



FBD SERIES

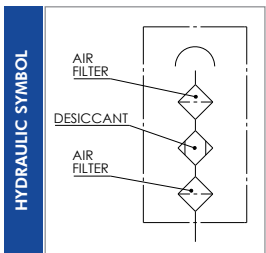
Desiccant Breathers

FBD desiccant breathers are an alternative to standard breathers and dust caps. They are the perfect way to protect your equipment from dirt, dust, and moisture. Our breathers combine the filtration of solid particles and the absorption of humidity in a single unit, providing complete protection for your equipment. The layered filter media prevents solid contamination from entering the equipment reservoir, while the desiccant agent, composed of silica gel beads, absorbs and retains moisture from the air. The equipment is kept dry by the same desiccant agent, regardless of whether it is in operation or shut down, ensuring maximum efficiency and durability. Our breathers are designed to be easy to install directly on the reservoir. FBD desiccant breathers extend the life of the equipment, resulting in lower operating costs. The optional check-valves are ideal for low-flow and intermittent operations in high humidity conditions.

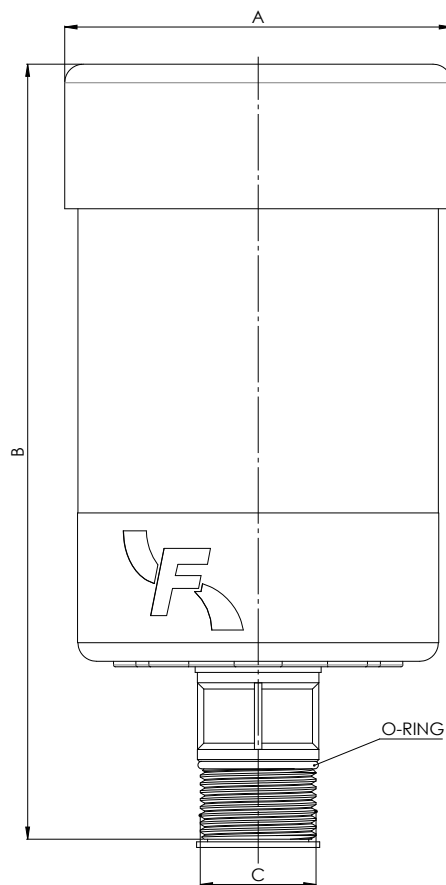


TECHNICAL SPECIFICATION

MATERIALS:	Cover:	Polycarbonate
	Shell:	Polycarbonate
	Center Tube:	Nylon
	Humidity Absorbent:	Silica gel
	Oil Mist Collector:	Polyurethane
	Filter media:	Glassfiber
	Check Valve:	Silicone
FILTER EFFICIENCY:	Air filtration 1µm absolute	
TEMPERATURE RANGE:	-30°C to +90°C	
CONNECTION THREAT:	G 3/8" G 1" (Multi-fits NPT, BSP or BSPP threads)	
FLUID COMPATIBILITY:	Full with HH-HL-HM-HV HETG-HEES (acc. to ISO 6743/4). For use with other fluid please contact Filtrec Customer Service (info@filtrec.it).	



OVERALL DIMENSIONS



NOMINAL SIZE

MODEL	A	B	C*
FBD 10	Ø64	105	G 3/8"
FBD 11		147	
FBD 20	Ø104	155	G 1"
FBD 21		210	
FBD 22		264	

*Multi-fit BSPP, BSP, NPT threads

ORDERING INFORMATION

1.	2.	3.	4.	5.	6.
FBD	20	P01	PB5	S	0

1. SERIES	FBD	
2. SIZE	10-11 20-21-22	
3. FILTER MEDIA	P01	glassfiber (air filtration 1µm absolute)
4. CONNECTION	B2	G 3/8" (only for size 10-11)
fits BSPP, BSP, NPT threads	B5	G 1" (only for size 20-21-22)
5. CONFIGURATION	S	standard
	C	check-valve
6. OPTION	0	no option

ACCESSORIES

The accessories must be ordered separately

06.021.00519	Flange adapter kit
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06.021.00520	Flange adapter + metal basket kit
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FLANGE ADAPTER KIT



**METAL BASKET +
FLANGE ADAPTER KIT**



IMPORTANT INFORMATION FOR INSTALLATION

Desiccant breathers are shipped with all holes plugged to protect them from atmospheric agents during storage and shipping. Remove the protective sealing sticker before use:

CODE	Max Air flow* [l/min]	
	Version "S" (without check - valve)	Version "C" (with check - valve)
FBD10-11	200	140
FBD20-21-22	500	280

* at 69 mbar/1PSID

CODE	Max Moisture Retention [ml]	
	Version "S" (without check - valve)	Version "C" (with check - valve)
FBD10	30	
FBD11	60	
FBD20	140	
FBD21	265	
FBD22	425	

CONFIGURATION OPTIONS

VERSION S

Version "S" without sealing sticker



VERSION C

Version "C" without sealing sticker



The figure illustrates the **standard supply configuration** with sealing sticker.

MAINTENANCE AND DISPOSAL



ACTIVE



REPLACE

A green desiccant breather indicates that the silica gel has reached moisture saturation and the breather should be replaced.

When the color changes from orange to green, it's time to replace it with a new one. All desiccant breathers should be replaced at least once a year.

Dispose of according to local regulations.

CASE 1



Under normal operating conditions in humid environments, the orange silica gel progressively turns green from bottom to top, as illustrated in the reference image.

CASE 2



Conversely, if the silica gel begins to change from orange to green from the top downward, unlike the condition illustrated in the previous image, this is a strong indication of excessive moisture ingress into the system and should be investigated promptly.

GENERAL INFORMATION

Recommended shelf-life and storage conditions

To preserve the quality and performances of its products, Filtrec recommends the following storage conditions:

- a proper storage of the filters / filter elements taking care to not damage / remove the original Filtrec packaging
- the packaging of our filters / filter elements ensures suitable protection and preserve performances
- storing Filtrec products in a covered or closed places, without sudden changes in temperature and humidity combined with the integrity of the original packaging, guarantee a shelf life of the filters / filter elements of up to 5 years

