Automatic Back-Flushing Filter
AutoFilt® RF3

1. GENERAL

Product description
- Self-cleaning automatic filter
- Separation of solid particles from low viscosity fluids

Filter element technology
- Conical filter elements
- Wedge wire: 50 to 3000 µm
- SuperMesh wire mesh: 25 to 60 µm

Product advantages
- Automatic back-flushing reduces operating costs
- Isokinetic filtration and back-flushing provides greater efficiency
- Flow-optimised housing design
- Filtrate flow is not interrupted during back-flushing
- Pulse-aided back-flushing
- Various control variants with individually adjustable control parameters
- Numerous material and equipment options available
- Ready-to-operate unit
- Variable flange positions (inlet and outlet flanges, as well as back-flush line)

Specifications

<table>
<thead>
<tr>
<th>Nominal size:</th>
<th>DN 50 - DN 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q_max:</td>
<td>7500 m³/h</td>
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<tr>
<td>p_max:</td>
<td>100 bar</td>
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<tr>
<td>Filtration ratings:</td>
<td>25 - 3000 µm</td>
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</table>

Technical specifications of standard models

<table>
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<tr>
<th>Filter size</th>
<th>Pressure range</th>
<th>Connection inlet/outlet</th>
<th>Connection back-flush line (PN 16)</th>
<th>Weight</th>
<th>Volume</th>
<th>No. of filter elements</th>
<th>Filtration area</th>
<th>Back-flush volume</th>
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<tbody>
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<td>4 x K1, 4 x K2</td>
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<td>DN 80</td>
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<td>310</td>
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<td>6</td>
<td>6</td>
<td>DN 600</td>
<td>DN 100</td>
<td>1610</td>
<td>998</td>
<td>32 x K3, 8 x K4</td>
<td>89100</td>
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<td>7</td>
<td>6</td>
<td>DN 700</td>
<td>DN 100</td>
<td>1950</td>
<td>1355</td>
<td>24 x K3, 20 x K4</td>
<td>106100</td>
<td>555</td>
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<tr>
<td>8</td>
<td>6</td>
<td>DN 900</td>
<td>DN 150</td>
<td>3550</td>
<td>2710</td>
<td>54 x K5</td>
<td>180700</td>
<td>720</td>
</tr>
</tbody>
</table>

Legend
1) Pressure range for size 0, stainless steel, is 16 bar.
   Housing calculation and housing manufacture according to AD 2000 and, if required, to Pressure Equipment Directive 97/23/EC.
2) Approx. empty weight based on standard pressure range.
3) When using SuperMesh filter elements (KD / SKD), only size K3 filter elements are installed. The number of filter elements remains the same. This results in the following filtration areas:
   RF3-5: 50000 cm²
   RF3-6: 83333 cm²
   RF3-7: 91667 cm²
   RF3-8: 112500 cm²
4) Per cycle, based on EPT / PT control mode with opening time of back-flush valve of 1.5 seconds and 1.5 bar differential pressure between outlet and back-flush line, with EU control the back-flush volume increases by a factor of 5.
2. FUNCTION

### FILTRATION
- The medium being filtered flows through the filter elements of the back-flushing filter from the inside to the outside.
- Contamination particles then collect on the smooth inside of the filter elements.
- As the level of contamination increases, the differential pressure between the contaminated and clean side of the filter increases.
- When the differential pressure reaches the pre-set trigger point, back-flushing starts automatically.

### TRIGGERING AUTOMATIC BACK-FLUSHING
- When the differential pressure trigger point is exceeded.
- By means of set timer function.
- By pressing the TEST button.

### PROCEDURE FOR AUTOMATIC BACK-FLUSHING – BACK-FLUSH CYCLE

**EPT** Electro-pneumatic cyclic control
- The electrically powered gear motor rotates the flushing arm to the filter element or filter elements to be cleaned and stops. The back-flush valve is opened by a pneumatically operated rotary drive and the filter element or filter elements are cleaned. The pressure drop between filtrate side and back-flush line flushes a small amount of the filtrate back through the contaminated filter elements. The contamination particles collected on the inside of the filter elements are loosened and flushed into the back-flush line via the flushing arm. After the "back-flushing time per filter element" has elapsed, the back-flush valve is closed. The gear motor then rotates the flushing arm further to the next filter element(s) to be cleaned. The back-flush valve is opened again and the filter element or elements are back-flushed. A full back-flush cycle is complete once all filter elements have been cleaned.

