

# PRODUCT CATALOGUE

Try One on Us, Request your complimentary  
disposable desiccant breather today.



**SINFTFILTER**

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**Hebei Sinft Filter Co., Ltd.**

## VISION & MISSION

SINFT vision: High-quality, future-proof products and solutions with customer service for any need at any time. Everything we do starts with a specific need which represents our true mission. It drives us to continuously improve and build trust with our customers.

## PRODUCTION

SINFT produces high quality accessories and spare parts compatible with major brands in the world market with much competitive prices. We use advanced, professional, automated and precise equipment to escort the orders, and our professional quality department from the operator to the precise control system of the machine system which all ensure the safety and reliability of the quality.

## CERTIFICATION

SINFT certifications: ISO 9001:2015, CE, EPR and others.



# CATALOGUE

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## BRIEF INTRODUCTION OF ENTERPRISE HISTORY

SINFT is located in Shijiazhuang City, Hebei Province, covering 26,658m<sup>2</sup>. We was established in 2007, Now we has become an excellent manufacturer of brand-compatible spare parts in the industrial filtration and spraying fluid delivery industries with 16 years of experience accumulation and precipitation .

## PRODUCT CATEGORY

- High Pressure Filter Elements
- Stainless Steel Filter Elements
- Low Pressure Filter Elements
- Pipeline Basket Strainer (simplex&Duplex)
- Hydraulic Filter Elements
- Replacement filter elements for over 200 brands  
INDUFIL, PALL, HYDAC, HILCO,BOLL&KIRTCH, MOATTI FILTREC, INTERNORMAN, PARKER, SF, STAUFF, HIFL MP, VICKERS, DONALDSON, MP, ARGO, REXROTH, HY-PRO,EATON, TAISEIKOGYO, ARGO, EPE etc.

