



FTP BL Series

FRP/GRP Boltless Filter Housings

Compact boltless solution
for a wide range of applications



Introduction

In the quest to develop heavy duty equipment for the Industry's most demanding applications, Fluytec has combined Glass-fiber Reinforced Polyester (FRP/GRP) vessels with a Proprietary Boltless Opening. As a result, Fluytec has created a unique Quick Opening and fully **Non-Corrosive** filter.

General Description

The Boltless filters are designed and manufactured according to the **Ad-Merkblatt (AD2000)** design code. Design pressure is **10 Bar** for all these models, and the Hydrostatic Tests are performed at 14,3 Bar.

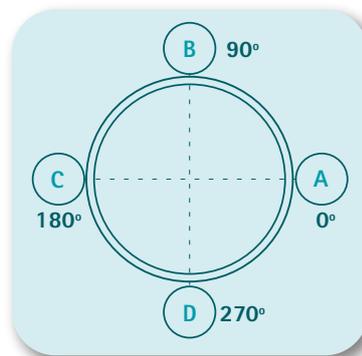
All the filter's components have been minutely selected for Heavy Duty applications:

- Vessels / Shells are manufactured in **GRP** with an **Internal Chemical Barrier** for extreme pH applications. Therefore, this standardized product family is perfectly suitable for **CIP (Cleaning in Place)** processes.
- As default, all these standard models are painted with a twin component paint, and **UV protected** for Outdoor Installations.
- All **internal parts** in contact with the fluid are **non-metallic or suitably plasticized**.

The type of closure is a **Boltless Quick Opening** system, where the sealing is obtained through an O-ring gasket and the resistant plate (FRP/GRP) is fastened to the

vessel via thermoplastic sectors. The absence of bolts means no corrosion and fast cartridge replacement.

Relative orientation for inlet/outlet connections customized* for each filter



*Not available option for stocked equipment

Advantages

- Full Corrosion Resistance for a wide range of applications.
- UV protection for Outdoor Installations.
- Standard 10 Bar design pressure covers a wide range of services.
- Quick and Easy cartridge replacements.

Standard Materials of Construction

Shell: FRP/GRP

False Bottom Plate: FRP/GRP

Internal parts: Thermoplastic materials (PVC, PP, PA, or Similar)

Internal finishing: Internal Chemical Barrier of Vinyl-Ester Resin

External finishing: Twin component paint with UV protection + Top coat



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With 7 to 70 cartridges.

- 7 FTP BL.
- 12 FTP BL.
- 20 FTP BL.
- 35 FTP BL.
- 50 FTP BL.
- 70 FTP BL.



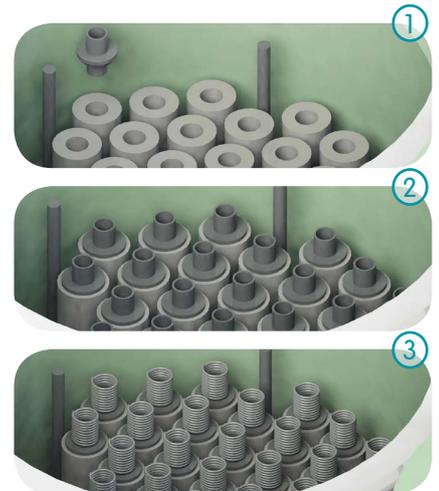
Cartridge installation

Standard design for these Filter housings is Traditional System with DOE elements*, in which, and in order to assure reliable water tightness in the cartridge fixing, they are placed in the following way:

In the lower part, the cartridge is settled in the false bottom plate, guided by a guide tube and a circular knife edge that remains incrustrated in the cartridge - **Figure 1** -.

In the upper part a special piece, designed by Fluytec and called "nipple" is connected, assuring their water tightness with a plastic coated spring that presses that "nipple" against the closure plate - **Figures 2 and 3** -.