**PT** Pneumatic cyclic control
- Like EPT but with purely pneumatic components.

**PTZ** Pneumatic cyclic control with timer function
- Like PT but with the option of setting a maximum filtration time between two back-flush cycles, independently of the differential pressure. The control of the back-flushing filter automatically triggers back-flushing when the maximum filtration time without back-flush has been exceeded – timer function.

**EU** Electrical circulation control
- The electrically operated back-flush valve opens. The gear motor continuously rotates the flushing arm underneath the filter elements to be cleaned. The pressure drop between filtrate side and back-flush line flushes a small amount of the filtrate back through the contaminated filter elements. The contamination particles collected on the inside of the filter elements are loosened and flushed into the back-flush line via the flushing arm. When the flushing arm reaches its starting position, the gear motor stops and the electric back-flush valve closes automatically. The number of cycles can be preset via the control.

**EPU** Electro-pneumatic circulation control
- Like EU but with the back-flush unit operated pneumatically.
3. SPECIAL FEATURES

FILTER ELEMENT TECHNOLOGY

Conical filter elements
Robust wedge wire and wire mesh filter elements made from stainless steel are used in the automatic back-flushing filter AutoFilt® RF3. The conical shape of the filter elements ensures maximum efficiency during filtration and optimum effectiveness during back-flushing.

SuperFlush technology
The filter elements can also be given a special non-stick coating (SuperFlush) for applications like for e.g. wastewater treatment.

Advantages of a SuperFlush coating:
- Unique coating technology
- Available for conical filter elements
- Minimises the adhesion of sticky particles on the filter element surface
- Reduces biofouling
- Increases the interval between two back-flush cycles
- Increases efficiency

FLOW-OPTIMISED DESIGN

The particularly good flow characteristics allow the filter to be compact whilst achieving high filtration performance and low pressure drops.

ISOKINETIC FILTRATION AND BACK-FLUSHING

The conical shape and configuration of the filter elements allow consistent flow, resulting in a low pressure drop and complete cleaning of the filter elements.

Advantages:
- Fewer back-flush cycles
- Smaller back-flush volumes
- Lower pressure differential (Δp)

PULSE-AIDED BACK-FLUSHING

For the control types EPT and PT, rapid opening of the pneumatic back-flush valve generates a pressure surge (clock pulse) in the filter element openings, and supplements the cleaning effect of the back-flushing process.

SMALL BACK-FLUSH VOLUMES DUE TO CYCLIC CONTROL

For the control types EPT and PT, the back-flush valve opens and closes for each filter element.

READY-TO-OPERATE UNIT

All components (controller, back-flush valve, gear motor) are already installed on the filter, ready to use. Once the pipework has been connected, all that is required is for the auxiliary power supply to be applied.

VARIABLE HOUSING CONFIGURATION

The inlet and outlet flanges and the back-flush line can be arranged in various positions in relation to one another. This makes it possible to integrate the filter easily into any system geometry (see point 1. General).
3. SPECIAL FEATURES

FILTER CONTROL
AUTOFILT® CONTROL UNIT ACU

The clear design of the touch screen allows the user to keep an eye on the filter’s current operating condition of the filter at all times. The symbols used in the display are self-explanatory and are based on current international standards and colour codes. The control is designed to ensure open connectivity to all customer interfaces.

