

RESERVOIR ACCESSORIES

In this section there are a selection of accessories suitable for hydraulic oil reservoirs, specialising in removing moisture, reducing the likelihood of water contaminating oil. Feel free to call our filter specialist team for further application information.

If you need additional help selecting a suitable body please call the sales team.



AIR BREATHERS - D-AB DESICCANT FILTER AIR BREATHERS

Schroeder desiccant air breathers are designed to increase operational efficiency while reducing operating costs by protecting industrial systems from moisture and particle contaminants.

As fluid levels drop and pressure changes occur in a system, moist air is drawn through the breather. Air passes through a 2-micron solid contaminant filter and a diffuser to ensure maximum efficiency in the silica gel chamber. Water vapour in the air is absorbed by the silica gel before the dry air passes through a second 2-micron contaminant filter. The filtered air that enters the reservoir is void of moisture and contaminants.

FEATURES

Bi-directional air flow

As moist air flows through the breather's filtration system, it is cleaned of impurities and dried. Expelled air partially regenerates the silica gel and "backflushes" the particulate to prolong the life of the breather.

Durable Construction

The desiccant air breathers are manufactured from rugged ABS plastic and impact modified plexiglas.

Water Vapour Absorbent

Silica gel is chemically inert, non-toxic, non-deliquescent, non-corrosive and environmentally disposable. Its internal structure of interconnected microscopic pores absorbs up to 40% of its weight.

The operating temperature range is -29°C to 93°C (-20°F to 200°F).

Colour Indicator

As the gold silica gel absorbs water, it turns green to indicate that it has reached its functional capacity and that replacement of the breather is required.

Dual anti-static filter system

The solid contaminant filters are designed to reduce the potential for explosion in dusty environments.

Benefits

- /// Prevents rust and oxidation
- /// Minimises component wear and maintenance
- /// Curtails freezing and additive depletion
- /// Environmentally safe disposable silica gel

Applications

- /// Gear Boxes
- /// Hydraulic Reservoirs
- /// Storage Tanks

PRODUCT MATRIX - D-AB & R-AB SERIES

MODEL NUMBER	CONNECTION	NORMAL CAPACITY	AIR FLOW / PSI DROP	A (mm)	B (mm)	C (mm)
D-AB-2	.75" NPT Male	20 SCFM	2 psi at 20 SCFM	3.16 (80)	0.95 (24)	3.25 (83)
D-AB-2-F	2.25" SAE J829 Flange	20 SCFM	2 psi at 20 SCFM	3.16 (80)	Contact factory	3.25 (83)
D-AB-4	Adaptor options	35 SCFM	0.70 psi at 35 SCFM	8 (203)	1.75 (44)	0.75 (19)
D-AB-8	2" NPT Male	100 SCFM	Not available	10.0 (254)	1.75 (44)	5.0 (127)
R-AB-4	Adaptor options	35 SCFM	0.70 psi at 35 SCFM	10 (254)	3 (76)	1.50 (38)

D-AB DESICCANT FILTER AIR BREATHERS

Model Shown: D-AB-2



Model Number	D-AB-2
Features & Benefits	<ul style="list-style-type: none"> • Dual Anti-static Filter System • High water absorption capacity (up to 18.5 oz) • Long operating life and low maintenance costs
Air Flow / psi drop	2 psi at 20 SCFM
Connection	.75" NPT Male
Nominal Capacity	20 SCFM

