

ZEUS

HYDRATECH

ZH-DB

Desiccant Air Breathers

Engineered for reliability, the Zeus Hydratech Desiccant Air Breathers keep fluids free from damaging contaminants and humidity.



Zeus Hydratech proudly operate to ISO 9001 quality management standards



The **Zeus Hydratech Desiccant Breather** delivers next-generation protection for hydraulic and fluid power systems. Designed to replace standard breather caps, it provides a smarter, more efficient way to keep your equipment clean and dry. As air enters the system, it's purified through a dual-action filtration process that removes both airborne particles and moisture before they can cause harm.

By keeping contaminants and humidity out, the **Desiccant Breather** helps extend component life, reduce downtime, and lower maintenance costs. Whether your equipment operates in harsh industrial environments or demanding field conditions, Zeus Hydratech ensures that every system breathes clean, dry air – safeguarding performance and reliability.



PERFORMANCE

The Zeus Hydratech Desiccant Breather redefines performance in desiccant breather technology. Engineered for superior moisture and contamination control, it consistently outperforms comparable products in independent testing.

Thanks to its innovative design, the Desiccant Breather delivers up to 20% greater moisture absorption than other leading brands, ensuring longer service life and enhanced protection for your hydraulic and lubrication systems. The extended body design also accommodates 10% more high-grade silica desiccant, allowing the unit to maintain optimal drying efficiency under demanding conditions.

When reliability and system integrity matter most, Zeus Hydratech's Desiccant Breather provides proven results you can trust.

Zeus Hydratech Desiccant Air Breather – Key Features

The Zeus Hydratech Desiccant Air Breather combines advanced particulate filtration, oil mist collection, and high-capacity silica to protect hydraulic and lubrication systems from moisture and contaminants. Its reinforced centre tube ensures uniform airflow, while the transparent ABS shell allows easy inspection of silica condition, supporting optimal maintenance intervals and reliable system performance

1. Centre Tube

Constructed from durable nylon, the centre tube provides structural support and ensures uniform airflow through the silica gel for maximum moisture absorption.

2. Oil Mist Collector

Polyurethane foam captures oil mist and evenly distributes airflow over the filter media and moisture-absorbing silica gel, enhancing overall efficiency.

3. Secondary Filter Layer

An additional filtration stage prevents any migration of silica particles, adding an extra layer of protection for your system.

4. Moisture Absorbent Silica Gel

High-performance silica gel removes moisture effectively and can hold up to 40% of its own weight, keeping your equipment dry even during shutdowns.

5. Transparent Outer Shell

The ABS clear housing allows for quick visual inspection of the silica gel's condition, ensuring timely replacement and optimal maintenance intervals.

6. Air Intake Design

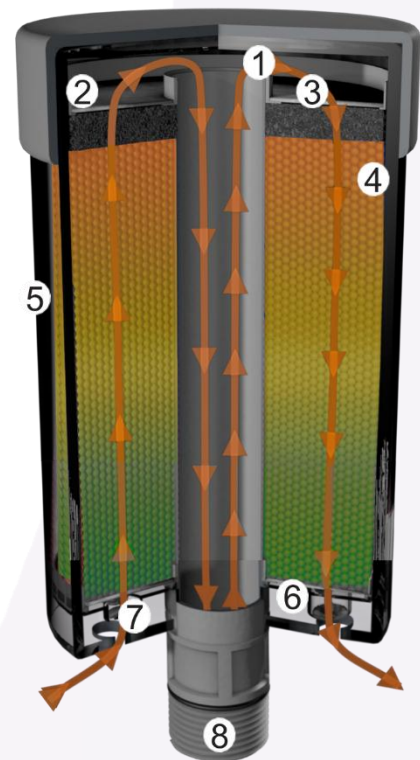
Intakes open according to airflow demands while providing moisture protection during shipping or storage.