Advantages of the AutoFilt® Control Unit:
- Intuitive menu navigation via touch screen
- Open connectivity to all commonly used customer interfaces (Ethernet, USB, ...)
- High-precision pressure measurement using HYDAC pressure transmitter HDA
- Several menu languages to choose from
- Always up to date with simple software updates
- Additional differential pressure gauge available as an option

Customer connections on terminal strip:
- Input (not potential-free, 24 VDC)
  - Filter remote control
- Outputs (potential-free)
  - Back-flushing active
  - General errors (power interruption, power failure, broken cable, etc.)
  - Differential pressure (4-20 mA signal)
4. FILTER CALCULATION / SIZING*

CHECKLIST FOR FILTER CALCULATION / SIZING

STEP 1: CHECKING THE PREREQUISITES
- It is crucial when operating the AutoFilt® RF3 that there is a pressure differential between the back-flush line and the filter outlet of at least 1.5 bar (see circuit diagram on the following page)
- Application data is determined using filter questionnaires
- The flow velocity of 4 m/s at the flange inlet should not be exceeded
- The maximum operating temperature for every AutoFilt® RF3 is 90 °C
- The filter must be installed in a frost-free environment
- For ambient temperatures below 0 °C, our Head Office must be consulted

STEP 2: FILTER SIZING
- The filter is sized based on the calculation table
- The flow rate curves apply to filtration ratings ≥ 100 µm
- The initial differential pressure (∆p) when the filter is in a clean condition should not exceed 0.2 bar
- AutoFilt® RF3 with low particulate loading → calculation of ∆p 0.1 to 0.2 bar
- AutoFilt® RF3 with high particulate loading → calculation of ∆p < 0.1 bar

STEP 3: DETERMINING THE FILTRATION RATING
- As a basic rule: as coarse as possible – as fine as necessary!
- For filtration ratings ≤ 50 µm, the filter pressure drop increases by approx. 30 % for all sizes

STEP 4: CHECKING THE PARTICLE LOAD
- Rule of thumb: maximum solid particle content up to 300 mg/l depending on the particle distribution - for values outside these ranges, please contact our Head Office
- Note any fluctuations in the dirt load (e.g. seasonal fluctuations in river water)

CALCULATION TABLES
The values given below are the minimum and maximum possible flow rates for the various sizes. For values outside these ranges, please contact our Head Office.

OPERATING FLUID – WATER

<table>
<thead>
<tr>
<th>Filter size</th>
<th>Flow rate range [m³/h]</th>
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<tbody>
<tr>
<td>C</td>
<td>5 - 28</td>
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<tr>
<td>0</td>
<td>25 - 113</td>
</tr>
<tr>
<td>1</td>
<td>90 - 254</td>
</tr>
<tr>
<td>2</td>
<td>200 - 450</td>
</tr>
<tr>
<td>2.5</td>
<td>400 - 600</td>
</tr>
<tr>
<td>3</td>
<td>550 - 860</td>
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<tr>
<td>4</td>
<td>810 - 1700</td>
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<td>7</td>
<td>3000 - 5000</td>
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<tr>
<td>8</td>
<td>4500 - 7500</td>
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</table>

OPERATING FLUID – EMULSION (COOLANTS, WASHING FLUIDS)

<table>
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<tr>
<th>Filter size</th>
<th>Flow rate range [m³/h]</th>
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</thead>
<tbody>
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<td>C</td>
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<tr>
<td>5</td>
<td>350 - 950</td>
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<td>6</td>
<td>700 - 1500</td>
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<td>7</td>
<td>1000 - 1700</td>
</tr>
<tr>
<td>8</td>
<td>1300 - 3000</td>
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</tbody>
</table>

- Valid for emulsions and oils up to a viscosity of 15 mm²/s
- For applications in the field of grey cast iron processing, grinding, honing and for fluids with a viscosity over 15 mm²/s, consultation with our Head Office

* Please contact our Head Office if you have any queries regarding filter sizing.
**PRESSURE DROP CURVES**

![Graph showing pressure drop curves for different filter sizes.](image)

**Caution**
The pressure drop curves apply to filtration ratings from 100 to 3000 µm. For wedge wire and SuperMesh filter elements ≤ 50 µm, the pressure drop increases by roughly 30%.