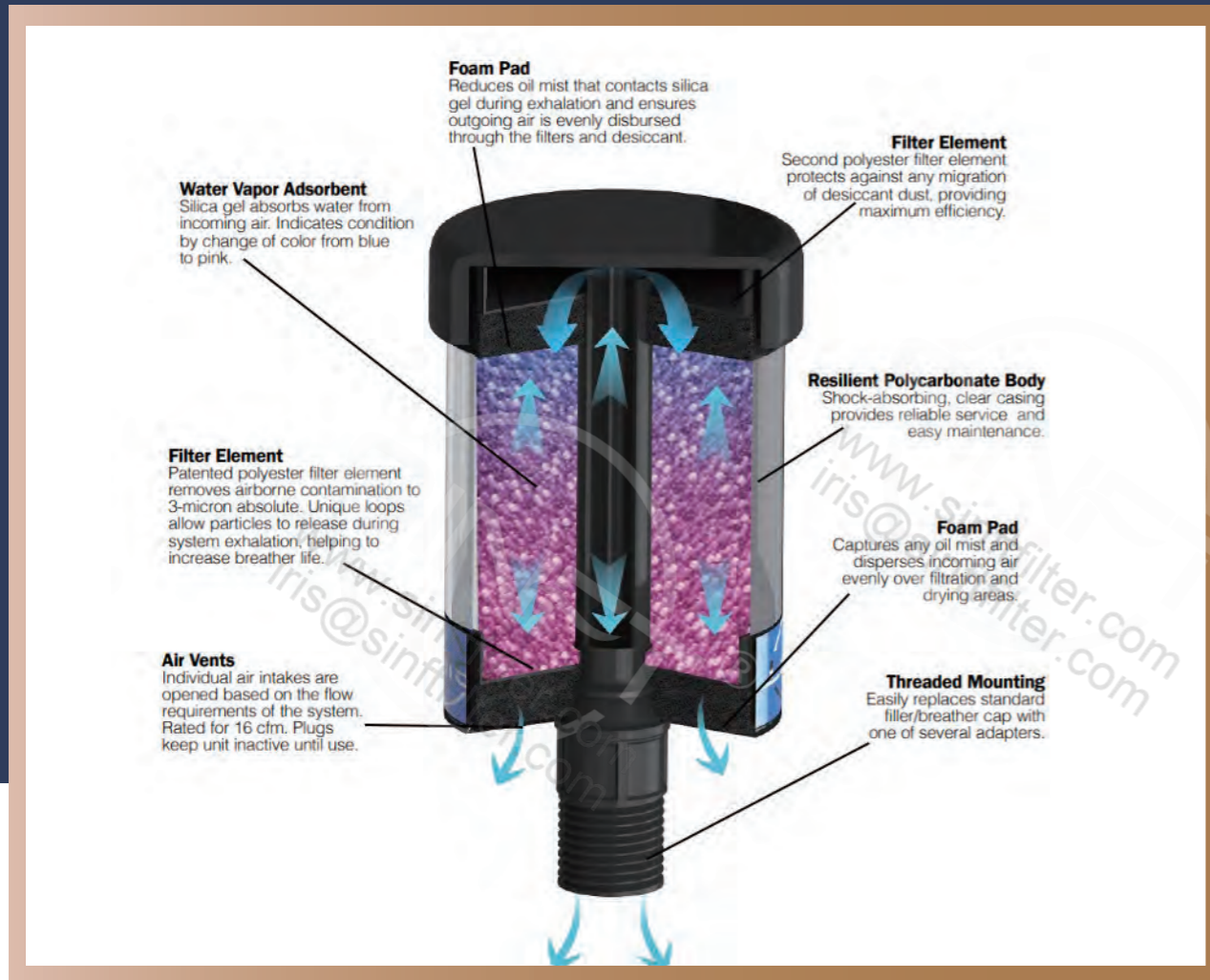
## EXPLORE THE DESICCANT BREATHER

### WHAT IS A DESICCANT BREATHER?

The desiccant breather replaces the standard dust cap or OEM breather cap on equipment, offering better filtration to protect against even the smallest particulates that destroy the effectiveness of your machinery, and cause downtime and costly repairs. As air is drawn into equipment through the breather, the layered desiccant filter elements remove particulate while the desiccant beads strip harmful moisture. While in service or during shut-down, the desiccant beads attract moisture from inside the equipment reservoir, actively drying the equipment.

### THE FIRST LINE OF DEFENSE AGAINST CONTAMINATION

As your industrial equipment heats up and cools down, it expands and contracts. And in order to keep machinery from building up too much pressure, equipment OEMs include vent caps on the fill port to allow expanded air to escape. There's only one problem, while they let air out, those simple caps don't prevent small dirt particles and moisture from making their way into the tank. This can damage bearings, gears, and valves by slowly wearing away the critical surfaces. Even worse, over time, moisture will condense inside your oil reservoir introducing water to your lubricants, consequently, keeping your maintenance team busy. With a wide range of sizes and features for almost any application and industry, SINFT breathers simultaneously remove moisture from the headspace of equipment with silica gel and prevent even the smallest particles from entering your oil tanks with multi-layer filtration. The best part is you'll see a return on investment almost immediately. With fewer breakdowns and production stoppages, you'll run more efficiently and create less waste, all while increasing the working life of your lubricants and equipment. Our unique design features a longer body, which permits 10% greater volume of silica gel desiccant beads when compared to leading competitors.



## HOW THE DESICCANT BREATHER WORKS

1. Foam Pad: Reduces oil mist that contacts silica gel during exhalation and ensures outgoing air is evenly dispersed through the filters and desiccant.
2. Water Vapor Adsorbent: Silica gel absorbs water from incoming air. Indicates condition by change of color from blue to pink.
3. Filter Element: Patented polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.
4. Air Vents: Individual air intakes are opened based on the flow requirements of the system. Rated for 16 cfm. Plugs keep unit inactive until use.
5. Threaded Mounting : Easily replaces standard filler/breather cap with one of several adapters.
6. Foam Pad: Captures any oil mist and disperses incoming air evenly over filtration and drying areas.
7. Resilient Polycarbonate Body: Shock-absorbing, clear casing provides reliable service and easy maintenance.
8. Filter Element: Second polyester filter element protects against any migration of desiccant dust, providing maximum efficiency.

## STANDARD SERIES DESICCANT BREATHERS

Standard breathers provide simple, yet dependable protection from moisture and particulate contamination in lubricants and equipment across multiple industries and applications. These versatile breathers are five times more effective than the leading non-desiccant breathers, providing optimal defense against humidity for your applications

### APPLICATIONS:

- Totes
- Storage Drums
- Hydraulics

Notes: We can customize other types of respirators according to your needs, such as those used on transformers, simply by providing drawings or we recommend them to you based on market experience.

### OPERATING ENVIRONMENTS:

- General Use
- Lubricant Storage Rooms
- Indoors
- Cold Weather Environments

### Typical Industries

- Power Generation
- Mining
- Aviation
- Storage
- Manufacturing
- Petrochemical

### Adapters

Part Number	Descriptions
DC-12-T	Threaded Flange Adapter
DC-12-TG	Threaded Flange Adapter with Gasket
DC-15-T	Bayonet Adapter
DC-SDVA-12M	3/4" NPT Vent Valve Adapter
DC-SDVA-16M	1" NPT Vent Valve Adapter



**DC-BB**

Unit Height (in / mm): 3.87 / 98  
 Unit Diameter (in / mm): 2.52 / 64  
 Connection Size: 3/8" Multi-Fit (NPT, BSPP, BSPT)"  
 Amount of Silica Gel (lbs / g): 0.1 / 59  
 Adsorption Capacity (fl oz / ml): 0.8 / 23  
 Max. Flow Rate (cfm): 5 @ 1 psid  
 Max. Flow Rate (lpm): 141  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 37 / 141  
 Gearbox/Storage Tank Max. Volume (gal/L): 15 / 57  
 Hydraulic Reservoir Max. Volume (gal/L): 2 / 8

**DC-2**

Unit Height (in / mm): 6.00 / 152  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)"  
 Amount of Silica Gel (lbs / g): 0.8 / 365  
 Adsorption Capacity (fl oz / ml): 5 / 142  
 Max. Flow Rate (cfm): 16 @ 1 psid  
 Max. Flow Rate (lpm): 453  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 120 / 453  
 Gearbox/Storage Tank Max. Volume (gal/L): 200 / 757  
 Hydraulic Reservoir Max. Volume (gal/L): 60 / 227



