Industrial Filters · Accumulators

Quality and Standardisation
The development, manufacturing and assembly of EPE Industrial filters and filter elements is performed within the guidelines of a certified quality management system according to DIN EN ISO 9001. The calculation of strength and the filter tests are done in compliance to actual pressure vessel regulations and national & international standards.

Installation, Starting and Maintenance
Filter Installation
Screw suction filter type S8-455 direct on pump suction line.
Type S2-56-560: remove dust protection plug from filter inlet.
Mount filter assembly at tank using mounting device on the head (Part 3) considering and servicing length required for cleaning / replacing elements (Part 3).

Connection of Electrical Maintenance Indicator
Type S2-56-560
Connect indicator using the two wired cable.
Please verify electrical ratings on the indicators name plate.

Starting
Switch on system pump.
Pay attention to pump noise, dismount filter assembly if necessary and check filtration flows and seals.

Maintenance
The filter element is clogged and needs to be replaced or cleaned if the vacuum gauge indicator moves into red alert range or the electrical switch is activated.

Filter Element Service
S8-455: switch off system, drain tank, disconnect suction filter from suction line.
S2-56-560: switch off system pump. Unscrew filter cover (Part 1), return flow blockage closes automatically, remove filter element from filter housing. Check filter housing inside and clean if necessary. Replace filter element H., S., F., and G.,.. The filter element with G., media is available. The efficiency of the cleaning process depends on the characteristics of contamination and the final pressure drop prior to servicing / cleaning the element.
Install cleaned or replaced filter element. Check O-ring (Part 6) on filter head, replace in case of damage or wear. Screw filter cover (Part 1) and tighten it at hexagon bolt using a suitable tool. Operate filter as described above.

Suction Filters
S8 - 455
SE56-560

Filters for installation in suction pipes
Suctions filters with housing for tank mounting
Suctions filters with housing including automatic shut off valve.
Low pressure drop
Various filter media available
Suction Filters

<table>
<thead>
<tr>
<th>SR - 455</th>
<th>SE 560</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Flow Rate: 15 - 1000 l/min</td>
<td>Operating Temperature: -10°C up to +100°C</td>
</tr>
<tr>
<td>Connection up to SAE 4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Application**
Filtration of liquids and lubricants.
Filtration of industrial liquids.
Connection up to SAE 4".

**Design**
SR-455 with flat filter element in a pipe thread connection.
SE56 - 560: filter head with removable cover.

**Filter Element**
Flat design with optimised filter density and various filter media.

**Filter Element Design**
Material: SS 316, SS 304, SS 310, etc.

**Filter Assembly**
Seal Kit

**Maintenance Indicators**
Accessories

**Switching Symbol**

**Dimensions**

<table>
<thead>
<tr>
<th>SE 560</th>
<th>SE 455</th>
</tr>
</thead>
<tbody>
<tr>
<td>8, S 5, 16, S 28, S 45, S 5, 7, S 80, S 455</td>
<td></td>
</tr>
</tbody>
</table>

**Ordering Information**

**Performance Characteristics**

**Accessories**

**Switching symbol**

**Filtration Grade**

**Filter Assembly**

**Seal Kit**

**Maintenance Indicator**

**Filter Element**

**Filter Type**

**Magnet**

**Connection**

**Bilateral**

**Material**

**Seal**

**Filter Assembly**

**Filter Type**

**Magnet**

**Connection**

**Bilateral**

**Material**

**Seal**

**Filter Assembly**

**Filter Type**

**Magnet**

**Connection**

**Bilateral**

**Material**

**Seal**

**Filter Assembly**

**Filter Type**

**Magnet**

**Connection**

**Bilateral**

**Material**

**Seal**

**Filter Assembly**

**Filter Type**

**Magnet**

**Connection**

**Bilateral**

**Material**

**Seal**
Suction Filters

Pressure drop curves for water mark 0, 80

Nominal flow rate: 15 - 1000 l/min

Operating temperature: -10°C up to +100°C

Connection up to SAE 4"

Filter Type

Performance Characteristics

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>Nominal Flow Rate</th>
<th>Nominal Filtration Grade</th>
<th>Maximum Pressure Drop</th>
<th>Maximum Flow Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE 56-560</td>
<td>0,2 l/min</td>
<td>10 µm</td>
<td>0,05 bar</td>
<td>0,5 l/min</td>
</tr>
</tbody>
</table>

Application

Filtration of liquids and gases.

Filtration of hydraulic fluids.

Filter Housing

- Filter Housing with Filter Element Locator
- Filter Housing with Filter Element Locator
- Filter Housing with Filter Element Locator
- Filter Housing with Filter Element Locator

Connection

- Connection up to SAE 4"

Design

1) SE 455 with plain filter element on a pipe thread connection
2) SE 560 - filter head with screwable cover
3) Plain design with optimised pleat density and various filter media

Filter Element

The filter element is the most important component of the filter in view of prolonged life and wear protection of the system. The dirt holding capacity is the most important criteria for selection.

For further detailed information please refer to the "Filter Element Handbook."

A proper filter selection is enabled by our "EPE - FILTERSELECT" software.

Maintenance Indicators

For monitoring the filter element's contamination status, visual and visual/electrical indicators, with one or two switching points are available.

Ordering Information

For order of filter type, please refer to the "EPE - FILTERSELECT" software. For further detailed information please refer to the order information.