**CIRCUIT DIAGRAM**

![Diagram showing a circuit for filtration with a back-flushing filter.](image)

**Recommendation:**
- **Filtration rating of pre-filter**
  - 3 mm: Less than 500 µm
  - 10 mm: Greater than 500 µm

**Caution**
For cleaning, the pressure in the back-flush line must be at least 1.5 bar lower than the pressure in the filter outlet line.
### 5. FILTER CONFIGURATION*

<table>
<thead>
<tr>
<th>Control parameters</th>
<th>Standard</th>
<th>Optional</th>
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<tbody>
<tr>
<td>• EPT</td>
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<td>• PLC</td>
</tr>
<tr>
<td>• EU</td>
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<td>• Filter interlocking for parallel operation</td>
</tr>
<tr>
<td>• EPU</td>
<td></td>
<td>• UL/CSA-approved components</td>
</tr>
<tr>
<td>• PT</td>
<td></td>
<td>• Safe in tropical conditions</td>
</tr>
<tr>
<td>• PTZ</td>
<td></td>
<td>• Customised special solutions</td>
</tr>
<tr>
<td>• Manual</td>
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<tr>
<td>• Without control</td>
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<tr>
<th>Connection voltages</th>
<th>All current international connection voltages and frequencies can be implemented</th>
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<tr>
<td>Electrical protection classes</td>
<td>IP55</td>
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<tr>
<td>Explosion protection</td>
<td>ATEX according to Directive 94/9/EC</td>
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<tr>
<th>Housing</th>
<th>Housing calculation and housing manufacture according to AD 2000 and, if required, to Pressure Equipment Directive 97/23/EC</th>
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<tr>
<td>Flange connections</td>
<td>DIN EN flanges</td>
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<tr>
<td>Flange positions</td>
<td>Variable connection positions - filter inlet and filter outlet, as well as back-flush line rotatable</td>
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<table>
<thead>
<tr>
<th>Housing materials</th>
<th>Carbon steel</th>
<th>Duplex</th>
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<tr>
<td></td>
<td>Stainless steel</td>
<td>Superduplex</td>
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<tr>
<td>Material of internal parts</td>
<td>Stainless steel</td>
<td>Various qualities of stainless steel</td>
</tr>
<tr>
<td>Material of filter elements</td>
<td>Stainless steel</td>
<td>Various qualities of carbon steel</td>
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</table>

<table>
<thead>
<tr>
<th>External corrosion protection</th>
<th>2-coat primer (not required for stainless steel housing)</th>
<th>Multiple-layer coatings</th>
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<tbody>
<tr>
<td></td>
<td>Colour RAL 7040 (window grey)</td>
<td>Special coating for offshore applications</td>
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<tr>
<td>Internal corrosion protection</td>
<td>2K epoxy paint</td>
<td>Glass flake lining</td>
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<td></td>
<td>2K highly cross-linked polyurethane paint</td>
<td>Special paints/coatings according to customer specifications</td>
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<td>Rubber lined</td>
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<table>
<thead>
<tr>
<th>Differential pressure measurement</th>
<th>Differential pressure gauge – pressure chamber aluminium</th>
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<tbody>
<tr>
<td></td>
<td>Differential pressure gauge – pressure chamber stainless steel, V2A group</td>
</tr>
<tr>
<td></td>
<td>Differential pressure gauge – with diaphragm seal, stainless steel, V4A group</td>
</tr>
<tr>
<td></td>
<td>Differential pressure gauge – pressure chamber brass</td>
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<td></td>
<td>Pressure transmitter HYDAC HDA 4700 stainless steel, V2A group</td>
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<tr>
<td></td>
<td>Pressure transmitter HYDAC HDA 4300 duplex</td>
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<thead>
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<th>Cover plate lifting device</th>
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<td>Cover plate lifting device for retrofitting</td>
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<tr>
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<th>Operating manual</th>
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<td>Declaration of incorporation according to Machinery Directive 2006/42/EC</td>
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<td>Brief start-up guide</td>
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<td>Circuit diagram</td>
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<td>Material certificates 3.1 according to DIN EN 10204</td>
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<td>TR CU certificates</td>
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<td>3rd parties (TÜV, ABS, Lloyds, etc.)</td>
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<td></td>
<td>Welding documentation e.g. WPS, PQR</td>
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<td></td>
<td>Inspection plan</td>
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* Other versions and customised special solutions after consultation with our Head Office.
### 6. MODEL CODE

