

Hy-Dry

Desiccant Breathers

Protect your uptime, critical hydraulic & lube assets and fluid life. Hy-Dry breathers are critical in Hy-Pro's Total System Cleanliness approach as a barrier preventing airborne particles and water from entering reservoirs and gearboxes.

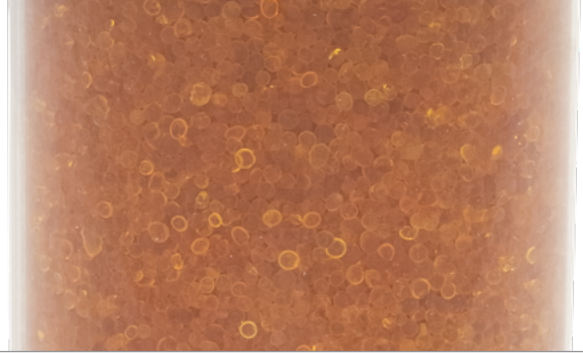


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A breath of fresh air.

Atmospheric moisture is a continuous threat to efficient operations of your equipment and machinery. Hy-Dry Breathers utilize high capacity silica gel to remove water from the air before it can ever enter your equipment, protecting your investment and helping prevent fluid breakdown.

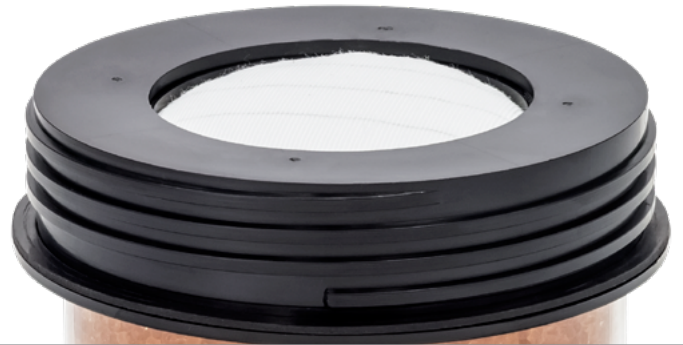


Unmistakable water removal.

As Hy-Dry Breathers adsorb moisture from the air entering your system, the gold silica gel gradually changes colors to let you know it's working effectively and even give you a reminder of when it's time for replacement.

Dual contamination prevention.

Each Hy-Dry Breather is equipped with an internal 2 micron particulate filter on both ends of the silica chamber to protect your system from airborne contamination. As an added benefit, exhaust from your reservoir flushes the trapped particulate from the outer filter and back into the atmosphere, making your Hy-Dry a self-cleaning powerhouse for contamination prevention.



Keep contamination in check.

Select models of Hy-Dry breathers come with dual check valves (0.1 psi / 0.007 bar standard) to prevent outside moisture from entering and greatly extending the life of your breather.

The perfect fit for your system.

Hy-Dry Breathers come in a variety of sizes, connections, and other options designed for countless applications. Whether you're installing on a small gearbox reservoir or on-board a high vibration mobile application, there's a Hy-Dry Breather suited perfectly to fit your needs.



Total Systems Cleanliness

Used in conjunction with more robust particulate filtration, Hy-Dry Breathers are a pivotal component to achieving Total Systems Cleanliness and ensuring your equipment is protected from all forms of contamination.

Hy-Dry Reference Guide

HPBC-102 Shown

Inlet check valve (not visible in picture)

Removable/reusable cap

Outlet check valve

Hy-Dry model number

Silica gel reservoir

Replacement cartridge part number

Reservoir adapter



HPB Disposable Cartridge Breathers



Stationary Applications.

Designed for versatility, HPB Breathers provide the base for all Hy-Dry Breathers with a wide range of fluid compatibility and numerous models to fit nearly any stationary application. The high impact resistant ABS caps and clear acrylic silica chamber provide protection from industrial environments while making inspection and replacement easier than ever.