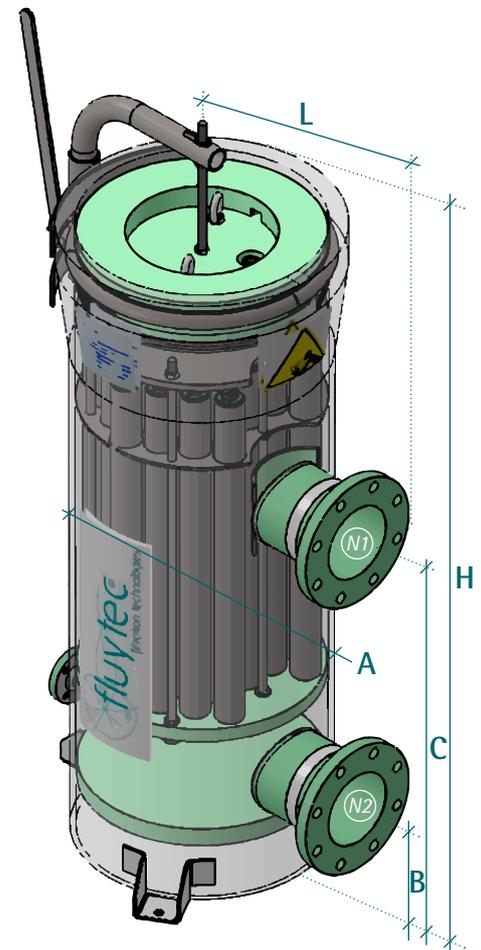
*Other options available upon request.

