

BREATHERS

BF 3 Series

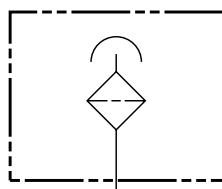
Particulate



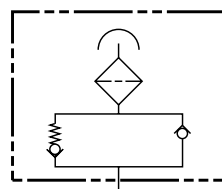
Specifications

- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Epoxy coated steel cap
- Zinc-plated internals
- 3 or 10 micron
- Threaded connection
- Pressurized breather with relief valve (*optional - BF3 only*)
- Phenolic resin impregnated filter element

Hydraulic Symbols



Standard



with Relief Valve

Model Code

Filter Type — **BF** = Breather

Filter Element Material — **P** = Phenolic Resin Impregnated Paper

Size — **3** = 31 scfm (230 gpm) max.

Type of Connection — **G** = BSPP
N = NPT

Filtration Rating (micron) — **3** = 3µm Air Filtration
10 = 10µm Air Filtration

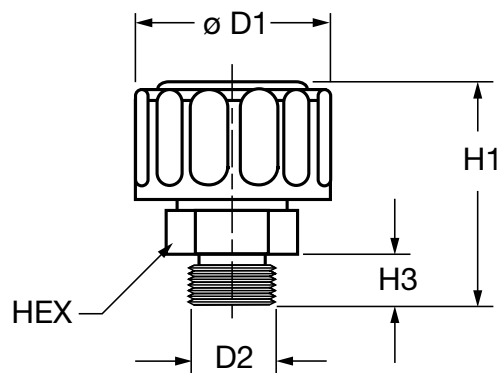
Gauge Options — **W** = Without Indicator

Modification Number — **1.0** /

G(BSPP)	Relief Pressure	N (NPT)	Relief Pressure
1.0 = G 3/4	—	3/4 NPT	—
2.0 = G 3/8	—	—	—
3.0 = G 1/2	—	—	—
4.0 = G 3/4	0.4 bar	3/4 NPT	0.4 bar
5.0 = G 3/4	0.7 bar	3/4 NPT	0.7 bar
6.0 = G 3/4	0.2 bar	3/4 NPT	0.2 bar

Supplementary Details —
(omit) = standard
RV = Relief Valve (*for use on pressurized tanks*)

Dimensions



Size	ØD1	D2	H1	H3	HEX
BF 3..1.0	2.99"	G 3/4"	3.11"	0.63"	1-7/16"
BF 3..2.0	2.99"	G 3/8"	2.83"	0.47"	7/8"
BF 3..3.0	2.99"	G 1/2"	2.99"	0.55"	1-1/16"
BF 3..4.0	2.99" (76mm)	G 3/4"	3.11" (79mm)	0.63" (16mm)	1-7/16" (36mm)
BF 3..5.0		G 3/8"			
BF 3..6.0		G 1/2"			

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 4 Series

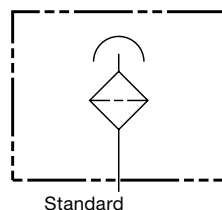
Particulate



Specifications

- Maximum flow rate - 12 scfm / 90 gpm at 0.04 bar
- Epoxy coated steel cap
- Zinc-plated internals
- 3 or 10 micron
- Threaded connection
- Phenolic resin impregnated filter element

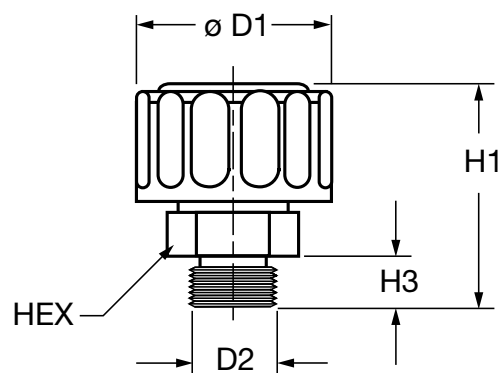
Hydraulic Symbols



Model Code

	BF	P	4	G	3	W	1.0
Filter Type	BF = Breather						
Filter Element Material		P = Phenolic Resin Impregnated Paper					
Size			4 = 12 scfm (90 gpm) max.				
Type of Connection				G = BSPP			
Filtration Rating (micron)					3 = 3µm Air Filtration 10 = 10µm Air Filtration		
Gauge Options						W = Without Indicator	
Modification Number							1.0 = G 1/4 (BSPP)

Dimensions



Size	ØD1	D2	H1	H3	HEX
BF 4..1.0	1.73" (44mm)	G 1/4" (ISO 228)	2.44" (62mm)	0.53" (13.5mm)	11/16" (17mm)

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

ELF...3 & ELF...4 Series

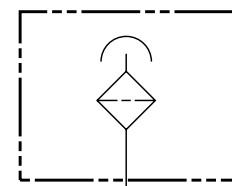
Particulate Filler



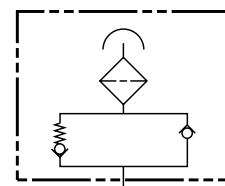
Specifications

- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Epoxy coated steel cap
- Zinc-plated internals
- 3 or 10 micron
- 500 micron plastic filler basket (*standard*)
- Bayonet connection to access fill port
- Installs via 3 or 6 bolt circle (*bolts included*)
- Locking tabs (*optional - ELFL 3 only*)
- Pressurized breather with relief valve (*optional - ELF3 only*)
- Phenolic resin impregnated filter element

Hydraulic Symbols



standard



with relief valve (ELF3 only)

Model Code

ELF P 3 F 10 W 1 . 0 /

Filter Type

- ELF = Filler Breather
- ELFL = Lockable Filler Breather (*not available for size 4*)

Filter Element Material

- P = Phenolic Resin Impregnated Paper

Size

- 3 = 31 scfm (230 gpm) max.
- 4 = 12 scfm (90 gpm) max.

Type of Connection

- F = Flanged

Filtration Rating (micron)

- 3 = 3µm Air Filtration
- 10 = 10µm Air Filtration

Gauge Options

- W = Without Indicator

Type

- 1 = ELF 3 and 4
- 4 = ELF 3 RV; Reseat Pressure 6 psi (0.4 bar)
- 5 = ELF 3 RV; Reseat Pressure 10 psi (0.7 bar)
- 6 = ELF 3 RV; Reseat Pressure 3 psi (0.2 bar)

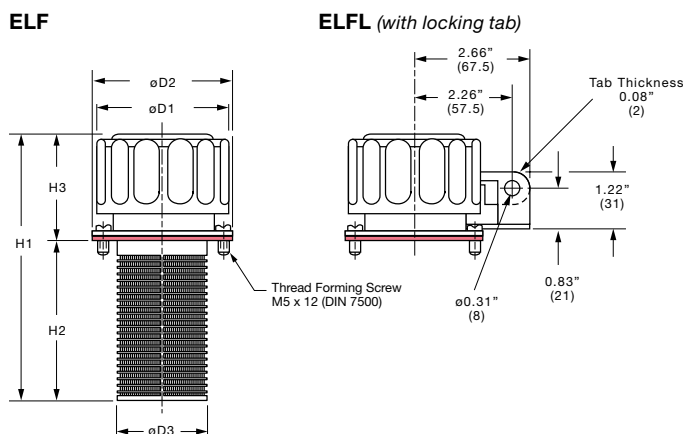
Modification Number

- 0 = Standard

Supplementary Details

- RV = Relief Valve (*for use on Pressurized Tanks; ELFP3 only*)
- SO169H3.5 = 3.5 inch plated steel filler basket
- SO169H6 = 6 inch plated steel filler basket
- SO169H8 = 8 inch plated steel filler basket (*ELFP3 only*)