Model	HPB-31	HPB-34	HPB-100	HPB-101	HPB-102	HPB-103	HPB-108	HPB-154
Height	2"	3.25"	3.5"	5"	8"	8"	10"	5"
	5.1 cm	8.3 cm	8.9 cm	12.7 cm	20.3 cm	20.3 cm	25.4 cm	12.7 cm
Diameter	2"	3.25"	5"	5"	5"	5"	5"	5"
	5.1 cm	8.3 cm	12.7 cm	12.7 cm	12.7 cm	12.7 cm	12.7 cm	12.7 cm
Stem Height	1.25"	N/A	1.25"	1.25"	1.25"	1.25"	N/A	1.25"
	3.2 cm	N/A	3.2 cm	3.2 cm	3.2 cm	3.2 cm	N/A	3.2 cm
Connection	1/2" FNPT	1/2" FNPT	1" Slip Fit	1" Slip Fit	1" Slip Fit	1" MNPT	2" MNPT	1" MNPT
Silica Gel	0.08 lb	0.50 lb	0.80 lb	1.40 lb	2.70 lb	2.70 lb	3.50 lb	1.40 lb
	0.04 kg	0.23 kg	0.36 kg	0.64 kg	1.22 kg	1.22 kg	1.59 kg	0.64 kg
Fluid Capacity	0.5 oz	3.1 oz	4.9 oz	8.6 oz	16.6 oz	16.6 oz	21.5 oz	8.6 oz
	14 ml	90 ml	145 ml	254 ml	490 ml	490 ml	635 ml	254 ml
Airflow	5 cfm	5 cfm	20 cfm	20 cfm	20 cfm	20 cfm	20 cfm	20 cfm
	8 m ³ /h	8 m ³ /h	34 m ³ /h	34 m ³ /h	34 m ³ /h	34 m ³ /h	34 m ³ /h	34 m ³ /h
Reservoir Flow	37 gpm	37 gpm	150 gpm	150 gpm	150 gpm	150 gpm	150 gpm	150 gpm
	140 lpm	140 lpm	568 lpm	568 lpm	568 lpm	568 lpm	568 lpm	568 lpm
Particulate Efficiency	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000



HPBC Integrated Check Valve Breathers



High Humidity & Dust Applications.

Taking our HPB Disposable Breathers even further, HPBC Disposable Breathers feature integrated intake and exhaust check valves to close the system from the atmosphere until airflow is required and extend the life of the breather. The reusable top cap that houses the check valves provides incredible ease of use in replacing spent cartridges and protects new breathers from the moment you install them.



Model	HPBC-100	HPBC-101	HPBC-102	HPBC-121	HPBC-122	HPBC-503	HPBC-505
Height	6.25" 15.9 cm	7" 17.8 cm	10" 25.4 cm	7" 17.8 cm	10" 25.4 cm	7" 17.8 cm	10" 25.4 cm
Diameter	3.25" 8.3 cm	5" 12.7 cm	5" 12.7 cm	5" 12.7 cm	5" 12.7 cm	5" 12.7 cm	5" 12.7 cm
Stem Height	N/A N/A	1.25" 3.2 cm	1.25" 3.2 cm	1.625" 4.1 cm	1.625" 4.1 cm	1.375" 3.5 cm	1.375" 3.5 cm
Connection	1/2" FNPT	1" Slip Fit	1" Slip Fit	2" MNPT	2" MNPT	1" MNPT	1" MNPT
Check Valve In	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar
Check Valve Out	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar
Silica Gel	0.8 lb 0.36 kg	1.4 lb 0.64 kg	2.7 lb 1.22 kg	1.4 lb 0.64 kg	2.7 lb 1.22 kg	1.4 lb 0.64 kg	2.7 lb 1.22 kg
Fluid Capacity	4.91 oz 145 ml	8.6 oz 254 ml	16.56 oz 490 ml	8.6 oz 254 ml	16.56 oz 490 ml	8.6 oz 254 ml	16.56 oz 490 ml
Airflow	10 cfm 17 m³/h	20 cfm 34 m³/h	20 cfm 34 m³/h	20 cfm 34 m³/h	20 cfm 34 m³/h	20 cfm 34 m³/h	20 cfm 34 m³/h
Reservoir Flow	75 gpm 284 lpm	150 gpm 568 lpm	150 gpm 568 lpm	150 gpm 568 lpm	150 gpm 568 lpm	150 gpm 568 lpm	150 gpm 568 lpm
Replacement Cartridge	HPB-143	HPB-341	HPB-342	HPB-343	HPB-344	HPB-345	HPB-346
Particulate Efficiency	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000	2 μ _{cl} >1000

HPBCR & HPBR Extreme Duty Breathers



High Vibration, Dust, & Humidity Applications

Featuring a reusable metal reinforced based with male NPT threads, HPBCR and HPBR Breathers are ideal for fluid management applications that require protection from extreme conditions. HPBCR models include intake and exhaust check valves in a reusable top cap to prevent unnecessary air flow and economical replacement of the desiccant cartridges. Perfect for high vibration applications such as mobile, wind power, mining and many others.