**DC-1**

Unit Height (in / mm): 5.36 / 136  
 Unit Diameter (in / mm): 2.52 / 64  
 Connection Size: 3/8" Multi-Fit (NPT, BSPP, BSPT)"  
 Amount of Silica Gel (lbs / g): 0.3 / 127  
 Adsorption Capacity (fl oz / ml): 1.7 / 50  
 Max. Flow Rate (cfm): 4 @ 1 psid  
 Max. Flow Rate (lpm): 113  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 30 / 113  
 Gearbox/Storage Tank Max. Volume (gal/L): 35 / 132  
 Hydraulic Reservoir Max. Volume (gal/L): 5 / 19

**DC-3**

Unit Height (in / mm): 8.00 / 203  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)"  
 Amount of Silica Gel (lbs / g): 1.4 / 643  
 Adsorption Capacity (fl oz / ml): 9 / 251  
 Max. Flow Rate (cfm): 16 @ 1 psid  
 Max. Flow Rate (lpm): 453  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 120 / 453  
 Gearbox/Storage Tank Max. Volume (gal/L): 350 / 1325  
 Hydraulic Reservoir Max. Volume (gal/L): 100 / 379

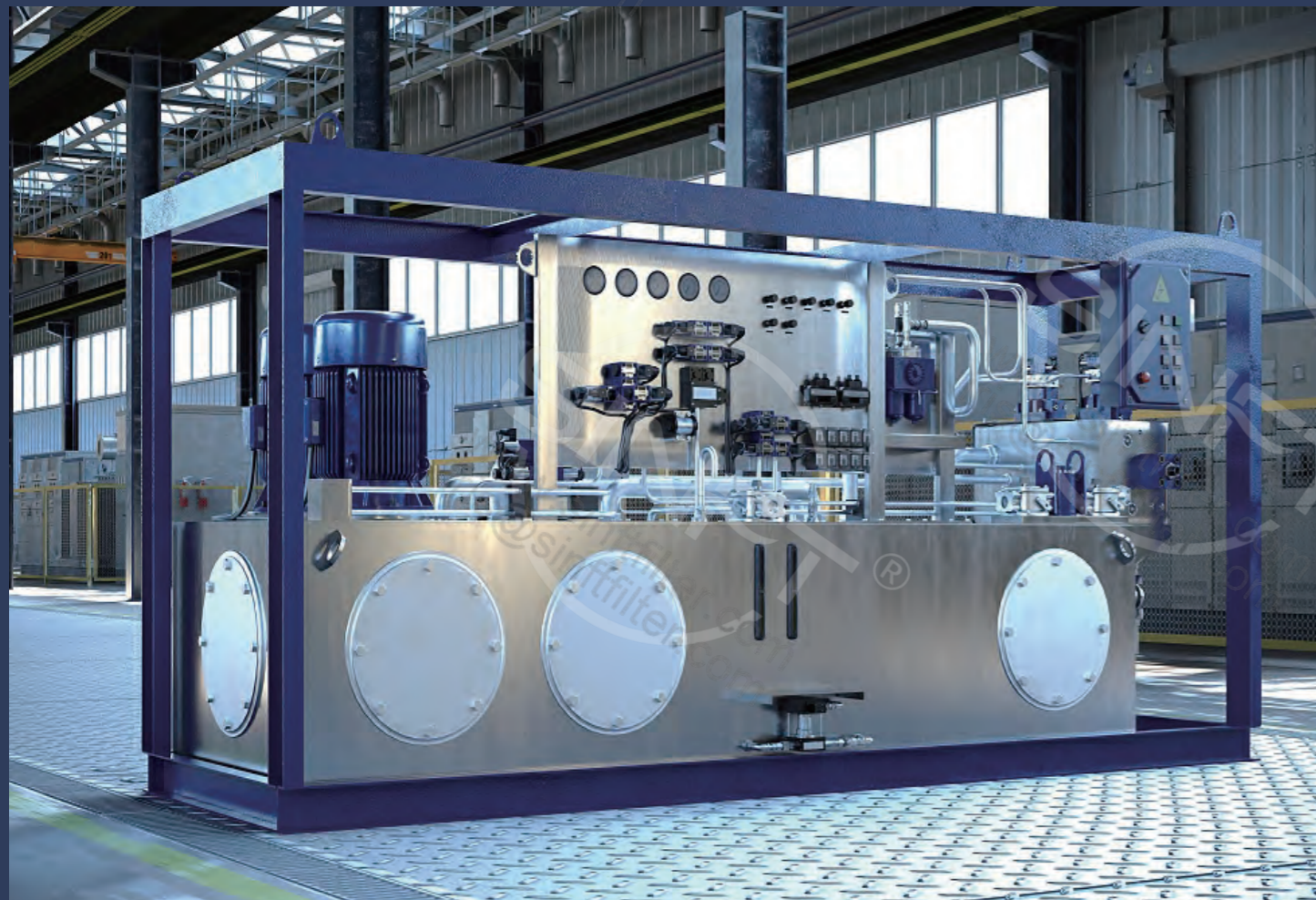




**DC-4**

Unit Height (in / mm): 10.00 / 254  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)"  
 Amount of Silica Gel (lbs / g): 2.0 / 913  
 Adsorption Capacity (fl oz / ml): 12 / 365  
 Max. Flow Rate (cfm): 16 @ 1 psid  
 Max. Flow Rate (lpm): 453  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 120 / 453  
 Gearbox/Storage Tank Max. Volume (gal/L): 500 / 1893  
 Hydraulic Reservoir Max. Volume (gal/L): 200 / 757