Dimensions

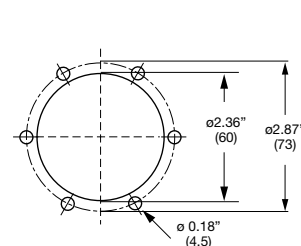


Size	ø D1	ø D2	ø D3	H1	H2	H3
ELF 3	2.99" (76)	3.27" (83)	2.05" (52)	6.26" (159)	3.80" (96.5)	2.46" (62.5)
ELF 4	1.73" (44)	1.97" (50)	1.10" (28)	5.32" (135)	3.21" (81.5)	2.11" (53.5)

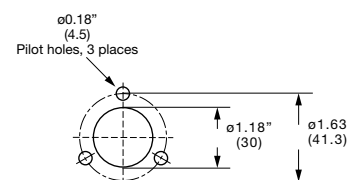
Mounting Hole Patterns

ELF 3

(flange interface to DIN 24557/T2)



ELF4



Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

ELF 3 Series

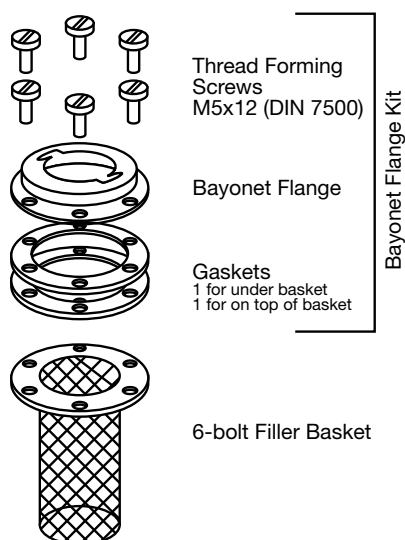
Particulate Filler Breather Parts

ELF 3 Breather Caps



Part	Model Code	Part No.
Breather Cap	ELF P 3 CAP 10 W 1.0 W/CHAIN	02080124
Breather Cap with 3 psi relief valve	ELF P 3 CAP 10 W 6.0/RV W/CHAIN	02080125

6 bolt Bayonet Flange

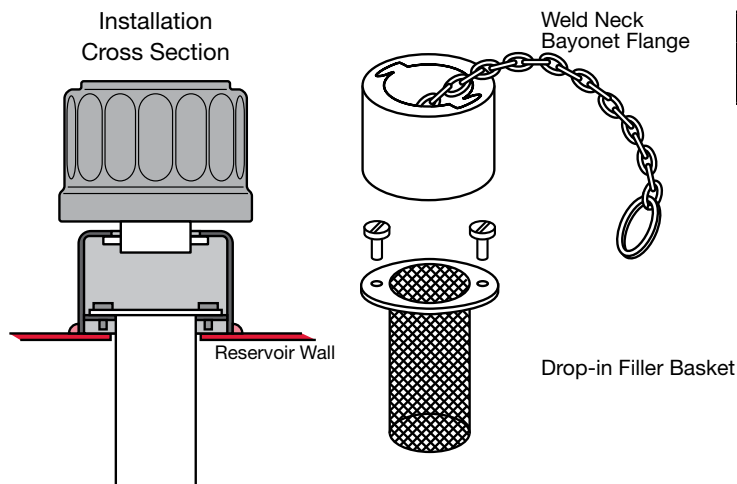


Part	Model Code	Part No.
Bayonet Flange Kit	ELF3 BAYONET FLANGE KIT ASSY	1200002680

Note: Parts not sold separately

Part	Model Code	Part No.
3.5" Steel Filler Basket	ELF3 STRAINER BASKET 3.5" PLATED STEEL	02701474
6" Steel Filler Basket	ELF3 STRAINER BASKET 6" PLATED STEEL	02701475
8" Steel Filler Basket	ELF3 STRAINER BASKET 8" PLATED STEEL	02701441
4" Plastic Filler Basket	ELF3 STRAINER BASKET 4" PLASTIC	01202916

Weld Neck Bayonet Flange



Part	Model Code	Part No.
Weld Neck	ELF3 WELD NECK W/CHAIN	02080126
Drop-in Strainer	ELF3 WELD NECK STRAINER	02078939

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

BF 10 Series

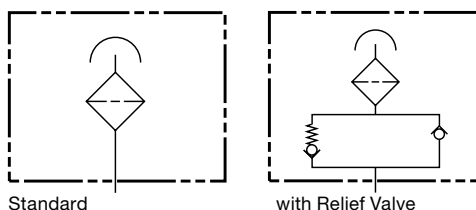
Particulate



Specifications

- Maximum Flow Rate 13 scfm / 100 gpm at 0.04 bar
- Durable synthetic material (PA6)
- Filtration Rating 3 μ m
- Buna N O-Ring
- Optional dipstick (contact factory)
- Optional customer logo (contact factory)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

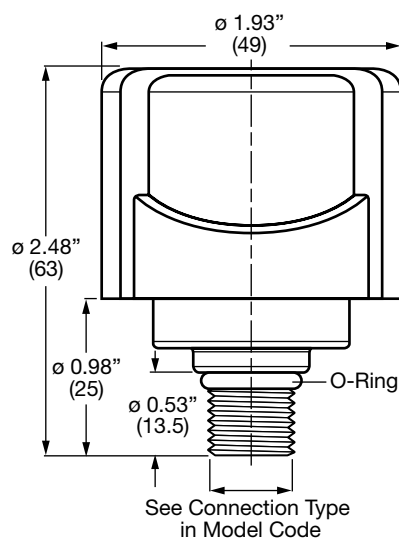
Hydraulic Symbols



Model Code

	BF	P	10	G	3	W	1.0	/ -	RV0.4	-	PS 74							
Filter Type	BF = Breather																	
Filter Element Material	P = Phenolic Resin Impregnated Paper																	
Size	10																	
Type of Connection	G = BSPP N = NPT U = SAE M = Metric threads																	
Filtration Rating (<i>micron</i>)	3 = 3µm Air Filtration																	
Gauge Option	W = Without Indicator																	
Modification Number																		
Connection Type	G (BSPP) N (NPT) U (SAE) M (Metric)																	
	1.0 = G 1/4	1/2 NPT	-	M22x1.5														
	2.0 = G 3/8	3/8 NPT	-	M18x1.5														
	3.0 = G 1/2	-	SAE-12	-														
Options	(omit) = None																	
	RV0.2 = Relief Pressure 3 psi (0.2 bar)																	
	RV0.4 = Relief Pressure 6 psi (0.4 bar)																	
	RV0.7 = Relief Pressure 10 psi (0.7 bar)																	
	AS = Anti-splash protection (<i>only for version without RV</i>)																	
Dipstick																		
	PS# = Dipstick (<i>Length follows PS in millimeters</i>)																	
	<i>minimum quantities apply</i>																	

Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

ELF...10 Series

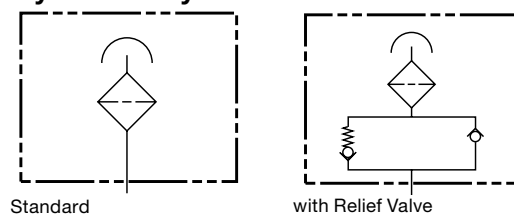
Particulate Filler



Specifications

- Maximum Flow Rate - 13 scfm / 100 gpm at 0.04 bar
- Durable synthetic material (PA6)
- Filtration rating 3 μ m
- Buna N O-Ring
- Threaded connection to access fill port
- Optional dipstick (*contact factory*)
- Optional customer logo (*contact factory*)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