Model Shown: D-AB-4



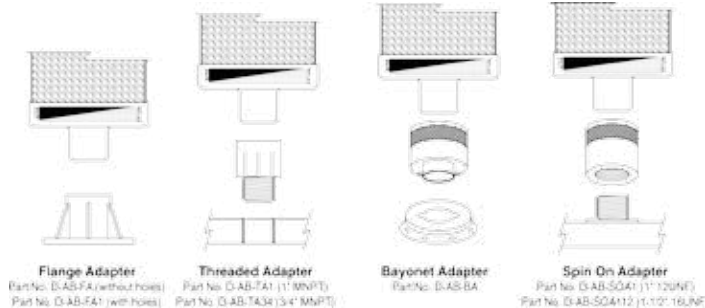
Model Number	D-AB-4
Features & Benefits	<ul style="list-style-type: none"> • Dual Anti-static Filter System • High water absorption capacity (up to 18.5 oz) • Long operating life and low maintenance costs
Air Flow / psi drop	0.70 Psi AT 35 SCFM
Connections	Contact us for more information (see below)
Nominal Capacity	35 SCFM

Call or email our sales team about the connections and the R-AB-4 model

Model Shown: D-AB-8



Model Number	D-AB-8
Features & Benefits	<ul style="list-style-type: none"> • Dual Anti-static Filter System • High water absorption capacity (up to 18.5 oz) • Long operating life and low maintenance costs
Air Flow / psi drop	Contact us for more details
Connections	2" NPT Male
Nominal Capacity	100 SCFM

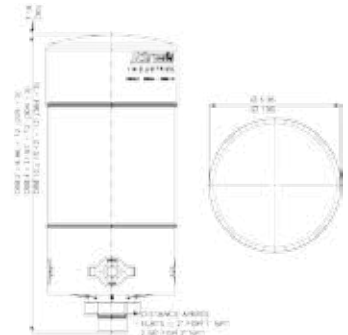


PRODUCT MATRIX - DBE SERIES

MODEL NUMBER	WATER RETENTION CAPACITY (GALLON)		OPTIMAL AIR FLOW RATE (SCFM)	MAX DRYING CAPACITY AT MEDIUM HUMIDITY (SCF)	MAX DRYING CAPACITY AT HIGH HUMIDITY (SCF)
	MAX	ACTUAL			
DBE-2	.06	.05	21	350	210
DBE-4	.13	.08	28	880	530
DBE-10	.20	.13	35	1450	880

DBE DESICCANT FILTER AIR BREATHER

The new breather dryer DBE (with extended service life) was mainly developed for wind industry applications. The special features of the filter are the two separated chambers storing two absorbent types with different water holding capacities and response behaviours. Four check valves can be integrated in the filter bottom in order to protect the absorbent material, avoiding saturation during system downtime. The dirt holding capacity of the filter is increased through the star-pleated air breather filter element. All included new features contribute to an extended lifetime of the breather dryer.



Model Shown: DBE-2



Model Number	DBE-2, DBE-4, DBE-10
Features & Benefits	<ul style="list-style-type: none"> • 2 stages of absorbent provide optimal combination of drying efficiency and water retention • Protection valves prevent absorbents being saturated during system downtime • Unique air flow design with suction tube as splash protection and protection against absorbent getting into the tank • Bypass valves divert out flow away from water removal media to preserve its life • Robust Zinc die-casting connection piece with integrated anti-splash baffles • Replacement cartridge available in 3 different sizes • Pleated particle air filter with 2µm filtration rating • Reusable base with protection (intake) and bypass (outflow)
Element Contamination Retention Capacity	Up to 1135 l/min for 150 SUS (32 cSt) fluids
Dimensions	See diagram on the right hand side
Operating Temperature	-29°C to 99°C (-20°F to 210°F)
Storage Temperature	-40°C (-40°F)
Temperature Range	-29°C to 107°C
Application	New and Retrofit Applications, Gear Boxes, Hydraulic Reservoirs and Wind Turbines

How to Build a Valid Model Number for Schroeder DBE

NOTE: ONE OPTION PER BOX

BOX 1 DBE	BOX 2 4	BOX 3 R	BOX 4 P	BOX 5 2	BOX 6 N	BOX 7 I	BOX 8 R.04	BOX 9 M	EQUALS DBE4RP2N1R.04
BOX 1 MODEL NUMBER DBE	BOX 2 SIZE 2 4 10	BOX 3 REPLACEMENT ELEMENT R Replaceable	BOX 4 CONNECTION TYPE P NPT B BSPT F Flange	BOX 5 FILTRATION RATING 2µ	BOX 6 GAUGE OPTIONS N None				
BOX 7 CONNECTION SIZE Omit Flange 1 1" 2 2" (NPT only)		BOX 8 CHECK VALVE OPTIONS Omit None R3 0.3 psi R.04 0.04 psi							

