

# Automatic Backflush-Filter MODEL DELTA-BFF-250 For Hydrous Media

The DELTA-BFF is a logic, cost-efficient and environmental-protecting way of filtration. DELTA-BFF is the trade name of DELTAFILTER Filtrationssysteme GmbH.

- No filter cartridge disposal.
- Self-cleaning routine without interrupting operation on reaching the permitted differential pressure through automatic reversal of filter cartridges or manually by hand control with the filtered medium.
- No moving parts within the filter system resulting in low operating costs due to long service life.
- Full cross-section for drainage of flushing medium resulting in short flushing times and less loss of medium.
- Simple and time-saving maintenance. Filter cartridges can be removed without dismantling of the filter housing.
- Universal connections through variable positions for inlet and outlet as well as for dirt drain.
- Filtration ratings from 50 µm nominal up.
- Control and monitoring of individual functions through a PLC (programmable logic controller).
- Individual functions and/or causes of malfunction displayed through indicator light on control cabinet.
- Passive contacts for remote transfer in the event of malfunction.



Backflush-Filter type DELTA-BFF-250  
stainless steel 1.4571, 10 bar

## OPTIONAL

- TÜV acceptance, special materials etc.
- Reversal by foreign medium possible (e.g. on depressurised drainage of filtered medium). As an option, the control can be enhanced and the filter supplied with the required valves.

## Examples of industrial applications:

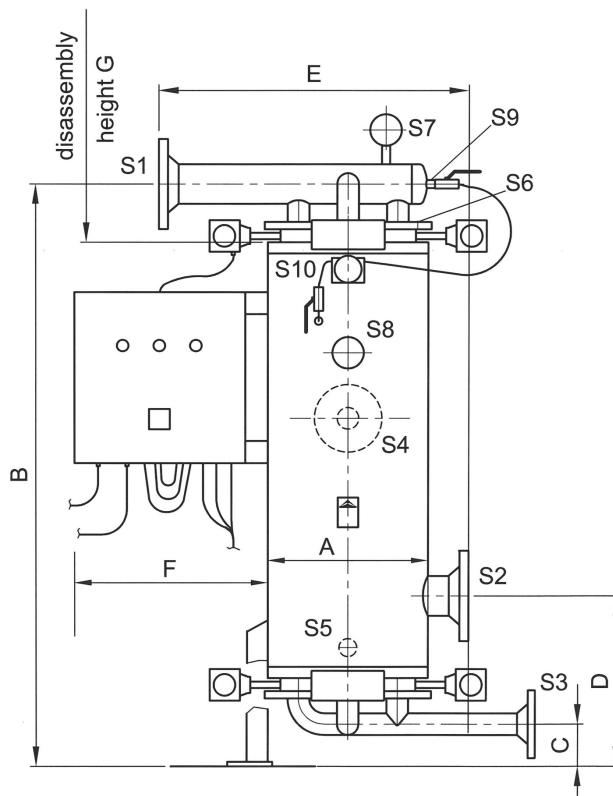
Steel industry	Automotive industry	Clarification plant operators
Metal industry	Chemical industry	Cosmetic industry
Mineral oil industry	Electronics industry	Plastics industry
Optics industry	Dye and paint industry	Food industry
Paper industry	Beverage industry	Leather industry
Tanneries	Aeronautics industry	Water utility companies etc.

Please take care of the product description and technical details on the back ►

## Product Description

Three-piece, autonomous filter system with an inlet register removable from the top, cylindrical filter housing and a flushing register removable from the bottom. Several type STBFF backwashable filter cartridges are fitted into the filter housing for the filtration process. Cartridges are backwashed automatically through the overpressure of the filtered medium, without interruption to the filter operation and reversal is triggered by the switching point set on the differential pressure indicator. This filter system is also available with manual valve operation. Dirt is removed from the filter cartridges through the reversal process and quickly discharged through the full cross-section by the flushing register. This key benefit results in short flushing times and low flushing medium consumption. The hydraulic conditions required for this process are created by valves. These valves are hand-operated or controlled by a PLC. In the case of automatic filters, the valves are actuated by pneumatic rotating drives. This filter system from DELTAFILTER Filtrationssysteme GmbH is extremely robust and designed for extreme operating conditions. If necessary, filter cartridges can be replaced without special tools and without dismantling of the filter housing. The filter housing is supplied with 4 feet.

## Type DELTA-BFF-250



Design and calculations:	PED 2014/68/EU, AD2000-regulation <sup>1</sup>
Filter housing material:	stainless steel 1.4571 <sup>1,2</sup>
Filter cartridge material:	1.4404/1.4435/1.4571 <sup>1</sup>
Register:	stainless steel 1.4571 <sup>1,2</sup>
Valve housing:	cast iron GG25, coated with Rilsan <sup>1</sup>
Collar:	EPDM <sup>1</sup>
Washer and shaft:	stainless steel 1.4408/1.4021 <sup>1</sup>
Max. allowable pressure:	10 bar <sup>1</sup>
Max. allowable temperature:	80°C <sup>1</sup>
Seals:	O-rings of FPM <sup>1</sup>
Filtration ratings nominal:	50 to 500 µm <sup>3</sup>
Electrical connection value:	400 V, 50 Hz, 750 W <sup>1</sup>
Control air:	compressed air 6 – 8 bar <sup>4</sup>
Protection for control cabinet:	IP54 <sup>1</sup>

type	BFF-250
Flow capacity in m³/h for 50 µm nominal	130 m³/h
Flow capacity in m³/h for 100 µm nominal and larger	250 m³/h
Inlet S1	Flange DN150 <sup>5</sup> , PN16, B1
Outlet S2	Flange DN150 <sup>5</sup> , PN16, B1
Discharge S3	Flange DN80, PN16, B1
Flushing nozzle S4 for foreign fluid optionally	Flange DN80, PN16, B1
Drain S5	socket 1" BSP with ball valve
Ventilation S6	socket 3/8" BSP with ball valve
Manometer S7/S8	socket 1/4" BSP
Differential pressure S9/S10	socket 1/4" BSP
Measure A in mm	Ø 508
Measure B in mm	1354
Measure C in mm	128
Measure D in mm	545
Measure E in mm	900
Measure F in mm	ca. 650
Disassembly G height in mm	ca. 870
Weight in kg - empty	ca.350

- <sup>1</sup> optional other materials, designs, pressures, temperatures, coatings, voltages, protections etc.
- <sup>2</sup> surface pickled and passivated
- <sup>3</sup> filter rates smaller than 50 µm must be tested in a trial
- <sup>4</sup> compressed air clean and dry
- <sup>5</sup> optional DN100, DN125 and DN200

Illustrations, dimensions and weights are reference values only.

We will prepare a detailed quotation for the individual types on request. Testfilters are available.