT-SUS</b>			Setscrew: Glass-reinforced polyamide plastic Nut: SUS304 stainless steel	Nitrile rubber (NBR)
<b>LR-J</b> <b>LT-J</b>				



※Some items are not RoHS-compliant. Contact us at [info@imao.jp](mailto:info@imao.jp) for the updated information.

# PN / PO PLUGS



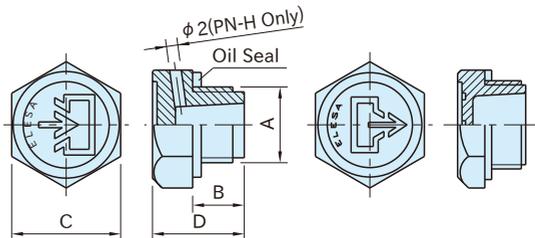
ELESA Original Design TCD, TCDF, TSD & TN



**PN**  
(Black Matte,  
Oil Filling Mark)



**PN-H**  
(Black Matte, Oil Filling Mark,  
Air Blow)



**PN PN-H**  
(Black Matte, Oil Filling Mark)

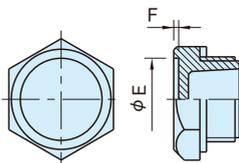
**PN-D**  
(Red Matte, Draining Mark)



**PN-D**  
(Red Matte,  
Draining Mark)



**PO**  
(Black Matte, Plain)



**PO**  
(Black Matte, Plain)

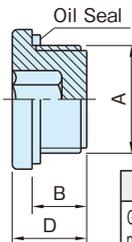
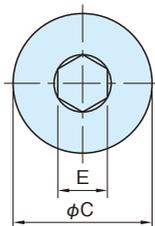
Body	Oil Seal
Glass-fiber reinforced polyamide plastic Black Matte or Red Matte	Nitrile rubber (NBR)

Type / Size	A	B	C	D	Screw Torque (N·m)	Weight (g)
<b>PN</b>	1/8	9	19	16	4 - 6	4
	1/4					
<b>PN-H</b>	3/8	11	26	18	8 - 10	5
<b>PN-D</b>	1/2					8
<b>PO</b>	3/4	12	32	20	10 - 12	14
	1	13	38	22	12 - 15	18

**PO** (Black Matte, Plain)

Part Number	E	F
<b>PO-1/8</b>	15	0.8
<b>PO-1/4</b>		
<b>PO-3/8</b>	17	
<b>PO-1/2</b>	20.5	0.9
<b>PO-3/4</b>	25	1
<b>PO-1</b>	31	1.2

- The **PO** type can be personalized with a particular symbol mark.
- Working temperature : Between  $-30^{\circ}\text{C}$  and  $130^{\circ}\text{C}$
- Avoid using these plugs on water tanks, where plugs will expand due to water absorption.
- Unresistant to gasoline and alcohol.



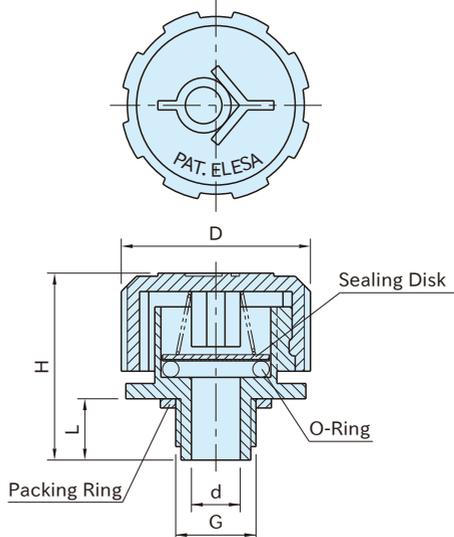
Body	Oil Seal
Glass-fiber reinforced polyamide plastic Black matte	Nitrile rubber (NBR)

Part Number	A	B	C	D	E	Screw Torque (N·m)	Weight (g)
<b>POSH-3/8</b>	$\frac{3}{8}$ -PF	9	22	13	8	3 - 5	5
<b>POSH-1/2</b>	$\frac{1}{2}$ -PF	11	28	15	10	3 - 4	8
<b>POSH-3/4</b>	$\frac{3}{4}$ -PF	12	32	16.5	12	3 - 5	14

- Working temperature : Between  $-30^{\circ}\text{C}$  and  $130^{\circ}\text{C}$
- Avoid using these plugs on water tanks, where plugs will expand due to water absorption.
- Unresistant to gasoline and alcohol.

