

FILLER BREATHER BAYONET STYLE



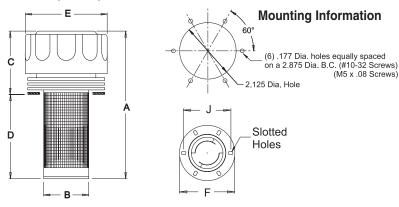
VESCOR® Filler Breathers are designed to be used as a filler port for tanks, hydraulic power units or other fluid containers. These units also lets the tank breathe while keeping out airborne particles.

Features

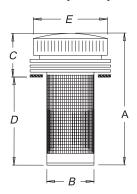
- Bayonet Nickel-Chrome Plated Steel Cap large capacity. Twist to lock removable cap breathes and filters air. Air vents are concealed allowing for outdoor applications. Fluted finger inserts for easy gripping. (except for non vented style)
- 2. 40 or 10 Micron Filtration (except for non vented style)
- 3. Safety Chain prevents loss of cap
- 4. Heavy Duty Cork-Neoprene Gaskets provide a positive seal between flanges
- 5. Zinc Plated Flange bayonet flange (SAE J829)
- 6. Customer Specified Strainer Baskets
 - 4" nylon strainer with solid dome bottom to prevent punchout
 - 3" stainless steel strainer, 30 mesh, 1-15/16 diameter large area for rapid filling
- 7. Thread Forming Screws prevents particles from entering reservoir during installation by forming threads instead of cutting them

Options: Locking tabs

Standard Bayonet Style



Non Vented Bayonet Style



Technical and Dimensional Details- Standard Bayonet Type

Air Filtration	Air Flow Capacity	Oil Transfer			Bayor	et Fla	ange		
Nominal Level Media	σαραστιγ	Rate	A	В	C	D	Ε	F	J
10 Micron Foam	15CFM	115GPM	6.1	1.9	2.3	3.8	3.0	3.25	2.88
40 Micron Foam	25CFM	192 GPM	6.1	1.9	2.3	3.8	3.0	3.25	2.88

Non-Vented Filler Breathers

Vescor Part Number	Style Cap	Breather Style	Type Strainer Basket
5232	Non vented	Non vented	Nylon
5227	Non vented	Non vented	Stainless

Standard Filler Breathers

Vescor Part Number	Micron Rating	Cap Style	Breather	Strainer Basket Type
5201	40	Std.	Non-Pres	Nylon
5204	10	Std.	Non-Pres	Nylon
5216	40	Std.	Non-Pres	Stainless Steel
5220	10	Std.	Non-Pres	Stainless Steel

Dimensional Details - Non Vent Bayonet Style

Α	В	C	D	E	F	J
5.1	1.9	1.3	3.8	3.0	3.25	2.88

Pressurized Filler Breathers-Standard Bayonet Style

Vescor Part Number	Micron Rating	Cap Style	Breather	Strainer Basket Type
5201-5P	40	Std.	5PSI-Pres	Nylon
5205	10	Std.	5PSI-Pres	Stainless

Metric Mounting Filler Breathers-Standard Bayonet Style

Vescor Part Number	Micron Rating	Cap Style	Breather	Strainer Basket Type
5203	40	Std.	Non-Pres	Nylon

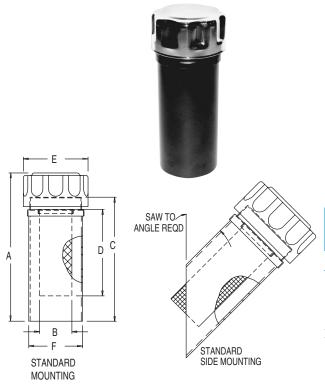
Ordering Information Options

For Locking Tabs add -LT to part number (3/8" dia. hole to accept padlock)(not available in non vented breathers)

NOTE: WITH VESCORS' POLICY OF CONSTANTLY IMPROVING ITS PRODUCTS, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

FILLER BREATHER

Extended Neck



Features

- Nickel-Chrome plated steel cap-large capacity. Twist to lock removable cap breathes and filters air. Air vents are concealed allowing for outdoor applications. Fluted finger insertions for easy gripping
- 40 micron filtration
- Bayonet flange (SAE J829)
- Removable 4" stainless steel 30 mesh strainer basket - 1¹/₂" diameter large area for rapid filling
- · Saw neck to any angle to mount on vertical side tank walls
- Ideal for mobile applications

