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.

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

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

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

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

Illustrations, dimensions and weights are reference values only.

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

07/16 - Technical changes reserved!