FEATURES



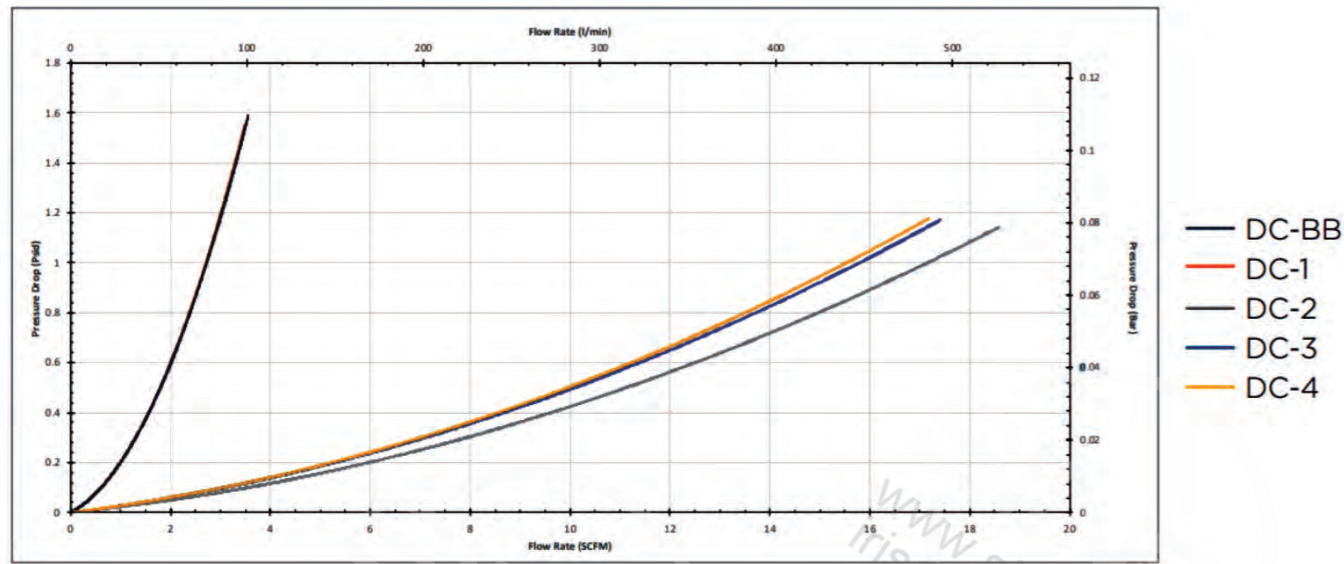
PERFORMANCE SPECIFICATIONS:

	DC-BB	DC-1	DC-2	DC-3	DC-3
Temperature Range	-20°F to 200°F (-29°C to 93°C)				
Filter Efficiency	(3μ absolute ( $\beta_3 \geq 200$ ))				
Amount of Desiccant:	.1 lbs / .1 kg	.3 lbs / .1 kg	.8 lbs / .4 kg	1.4 lbs / .6 kg	2 lbs / .9 kg
Adsorption Capacity:	.8 fl oz / 23 ml	1.7 fl oz / 50 ml	4.9 fl oz / 146 ml	8.7 fl oz / 257 ml	12.4 fl oz / 365 ml
Air Flow Rate:	5 @ 1 Psid	4 @ 1 Psid	16 cfm @ 1 Psid	16 cfm @ 1 Psid	16 cfm @ 1 Psid
Air Flow Rate:	31 gpm / 117 lpm	25 gpm / 95 lpm	120 gpm / 453 lpm	120 gpm / 453 lpm	120 gpm / 453 lpm