**VL****VALVE BREATHER PLUGS**

Original ELESA Model SFV.



Cap	Threaded Connector	Spring	O-Ring & Packing Ring
Polyamide plastic Orange Matte	Polyamide plastic Black Matte	Stainless steel (SUS302WPA)	Nitrile rubber (NBR)

Working Pressure:10 <sup>3</sup> Pa		Working Pressure:10 <sup>4</sup> Pa		G	L	D	H	d	Weight (g)
Part Number	Part Number								
<b>VL-1/4L</b>	<b>VL-1/4H</b>	G 1/4	10	31	30	8	11		
<b>VL-3/8L</b>	<b>VL-3/8H</b>	G 3/8							
<b>VL-1/2L</b>	<b>VL-1/2H</b>	G 1/2	11.5	42	37	17	23		
<b>VL-3/4L</b>	<b>VL-3/4H</b>	G 3/4							
<b>VL-1 L</b>	<b>VL-1 H</b>	G1					25		

**Features:**

- Cap for air exhaust.
- Pressure set **VL-L** :10hPa  
**VL-H** :100hPa
- Air pressure inside the tank reaches the value stated above, the valve automatically opens to let out air.
- Air can not be let in.
- Perfect for use on speed reducers, compressors, etc.

**Notes:**

- Do not mount these plugs on the water tank to avoid them from expanding due to water absorption.
- Unresistant to gasoline and alcohol.

**Technical Information**

Working temperature : Between -30°C and 120°C

# VLHS

# VALVE BREATHER PLUGS

RoHS

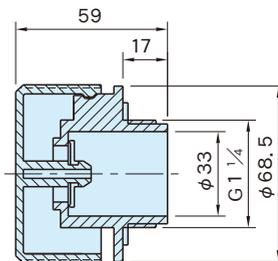
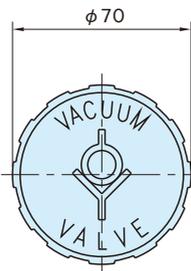
Original ELESA Model TVD. 



**VLHS-1.1/4FK**  
(FKM Version)



**VLHS-1.1/4EP**  
(EPDM Version)

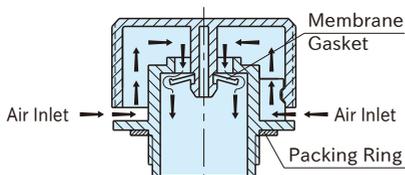


Part Number	Cap	Cap Threaded Connector	Packing Ring	Membrane Gasket
<b>VLHS-1.1/4FK</b>	Polypropylene plastic Green	Polypropylene plastic Black	Synthetic rubber	FKM
<b>VLHS-1.1/4EP</b>	Polypropylene plastic Red		Synthetic rubber	EPDM

Part Number	Weight (g)
<b>VLHS-1.1/4FK</b>	80
<b>VLHS-1.1/4EP</b>	

### Technical Information

Working temperature : Between  $-20^{\circ}\text{C}$  and  $50^{\circ}\text{C}$



Air comes into the reservoir when the membrane gasket warps owing to vacuum caused by liquid discharge.

Pressure (hPa)	Flow Rate( $\text{L} / \text{min}$ )	
	<b>VLHS-1.1/4FK</b>	<b>VLHS-1.1/4EP</b>
50	360	370
40	320	330
30	260	280
20	210	230
10	140	160
5	110	130

### Features:

- The membrane gasket works to avoid vacuumization inside the reservoir by letting air come in through the cap.
- Ideal for reservoirs or tanks for liquid transport.
- Designed to let in a large amount of air and quickly empty the reservoir.

Chemical Resistance(○Good ×Fairly good △Poor)

Chemicals	FKM	EPDM	PP
Aliphatic hydrocarbons (gasoline, gas oil, ethane, Propane, buthane)	○	×	△
Benzol	○	×	×
Aromatic hydrocarbons(toluol, xylol)	○	×	△
Glycol	○	○	○
Alcohol	×	○	○
Ketones(acetone, methyl ethyl ketone)	×	○	○
Esters	×	○	○
Poor bases	○	○	○
Strong bases	×	○	○
Poor acids	○	○	○
Strong acids	×	○	○
Mineral oils and greases	○	×	△
Animal and vegetable oils	○	×	○
Aldehyde(formaldehyde)	×	○	○
Concentrated ammonia	×	○	○
Concentrated acetic acid	×	○	○
Concentrated nitric acid	○	×	△
Concentrated sulphuric acid	○	×	○
Concentrated hydrochloric acid	○	○	○

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