Hydraulic Symbols



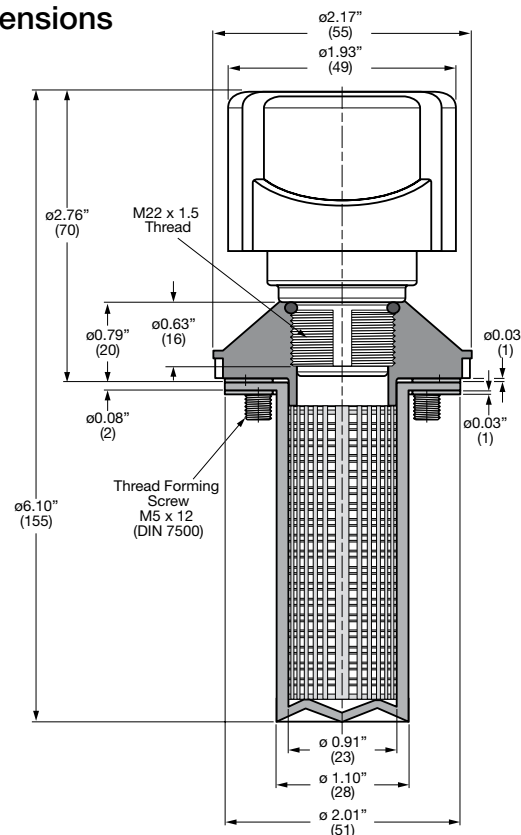
Model Code

Filter Type	ELF	P	10	F	3	W	1.0	/ -	RV0.4
Filter Element Material	ELF = Filler Breather	P = Phenolic Resin Impregnated Paper							
Size	10								
Connection	F = Flanged connection								
Filtration Rating (micron)	3 = 3 μ m air filtration								
Gauge Option	W = without indicator								
Type	1 = Flanged connection (see dimensions above)								
Modification Number	0 = Standard								
Options	(omit) = Standard								
	RV0.2 = Relief Pressure, 3 psi (0.2 bar)								
	RV0.4 = Relief Pressure, 6 psi (0.4 bar)								
	RV0.7 = Relief Pressure, 10 psi (0.7 bar)								
	AS = Anti-splash protection (<i>only for version without RV</i>)								

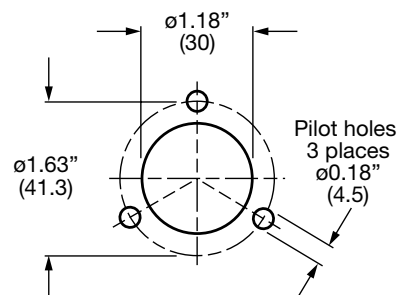
Replacement Cap Only (*with M22x1.5 thread*)

Model	Part No.
BF P 10 M 3 W 1.0	01284377
BF P 10 M 3 W 1.0 /-AS	01284378
BF P 10 M 3 W 1.0 /-RV0.2	01284379
BF P 10 M 3 W 1.0 /-RV0.4	01284380
BF P 10 M 3 W 1.0 /-RV0.7	01284381

Dimensions



Mounting Hole Pattern



Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

BF 30 Series

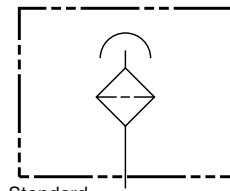
Particulate



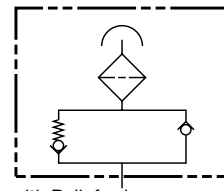
Specifications

- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 or 10 micron
- Buna N O-Ring
- Threaded breather connection
- Optional dipstick (*contact factory*)
- Optional customer logo (*contact factory*)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

Hydraulic Symbols



Standard

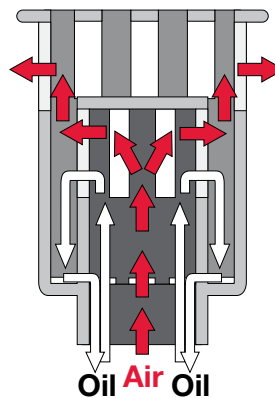


with Relief valve

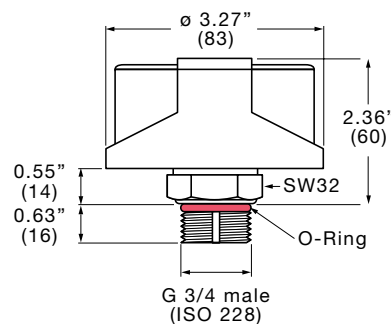
Model Code

Filter Type	BF	P	30	G	3	W	1.0	/ -RV0.4 -
BF = Breather								
Filter Element Mat.								
P = Phenolic Resin Impregnated Paper								
Dry = Fiberglass								
Size								
30								
Type of Connection								
G = BSPP								
N = NPT								
U = SAE								
M = Metric Threads								
Filtration Rating (micron)								
3 = 3µm Air Filtration								
10 = 10µm Air Filtration								
Gauge Options								
W = Without Indicator								
Modification Number								
Connection Type								
G (BSPP)								
N (NPT)								
U (SAE)								
M (Metric)								
1.0 = G 3/4								
3/4 NPT								
SAE-12								
M42x2								
2.0 = -								
1 NPT								
-								
M30x1.5								
Supplementary Details								
(omit) = None								
RV0.2 = Relief Pressure 3 psi (0.2 bar)								
RV0.4 = Relief Pressure 6 psi (0.4 bar)								
RV0.7 = Relief Pressure 10 psi (0.7 bar)								
AS = Anti-splash protection (<i>only for version without RV</i>)								
Dipstick (<i>Not available for the SO902</i>)								
PS# = Dipstick (<i>Length follows PS in millimeters</i>)								
<i>minimum quantities apply</i>								
SO902 (<i>Oleophobic Version</i>)								

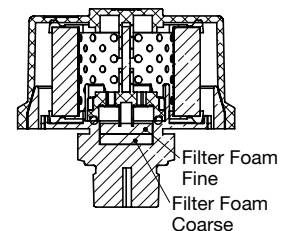
Anti-Splash



Dimensions



Special oil mist reduction design



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

BF 30 DRY

Model code Ex:
BF DRY 30 N W 1.0

- Reduces free water ingress into tanks and gearboxes
- Fiberglass Element

BF 30 Oleophobic – SO902

Model code Ex:
BF P 30 N 3 W 1.0 / SO902

- Reduces oil mist from exiting tanks or gearboxes
- Dual foam filter material to enable oil mist to coalesce and drop back in the tank .

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 30 ROP Series

Particulate with Rollover Protection



Model Code

Filter Type	BF	P	30	G	3	W	1.0	-	ROP	-
BF = Breather										
Filter Element Mat.										
P = Phenolic Resin Impregnated Paper										
Dry = Fiberglass										
Size										
30										
Type of Connection										
G = BSPP										
N = NPT										
U = SAE										
M = Metric Threads										
Filtration Rating (micron)										
3 = 3µm Air Filtration										
10 = 10µm Air Filtration										
Gauge Options										
W = Without Indicator										
Modification Number										
Connection Type										
G (BSPP)										
N (NPT)										
U (SAE)										
M (Metric)										
1.0 = G 3/4										
3/4 NPT										
SAE-12										
M42x2										
2.0 = -										
1 NPT										
-										
M30x1.5										
Supplementary Details										
Rollover protection										
Dipstick (Not available for the SO902)										
PS# = Dipstick (Length follows PS in millimeters)										
minimum quantities apply										
SO902 (Oleophobic Version)										

Model Codes Containing RED are non-stock items — Minimum quantities will apply. Contact HYDAC for information and availability. Not all combinations are available.