**MODEL CODE** AutoFilt® RF3

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
</table>

**Type**
- AutoFilt®

**Filter size**
- C = DN 50 PN16
- D = DN 100 PN10
- 1 = DN 150 PN10
- 2 = DN 200 PN10
- 2.5 = DN 250 PN10
- 4 = DN 400 PN6
- 5 = DN 500 PN6
- 6 = DN 600 PN6
- 7 = DN 700 PN6
- 8 = DN 800 PN6

**Type of control / Input supply voltage**
- EPT = electro-pneumatic cyclic control
- EPU = electro-pneumatic circulation control
- EU = electrical circulation control
- PT = pneumatic cyclic control
- PTZ = pneumatic cyclic control with time override
- M = manual

- 0 = without control, all consumers on terminal strip / block
- 1 = 3 x 400V / N / PE 50Hz
- 2 = 3 x 400V / X / PE 50Hz
- 3 = 3 x 500V / X / PE 50Hz
- 4 = 3 x 230V / N / PE 50Hz
- 5 = 3 x 230V / X / PE 50Hz
- 6 = 3 x 415V / X / PE 50Hz
- 7 = 3 x 415V / N / PE 60Hz
- 8 = 3 x 460V / X / PE 60Hz

**Housing material / Corrosion protection**
- N = carbon steel, external primer (RAL 7040)
- NM = carbon steel, external primer (RAL 7040), internal 2K epoxy paint
- NP = carbon steel, external primer (RAL 7040), internal 2K highly cross-linked polyurethane paint
- NG = carbon steel, external primer (RAL 7040), internal rubber lining
- E = stainless steel, V4A group
- A = for ANSI flanges, add A
- J = for JIS flanges, add J

**Material, back-flush valve**
- N = butterfly valve: housing cast iron-coated, disc stainless steel (only up to \( p_{\text{max}} \leq 16 \) bar)
- B = butterfly valve: housing cast iron-coated, disc bronze (only up to \( p_{\text{max}} \leq 16 \) bar)
- S = ball valve: ball stainless steel, housing up to nom. size 50 mm carbon steel
- from nominal bore 50 mm cast iron-coated (from \( p_{\text{max}} > 16 \) bar)
- E = ball valve: ball stainless steel, housing stainless steel (from \( p_{\text{max}} > 16 \) bar)

**Differential pressure measurement**
- 1 = differential pressure gauge – pressure chamber aluminium (only up to \( p_{\text{max}} = 25 \) bar)
- 2 = differential pressure gauge – pressure chamber stainless steel, V2A group
- 3 = differential pressure gauge – with diaphragm seal, stainless steel, V4A group
- 4 = differential pressure gauge – pressure chamber brass
- 5 = HDA 4700 stainless steel, V2A group (standard for AutoFilt® Control Unit)
- 6 = HDA 4300 duplex (standard for AutoFilt® Control Unit)

**Flange position, inlet and outlet**
- 1 = filter outlet opposite/filter inlet (standard)
- 2 = filter outlet offset by 90° clockwise to standard
- 3 = filter outlet offset by 180° clockwise to standard
- 4 = filter outlet offset by 270° clockwise to standard

**Modification number**
- X = the latest version is always supplied

**Filter element set**
- KS = conical wedge wire filter elements (50 – 3000 µm)
- KD = conical SuperMesh filter elements (25 / 40 / 60 µm)
- SKS = conical wedge wire filter elements with SuperFlush coating
- SKD = conical SuperMesh filter elements with SuperFlush coating

**Size of filter element set**
- Identical to size of filter

**Special number**
- For special models (number is allocated after technical clarification in Head Office)

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1) Stainless steel housing PN16
7. DIMENSIONS

