

## BD Series Drymicron



### Operational Features

#### Bi-directional Air Flow

- Air entering is cleaned and dried. Expelled air partially regenerates the silica gel and “backflushes” the particulate filter to prolong the life of the breather.

#### Durable Construction

- DRYMICRON is manufactured from rugged ABS plastic and impact-modified Plexiglas.

#### Water Vapor Adsorbent

- Silica gel is chemically inert, non-toxic, and non-corrosive. The internal structure is composed of interconnected microscopic pores that adsorb up to 40% of its weight.

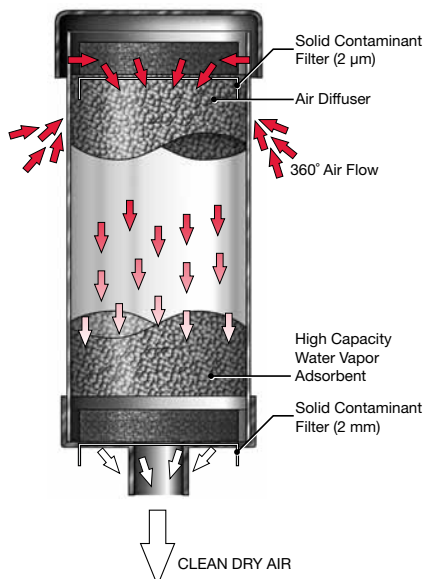
#### Color Indicator

- When maximum adsorption is reached, the silica gel turns from gold to green to indicate that replacement of the breather is required.



#### Safety Sealed

- Seals keep moisture from entering the units until they are placed in service. They are easily removed without tools or sharp instruments.



### Description

Drymicron breathers use a three-stage filtration design to ensure optimum protection by removing water vapor and solid contaminant before they enter the fluid system.

Drymicron Breathers replace the standard breather cap or vent tube on a tank or reservoir. They are easy to install using one of several adapters designed for different applications.

When the fluid in the system is lowered, or pressure changes occur, air is drawn in through openings under the breather cap. First, air passes through a fine, 2 micron solid particle filter. The air then passes through a diffuser to ensure maximum effectiveness within the silica gel chamber.

Next, water vapor is removed as the air travels through a bed of silica gel — the highest capacity adsorbent available. After being dried, the air passes through a second 2 micron solid particle filter and enters the reservoir clean and dry!

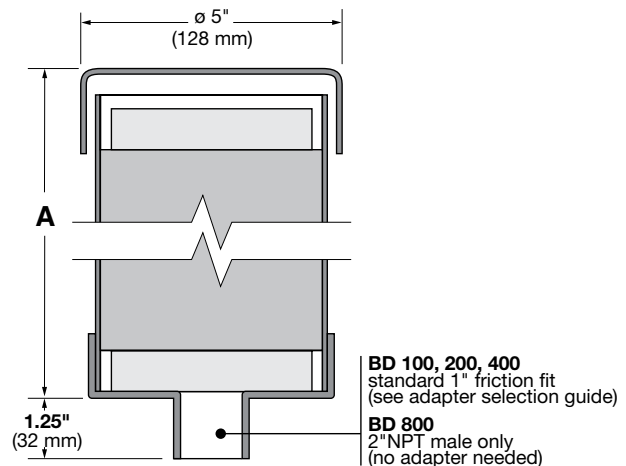
### Advantages

Drymicron Breathers protect expensive equipment, increase operation efficiency, and reduce maintenance costs by:

- Eliminating corrosion
- Extending life of hydraulic, lubrication, and process fluids
- Minimizing component wear, downtime, and repairs
- Eliminating oil oxidation, additive depletion, and freezing
- Extending oil filter life

### Applications

- Hydraulic Reservoirs
- Gear Boxes
- Storage Tanks



### Unit Selection Guide (adapters sold separately)

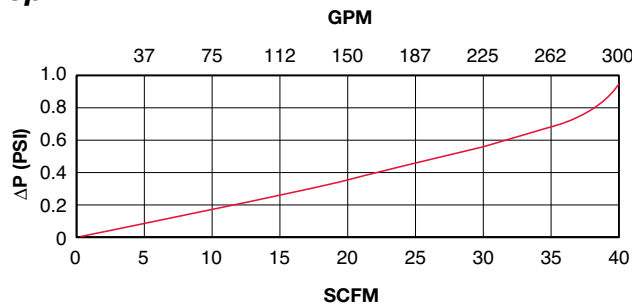
Model Code	Part No.	Height (A)	Weight	Max. H <sub>2</sub> O Capacity lbs (ltr)
BD 100 X 2 W 0.0	02074253	3.5 (90)	1.3 (0.6)	0.2 (0.1)
BD 200 X 2 W 0.0	02074254	5 (128)	1.9 (0.9)	0.4 (0.2)
BD 400 X 2 W 0.0	02074465	8 (205)	3.3 (1.5)	0.9 (0.4)
BD 800 X 2 W 0.0	02075158	10 (254)	4.9 (2.2)	1.3 (0.6)