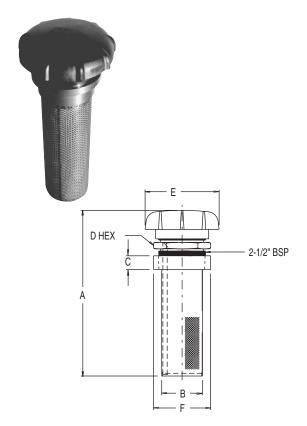
Technical and Dimensional Details

Vescor Part	Air Filtration		Air Flow	Oil Transfer	Bayonet Flange					
Number	Nominal Level	Media	Capacity	Rate	A	В	C	D	Ε	F
5201TRBS	40 Micron	Foam	25CFM	192 GPM	6.8	1.5	5.7	4.0	3.0	2.5

Mounting Information

Drill a 2.250/2.375 dia. hole. Place neck directly over hole and weld in place.

Large Oil Filler/Breather



Features

- For use on larger reservoirs. Provides reservoir with constant air filtration
- · Galvanized steel body
- Aluminum breather cap
- Buna-n seals
- · Sintered brass air filler
- 200 micron steel filtration element
- · Complete assembly includes weld coupling

Dimensional Details

Vescor Part			Dimen	sions				
Number	Α	В	C	D	E	F	G	
TA212G	10.5	2.6	4.0	9.0	47	2.9	2.5	
1A212G	10.5	2.6	4.0	8.9	4.7	2.9	3.5	

Mounting Information

Drill a 3.000 dia. hole. Remove cap.Drop in screen assembly and weld in place

FILLER BREATHER

Side Mount



VESCOR® Side Mount Filler Breathers are designed to be used where top surfaces are not readily available for locating a filler port. This unit easily mounts on vertical tank walls. These units filter the fluid as it is added and also lets the tank breathe while keeping out airborne particles.

Features

- Nickel-Chrome Plated Steel Cap-large capacity. Twist to lock removable cap breathes and filters air. Air vents are concealed allowing for outdoor applications.
 Fluted finger insertions for easy gripping.
- 2. 40 or 10 micron filtration
- 3. Safety Chain-prevents loss of cap
- Heavy Duty Cork-Neoprene Gaskets provide a positive seal between flanges.
- 5. Zinc Plated Flange bayonet type. (SAEJ829)
- 3" Stainless Steel Strainer 30 mesh, 1¹⁵/₁₆ diameter. Large area for rapid filling.
- Thread Forming Screws prevents particles from entering reservoir during installation by forming threads instead of cutting them.
- 8. Tough Glass-Reinforced Nylon Housing.
- 9. Includes (7) 1/4-20NC x 1" Bolts and Nuts for mounting

Technical and Dimensional Details

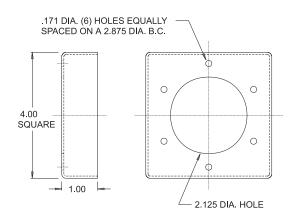


Mounting Information 2 2 3-1/2 DRILL 9/32 DIA. 7 HOLES OR ITAP 1/4-20 THREAD (WHEN WALL THICKNESS PERMIT) 3/8 1/4

Side Mount Filler Breathers

Vescor Part Number	Micron Rating	Cap Style	Breather	Strainer Basket Type
SM-5201	40	Std.	Non-Pres	Stainless
SM-5204	10	Std.	Non-Pres	Stainless

Filler Breather Weld Riser-Stainless Steel



- VESCOR® Filler Breather Weld Riser is designed to raise filler breathers 1" above the mounting surface of the reservoir
- Eliminate the need to drill and tap tank top. Just weld in place.
- Prevent contamination from entering reservoir
- · Square design
- Use with VESCOR® filler breathers
- 316 Stainless steel

Filler Breather Riser

Vescor Part Number	Style	Description	
5275SS	Square	316 Stainless Steel	

AIR BREATHERS

VESCOR® Air Breathers and Air Breathers with Silencers are used at the point of air intake to provide 99+% efficient filtration at 10 microns (per SAE fine dust test)

VESCOR® Air Breathers stop airborne dirt from entering the reservoir as the oil is removed. They provide clean, filtered air to replace the oil.

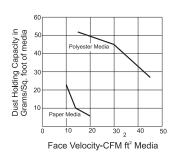
Tube silencers in housing decreases noise from 5 to 15 dB. Moisture-resistant polyester cloth element handles hot air and oil mist. Rugged, all steel weather hood.

Replacement Filters for the use with VESCOR® Air Breathers are specifically designed to withstand strong pulsations of air. Easy to replace. Model number with "P" include polyurethane prefilter to increase dust loading capacity 40 to 50%.