BF 30 DRY

Model code Ex:
BF DRY 30 N W 1.0

- Reduces free water ingress into tanks and gearboxes
- Fiberglass Element

BF 30 Oleophobic – SO902

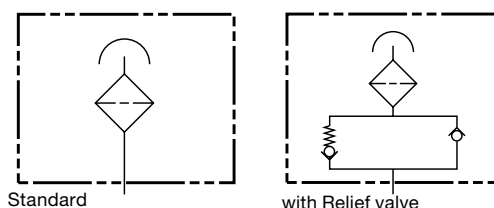
Model code Ex:
BF P 30 N 3 W 1.0 / SO902

- Reduces oil mist from exiting tanks or gearboxes
- Dual foam filter material to enable oil mist to coalesce and drop back in the tank

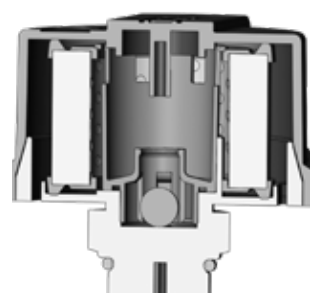
Specifications

- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 or 10 micron
- Buna N O-Ring
- Threaded breather connection
- Optional dipstick (*contact factory*)
- Optional customer logo (*contact factory*)
- Optional pressurized breather with relief valve
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

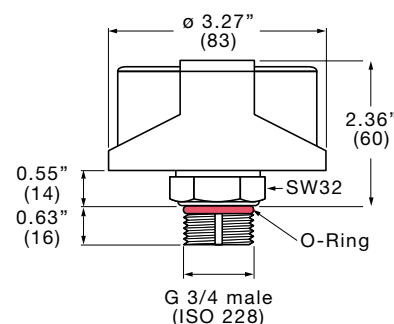
Hydraulic Symbols



Anti-Splash



Dimensions



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Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

ELF...30 Series

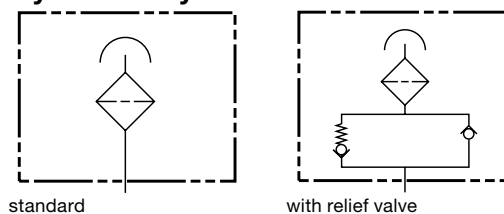
Particulate Filler



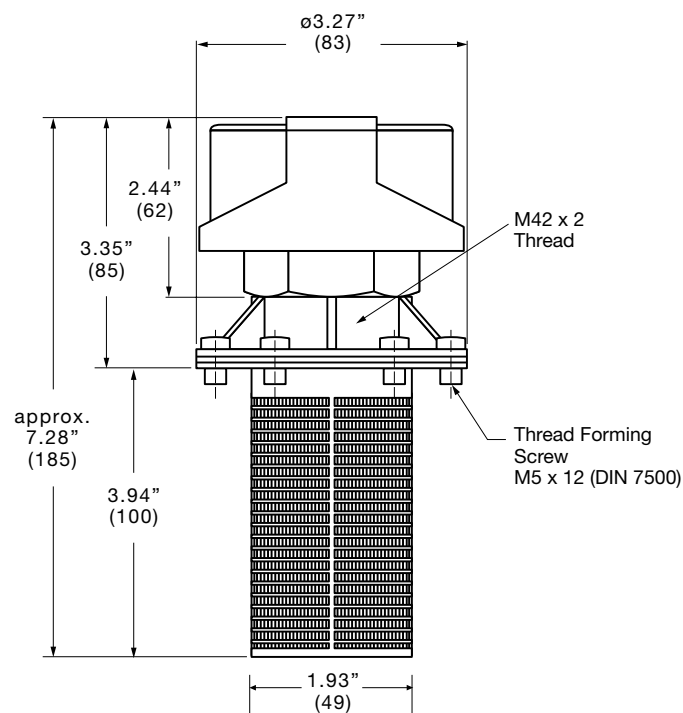
Specifications

- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Buna N O-Ring
- Threaded connection to access fill port
- Installs via 6-bolt circle (*bolts included*)
- Optional dipstick (*contact factory*)
- Optional customer logo (*contact factory*)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

Hydraulic Symbols



Dimensions



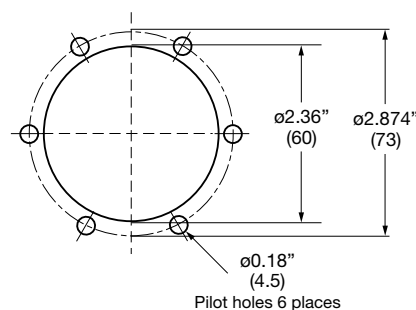
Model Code

Filter Type	ELF	P	30	F	3	W	1	0	/
ELF = Filler Breather									
Filter Element Material		P							
P = Phenolic Resin Impregnated Paper									
Size			30						
30									
Type of Connection				F					
F = Flanged Connection									
Filtration Rating (micron)					3				
3 = 3µm Air Filtration									
Gauge Options						W			
W = Without Indicator									
Type							1		
1 = Flanged Connection to DIN 24557/T2									
Modification Number								0	
0 = Standard									
Supplementary Details									
(omit) = Standard									
RV0.2 = Relief Pressure, 3 psi (0.2 bar)									
RV0.4 = Relief Pressure, 6 psi (0.4 bar)									
RV0.7 = Relief Pressure, 10 psi (0.7 bar)									
AS = Anti-splash protection (only for version without RV)									

Replacement Cap Only (with M42x2 thread)

Model	Part No.
BF P 30 M 3 W 1.0	01286298
BF P 30 M 3 W 1.0 /-AS	03246445
BF P 30 M 3 W 1.0 /-RV0.2	01291009
BF P 30 M 3 W 1.0 /-RV0.4	01290498
BF P 30 M 3 W 1.0 /-RV0.7	01294026

Mounting Hole Pattern (flange interface to DIN 24557/T2)



Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 5 Series

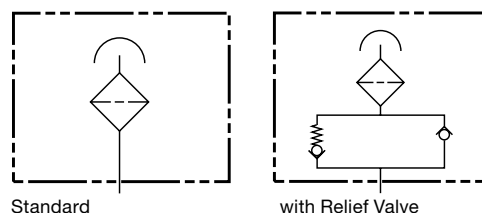
Particulate



Specifications

- Maximum flow rate - 105 scfm / 790 gpm at 0.01 bar
- Steel housing
- 3 micron
- Replaceable element
- Phenolic resin impregnated filter element

Hydraulic Symbols



Model Code

BF P 5 G 3 W 1 . 0 / -RV0.4

Filter Type _____

BF = Breather

Filter Element Material

P = Phenolic Resin
Impregnated Paper

Size

5

Type of Connection

$$G = \text{BSPP}$$
$$N = N_{PT}$$
Filtration Rating (*micron*)

3 = 3µm Air Filtration

Gauge Options

W = Without Indicator

Tank Thread Connection (ISO 228)

G(BSPP)

1 = 2 1/2" BSPP (ISO 228, female)

N(NPT)

2 1/2" NPT, (female)

Modification Number

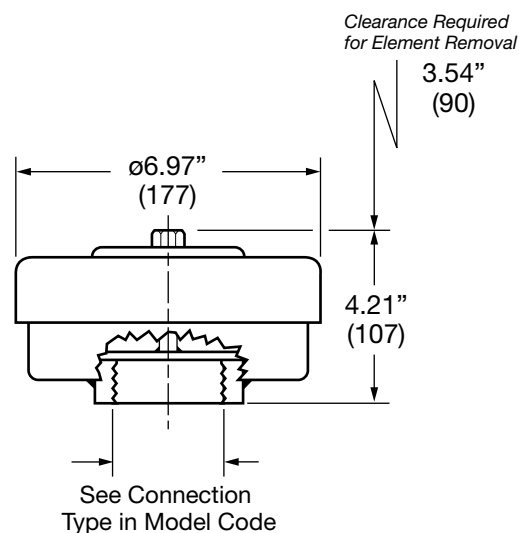
0 = Standard

Options

```
(omit) = None
```

RV0.4= Relief Pressure 6 psi (0.4 bar)

Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Replacement Elements



Micron	Model Code	Part No.
3	0005L003P	00309450

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

ELF 5 Series

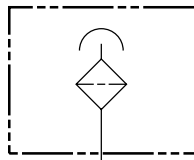
Particulate Filler



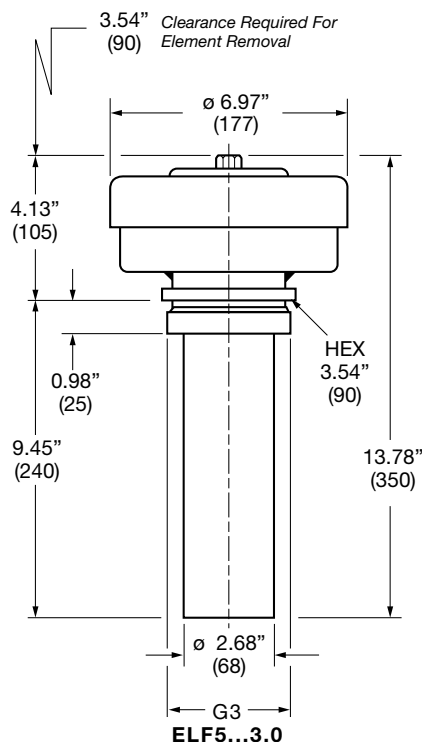
Specifications

- Maximum flow rate - 105 scfm / 790 gpm at 0.01 bar
- Steel element housing
- 240 mm Zinc-plated metal filler basket
- 3 micron
- Replaceable element
- Removable Lid to access fill port
- Installs via threaded connection (*weld ring optional*)
- Phenolic resin impregnated filter element

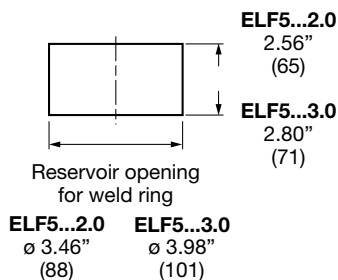
Hydraulic Symbols



Dimensions



G2 1/2
ELF5...2.0



Model Code

	ELF	P	5	G	3	W	2	.	0	/
Filter Type	ELF = Filler Breather									
Filter Element Material	P = Phenolic Resin Impregnated Paper									
Size	5									
Type of Connection	G = Threaded (<i>matching threaded weld ring available see supplementary details below</i>)									
Filtration Rating (micron)	3 = 3µm Air Filtration									
Gauge Options	W = Without Indicator									
Connection Type	2 = G 2 1/2 threaded connection									
	3 = G 3 threaded connection									
Modification Number	.0 = Standard									
Supplementary Details	NO WELD RING = without weld ring									
	W/ WELD RING = with weld ring									

Replacement Elements



Micron	Model Code	Part No.	Qty Req.
3	0005L003P	00309450	1

Weld Rings



Size	Model Code	Part No.
G 2 1/2	RING WELD ELF 5 G 2 1/2	02065053
G 3	RING WELD ELF 5 G 3	02065054

Notes:

1. Dimensions are in inches (mm).
2. Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 52 Series

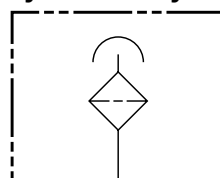
Particulate



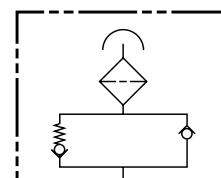
Specifications

- Maximum flow rate - 176 scfm / 1320 gpm at 0.01 bar
- Steel housing
- 3 micron
- Replaceable element (*uses 2 of the standard size 5 elements*)
- Phenolic resin impregnated paper
- G 2 1/2" female threaded connection

Hydraulic Symbols



Standard



with Relief Valve

Model Code

BF P 52 G 3 W 1 . 0 / -RV0.4

Filter Type

BF = Breather

Filter Element Material

P = Phenolic Resin Impregnated Paper

Size

Type of Connection

G = Threaded

Filtration Rating (micron)

3 = 3µm Air Filtration

Gauge Options

W = Without Indicator

Tank Connection

G(BSPP)

1 = 2 1/2" BSPP (ISO 228, female)

Modification Number

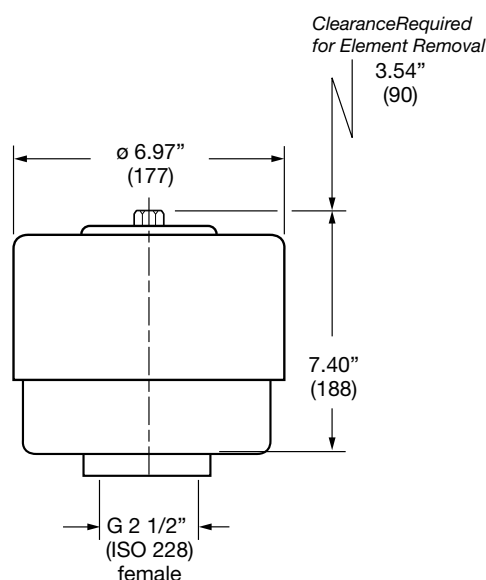
0 = Standard

Options

(omit) = None

RV0.4 = Relief Pressure 6 psi (0.4 bar)

Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Replacement Elements



Micron	Model Code	Part No.	Qty Req.
3	0005L003P	00309450	2

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

ELF 52 Series

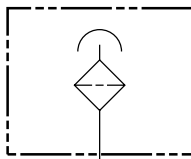
Particulate Filler



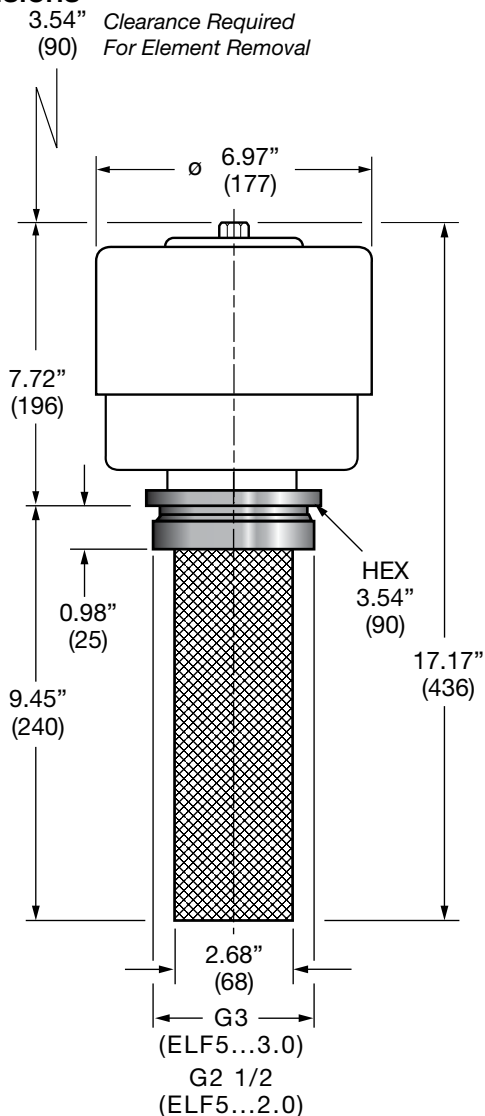
Specifications

- Maximum flow rate - 176 scfm / 1320 gpm at 0.01 bar
- Steel housing
- 3 micron
- Replaceable element
(uses 2 of the standard size 5 elements)
- Phenolic resin impregnated paper
- Installs via threaded connection
(weld ring optional)

Hydraulic Symbols



Dimensions



Model Code

	ELF	P	52	G	3	W	2	.	0	/
Filter Type	ELF = Breather									
Filter Element Material	P = Phenolic Resin Impregnated Paper									
Size	52									
Type of Connection	G = Threaded									
Filtration Rating (micron)	3 = 3 μ m Air Filtration									
Gauge Options	W = Without Indicator									
Connection Type	2 = G 2 1/2 Threaded Connection									
	3 = G 3 Threaded Connection									
Modification Number	.0 = Standard									
Supplemental Details	NO WELD RING = Without Weld Ring									
	W/ WELD RING = With Weld Ring									