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

## Product Specifications

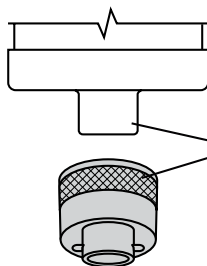
Performance	Specification	
Nominal Air Flow Rate	BD 100-400	35 scfm (990 l/min) Equivalent of 260 gpm of fluid volume change
	BD 800	100 scfm (2850 l/min) Equivalent of 750 gpm of fluid volume change
Solid Contamination Filtration Level	2 micron, 100% efficiency @ 35 scfm air flow	
Solid Contamination Filtration Surface area	20.6 in <sup>2</sup> / 133 cm <sup>2</sup>	
Operating Temperature Range	-26° to 200°F (-32° to 93°C)	
Silica Gel:	Adsorption	Up to 40% of its weight of water
Chemical Resistance acids, salt water, and mineral or synthetic oils	Resistant to alkalis, hydrocarbons, non-oxidizing	

## Flow Rate vs Pressure Drop



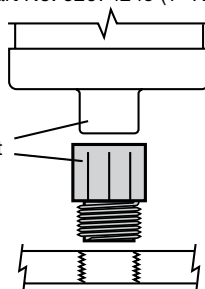
## Adapters Selection Guide (adapters sold separately - Note: no adapter needed for BD 800)

**Bayonet Adapter**  
Part No. 02074251



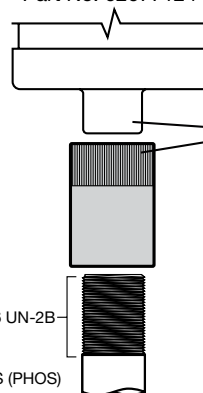
1" Friction fit

**Plastic Threaded Adapter**  
Part No. 02074248 (3/4" NPT)  
Part No. 02074249 (1" NPT)



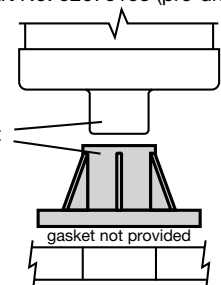
1 1/2-16 UN-2B  
Existing Standpipe  
or HYDAC: 00416311  
ADAPTER BL 160/180 S (PHOS)

**Plastic Threaded Standpipe Adapter**  
Part No. 02077124

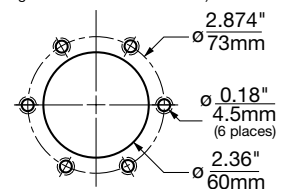


1" Friction fit

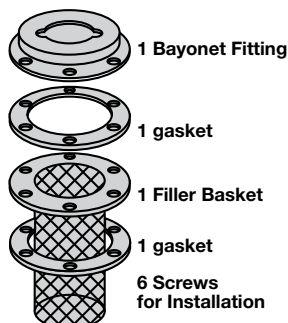
**Plastic Flange Adapter**  
Part No. 02074250 (not drilled)  
Part No. 02075193 (pre-drilled)



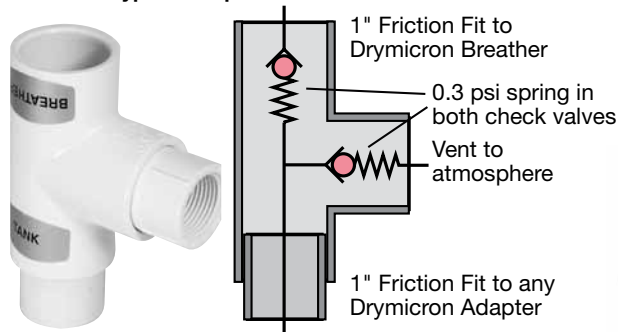
**Mounting Hole Pattern for Pre-drilled Adapter**  
(Flange Interface to DIN 24557/T2)



**Bayonet Flange Kit with 3.5" Steel Basket**  
Part No. 02079076



**Plastic Bypass Adapter** Part No. 01278016



**Plastic Adapter**  
Part No. 02081637