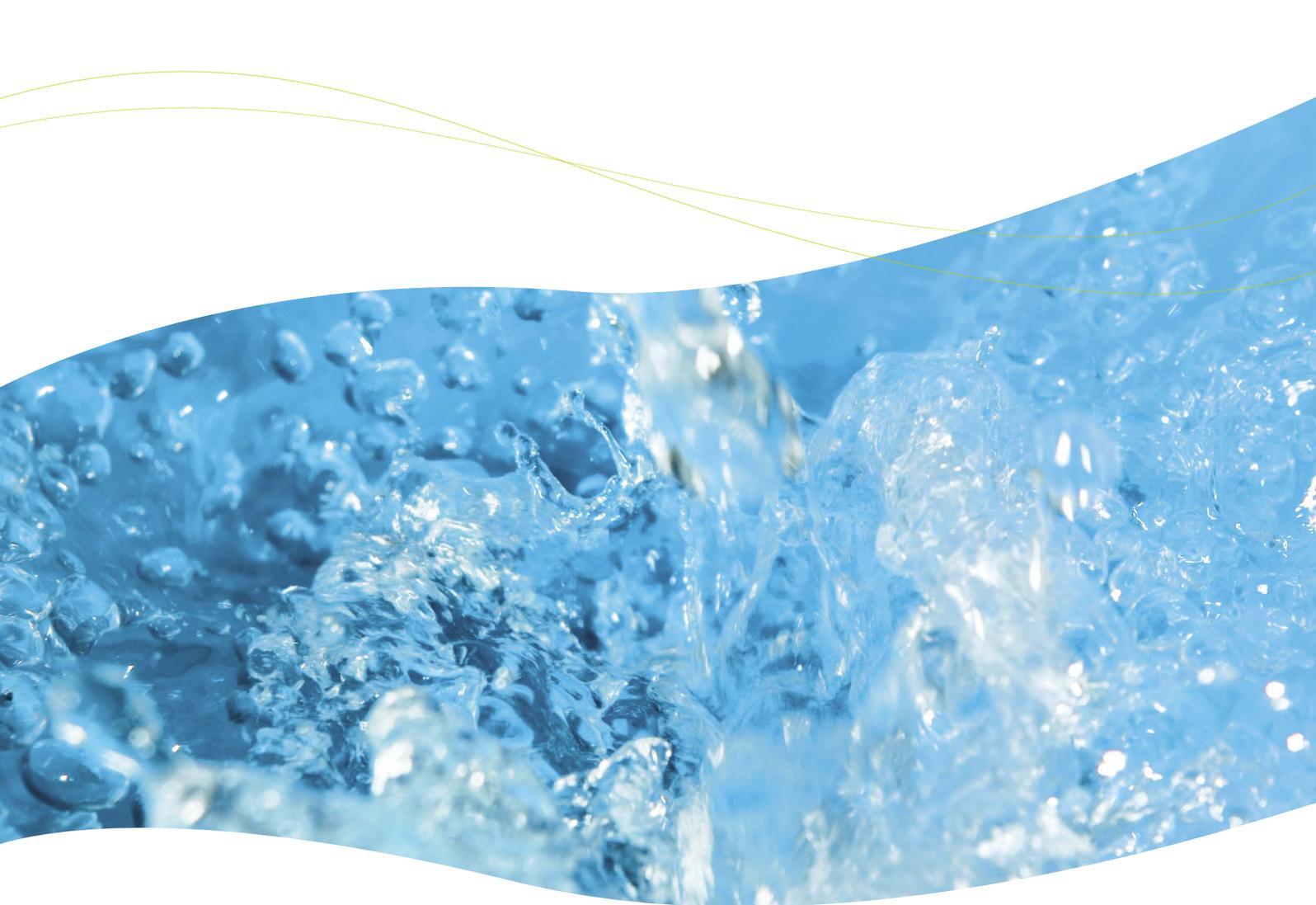


Options

Model	A DN	B	C	H	L	N1/N2 DN	Qdesign m³/hour	No. cartridges	L cartridges
7 FTP-3 BL	250	250	892	1,400	275	80	14	7	762 (30")
7 FTP-4 BL	250	250	1,146	1,650	275	80	19	7	1,016 (40")
7 FTP-5 BL	250	250	1,400	1,905	275	80	23	7	1,270 (50")
12 FTP-3 BL	300	250	892	1,400	320	100	24	12	762 (30")
12 FTP-4 BL	300	250	1,146	1,650	320	100	32	12	1,016 (40")
12 FTP-5 BL	300	250	1,400	1,905	320	100	39	12	1,270 (50")
20 FTP-3 BL	400	250	892	1,450	360	100	39	20	762 (30")
20 FTP-4 BL	400	250	1,146	1,690	360	100	52	20	1,016 (40")
20 FTP-5 BL	400	250	1,400	1,935	360	100	65	20	1,270 (50")
35 FTP-3 BL	500	250	892	1,450	430	150	69	35	762 (30")
35 FTP-4 BL	500	250	1,146	1,690	430	150	91	35	1,016 (40")
35 FTP-5 BL	500	250	1,400	1,935	430	150	114	35	1,270 (50")
50 FTP-3 BL	600	285	892	1,530	480	150	98	50	762 (30")
50 FTP-4 BL	600	285	1,146	1,770	480	150	130	50	1,016 (40")
50 FTP-5 BL	600	285	1,400	2,020	480	200	163	50	1,270 (50")
70 FTP-3 BL	700	285	892	1,530	550	200	137	70	762 (30")
70 FTP-4 BL	700	285	1,146	1,770	550	200	182	70	1,016 (40")
70 FTP-5 BL	700	285	1,400	2,020	550	200	228	70	1,270 (50")

- Measurements in mm (inches).
- Measurements for a design pressure of 10 bar. Other measurements/flows to order.
- Design flows calculated for a flow rate of aprox. 0.65 m³/h for every 10" of cartridge.





Subject to change without notice.

Other products in this range:

- FTP Series Cartridge Filters (GRP)
- FTI Series Cartridge Filters (SS, CS)
- FTPV Series Cartridge Filters (PVC)
- ...

Fluytec solutions worldwide



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