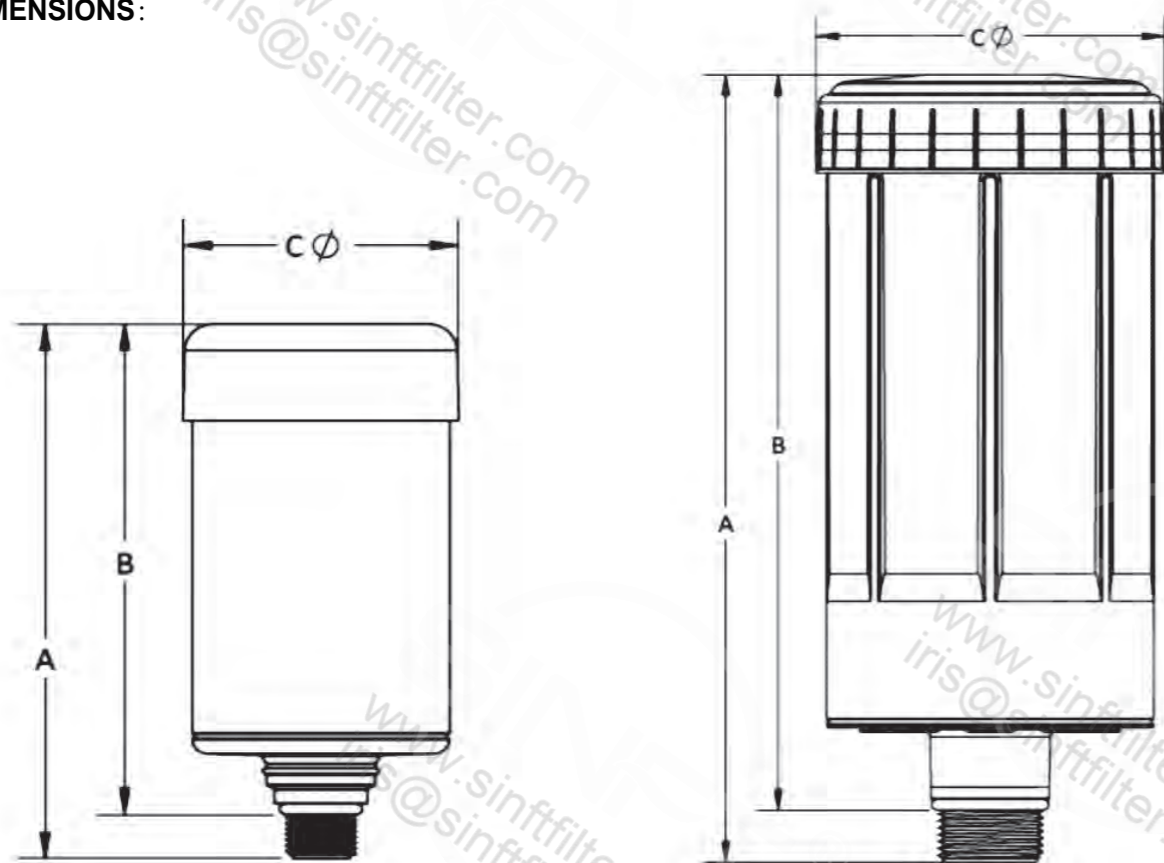
PERFORMANCE SPECIFICATIONS:

Model	Max Suction / Return Rate (gpm / lpm)	Gearbox / Storage Tank Reservoir Size (Gallons / Liters)	Hydraulic Reservoir Size (Gallons / Liters)
DC-BB	31 / 117	15 / 57	2月8日
DC-1	25 / 95	35 / 132	5月19日
DC-2	120 / 453	200 / 757	60 / 227
DC-3	120 / 453	350 / 1325	100 / 379
DC-4	120 / 453	500 / 1893	200 / 757

Please Note: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact SINFT for assistance in sizing a breather.



**DIMENSIONS:**



Dimension Table					
Part Code	Style	A	B	C	Thread Size
	miniature or standard	inch / mm	inch / mm	inch / mm	
DC-BB	miniature	3.87 / 98	3.43 / 87	2.52 / 64	3/8" Multi-Fit Male Thread with O-Ring Seal, Compatible with: 3/8" NPT; 3/8" BSPT; 3/8" BSPP
DC-1	miniature	5.4 / 136	4.9 / 125	2.52 / 64	
DC-2	standard	6.0 / 152	5.33 / 135	4.1 / 104	
DC-3	standard	8.0 / 203	7.33 / 186	4.1 / 104	1" Multi-Fit Male Thread with O-Ring Seal, Compatible with: 1" NPT; 1" NPSM; 1" BSPT; 1" BSPP
DC-4	standard	10.0 / 254	9.33 / 237	4.1 / 104	



**VENTGUARD™ DESICCANT SERIES BREATHERS**

Des-Case VentGuard™ breathers have check-valve technology that isolates the system and only 'breathes' when necessary, making them an ideal solution to protect low-flow applications with intermittent operations. Check valves provide slight system pressurization that allows for controlled breathing without excessive pressure build-up. The system breathes only when pressured to do so, and then the air is cleaned and dried before it is introduced into the system, ensuring a clean, dry headspace. This control mechanism also prevents premature saturation of the silica gel and extends breather life, a problem not as easily tackled by standard desiccant breathers exposed to extreme moisture.

**MATERIALS & COMPONENTS:**

- Housing: Polycarbonate, Nylon 6/6 30% Glass Filled, Polypropylene
- Seals & Valves (Miniature): Buna-N, EPDM, PVC, Silicone
- Seals & Valves (Standard): Buna-N, PVC, Silicone
- Filter Media: Polyurethane, Polyester
- Hydrophilic Media: Silica Gel

**Typical Industries:**

- Pulp & Paper
- Forestry & Building Products
- Food & Beverage
- Steel & Aluminum

**APPLICATIONS:**

- Gearboxes
- Pumps
- Hydraulics Power Units
- Conveying Systems
- Low-Flow Applications

**OPERATING ENVIRONMENTS:**

- Intermittent Operations
- High Humidity
- Washdown

**Adapters**

Part Number	Description
DC-12-T	Threaded Flange Adapter
DC-12-TG	Threaded Flange Adapter with Gasket
DC-15-T	Bayonet Adapter
DC-SDVA-12M	3/4" NPT Vent Valve Adapter
DC-SDVA-16M	1" NPT Vent Valve Adapter