Model	HPBCR-101	HPBCR-102	HPBR-101	HPBR-102
Height	8.5 " 21.6 cm	11.5 " 29.2 cm	6.5" 16.5 cm	9.5" 24.1 cm
Diameter	5.2 " 13 cm	5.2" 13 cm	5.2" 13 cm	5.2" 13 cm
Stem Height	1" 2.5 cm	1" 2.5 cm	1" 2.5 cm	1" 2.5 cm
Connection	1" MNPT	1" MNPT	1" MNPT	1" MNPT
Check Valve In	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar
Check Valve Out	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar	0.1 psi 0.007 bar
Silica Gel	1.4 lb 0.64 kg	2.7 lb 1.22 kg	1.4 lb 0.64 kg	2.7 lb 1.22 kg
Fluid Capacity	8.6 oz 254 ml	16.6 oz 490 ml	8.6 oz 254 ml	16.6 oz 490 ml
Airflow	25 cfm 42 m ³ /h	25 cfm 42 m ³ /h	25 cfm 42 m ³ /h	25 cfm 42 m ³ /h
Reservoir Flow	187 gpm 708 lpm	187 gpm 708 lpm	187 gpm 708 lpm	187 gpm 708 lpm
Replacement Element	HPB-351	HPB-352	HPB-301	HPB-302
Particulate Efficiency	2 μ _(C) >4000	2 μ _(C) >4000	2 μ _(C) >4000	2 μ _(C) >4000

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.



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HPBA Reservoir Adapters

Model	Element Connection	Reservoir Connection	
HPBA-101	1" Slip Fit	Flange No Mounting Holes	
HPBA-102	1" Slip Fit	1" MNPT	
HPBA-103	1" Slip Fit	3/4" MNPT	
HPBA-104	1" Slip Fit	Bayonet	
HPBA-105	1" Slip Fit	1" - 12 UNF	
HPBA-106	1" Slip Fit	1.5" - 16 UNF	
HPBA-110	1" Slip Fit		
HPBA-114	1" Slip Fit	Flange 6 ANSI Mounting Holes	
HPBA-201	1" Slip Fit	1.125" - 16 UNF	
HPBA-403	3/8" MNPT	1/2" MNPT	
HPBA-G31	1" Slip Fit	G 1.25" - 11 BSPP	



Filtration starts with the filter.

Lower ISO Codes: Lower Total Cost of Ownership Hy-Pro filter elements deliver lower operating ISO Codes so you know your fluids are always clean, meaning lower total cost of ownership and reducing element consumption, downtime, repairs, and efficiency losses.

DFE Rated Filter Elements DFE is Hy-Pro's proprietary testing process which extends ISO 16889 Multi Pass testing to include real world, dynamic conditions and ensures that our filter elements excel in your most demanding hydraulic and lube applications.

Upgrade Your Filtration Keeping fluids clean results in big reliability gains and upgrading to Hy-Pro filter elements is the first step to clean oil and improved efficiency.

Advanced Media Options DFE glass media maintaining efficiency to $\beta_{1\mu} > 4000$, Dualglass + water removal media to remove free and emulsified water, stainless wire mesh for coarse filtration applications, and Dynafuzz stainless fiber media for EHC and aerospace applications.

Delivery in days, not weeks From a massive inventory of ready-to-ship filter elements to flexible manufacturing processes, Hy-Pro is equipped for incredibly fast response time to ensure you get your filter elements and protect your uptime.

More than just filtration Purchasing Hy-Pro filter elements means you not only get the best filters, you also get the unrivaled support, training, knowledge and expertise of the Hy-Pro team working shoulder-to-shoulder with you to eliminate fluid contamination.

Want to find out more? Get in touch.

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