DANGO & DIENENTHAL
Incorporated

World of Filtration
DANGO & DIENENTHAL has been a reliable partner for the filtration of liquids in nearly all ranges of industry for about 70 years. Then and now, our customers’ steadily increasing requirements have stimulated our enthusiasm for innovation. Qualified engineers and modern production also ensure continuous development of our product range.

Filters are always individually dimensioned for the given operating conditions. This results in satisfied customers.

Our filter systems are especially appreciated by long-standing clients because of:

- reliable filtration of solids
- trouble-free operation
- minimal cost of operation and maintenance

Our “Made in Germany” filters meet a very high performance and quality standard.

In the following you will find a short description of our automatic and manual filter systems for solid/liquid separation.
The New Definition of Purity for Your Medium

Our Filter Systems Protect:

- Cooling Water
- River Water
- Sea Water and Ballast Water
- Sinter and Scale Separation
- Emulsions
- Process Water
- Oils
- Mussel / Mussel Larvae Separation
- Plate Heat Exchangers
- Spray Nozzles
- Piping Systems
- Mechanical Seals
- Pumps
- Micro Filtration
The Filterautomat is distinguished by an extremely robust design and an excellent backflushing performance. The complete filter area is cleaned by a rotating filter drum.

Legend

- Inline Design
- Continuous Filtration
- High-Speed Cleaning
- 100% Cleaning of the Filter Element
- Fine Filtration Possible
- Low Wear, Without Moving Parts
- Energy-Saving Operation

Filterautomat (DDF)

- Good, better, DDF

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>20 gpm to 46,200 gpm</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>≥ 5 microns</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>12 to 900 psi</td>
</tr>
<tr>
<td>Flange size</td>
<td>2&quot; to 40&quot;</td>
</tr>
<tr>
<td>Automatic backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>cast iron, steel, stainless steel</td>
</tr>
</tbody>
</table>
Successful technology in new design
The Backwash Drum Filter is based on the Filterautomat’s filtration and backwash principle. However, a more individual choice of materials for more demanding mediums can be realized.

**Backwash Drum Filter (RTF)**

- **flow rate**: 20 gpm to 17,500 gpm
- **filter fineness**: ≥ 5 microns
- **operating pressure**: 22 to 900 psi
- **flange size**: 2" to 40"
- **automatic backwash**: ✓
- **filter housing**: steel, stainless steel, glass fiber reinforced plastic (GRP)

**Backwash Drum Filter S (RTF-S)**

- **flow rate**: 12 gpm to 440 gpm
- **filter fineness**: ≥ 5 microns
- **operating pressure**: 22 to 900 psi
- **flange size**: 2" to 4"
- **automatic backwash**: ✓
- **filter housing**: steel, stainless steel, glass fiber reinforced plastic (GRP)
Filtration in any position

Inline filter without moving inner parts. The patented design allows for nearly all materials, flow rates, and mounting positions.

Jet Filter (JET)

- Flow rate: 4 gpm to 110,000 gpm
- Filter fineness: ≥ 50 microns
- Operating pressure: 22 to 900 psi
- Flange size: 2" to 120"
- Manual/automatic backwash: ✓
- Filter housing: steel, stainless steel, plastic, glass fiber reinforced plastic (GRP)

Jet Filter S (JET-S)

- Flow rate: 4 gpm to 110 gpm
- Filter fineness: ≥ 50 microns
- Operating pressure: 22 to 145 psi
- Threaded connection: R 2"
- Manual/automatic backwash: ✓
- Filter housing: stainless steel, plastic

Small and fine

More compact, ready-mounted backwash filter for low flow rates. Universally applicable for practically all application areas.
Spinning around

A turbo disc in the filter inlet makes the volume flow rotate. Particles are thus separated by centrifugal forces.

Separator (SPR)

<table>
<thead>
<tr>
<th>Feature</th>
<th>SPR Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>8 gpm to 1,100 gpm</td>
</tr>
<tr>
<td>Filter Fineness</td>
<td>≥ 5 microns</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>29 to 900 psi</td>
</tr>
<tr>
<td>Flange Size</td>
<td>2” to 8”</td>
</tr>
<tr>
<td>Filter Housing</td>
<td>Steel, stainless steel, plastic</td>
</tr>
</tbody>
</table>

Multi-Separator (M)

<table>
<thead>
<tr>
<th>Feature</th>
<th>M Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>880 gpm to 13,000 gpm</td>
</tr>
<tr>
<td>Filter Fineness</td>
<td>≥ 5 microns</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>29 to 900 psi</td>
</tr>
<tr>
<td>Flange Size</td>
<td>6” to 28”</td>
</tr>
<tr>
<td>Filter Housing</td>
<td>Steel, stainless steel</td>
</tr>
</tbody>
</table>

Well packaged

The housing of the Multi-Separator integrates several Separators. Therefore larger flow rates can be effectively filtered.
Quite simple

Manual Filter, which separates particles from the volume flow with a filter basket. The volume flow has to be interrupted for cleaning the filter.