### DC-VG-BB

Unit Height (in / mm): 3.87 / 98  
 Unit Diameter (in / mm): 2.52 / 64  
 Connection Size: 3/8" Multi-Fit (NPT, BSPP, BSPT)"  
 Amount of Silica Gel (lbs / g): 0.1 / 59  
 Adsorption Capacity (fl oz / ml): 0.8 / 23  
 Max. Flow Rate (cfm): 1 @ 1 psid  
 Max. Flow Rate (lpm): 41  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Suction/Return Rate at 1 psid (gpm/lpm): 11 / 41  
 Gearbox/Storage Tank Max. Volume (gal/L): 15 / 57  
 Hydraulic Reservoir Max. Volume (gal/L): 2 / 8

### DC-VG-2

Unit Height (in / mm): 6.00 / 152  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)"  
 Amount of Silica Gel (lbs / g): 0.8 / 365  
 Adsorption Capacity (fl oz / ml): 5 / 142  
 Max. Flow Rate (cfm): 12 @ 1 psid  
 Max. Flow Rate (lpm): 340  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 90 / 340  
 Gearbox/Storage Tank Max. Volume (gal/L): 200 / 757  
 Hydraulic Reservoir Max. Volume (gal/L): 60 / 227



### DC-VG-1

Unit Height (in / mm): 5.36 / 136  
 Unit Diameter (in / mm): 2.52 / 64  
 Connection Size: 3/8" Multi-Fit (NPT, BSPP, BSPT)"  
 Amount of Silica Gel (lbs / g): 0.3 / 127  
 Adsorption Capacity (fl oz / ml): 1.7 / 50  
 Max. Flow Rate (cfm): 1 @ 1 psid  
 Max. Flow Rate (lpm): 41  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 11 / 41  
 Gearbox/Storage Tank Max. Volume (gal/L): 35 / 132  
 Hydraulic Reservoir Max. Volume (gal/L): 5 / 19

### DC-VG-3

Unit Height (in / mm): 8.00 / 203  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)"  
 Amount of Silica Gel (lbs / g): 1.4 / 643  
 Adsorption Capacity (fl oz / ml): 9 / 251  
 Max. Flow Rate (cfm): 11 @ 1 psid  
 Max. Flow Rate (lpm): 311  
 Filter Efficiency: 3μ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 82 / 311  
 Gearbox/Storage Tank Max. Volume (gal/L): 350 / 1325  
 Hydraulic Reservoir Max. Volume (gal/L): 100 / 379







**DC-VG-4**

Unit Height (in / mm): 10.00 / 254  
 Unit Diameter (in / mm): 4.10 / 104  
 Connection Size: 1" Multi-Fit (NPT, BSPT, NPSM)  
 Amount of Silica Gel (lbs / g): 2.0 / 913  
 Adsorption Capacity (fl oz / ml): 12 / 356  
 Max. Flow Rate (cfm): 12 @ 1 psid  
 Max. Flow Rate (lpm): 340  
 Filter Efficiency: 3µ absolute ( $\beta_3 \geq 200$ )  
 Operating Temp. Range (°F): -20° to 200°  
 Operating Temp. Range (°C): -29° to 93°  
 Max. Airflow at 1 psid (gpm/lpm): 82 / 311  
 Gearbox/Storage Tank Max. Volume (gal/L): 500 / 1893  
 Hydraulic Reservoir Max. Volume (gal/L): 200 / 757