Replacement Elements



Micron	Model Code	Part No.	Qty Req.
3	0005L003P	00309450	2

Weld Rings



Size	Model Code	Part No.
G 2 1/2	RING WELD ELF 5 G 2 1/2	02065053
G 3	RING WELD ELF 5 G 3	02065054

Notes:

1. Dimensions are in inches (mm).
2. Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 7 Series

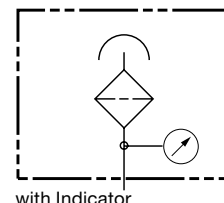
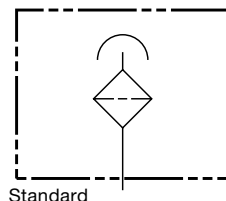
Particulate



Specifications

- Maximum flow rate - 63 scfm / 475 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Replaceable element Phenolic resin impregnated paper
- Threaded breather cap connection
- Differential gauge (optional)
- -22° to 212°F (-30° to 100°C)

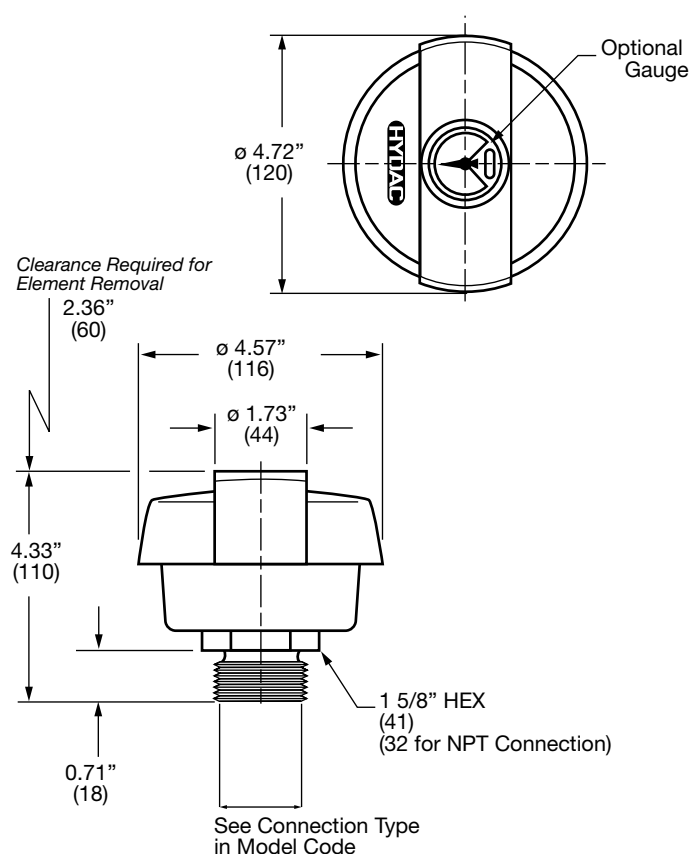
Hydraulic Symbols



Model Code

	BF	P	7	G	3	K	1.0	/ -AS
Filter Type								
BF = Breather								
Filter Element Material								
P = Phenolic Resin Impregnated Paper								
Size								
Type of Connection								
G = BSPP								
N = NPT								
U = SAE								
Filtration Rating (micron)								
3 = 3µm Air Filtration								
Gauge Options								
W = Without Indicator								
K = With Indicator - Range: -14.5 to 9 psi (-1 to 0.6 bar)								
Modification Number								
Connection Type								
G (BSPP) N (NPT) U (SAE)								
1.0 = G 1 3/4 NPT SAE-16								
Options								
(omit) = None								
AS = Anti-Splash protection								

Dimensions



Replacement Elements

Micron	Model Code	Part No.
3	0007L003P	00310948



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

BF 7 Series

Particulate with Visual Indicator



Model Code

	BF	P	7	F	3	UBM	0.0	/-	AS
Filter Type									
BF	= Breather								
Filter Element Material									
P	= Phenolic Resin Impregnated Paper								
Size									
7	(63 scfm / 475 gpm)								
Type of Connection									
F	= Flanged								
G	= Threaded								
N	= NPT								
Filtration Rating (<i>micron</i>)									
3	= 3µm Air Filtration								
Gauge Options									
UBM	= Visual Indicator of Vacuum Pressure with Manual Reset - Range to 0.5 psi (0.035 bar)								
Tank Connection									
	G(BSPP)	F(Flanged)	N(NPT)						
0.0	=	-	DIN 24557/2 6 Hole Flange						
1.0	=	1" BSPP	-						
2.0	=	3/4" BSPP	-						
3.0	=	1 1/2-16 UN-2B (female)	-						
Options									
(omit)	= None								
AS	= Anti-Splash protection								

Replacement Elements

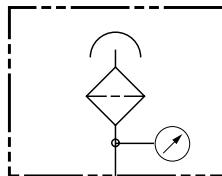
Micron	Model Code	Part No.
3	0007L003P	00310948



Specifications

- Maximum flow rate - up to 74 scfm / 555 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Replaceable element
- Phenolic resin impregnated paper
- Threaded or flanged breather connection
- Visual indicator (*see below*)
- -22° to 212°F (-30° to 100°C)

Hydraulic Symbols



with Indicator

Visual Indicator

The visual indicator shows by percentage the increase in vacuum pressure drop across the element. The percentage remains visible even when the system is turned off. When the element is changed a manual reset button must be pressed.

Model Code

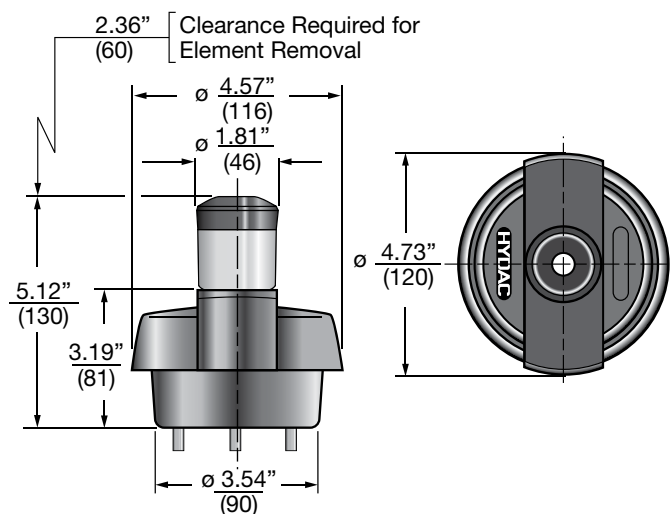
VMF 0.035 UBM.X

Part Number

01279244



Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

ELF...7 Series

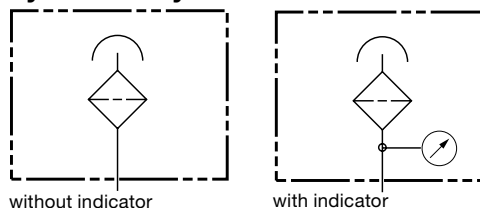
Particulate Filler



Specifications

- Maximum flow rate - 63 scfm / 475 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- 500 micron plastic filler basket
- Replaceable element Phenolic resin impregnated paper
- Removable lid to access fill port
- Installs via 6-bolt circle (*bolts included*)
- Differential gauge (*optional*)
- -22° to 212°F (-30° to 100°C)