One on standby

A switch-over unit enables one filter to be in operation, while the other is on standby. This allows continuous operation without interruption for cleaning.

**Single Filter (EF)**

- **flow rate**: 20 gpm to 44,000 gpm
- **filter fineness**: $\geq$ 10 microns
- **operating pressure**: 0 to 900 psi
- **flange size**: 1/2" to 40"
- **manual backwash**: ✓
- **filter housing**: cast iron, steel, stainless steel, glass fiber reinforced plastic (GRP)

**Duplex Filter (DF)**

- **flow rate**: 20 gpm to 44,000 gpm
- **filter fineness**: $\geq$ 10 microns
- **operating pressure**: 0 to 900 psi
- **flange size**: 1/2" to 20"
- **manual backwash**: ✓
- **filter housing**: cast iron, steel, stainless steel
### Bag Filter (EFBS)

**Everything in a bag**

Manual Filter with a filter bag made of different materials, e.g. nylon or needle-felt. A large filtration area and a filtration fineness of $\geq 1 \, \mu m$ characterize this filter.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>0 gpm to 250 gpm</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>$\geq 1 , \mu m$</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>0 to 900 psi</td>
</tr>
<tr>
<td>Flange size</td>
<td>2&quot; to 4&quot;</td>
</tr>
<tr>
<td>Manual backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>Steel, stainless steel</td>
</tr>
</tbody>
</table>

### Multi-Bag Filter (EFBM)

**Extensive filtration area**

In the Multi-Bag Filter several filter bags are integrated in the housing. This allows for higher flow rates or longer operating time.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>265 gpm to 1,585 gpm</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>$\geq 1 , \mu m$</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>0 to 900 psi</td>
</tr>
<tr>
<td>Flange size</td>
<td>4&quot; to 20&quot;</td>
</tr>
<tr>
<td>Manual backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>Steel, stainless steel</td>
</tr>
</tbody>
</table>
**Smart Solutions – Down to the Last Detail**

**Plate Filter (PLF)**

**Powerful coarse filtration**
Massive inline filter with diagonally positioned sieve plate. Manual or automatic backwashing is optionally available.

- **flow rate**: 20 gpm to 11,000 gpm
- **filter fineness**: ≥ 500 microns
- **operating pressure**: 4.5 to 630 psi
- **flange size**: 3” to 20”
- **manual/automatic backwash**: ✓
- **filter housing**: cast iron, glass fiber reinforced plastic (GRP)

**Sludge Dewatering Device (SCHLAMMCON)**

**Completely different**
Coarse particles are retained inside the Schlammcon by a box-type filter fleece. The bottom of the Schlammcon can be opened for disposal of the filter fleece including contents very simply. This system can also be combined with our automatic filters.

- **volume**: 265 gal
- **filter fineness**: ≥ 5 microns
- **manual exchange**: ✓
- **filter housing**: steel, stainless steel
Combi Filter (DCF)

Safe in combination

The Combi Filter is a combination of Separator and Cartridge Filter. In the first step coarse particles are separated by centrifugal forces. In the next step filter elements remove the fine parts from the volume flow.

Backflushing Cartridge Filter (RKF)

Great!

The principal item in the Backflushing Cartridge Filter is a rotary disc, in which the filter cartridges are integrated. This design is applicable for large flow rates because the cartridges are automatically cleaned one after the other.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Combi Filter (DCF)</th>
<th>Backflushing Cartridge Filter (RKF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>20 gpm to 8,800 gpm</td>
<td>8,800 gpm to 44,000 gpm</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>≥ 30 microns</td>
<td>≥ 50 microns</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>29 to 360 psi</td>
<td>22 to 360 psi</td>
</tr>
<tr>
<td>Flange size</td>
<td>2&quot; to 28&quot;</td>
<td>3&quot; to 72&quot;</td>
</tr>
<tr>
<td>Automatic backwash</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>Steel, stainless steel</td>
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</tr>
</tbody>
</table>
Products

Automatic Filters
- Filterautomat
- Backwash Drum Filter
- Backwash Drum Filter S
- JET Filter
- JET Filter S
- Plate Filter

Hydrocyclones
- Separator
- Multi-Separator

Manual Filters
- Single Filter
- Duplex Filter
- Bag Filter
- Multi-Bag Filter
- Sludge Dewatering Device

Miscellaneous
- Backflushing Cartridge Filter
- Combi Filter