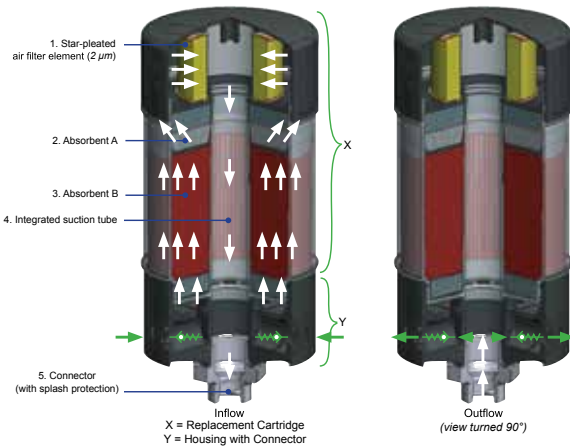
BASE ASSEMBLY ONLY

BOX 1 MODEL NUMBER DBE	BOX 2 CONNECTION TYPE P NPT B BSPT F Flange	BOX 3 CONNECTION SIZE Omit Flange 1 1" 2 2" (NPT only)	BOX 4 CHECK VALVE OPTIONS Omit None R3 0.3 psi R.04 0.04 psi
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REPLACEMENT CARTRIDGE ONLY

BOX 1 REPLACEMENT ELEMENT R Replaceable	BOX 2 MODEL NUMBER DBE	BOX 3 SIZE 2 4 10
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WORKING DIAGRAM



AIR BREATHERS - ABF SERIES WITH NPT ADAPTORS

Model Shown: ABF-3/10



MODEL	ABF-3/10
Features & Benefits	<ul style="list-style-type: none"> Durable metal housing Optional dipstick or filter strainer Large pleated surface areas offers high dirt holding and air flow capacity NPT or Flange adaptor available Available with three micron rating
Dimensions	Contact us for more information
Minimal micron retention	3µ
Nominal Capacity	40 SCFM
Air Flow / psi drop	0.4 psi at 20 SCFM - 1.25 psi at 40 SCFM
Application	Industrial & Automotive Manufacturing, Machine Tool, Mining Technology, Power Generation, Steel Making, Pulp & Paper, Agriculture & Mobile Vehicles

Model Shown: ABF-3/10-M-P12



MODEL	ABF-3/10-M-P-12
Features & Benefits	<ul style="list-style-type: none"> Durable metal housing Optional dipstick or filter strainer Large pleated surface areas offers high dirt holding and air flow capacity NPT or Flange adaptor available Available with three micron rating
Adaptor Type	SAE-Type Flange Adaptor
Minimal micron retention	3µ
Nominal Capacity	40 SCFM
Application	Industrial & Automotive Manufacturing, Machine Tool, Mining Technology, Power Generation, Steel Making, Pulp & Paper, Agriculture & Mobile Vehicles

AIR BREATHERS - ABF SERIES WITH FLANGE ADAPTORS

Model Shown: ABF-3/10-F



MODEL	ABF-3/10-F
Features & Benefits	<ul style="list-style-type: none"> Durable metal housing Optional dipstick or filter strainer Large pleated surface areas offers high dirt holding and air flow capacity NPT or Flange adaptor available Available with three micron rating
Adaptor Type	SAE-Type Flange Adaptor
Minimal micron retention	3µ
Nominal Capacity	40 SCFM
Application	Industrial & Automotive Manufacturing, Machine Tool, Mining Technology, Power Generation, Steel Making, Pulp & Paper, Agriculture & Mobile Vehicles