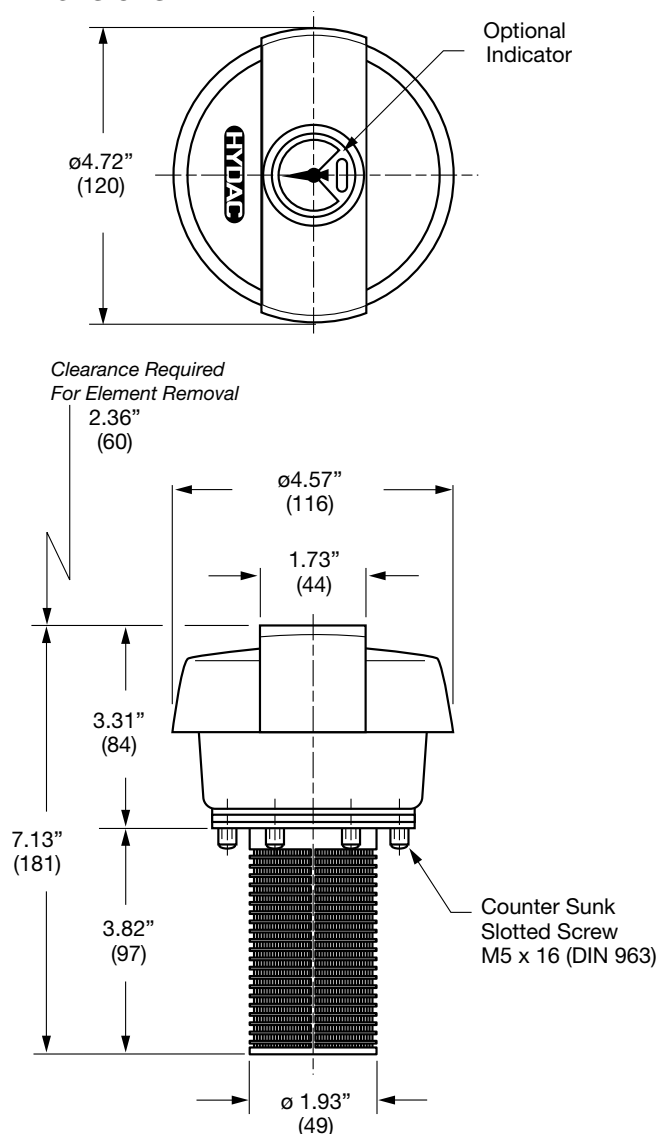
Hydraulic Symbols



Model Code

Filter Type	ELF	P	7	F	3	K	1	0
ELF = Filler Breather								
Filter Element Material		P						
P = Phenolic Resin Impregnated Paper								
Size			7					
7								
Type of Connection				F				
F = Flanged								
Filtration Rating (micron)					3			
3 = 3µm Air Filtration								
Gauge Options						K		
W = Without Indicator								
K = With Gauge (Range: -14.5 to 9 psi)								
Connection Type							1	
1 = Flange interface to DIN 24557/T2								
Modification Number								0
0 = Standard								

Dimensions



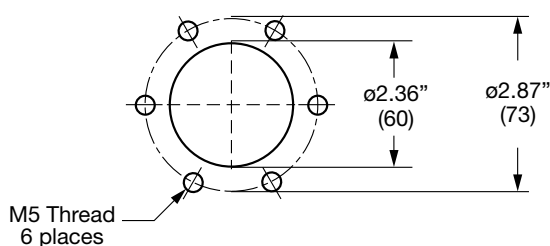
Replacement Elements



Micron	Model Code	Part No.
3	0007L003P	00310948

Mounting Hole Pattern

(flange interface to DIN 24557/T2)



Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

BF 72 Series

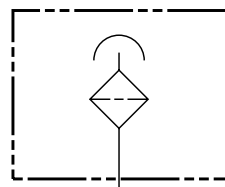
Particulate



Specifications

- Maximum flow rate - 74 scfm / 555 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Replaceable element
- Phenolic resin impregnated paper
- Removable lid to access fill port
- Threaded breather cap connection
- Differential gauge (*optional*)
- -22° to 212°F (-30° to 100°C)

Hydraulic Symbols

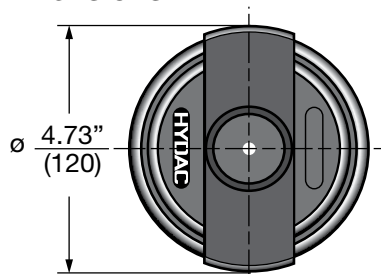


Standard

Model Code

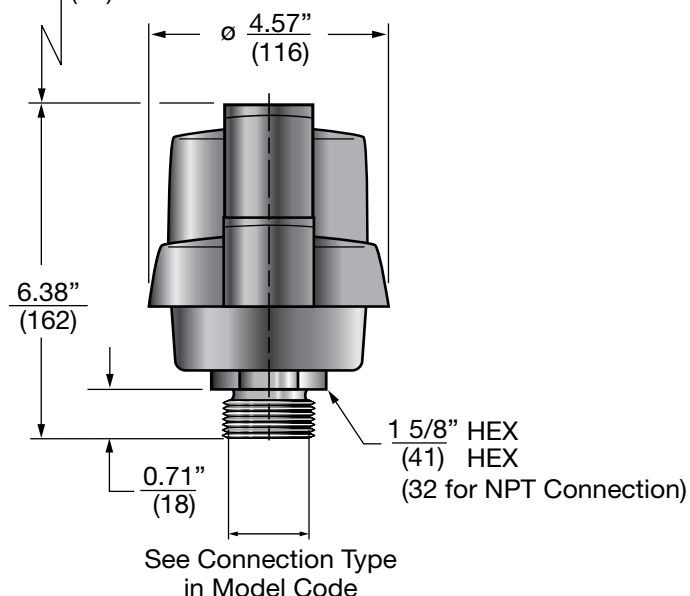
	BF	P	72	G	3	W	1	.	0	/	-AS
Filter Type	BF	P	72	G	3	W	1	.	0	/	-AS
Filter Element Material	BF	P	72	G	3	W	1	.	0	/	-AS
Size	BF	P	72	G	3	W	1	.	0	/	-AS
Type of Connection	BF	P	72	G	3	W	1	.	0	/	-AS
Filtration Rating (micron)	BF	P	72	G	3	W	1	.	0	/	-AS
Gauge Options	BF	P	72	G	3	W	1	.	0	/	-AS
Tank Thread Connection	BF	P	72	G	3	W	1	.	0	/	-AS
Modification Number	BF	P	72	G	3	W	1	.	0	/	-AS
Options	BF	P	72	G	3	W	1	.	0	/	-AS

Dimensions



Clearance Required for Element Removal

2.36"
(60)



See Connection Type
in Model Code

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Replacement Elements



Micron	Model Code	Part No.
3	0072L003P	1293285

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

ELF...72 Series

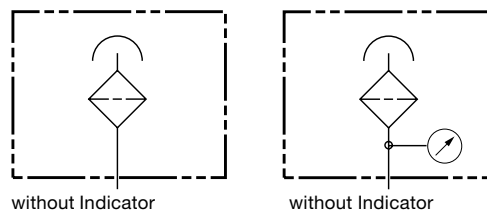
Particulate Filler



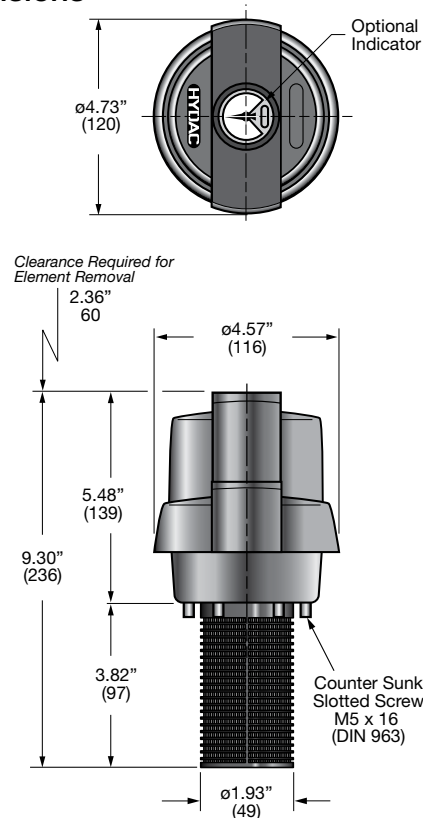
Specifications

- Maximum flow rate - 74 scfm / 555 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- 500 micron plastic filler basket
- Replaceable element
- Phenolic resin impregnated paper
- Removable lid to access fill port
- Installs via 6-bolt circle (bolts included)
- Differential gauge (optional)
- -22° to 212°F (-30° to 100°C)