7. Filter Media

1-micron absolute filtration is provided by durable polyester media, preventing fine particulates from entering the system.

8. Sure-Fit Connection

Designed for easy installation, the sure-fit connection replaces traditional filler or breather caps, with adapters available for added versatility.



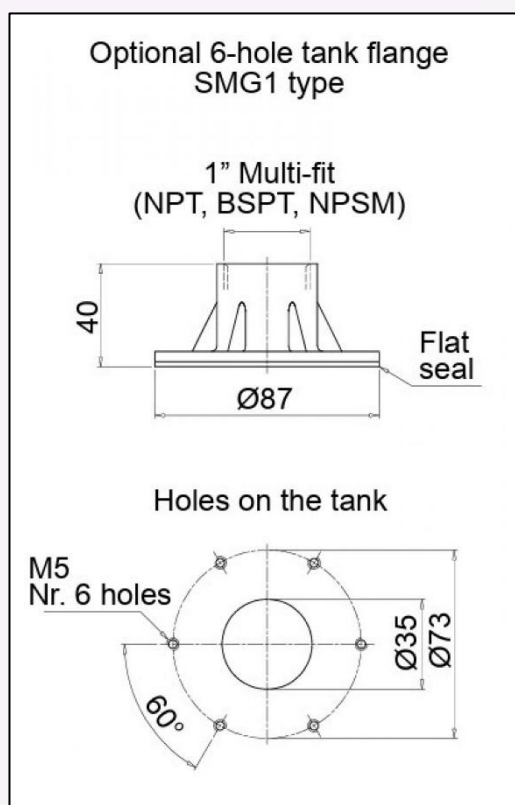
DATA SHEET

DIMENSIONS			
MODEL	CONNECTION	HEIGHT	WIDTH
ZH-DB-1	3/8" Sure-Fit (NPT, BSPP, BSPT)	142mm (5.59")	64.5mm (2.54")
ZH-DB-2	1" Sure-Fit (NPT, BSPP, NPSM)	155.2mm (6.11")	104.1mm (4.10")
ZH-DB-3	1" Sure-Fit (NPT, BSPP, NPSM)	210.3mm (8.28")	104.1mm (4.10")
ZH-DB-4	1" Sure-Fit (NPT, BSPP, NPSM)	263.7mm (10.38")	104.1mm (4.10")
SPECIFICATIONS			
MODEL	MOISTURE RETENTION	AIRFLOW	
ZH-DB-1	60 mL (2.0 fl oz)	198 L/m (7 f³/m)	
ZH-DB-2	142 mL (4.8 fl oz)	510 L/m (18 f³/m)	
ZH-DB-3	264 mL (8.9 fl oz)	510 L/m (18 f³/m)	
ZH-DB-4	424 mL (14.3 fl oz)	510 L/m (18 f³/m)	
OPERATING CONDITIONS MAY AFFECT MOISTURE RETENTION			

MATERIALS

BODY	ABS, Nylon, Polypropylene, Buna
ABSORBENT MEDIA	Silica Gel
FILTER	Polyester, Polyurethane
FILTER SIZE	1 Micron
OPERATING TEMPERATURE	-29°C-93°C (244K-366K)

Desiccant Breather Adapter Mount



DISCLAIMER:

Zeus Hydratech supplies desiccant air breathers manufactured by Todd Technologies Inc. All information, specifications, and performance data are provided by Todd Technologies Inc. and products are relabelled for sale under the Zeus Hydratech brand.

CONTACT US

We don't just pay lip service to 'customer satisfaction'. Everything we do at Zeus Hydratech is 100% customer focused. Our aim is to have a written quotation to our customers within 24 hours of receiving the enquiry.

Need help? Contact Us

+44 (0) 1172 130042

info@zeushydratech.com

sales@zeushydratech.com

Address

Zeus Hydratech
Unit 4
Old Mills Court
Paulton
Bristol BS39 7SW
United Kingdom