Replacement Elements

Influence of Face Velocity on Dust Holding Capacity



Dust Removal Efficiency

Dust removal efficiency of polyester media at face velocity of:

15CFM/FT² - Media

30CFM/FT² - Media

45CFM/FT² - Media

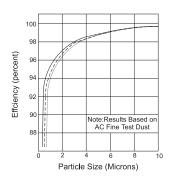
Dust removal efficiency of paper media at face velocity of:

15CFM/FT² - Media

30CFM/FT² - Media

45CFM/FT² - Media

POLYESTER

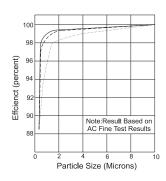


- high temperature plastisol endcaps
- reinforced with epoxy coated steel wire on both sides of polyester
- nominally 99+% efficient at 10 microns
- washable-lukewarm water and mild detergent
- dust loading capacity is increased 40-50% with polyurethane prefilter

ADVANTAGES

- less maintenance, longer life
- more durable
- moisture resistant
- · handles hot air and oil mist

PAPER



- · plastisol endcaps
- heavy duty industrial strength paper
- nominally 99+% efficient at 10 microns
- reinforced with heavy gauge zinc plated expanded metal
- dust loading capacity is increased 40-50% with polyurethane prefilter

ADVANTAGES

- less expensive
- more surface area per given size
- higher efficiency

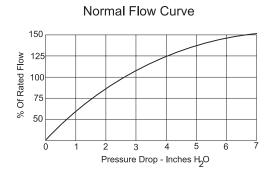
	Vescor Part Numbers			Effective Area of E	ement		Dimensions			
Polyester Element	Paper Element	Wire Mesh Element	Flow CFM	in Square Polyester	e Feet Paper	ID	OD	HT		
E19P	E18P	E18S	100	1.5	3.0	3"	43/4"	43/4"		
E31P	E30P	E30S	195	2.3	5.7	33/8"	5¾"	43/4"		
E231P	E230P	E230S	300	4.5	10.9	33/4"	53/4"	9½"		

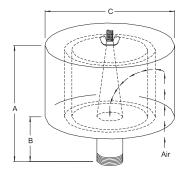
AIR BREATHERS

Series AB

Features:

- Fully drawn weatherhood no welds to rust or vibrate apart
- Low entrance velocity between base and cover minimizes pressure drop.
- Center yoke bracket located for minimal flow restriction
- Durable heavy gauge steel base with low pressure drop pipe design
- Durable carbon steel construction with baked enamel finish





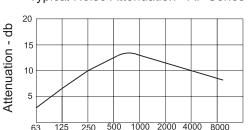
Vescor Model Numbers AB Series		Effective Surface Area of Element		Application CFM			Dimensions			
Polyester Element	Paper Element	Wire Mesh Element	in Squar Polyester	e Feet Paper	Pulsating Flow	Continuous Flow	NPT Connection	A	В	C
AB-E19P-125	AB-E18P-125	AB-E18S-125	1.5	3.0	60	80	11/4"	6½"	1½"	6"
AB-E19P-150	AB-E18P-150	AB-E18S-150	1.5	3.0	60	80	1½"	6½"	1½"	6"
AB-E31P-200	AB-E30P-200	AB-E30S-200	2.3	5.7	60	135	2"	71/4"	21/4"	73/4"
AB-E31P-250	AB-E30P-250	AB-E30S-250	2.3	5.7	80	195	2½"	7½"	2½"	73/4"
AB-E231P-300	AB-E230P-300	AB-E230S-300	4.5	10.9	300	300	3"	13"	3"	10"

Series AF (with Silencers)

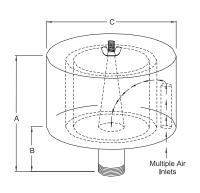
Features:

- Fully drawn weatherhood no welds to rust or vibrate apart
- Tubular silencing design tubes positioned to maximize attenuation and air flow while minimizing pressure drop
- Durable carbon steel construction with baked enamel finish
- · Low pressure drop center bracket and pipe design
- · Interchangeable elements

