

Desiccant Breathers

LT.1021-51 · LT.1325-51

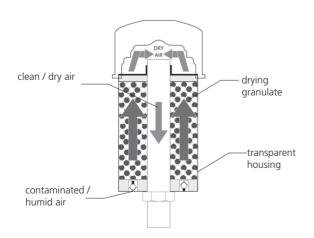
Connection up to G11/4 · Nominal flow rate up to 400 l/min / 105.7 gpm







Desiccant breather LT.1325-51



Description

Application

Desiccant breathers are mounted at tanks of hydraulic and lubrication systems in order to prevent humidity from entering the systems during ventilation.

General

Water in hydraulic and lubrication oils may have the following causes:

- > Environment humidity
- > Spray-water

Already small quantities of free water in oil can lead to acidification. Corrosion of surfaces can be the result. Due to water the oil characteristics change, e.g. decreased load-carrying capacity, reduced temperature resistance. In order to avoid economic damage, the oil must be protected against water.

Special features

Desiccant breathers prevent solid particles as well as humidity, snow, spray- or rainwater from entering. They may even be used in sea atmosphere without any problems. The filter consists of a vessel with drying granulate and an integrated ventilating filter.

Performance features

- Water abstraction from the humid air to maintain the lubrication effect and to prevent oxidation
- Color change of the granulate when the maximum water absorption capacity is reached

Maintenance

With color change of the granulate from red to orange or with clogged filter element.

Accessories

Additional humidity sensors for monitoring of the pressure fluid are available on request - LubCos humidity sensors dimensions and technical data see data sheet LubCos H_2O and LubCos H_2O + II.

Operation

The air flows via the in the bottom integrated valves into the desiccant breather, therein the humid air is first dried in drying granulate, then the solid particle contamination is removed by the 3 μ m fine ventilating filter.

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Characteristics

Nominal flow rate

400 l/min / 105.7 gpm

Connection

Outer thread according to

> ISO 228 or DIN 13.

Sizes see Selection Chart, column 9.

For installation recommendations, see info sheet 00.325.

Filter fineness

3 µm

Tested in a single pass test with ISO MTD

Pressure fluid

Mineral oils: H, HL, HLP, HVLP

Synthetic ester: HESS Polyalphaolefin: HEPR

Other oils on request.

Temperature range

- 40 °C ... + 90 °C / - 40 °F ... + 194 °F

Materials

[isd]

Housing: Styrene acrylonitrile (SAN)

Tank connection: Stainless steel
Ventilator housing: Steel, painted
Drying material: ZR gel (non-toxic)
Filter material: Glass fiber

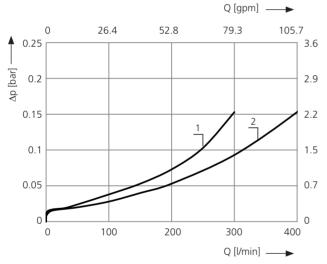
Mounting position

Preferably vertical, on top of the reservoir.

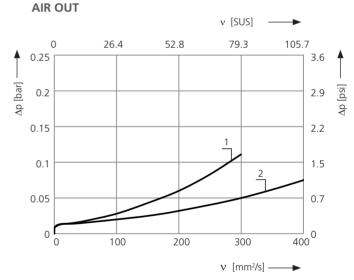
Diagrams

∆p-curves

Pressure drop as a function of the flow volume AIR IN



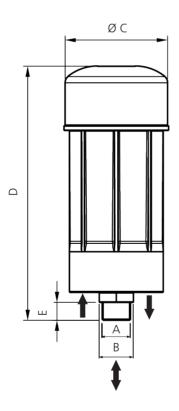
Pressure drop as a function of the flow volume



Soft No.	S. S	8 10 NO 10 10 10 10 10 10 10 10 10 10 10 10 10		ing ing	and we	id Co		M Republication of the second		ob luci	N. Regulation
		l/min	μm	cm ²	g	bar	bar			kg	
1	2	3	4	5	6	7	8	9	10	11	12
LT.1021-51	D1 /1	300	3	754	172	0,003	0,003	G¾"	1	1.5	-
LT.1325-51	D1 /2	400	3	2116	300	0,003	0,003	G1¼"	1	2.7	-
				!l- 2	II	:				II	
		gpm	μm	inch ²	lbs	psi	psi			lbs	
1	2	3	4	5	6	7	8	9	10	11	12
LT.1021-51	D1 /1	79.3	3	116.9	0,4	0,05	0,05	G¾"	1	3.3	-
LT.1325-51	D1 /2	105.7	3	328.0	0,7	0,05	0,05	G1¼"	1	6.0	-

Remark: The ventilating filters listed in this chart are standard filters. If modifications are required, we kindly ask for your request.

Dimensions

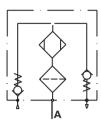


Measurements

Туре	Α	В	ØC		D		E	
		mm	mm	inch	mm	inch	mm	inch
LT.1021-51	G¾	AF 32	96	3.78	210	8.27	20	0.79
LT.1325-51	G1¼	AF 50	128	5.04	250	9.84	30	1.18

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Spare Parts



LT.1021-51

Pos.	Designation	Spare Part No.
1	Drying granulate	X9.1021-01 (delivered as refill)
2	Ventilating filter	X9.1021-21 incl. seal

LT.1325-51

Pos.	Designation	Spare Part No.
1	Drying granulate	X9.1325-01 (delivered as refill)
2	Ventilating filter	X9.1325-21 incl. seal

The functions of the complete filters as well as the outstanding features of the filter elements assured by ARGO-HYTOS can only be guaranteed if original ARGO-HYTOS spare parts are used.

Quality Assurance

Quality management according to DIN EN ISO 9001

To ensure constant quality in production and operation, ARGO-HYTOS filter elements undergo strict controls and tests according to the following ISO standards:

150 2941	verification of collapse / burst pressure rating
ISO 2942	Verification of fabrication integrity (Bubble Point Test)
ISO 2943	Verification of material compatibility with fluids
ISO 3968	Evaluation of pressure drop versus flow characteristics
ISO 16889	Multi-Pass-Test (evaluation of filter fineness and dirt-holding capacity)
ISO 23181	Determination of resistance to flow fatigue using high viscosity fluid

Various quality controls during the production process guarantee the leakfree function and solidity of our filters.

Illustrations may sometimes differ from the original. ARGO-HYTOS is not responsible for any unintentional mistake in this specification sheet.