Hydraulic Symbols



Dimensions



Model Code

	ELF	P	72	F	3	W	1	0
Filter Type								
ELF = Filler Breather								
Filter Element Material								
P = Phenolic Resin Impregnated Paper								
Size								
72								
Type of Connection								
F = Flanged								
Filtration Rating (micron)								
3 = 3µm Air Filtration								
Gauge Options								
W = Without Indicator								
K = With Gauge (Range: -14.5 to 9 psi)								
Connection Type								
1 = Flange interface to DIN 24557/T2								
Modification Number								
0 = Standard								

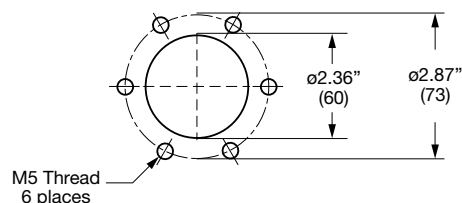
Replacement Element



Micron	Model Code	Part No.
3	0072L003P	1293285

Mounting Hole Pattern

(flange interface to DIN 24557/T2)



Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BREATHERS

BF 8 Series

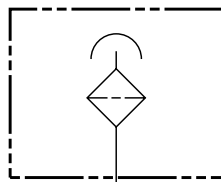
Particulate



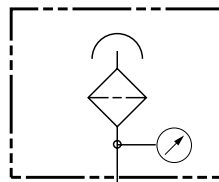
Specifications

- Maximum flow rate - 352 scfm / 2640 gpm at 0.01 bar
- Steel housing
- 1 micron Air Filter
- Replaceable element
- 4 bolt DN 93 flange

Hydraulic Symbols



Standard

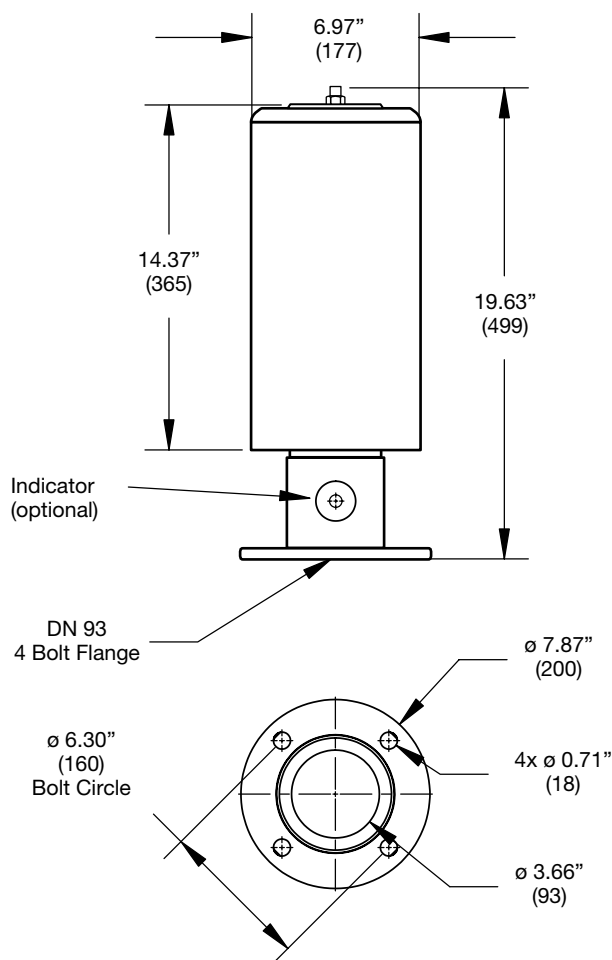


with Indicator

Model Code

	BF	BN	8	F	1	A	1.0
Filter Type							
BF = Breather							
Filter Element Material							
BN = Betamicon®							
Size							
8							
Type of Connection							
F = Flanged (DN 93, 4 bolt)							
Filtration Rating (micron)							
1 = 1µm Air Filtration							
2 = 2µm Air Filtration							
Gauge Options							
A = Without Indicator							
K = With Indicator Gauge							
Range: -14.5 to 9 psi (-1 bar to 0.6 bar)							
Modification Number							
1.0 = Standard							

Dimensions



Replacement Elements



Micron	Model Code	Part No.
1	0008L001BN4	01266598
2	0008L002BN4	01265021

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

BF 9 Series

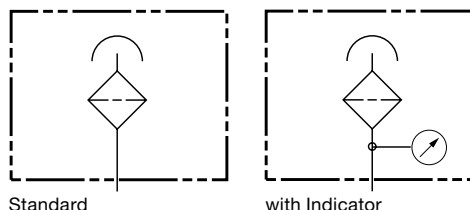
Particulate with Oil Mist Trap



Specifications

- Maximum flow rate - 528 scfm / 3960 gpm at 0.01 bar
- Aluminum housing
- Replaceable element
- 2 µm Air Filter
- 8 bolt DN 125 flange

Hydraulic Symbols

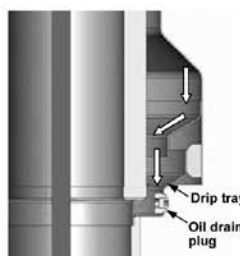


Model Code

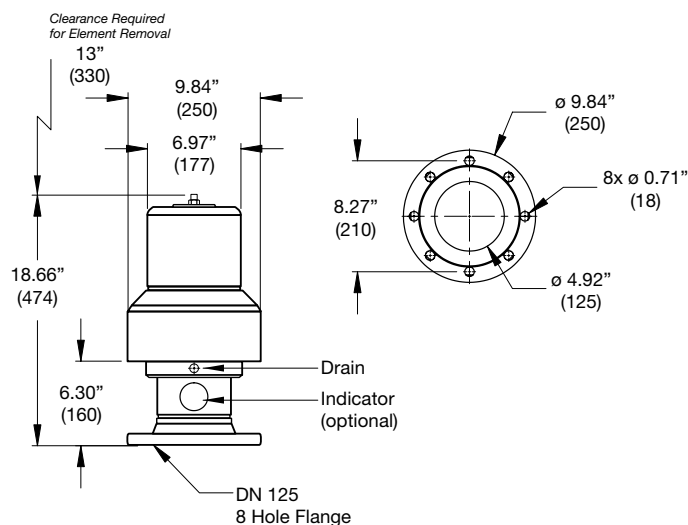
Filter Type ——— **BF** **BN** **9** **F** **2** **A** **1.0**
 BF = Breather
Filter Element Material ———
 BN = Betamicon® Element
Size ———
 9
Type of Connection ———
 F = Flanged
Filtration Rating (micron) ———
 2 = 2µm Air Filtration
Gauge Options ———
 A = Without Indicator
 K = With Indicator Gauge
 Range: -14.5 to 9 psi (-1 to 0.6 bar)
Modification Number ———
 1.0 = Standard

Oil Mist Trap

The oil mist in the filter is collected in a “drip tray” and is returned safely to the tank, or it can be drained via an oil drain plug. No oil runs down onto the top of the tank.



Dimensions



Replacement Elements



Micron	Model Code	Part No.
2	0009L002BN	01287471

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
 Dimensions are in inches/(mm)

Note: Low temperature options available. All breathers are available with special options and materials. Please contact the factory.

Notes