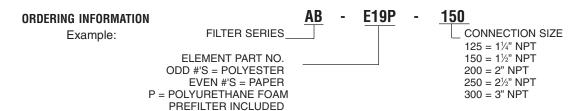
Typical Noise Attenuation - AF Series







Vescor N	Vescor Model Numbers AF Series		Effective Surface Area of Element Application CFM			Dimensions				
With Polyester Element	With Paper Element	With Wire Mesh Element	in Squar		Pulsating Flow	Continuous Flow	NPT Connection	A	В	C
AF-E19P-125	AF-E18P-125	AF-E18S-125	1.5	3.0	60	60	11/4"	6½"	1½"	6"
AF-E19P-150	AF-E18P-150	AF-E18S-150	1.5	3.0	60	80	1½"	6½"	1½"	6"
AF-E31P-200	AF-E30P-200	AF-E30S-200	2.3	5.7	60	135	2"	71/4"	21/4"	10"
AF-E19P-250-97	AF-E18P-250-9T	AF-E18S-250-9T	1.5	3.0	60	100	21/2"	81/4"	31/4"	6"
AF-E231P-300	AF-E230P-300	AF-E230S-300	4.5	10.9	200	300	3"	12½"	2½"	10"





SCREW-IN / MINI BREATHERS

Screw-in Breather



VESCOR® Screw-In Breathers insure free flow of air into hydraulic tanks or other fluid containers. These units let the tank breathe while keeping out airborne particles. Connection is ³/₄" NPT (male) for direct connection to standard ³/₄₄" NPT (female) threaded pipe ports.

Features

- Nickel-Chrome Plated Cap large capacity. Cap breathes and filters air. Air vents are concealed allowing for outdoor applications. Fluted finger inserts for easy gripping
- 40 Micron Filtration
- 3/4" NPT (male) Connection

C C



Screw-In Breathers

Vescor Part Number	Micron Rating	Cap Style	Breather	NPT Thread
V-5213	40	Blank	Screw-In	3/4"

Technical and Dimensional Details

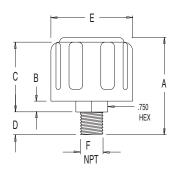
Air Filtration			Oil Oil			Dimensions					
Nominal				r Flow apacity		Fransfer Rate	A	В	C	D NPT	E Hex
40 Mici	on	Foam	30	OCFM	1	92 GPM	3.0	2.7	.50	3/4"	1.38

Mounting Information

Any standard 3/4" NPT (female) threaded pipe port

Screw-In Type





Mounting Information

MMB02** Any standard ¹/₄" NPT (female) threaded pipe port. MMB05** Any standard ³/₈" NPT (female) threaded pipe port.

Features

- Metal Cap chrome plated
- 1/4" and 3/8" Male Pipe Threaded Fittings
- 10 or 40 Micron Filtration
- Operating Temperatures to 212° (100°C)

Technical and Dimensional Details

Air Filtration		Air Flow	Dimensions					
Nominal Level	Media	Capacity	A	В	C	D	E	
10 Micron	Foam	10CFM	1.77	0.28	1.34	0.43	1.85	
40 Micron	Foam	10CFM	3.90	1.06	1.34	2.56	1.85	

Bayonet Type Miniature Tank Breathers

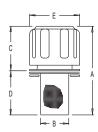
Vescor Part Number	Micron Rating	Cap Style	Breather	F NPT
MMB0210	10	Std.	Non-Pres	1/4"
MMB0240	40	Std.	Non-Pres	1/4"
MMB0510	10	Std.	Non-Pres	3/8"
MMB0540	40	Std.	Non-Pres	3/8"



MINIATURE TANK BREATHERS

Bayonet Type







Mounting Information

1.156 dia. hole w/(3) .177 dia holes equally spaced on a 1.610 dia. B.C.

Features

- Metal Cap chrome plated
- 21/2" Metal Basket 30 mesh
- 10 or 40 Micron Filtration
- Cork Neoprene Gaskets
- Operating Temperatures to 212° (100°C)

Technical and Dimensional Details

Air F	iltration	Air Flow	Air Flow				Dimensions				
Nominal L	evel Media	Capacity	A	В	C	D	E	F	J		
10 Micro	n Foam	10CFM	3.90	1.06	1.34	2.56	1.85	2.05	1.61		
40 Micro	n Foam	10CFM	3.90	1.06	1.34	2.56	1.85	2.05	1.61		

Bayonet Type Miniature Tank Breathers

Vescor Part Number	Micron Rating	Cap Style	Breather	Strainer Basket Type
MMB10	10	Std.	Non-Pres	Metal
MMB40	40	Std.	Non-Pres	Metal

Miniature Tank Breathers



VESCOR® Miniature Tank Breathers are designed to replace more costly, less efficient breathers and to improve the filtering performance of the breather vent.

