

FILTER-MART

C O R P O R A T I O N

CONTAMINATION CONTROL BREATHERS

Removes Corrosive Water Vapor

Protects Expensive Equipment

Filters Damaging Particles

Increases Operation Efficiency

Reduces Harmful Contaminants

Reduces Maintenance Costs



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CONTAMINATION CONTROL BREATHERS

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

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 dried, the air passes through a second 2 micron solid particle filter and enters the reservoir **CLEAN AND DRY!**

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	Is manufactured from rugged ABS plastic and impact-modified Plexiglas.
WATER VAPOR ADSORBENT	The silica gel used in the breathers is chemically inert, non-corrosive, and conforms to all regulated toxicity standards in the U.S. and other countries. Microscopic pores allow the silica gel to adsorb up to 40% of its
COLOR INDICATOR	When maximum adsorption is reached, the silica gel turns from gold to dark green to indicate that replacement of the breather is required.
ACTIVATED CARBON	As air is expelled from the tank, it passes through activated carbon which remove oil vapors, fumes, and odors.
SAFETY SEALED	Seals keep moisture from entering the units until they are placed in service. They are easily removed without tools or sharp instruments.

PRODUCT SPECIFICATIONS

PERFORMANCE	SPECIFICATION
Nominal Air Flow Rate	35 CFM (990 l/min) Equivalent of 260 gpm of fluid volume change
Solid Contaminant Filtration Level	2 Micron, 100% Efficiency @ 35 CFM Air Flow
Solid Contaminant Filtration Surface Area	20.6 in ² / 133 cm ²
Operating Temperature Range	
Silica Gel: Adsorption Lowest Operational Dew Point	Up to 40% of its Weight of Water -100° F / -73° C
Chemical Resistance	Resistant to alkalis, hydrocarbons, non-oxidizing acids, salt water and mineral or synthetic oils