Hy-Dry Breather



Hy-Dry Breathers Disposable Air Purifying Breathers

Fluid contamination is the root cause of most hydraulic system failures. Controlling contamination in the air a system breathes is critical. The synergy of Hy-Pro fluid filter elements and Hy-Dry desiccant breathers yields fluid clarification and a healthy hydraulic system.

PRODUCT SPECIFICATIONS

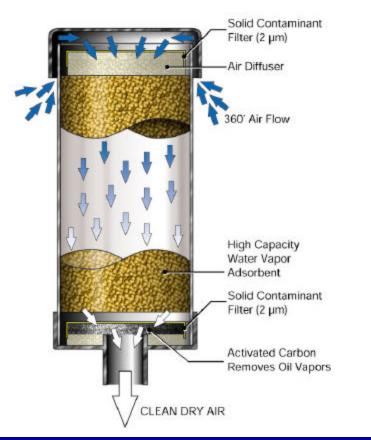
Air flow rate	35 CFM (990 l/min) equivalent to 260 gpm of fluid volume change
Solid contaminant	2 micron, 100% efficiency (35 CFM)
filtration efficiency	
Chemical	Impervious to alkalis, mineral oils,
resistance	non-oxidizing acids, salt water,
	hydrocarbons, and synthetic oils.
HPB-100	0.2 lb / 0.1 liter water capacity
HPB-101	0.4 lb / 0.2 liter water capacity
HPB-102	0.9 lb / 0.5 liter water capacity
HPB-302	0.9 lb / 0.5 liter water capacity
HPBR-102	0.9 lb / 0.5 liter water capacity
Operating temp.	-20f (-28c) to 200f (93c)

Contaminant	Problem	Solution
Water vapor	Rust & oxidation	Water
	Additive depletion	adsorbent
	Freezing	silica
	Increased conductivity	
	Fluid degradation	
Solid particulate	Component wear	2 micron
	Stiction	removal
	Orifice blockage	efficiency
Acids & salts	Chemical reaction	100 %
	Microbial growth	
	Overheating	
	Corrosion	

FEATURES, BENEFITS, ADVANTAGES

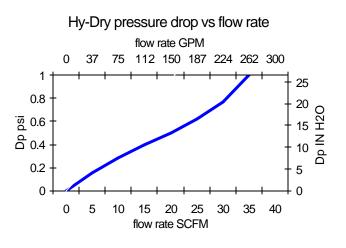
Retro-fit existing	With adaptors a Hy-Dry breather
reservoirs	can be installed on virtually any
	existing reservoir. (Versatility)
Water adsorption	Eliminate water contamination
	from reservoir ingression
	Minimize rust and acid corrosion.
	Reduce component wear.
	Reduce maintenance costs.
	Prolong fluid life.
	Reduce oil oxidation.
	Enhance lubricity of fluids.
Chemically inert	Gold silica gel is chemically inert,
	non toxic, non-deliquescent and
	non -corrosive. (chemically inert)
Disposable	Materials meet U.S Pharmacopoeia
	XXI Class VI toxicity requirements.
	Hy-Dry contains no metal
	components. (easy disposal)
Color indicator	When maximum adsorption is
	reached Hy-Dry will turn from Gold
	to Green as an indicator to replace
	it. (easy condition indicator)
Bi-directional	Air inhaled is cleaned and dried, and
air flow	oil is removed from exhausted air .
Activated carbon	As air is exhausted from the tank
	activated carbon removes oil vapor,
	fumes, and odors. (clean exhaust)







Silica gel changes from Gold to Dark Green indicating saturation (Change breather).

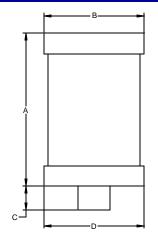


HY-DRY BREATHER AND ADAPTER ORDER GUIDE

Hy-Dry Cartridge	Α	В	С	D	Weight
HPB-100	3.5" (9cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	1.3lb (0.6kg)
HPB-101	5.0" (12,8cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	1.9lb (0.9kg)
HPB-102	8.0" (20,5cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	3.3lb (1.5kg)
HPB-302*	8.5" (21,8cm)	5.0" (12,8cm)	N/A	5.2" (13,3cm)	3.3lb (1.5kg)
HPBR-102*	9.5" (24.4cm)	5.0" (12,8cm)	N/A	5.2" (13,3cm)	5.0lb (2.3kg)

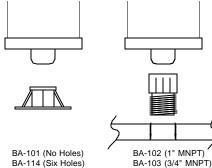
*HPBR-102 assembly is complete with a metal reinforced base, that remains with the reservoir or gearbox, and a replacement breather cartridge (HPB-302) threaded into the base. Upon indication remove the cartridge only (HPB-302) and replace with a new cartridge. The HPBR-102 assembly is recommended for Heavy Duty, Continuous vibration, and Extreme climate applications. HPBR-102 has a 1" Male NPT connection.

Flange adaptors



Don't forget the adaptor for Retro-fits and New installations!!

Hy-Dry	Туре	
Adaptor		
HPBA-101	Flange (no holes)	
HPBA-102	1" Male NPT	
HPBA-103	3/4" Male NPT	
HPBA-104	Bayonet (standard	
	filler/breather flange)	
HPBA-105	1"-12 UNF	
HPBA-106	1 1/2"-16 UNF	
HPBA-114	Flange (6 holes)	
HPBA-201	1 1/8"-16UNF	



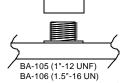




BA-104

(Bayonet adaptor)

Fits filler breather flange



BA-201 (1.125"-16UN-2B)

TBHYDRY-0302