Features

- Special polyamide technoploymer cap
- Available in ½", ½", ½" and ¾" male pipe threaded fittings
- 40 micron air filtration
- · Gray cap for high visibility
- · Optional splash guard

Mounting Information

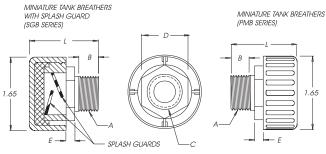
PMB/SGB-02-10 Any standard ¹/₄" NPT (female) threaded pipe port PMB/SGB-05-10 Any standard ³/₈" NPT (female) threaded pipe port PMB/SGB-03-10 Any standard ¹/₂" NPT (female) threaded pipe port PMB/SGB-07-10 Any standard ³/₄" NPT (female) threaded pipe port

Miniature Tank Breathers

Vescor Part Number	NPT Size	Style Cap Color	Breather
PMB-02-10	1/4"	Vescor/Gray	Mini
PMB-05-10	3/8"	Vescor/Gray	Mini
PMB-03-10	1/2"	Vescor/Gray	Mini
PMB-07-10	3/4"	Vescor/Gray	Mini

Miniature Tank Breathers with Splash Guard

Vescor Part Number	NPT Size	Style Cap Color	Breather
SGB-02-10	1/4"	Vescor/Gray	Mini w/Splash Guard
SGB-05-10	3/8"	Vescor/Gray	Mini w/Splash Guard
SGB-03-10	1/2"	Vescor/Gray	Mini w/Splash Guard
SGB-07-10	3/4"	Vescor/Gray	Mini w/Splash Guard



Dimensional Details

Dilliciisioliai Detalis						
Vescor Part Number	A NPT	B Thread Length	C Hole Dia.	D Hex	E Flat	L Overall Length
PMB/SGB-02-10	1/4"	.39	.27	.62	.27	1.53
PMB/SGB-05-10	³ /8"	.59	.31	.75	.27	1.73
PMB/SGB-03-10	1/2"	.67	.47	1.00	.27	1.85
PMB/SGB-07-10	3/4"	.70	.70	1.13	.27	1.85

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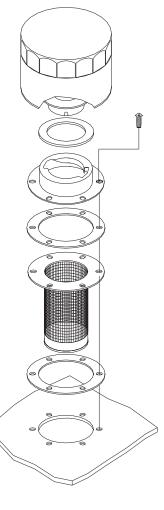
AIR BREATHER FILTER

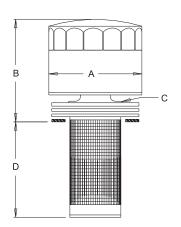


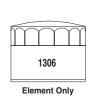
VESCOR® Air Breather Filter protects your hydraulic system from ingesting airborne particles. These breathers feature a large pleated surface area which remove airborne particles 3 micron and above with exceptional dirt holding capacity that extends the life of the breather and thus the length of time between servicing

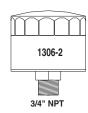
Features

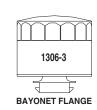
- 3 micron and above filtration
- High capacity air flow
- Customer specified adapters: Bayonet flange (SAE J829)
 3/4" NPT (male)
- Heavy Duty Cork-Neoprene Gaskets provide a positive seal between flanges
- · Adapters allow easy spin-on, spin-off changing of the air breather
- 4" Nylon Basket (assembly model only)











Technical and Dimensional Details

Part Number	Description	Normal Capacity	Air Flow PSI Drop	A Dia.	B Dim.	C Adapter	D Dim.
1306	Air Breather Filter Element Only	40 SCFM	FM	3.75	3.25	N/A	N/A
1306-2	Air Breather with 3/4 NPT Adapter	40 SCFM	at 20 SFM at 40 SCFN	3.75	4.38	³ / ₄ " NPT (Male)	N/A
1306-3	Air Breather with Bayonet Flange Adapter	40 SCFM	PSI at PSI at	3.75	4.50	SAE Bayonet	N/A
1306-4*	Air Breather Bayonet Fill Assembly	40 SCFM	.4 1	3.75	4.50	SAE Bayonet	3.80

*NOTE: 1306-4 includes (1) air breather filter, (1) cap gasket, (1) flange gasket, (1) flange SAE J829, (1) 4" nylon strainer basket, (1) tank gasket, (6) mounting screws

Mounting Information

 3 /4" NPT (male) Adapter - Any standard 3 /4" NPT (female) threaded pipe port SAE Bayonet Flange Adapter - Any mating SAE bayonet flange adapter

DES-CASE BREATHERS

Attack the cause of oil contamination

Industry spends millions of dollars annually treating the negative effects of oil contamination. Des-Case Breather attacks the cause as opposed to treating the problem of contamination.