Accessories

- Seal Kit
- "EPE - FILTERSELECT" Software
- "Filter Elements" Brochure

Seal Kit

Maintenance Indicator

Filter Switching Symbol

Filter Assembly

Ordering Information

Ordering information

Dimensions

SE 56-560

SE 455

Suction Filters

SE 56-560

SE 455

Nominal Flow Rate: 15 - 1000 l/min

Operating Temperature: -10°C up to +100°C

Connection up to SAE 4"

Performance Characteristics

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Ordering Information

1) SE 455 with plain filter element on a pipe thread connection
2) SE 560 - filter head with screwable cover
3) Plain design with optimised pleat density and various filter media

Maintenance Indicators

For monitoring the filter element's contamination status, visual and visual/electrical indicators, with one or two switching points are available.

Ordering Information

For order of filter type, please refer to the "EPE - FILTERSELECT" software. For further detailed information please refer to the order information.

Accessories

- Seal Kit
- "EPE - FILTERSELECT" Software
- "Filter Elements" Brochure

Seal Kit

Maintenance Indicator

Filter Switching Symbol

Filter Assembly

Ordering Information

Ordering information

Dimensions
# Quality and Standardisation

The development, manufacturing and assembly of EPE Industrial filters and filter elements is performed within the guidelines of a certified quality management system according to DIN EN ISO 9001. The calculation of strength and the filter tests are done in compliance to actual pressure vessel regulations and national & international standards.

A filter inspection by accredited certification bodies (e.g. TÜV, GL, LRS, LRIS, ABS, BV, DNV, DRIRe, UDT etc.) is possible on request.

### Installation, Starting and Maintenance

#### 1. Filter Installation

_Screw suction filter type S8-455 direct on pump suction line._

Type S2-56-560: remove dust protection plug from filter inlet.

Mount filter assembly at tank using mounting device on the head (Part 3.) and service lengths required for cleaning / replacing elements (Part 3.).

#### 2. Connection of Electrical Maintenance Indicator

Type: S2-56-560:

Connect indicator using the two wired cable.

Please verify electrical ratings on the indicators name plates.

#### 3. Starting

Switch on system pump.

Pay attention to pump noise, dismount filter assembly if necessary and check filtration grade and seals.

#### 4. Maintenance

The filter element is clogged and needs to be replaced or cleaned if the vacuum gauge indicator moves into red alert range or the electrical switch is activated.

#### 5. Filter Element Service

**S8-455:** switch off system, drain tank, disconnect suction filter from suction line.

_S2-56-560: switch off system pump._

_Uncouple filter cover (Part 1), return flow blockage closes automatically, remove filter element from filter housing._

_Check filter housing inside and clean if necessary._

_Replace filter element H... , P... and VS... ._

_The filter element with G... media is cleanable. The efficiency of the cleaning process depends on the characteristics of contamination and the final pressure drop prior to servicing / cleaning the element._

_Install cleaned or replaced Filter element._

_Choose O-ring (Part 6) on filter head, replace in case of damage or wear._

_Screw filter cover (Part 1) and tighten in case of damage or wear._

_Replace pressure blockage (Part 2) considering and service lengths required for cleaning / replacing elements._

_Operate filter as described above._

### Spare Parts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Material</th>
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<tr>
<td>11</td>
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<tr>
<td>12</td>
<td>Filter head</td>
<td>Various plastic</td>
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<tr>
<td>13</td>
<td>Filter cover</td>
<td>Aluminium cast</td>
</tr>
<tr>
<td>14</td>
<td>Filter element</td>
<td>Various steel</td>
</tr>
<tr>
<td>15</td>
<td>Profile seal</td>
<td>Various fibre</td>
</tr>
<tr>
<td>16</td>
<td>Profile seal</td>
<td>Various fibre</td>
</tr>
<tr>
<td>17</td>
<td>Plug</td>
<td>Steel</td>
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<tr>
<td>18</td>
<td>Maintenance Indicator</td>
<td>Steel</td>
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<tr>
<td>19</td>
<td>Seal</td>
<td>Various fibre</td>
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</table>

### Size

<table>
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<tr>
<th>Size</th>
<th>Filter head</th>
<th>Filter cover</th>
<th>Filter element</th>
<th>Profile seal</th>
<th>Profile seal</th>
<th>Plug</th>
<th>Maintenance Indicator</th>
<th>Seal</th>
<th>Reduction for M 070</th>
<th>Duplex fitting for I...</th>
<th>Pressing with valve</th>
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<tbody>
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Refer section "Maintenance Indicator"
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Installation, Starting and Maintenance

Filter Installation

Screw suction filter type SB-455 direct on pump suction line.

SE 56-560: remove dust protection plug from filter inlet.

Mount filter assembly at tank using mounting device on the head (Part 2) considering and servicing length required for cleaning / replacing elements (Part 3).

Connection of Electrical Maintenance Indicator

Type: SE 56-560:

Connect indicator using the two wired cable.

Starting

Switch on system pump.

Pay attention to pump noise, dismount filter assembly if necessary and check filtration grades and seals.

Maintenance

The filter element is clogged and needs to be replaced or cleaned if the vacuum gauge indicator moves into red alert range or the electrical switch is activated.

Filter Element Service

SB-455: switch off system, drain tank, disconnect suction filter from suction line.

SE 56-560: switch off system pump. Unscrew filter cover (Part 1), return flow blockage closes automatically, remove filter element from filter housing.

Check filter housing inside and clean if necessary.

Replace filter element H., S., F., and V..

The filter element with G.. - media is cleanable. The efficiency of the cleaning process depends on the characteristics of contamination and the final pressure drop prior to servicing / cleaning the element.

Install cleaned or replaced filter element.

Operate filter as described above.

Filters for installation in suction pipes

Suction filters with housing for tank mounting

Suction filters with housing including automatic shut off valve.

Low pressure drop

Various filter media available