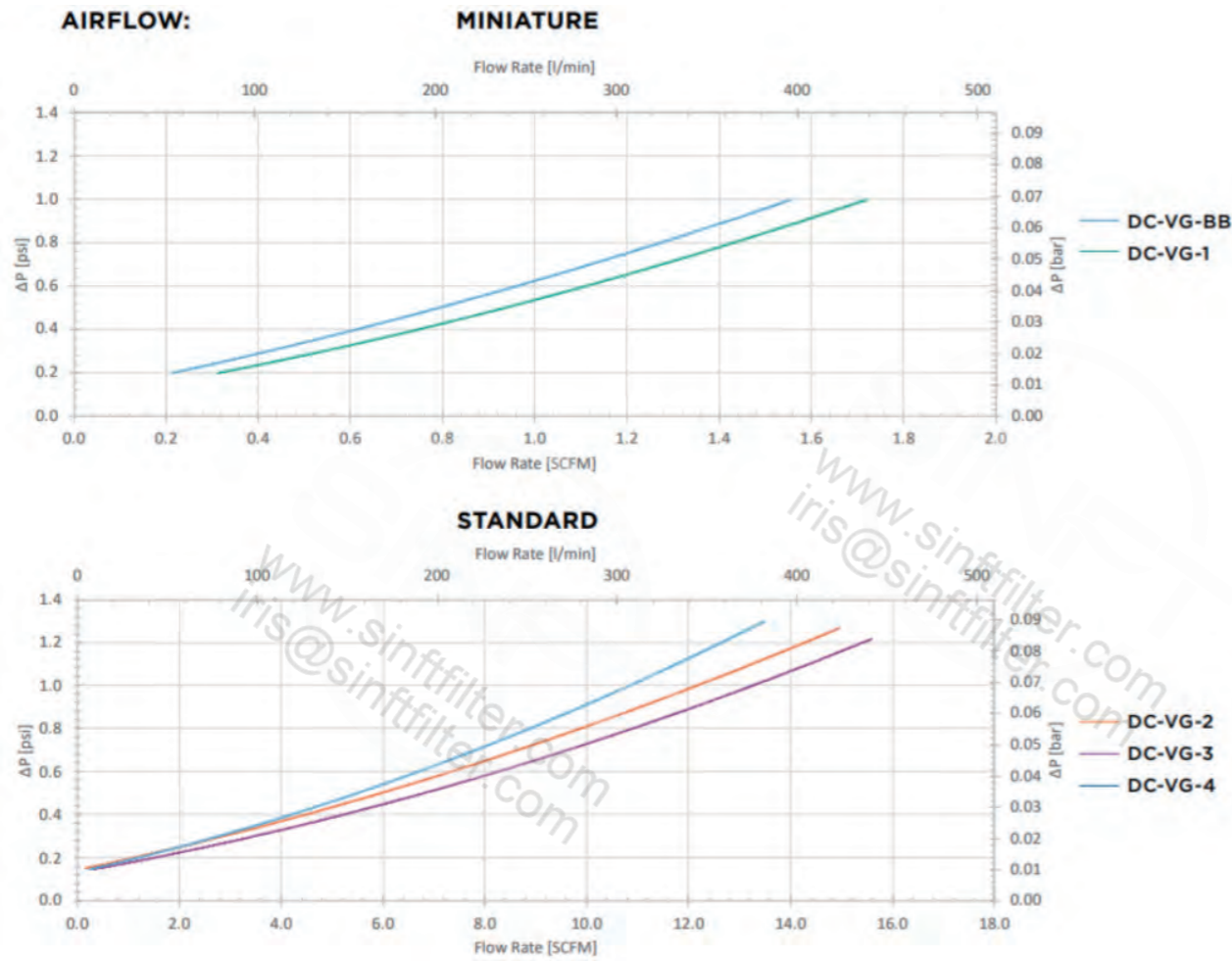
FEATURES



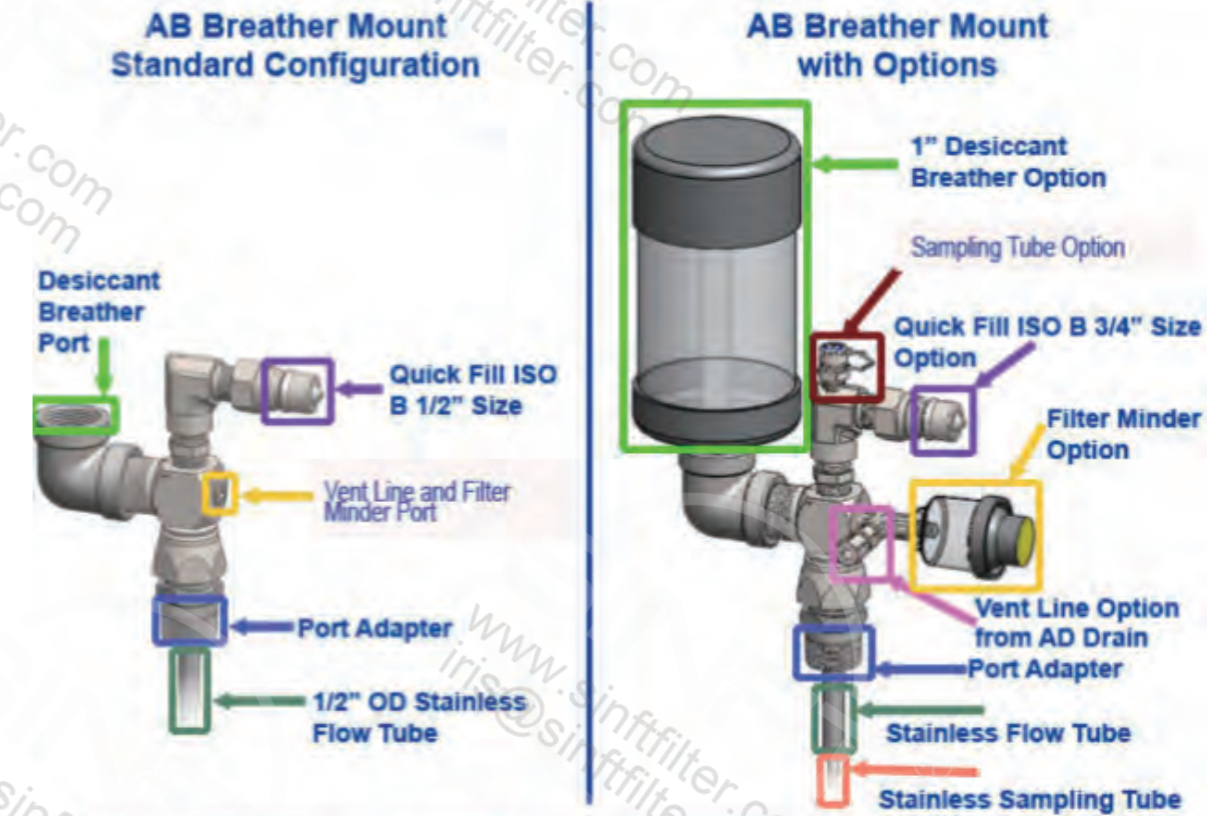
PERFORMANCE SPECIFICATIONS:

Product Code	DC-VG-BB	DC-VG-1	DC-VG-2	DC-VG-3	DC-VG-4
Temperature Range	-20°F to 200°F (-29°C to 93°C)				
Filter Efficiency	3 µm absolute				
Check Valve Cracking Pressure	.1 psi (.007 bar)				
Amount of Desiccant	.1 lbs (.1 kg)	.3 lbs (.1 kg)	0.8 lbs (0.4 kg)	1.4 lbs (0.6 kg)	2.0 lbs (0.9 kg)
Water Adsorption Capacity (Maximum Water Retention)	.8 fl oz (3 ml)	1.7 fl oz (50 ml)	5 fl oz (144 ml)	9 fl oz (253 ml)	12 fl oz (359 ml)
Color Indication	Blue to Pink				
<b>Application Sizing Recommendations</b>					
Max. Airflow at ΔP 1 psi [.07 bar]	1 cfm (141 l/min)	1 cfm (113 l/min)	12 cfm (453 l/min)	11 cfm (453 l/min)	11 cfm (453 l/min)
Max Reservoir Fluid Flow or Displacement at ΔP 1 psi [.07 bar]	11 gpm (41 l/min)	11 gpm (41 l/min)	90 gpm (340 l/min)	82 gpm (311 l/min)	75 gpm (283 l/min)
Gearbox, Pump & Storage Tank	15 gal (57 L)	35 gal (132 L)	200 gal (757 L)	350 gal (1325 L)	500 gal (1893 L)
Hydraulic & Central Lube Reservoir	2 gal (8 L)	5 gal (19 L)	60 gal (227 L)	100 gal (379 L)	200 gal (757 L)

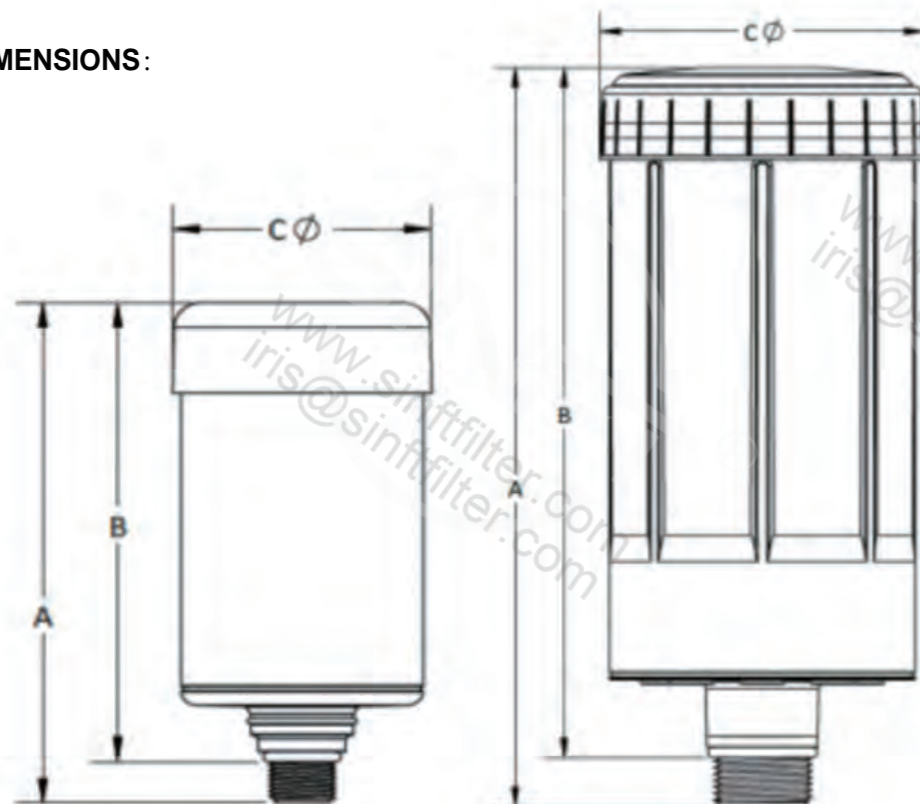
Please Note: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances. Please Note: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact SINFT for assistance in sizing a breather.



Part Code	Style	A	B	C
	Miniature or Standard	Inch / mm	Inch / mm	Inch / mm
DC-VG-BB	Miniature	3.9 / 98	3.4 / 87	2.5 / 64
DC-VG-1	Miniature	5.4 / 136	4.9 / 125	2.5 / 64
DC-VG-2	Standard	6.0 / 152	5.3 / 135	4.1 / 104
DC-VG-3	Standard	8.0 / 203	7.3 / 186	4.1 / 104
DC-VG-4	Standard	10.0 / 254	9.3 / 237	4.1 / 104
Thread Size				
MINIATURE	3/8" Multi-Fit Male Thread with O-Ring Seal, Compatible with: 3/8" NPT; 3/8" BSPT; 3/8" BSPP			
STANDARD	1" Multi-Fit Male Thread with O-Ring Seal, Compatible with: 1" NPT; 1" NPSM; 1" BSPT; 1" BSPP			



**DIMENSIONS:**



Top mounted breather connects vent line to side mounted drain mount **Use "S"**

Top mounted breather connects vent line to bottom mounted drain mount **Use "B"**

Side mounted breather connects vent line to side mounted drain mount **Use "S"**

Side mounted breather connects vent line to bottom mounted drain mount **Use "B"**