Sizes RF3-C to RF3-2

<table>
<thead>
<tr>
<th>Filter size</th>
<th>DN1</th>
<th>DN2</th>
<th>DN3</th>
<th>b1</th>
<th>b2</th>
<th>b3</th>
<th>h1</th>
<th>h2</th>
<th>h3</th>
<th>H1</th>
<th>H2</th>
<th>H3</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF3-C</td>
<td>50</td>
<td>50</td>
<td>25</td>
<td>200</td>
<td>200</td>
<td>255</td>
<td>220</td>
<td>579</td>
<td>101</td>
<td>967</td>
<td>709</td>
<td>550</td>
</tr>
<tr>
<td>RF3-0</td>
<td>100</td>
<td>100</td>
<td>25</td>
<td>200</td>
<td>200</td>
<td>258</td>
<td>250</td>
<td>740</td>
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<td>1297</td>
<td>994</td>
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<tr>
<td>RF3-1</td>
<td>150</td>
<td>150</td>
<td>40</td>
<td>270</td>
<td>270</td>
<td>268</td>
<td>300</td>
<td>860</td>
<td>115</td>
<td>1425</td>
<td>1113</td>
<td>550</td>
</tr>
<tr>
<td>RF3-2</td>
<td>200</td>
<td>200</td>
<td>50</td>
<td>325</td>
<td>325</td>
<td>293</td>
<td>400</td>
<td>1000</td>
<td>122</td>
<td>1543</td>
<td>1255</td>
<td>550</td>
</tr>
</tbody>
</table>

The dimensions quoted have ± 10 mm tolerances.
Subject to technical modifications.
7. DIMENSIONS

Sizes RF3-2.5 to RF3-8

The dimensions quoted have ± 10 mm tolerances. Subject to technical modifications.

Filter size | DN1 | DN2 | DN3 | b1 | b2 | b3 | h1 | h2 | h3 | H1 | H2 | H3
---|---|---|---|---|---|---|---|---|---|---|---|---
RF3-2.5 | 250 | 250 | 50 | 325 | 325 | 317 | 400 | 1300 | 120 | 2048 | 1760 | 700
RF3-3 | 300 | 300 | 65 | 380 | 380 | 281 | 500 | 1380 | 155 | 2198 | 1888 | 700
RF3-4 | 400 | 400 | 80 | 450 | 450 | 297 | 600 | 1526 | 220 | 2338 | 2033 | 700
RF3-5 | 500 | 500 | 80 | 550 | 550 | 300 | 600 | 1630 | 200 | 2421 | 2080 | 700
RF3-6 | 600 | 600 | 100 | 625 | 625 | 315 | 675 | 1744 | 200 | 2618 | 2275 | 700
RF3-7 | 700 | 700 | 100 | 750 | 750 | 315 | 700 | 1806 | 201 | 2654 | 2311 | 700
RF3-8 | 900 | 900 | 150 | 950 | 950 | 560 | 1000 | 2545 | 229 | 3501 | 3183 | 700

Filter size | L1 | L2 | L3 | L4 | L5 | D1 | D2 | D3 | D4 | E1 | E2 | F1 | F2
---|---|---|---|---|---|---|---|---|---|---|---|---|---
RF3-2.5 | 12 | 283 | 630 | 913 | 200 | 565 | 406.4 | 160 | 18 | G1/4 | G3/4 | 270 | 235
RF3-3 | 12 | 335 | 685 | 1020 | 200 | 670 | 508 | 160 | 18 | G1/4 | G3/4 | 322 | 279
RF3-4 | 20 | 389 | 741 | 1130 | 200 | 780 | 610 | 200 | 22 | G1/4 | G3/4 | 375 | 358
RF3-5 | 20 | 459 | 794 | 1253 | 200 | 895 | 711 | 250 | 27 | G1/4 | DN40 | 485 | 420
RF3-6 | 20 | 563 | 901 | 1464 | 200 | 1115 | 914 | 300 | 30 | G1/4 | DN40 | 565 | 516
RF3-7 | 20 | 611 | 968 | 1579 | 200 | 1230 | 1016 | 300 | 30 | G1/4 | DN40 | 652 | 565
RF3-8 | 20 | 712 | 1000 | 1712 | 200 | 1405 | 1220 | 300 | 30 | G1/4 | DN40 | 719 | 623
NOTE
The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.