Designed and developed by filtration engineers, the hygroscopic breather is a unique, patented air filter and water vapor removal system. It will virtually eliminate moisture and particulate contamination in industrial equipment reservoirs such as hydraulic tanks and gear boxes.

Unique Filtration Process

Moisture and particulate accumulation are major factors of oil contamination in industrial equipment. Neglected, these detriments restrict equipment efficiency, causing machine downtime and significant expense in replacement oil, parts and repair labor.

Des-Case breathers incorporate a proven, field tested design. They prevent water and contaminants from entering fluid reservoirs as differential pressures occur through thermal expansion and contraction of the fluid, or during the filling or emptying process.

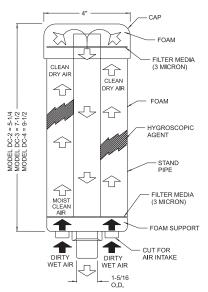
Manufactured with a hygroscopic agent, Des-Case breathers utilize the entire filter area, and have the capability of extracting water vapor from the air as it is drawn through the unit. Accompanying solid particulate is then removed by a patented polyester fabric filter, allowing only clean, dry air to enter the system.

Change to Des-Case™ for Maximum Machine Performance

Hygroscopic breather elements are state-of-the-art in design and function, and are industry's best choice for assuring maximum machine performance.

Des-Case offers these cost-savings benefits:

- Elimination of water-contaminated oil which leads to additive stripping
- Less abrasive particles to prolong machine operating life
- Elimination of rust-forming condensation
- · Longer oil and oil filter life
- Elimination of sludge deposits

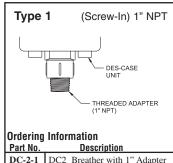


Resilient Construction . . . Multiple Application

Every Des-Case hygroscopic breather is manufactured in a durable, shock absorbing clear plastic casing with resilient qualities to withstand the customary abuse associated with heavy manufacturing equipment. The units are disposable, and are manufactured entirely of environmentally safe components.

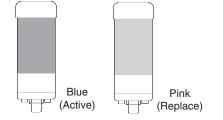
Des-Case disposable hygroscopic breathers are manufactured in three sizes DC2, DC3 and DC4 to accommodate different mounting space requirements. All three models are rated for 20 cfm of air in and out of the tank or reservoir (the equivalent of 150 gpm fluid level change in the reservoir). The patented air flow design produces a partial regeneration of the hygroscopic agent and a back flushing (cleaning) of the particulate filter when the air leaves the reservoir.

Ordering Information



Part No.	Description
DC-2-1	DC2 Breather with 1" Adapter DC3 Breather with 1" Adapter DC4 Breather with 1" Adapter
DC-3-1	DC3 Breather with 1" Adapter
DC-4-1	DC4 Breather with 1" Adapter

Туре	2 Bayonet Type
	DES-CASE UNIT BAYONET FLANGE ADAPTER BAYONET FLANGE
Ordering Information Part No. Description	
DC-2-B DC-3-B	DC2 Breather w/Bayonet Flange Adapter Assembly
DC-3-B DC-4-B	DC3 Breather w/Bayonet Flange Adapter Assembly DC4 Breather w/Bayonet Flange Adapter Assembly



Color Visually Indicates Unit Condition

To activate the unit, the protruding air intake nipples must be opened. The more nipples cut, the greater the breathing capacity.

Every Des-Case breather will remain effective as long as the hygroscopic agent's color in the transparent unit remains **BLUE**. A light **PINK** color indicates 100% saturation and the need to replace the unit.

Low Unit Cost . . . Long Shelf Life. . . Varied Industrial and Commercial Applications

Des-Case hygroscopic breathers are readily available and the modest price of these units is insignificant when compared to the costs associated with machine down time, replacement parts and labor. Each Des-Case breather is packaged and shipped in an airtight container for long-lasting shelf life.

Manufactured in the U.S.A., Des-Case units have excellent field test records and are utilized in a wide range of industries-food processing, automotive manufacturing, paper mills, transportation, robotics, power generation and many more.

Design Flexibility Permits Easy Installation Regardless of Equipment Location

Des-Case hygroscopic breathers are designed for installation on most equipment regardless of location. For installation in difficult areas. Des-Case offers (2) mounting options for ease of installation and unit maintenance.