World of Filtration
DanGO & DiEnEntHal has been a reliable partner for the filtration of liquids in nearly all ranges of industry for about 75 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
Continuous Filtration – Day and Night

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

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.

- flow rate: 5 m³/h to 10,500 m³/h
- filter fineness: ≥ 5 µm
- operating pressure: 0.8 to 63 bar
- flange: DN 50 to DN 1000
- automatic backwash: ✓
- filter housing: cast iron, steel, stainless steel
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**: 80 m³/h to 4,000 m³/h
- **filter fineness**: ≥ 5 µm
- **operating pressure**: 1.5 to 63 bar
- **flange**: DN 100 to DN 1000
- **automatic backwash**: ✓
- **filter housing**: steel, stainless steel, GRP

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Successful technology in new design

The Backwash Drum Filter S is distinguished by an excellent backwash performance and a compact design. An individual choice of materials for more demanding mediums can be realized.

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

- **flow rate**: 3 m³/h to 100 m³/h
- **filter fineness**: ≥ 5 µm
- **operating pressure**: 1.5 to 63 bar
- **flange**: DN 40 to DN 100
- **automatic backwash**: ✓
- **filter housing**: steel, stainless steel, GRP
### JET Filter (JET)

Filtration in any position

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>JET Filter (JET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>1 m³/h to 25,000 m³/h</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>$\geq 50 \mu$m, $\leq 5$ mm</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>1.5 to 63 bar</td>
</tr>
<tr>
<td>Flange</td>
<td>DN 50 to DN 3000</td>
</tr>
<tr>
<td>Manual/Automatic backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>Steel, stainless steel, plastic, glass-fibre-reinforced plastic (GRP)</td>
</tr>
</tbody>
</table>

### JET Filter S (JET-S)

Small and fine

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>JET Filter S (JET-S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>1 m³/h to 25 m³/h</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>$\geq 50 \mu$m</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>1.5 to 10 bar</td>
</tr>
<tr>
<td>Threaded connection</td>
<td>R 2”</td>
</tr>
<tr>
<td>Automatic/Mechanical backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>Stainless steel, plastic</td>
</tr>
</tbody>
</table>
### Separator (SPR)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>2 m³/h to 250 m³/h</td>
</tr>
<tr>
<td>Filter Fineness</td>
<td>≥ 5 µm</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>2 to 63 bar</td>
</tr>
<tr>
<td>Flange</td>
<td>DN 50 to DN 200</td>
</tr>
<tr>
<td>Filter Housing</td>
<td>Steel, stainless steel, plastic</td>
</tr>
</tbody>
</table>

**Spinning around**

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

### Multi-Separator (M)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>120 m³/h to 3,000 m³/h</td>
</tr>
<tr>
<td>Filter Fineness</td>
<td>≥ 5 µm</td>
</tr>
<tr>
<td>Operation Pressure</td>
<td>2 to 63 bar</td>
</tr>
<tr>
<td>Flange</td>
<td>DN 150 to DN 700</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.
**Single Filter (EF)**

- **Flow rate**: 5 m³/h to 10,000 m³/h
- **Filter fineness**: ≥ 10 µm
- **Operating pressure**: 0 to 63 bar
- **Flange**: DN 15 to DN 1000
- **Manual backwash**: ✓
- **Filter housing**: Cast iron, steel, stainless steel, glass-fibre-reinforced plastic (GRP), plastic

**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.

**Duplex Filter (DF)**

- **Flow rate**: 5 m³/h to 10,000 m³/h
- **Filter fineness**: ≥ 10 µm
- **Operating pressure**: 0 to 63 bar
- **Flange**: DN 15 to DN 500
- **Manual backwash**: ✓
- **Filter housing**: Cast iron, steel, stainless steel, glass-fibre-reinforced plastic (GRP), plastic

**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.
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.

**flow rate**: 0 m³/h to 60 m³/h
**filter fineness**: $\geq 1 \, \mu m$
**operating pressure**: 0 to 63 bar
**flange**: DN 50 to DN 100
**manual backwash**: ✓
**filter housing**: steel, stainless steel, plastic

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.

**flow rate**: 60 m³/h to 360 m³/h
**filter fineness**: $\geq 1 \, \mu m$
**operating pressure**: 0 to 63 bar
**flange**: DN 100 to DN 500
**manual backwash**: ✓
**filter housing**: steel, stainless steel, glass-fibre-reinforced plastic (GRP), plastic
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: 5 m³/h to 2,500 m³/h
- filter fineness: ≥ 500 µm
- operating pressure: 0.3 to 25 bar
- flange: DN 80 to DN 500
- manual/automatic backwash: ✓
- filter housing: cast iron, glass-fibre-reinforced plastic (GRP)

Sludge Dewatering Device (SCHLAMMCON)

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

- volume: 1 m³
- filter fineness: ≥ 5 µm
- manual exchange: ✓
- filter housing: steel, stainless steel
**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>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>2,000 m³/h to 10,000 m³/h</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>≥ 50 µm</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>1.5 to 25 bar</td>
</tr>
<tr>
<td>Flange</td>
<td>DN 80 to DN 1800</td>
</tr>
<tr>
<td>Automatic backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>steel, stainless steel</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Flow rate</td>
<td>5 m³/h to 2,000 m³/h</td>
</tr>
<tr>
<td>Filter fineness</td>
<td>≥ 30 µm</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>2 to 25 bar</td>
</tr>
<tr>
<td>Flange</td>
<td>DN 50 to DN 700</td>
</tr>
<tr>
<td>Automatic backwash</td>
<td>✓</td>
</tr>
<tr>
<td>Filter housing</td>
<td>steel, stainless steel</td>
</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