Dirt Trap

Operation & Maintenance Instructions

Read these operation and maintenance instructions before start up!
To be held for future reference.
General

For safety reasons, pumps in general and metering pumps in particular should be fitted with a dirt trap in the suction pipe. The dirt trap prevents blocking of the valve function by floating elements and fluffs. It can also be used for the motive water supply of a chlorination plant. In this case a dirt trap must be provided if the ejector is fed directly and without other fittings with the motive water (e.g. pressure reducer combined with dirt trap).

The dirt trap is available in stainless steel as shown here and in plastic as shown on the next page.

Attention!
The dirt trap has to be assembled in such a way that in case of disassembling the accumulated dirt cannot fall back into the pipe.

Construction and connection dimensions PN 16

Selection Table

Stainless steel version

<table>
<thead>
<tr>
<th>Size</th>
<th>DN</th>
<th>G 3/8</th>
<th>G 1/2</th>
<th>G 3/4</th>
<th>G 1</th>
<th>G 1 1/4</th>
<th>G 1 1/2</th>
<th>G 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>l/h</td>
<td>250</td>
<td>400</td>
<td>650</td>
<td>1000</td>
<td>1600</td>
<td>2500</td>
<td>4000</td>
</tr>
<tr>
<td>Mesh size</td>
<td>mm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Length L</td>
<td>mm</td>
<td>58</td>
<td>64</td>
<td>75</td>
<td>90</td>
<td>112</td>
<td>120</td>
<td>150</td>
</tr>
<tr>
<td>Height H</td>
<td>mm</td>
<td>35</td>
<td>42</td>
<td>50</td>
<td>62</td>
<td>78</td>
<td>82</td>
<td>95</td>
</tr>
<tr>
<td>Extension height H1</td>
<td>mm</td>
<td>80</td>
<td>87</td>
<td>95</td>
<td>107</td>
<td>138</td>
<td>157</td>
<td>170</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>1.1</td>
<td>1.1</td>
<td>1.3</td>
<td>1.8</td>
<td>3.4</td>
<td>5.2</td>
<td>9.8</td>
</tr>
<tr>
<td>Dirt trap assembly</td>
<td></td>
<td>12224982</td>
<td>12224983</td>
<td>12224984</td>
<td>12224985</td>
<td>12224986</td>
<td>12224986</td>
<td>12224988</td>
</tr>
</tbody>
</table>

Items 1+2 (spraypipe and gasket) upon request.
The dirt trap shown here is made of transparent PVC and has cemented connecting pieces on both sides. Upon request, it can be supplied with threaded parts (see "E") or with adjusting parts (see "A").

Construction and connection dimensions

**Selection Table**

<table>
<thead>
<tr>
<th>Plastic version</th>
<th>DN diameter (inch)</th>
<th>15 (1/2&quot;)</th>
<th>20 (3/4&quot;)</th>
<th>25 (1&quot;)</th>
<th>32 (1 1/4&quot;)</th>
<th>40 (1 1/2&quot;)</th>
<th>50 (2&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flow</strong></td>
<td></td>
<td>400</td>
<td>650</td>
<td>1000</td>
<td>1600</td>
<td>2500</td>
<td>4000</td>
</tr>
<tr>
<td><strong>Mesh size</strong></td>
<td>m m</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Cemented conn. piece ø d</strong></td>
<td>m m</td>
<td>20</td>
<td>25</td>
<td>32</td>
<td>40</td>
<td>50</td>
<td>63</td>
</tr>
<tr>
<td><strong>Length L</strong></td>
<td>m m</td>
<td>124</td>
<td>144</td>
<td>154</td>
<td>174</td>
<td>194</td>
<td>224</td>
</tr>
<tr>
<td><strong>Length L1</strong></td>
<td>m m</td>
<td>130</td>
<td>150</td>
<td>160</td>
<td>180</td>
<td>200</td>
<td>230</td>
</tr>
<tr>
<td><strong>Length L2</strong></td>
<td>m m</td>
<td>144</td>
<td>164</td>
<td>174</td>
<td>194</td>
<td>218</td>
<td>252</td>
</tr>
<tr>
<td><strong>Height H</strong></td>
<td>m m</td>
<td>65</td>
<td>76</td>
<td>90</td>
<td>104</td>
<td>124</td>
<td>148</td>
</tr>
<tr>
<td><strong>Extension height H1</strong></td>
<td>m m</td>
<td>110</td>
<td>130</td>
<td>155</td>
<td>180</td>
<td>210</td>
<td>260</td>
</tr>
<tr>
<td><strong>Thread ø G</strong></td>
<td>inch</td>
<td>G 1</td>
<td>G 1 1/4</td>
<td>G 1 1/2</td>
<td>G 2</td>
<td>G 2 1/4</td>
<td>G 2 3/4</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>kg</td>
<td>0.11</td>
<td>0.17</td>
<td>0.26</td>
<td>0.38</td>
<td>0.64</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Dirt trap with EPDM seal</strong></td>
<td></td>
<td>12224976</td>
<td>12224977</td>
<td>12224978</td>
<td>12224979</td>
<td>12224980</td>
<td>12224981</td>
</tr>
<tr>
<td><strong>Dirt trap with FPM seal</strong></td>
<td></td>
<td>12224964</td>
<td>12224965</td>
<td>12224966</td>
<td>12224967</td>
<td>12224968</td>
<td>12224969</td>
</tr>
<tr>
<td><strong>Spraypipe (1)</strong></td>
<td></td>
<td>24970</td>
<td>24971</td>
<td>24972</td>
<td>24973</td>
<td>24974</td>
<td>24975</td>
</tr>
<tr>
<td><strong>Gasket (2) EPDM</strong></td>
<td></td>
<td>80105</td>
<td>80107</td>
<td>80108</td>
<td>80110</td>
<td>80112</td>
<td>80114</td>
</tr>
<tr>
<td><strong>Gasket (2) FPM (Viton)</strong></td>
<td></td>
<td>80075</td>
<td>80106</td>
<td>80069</td>
<td>80109</td>
<td>80111</td>
<td>80113</td>
</tr>
</tbody>
</table>

L1* = length when using two adjusting parts ("A").
L2* = length when using two threaded parts ("E").
**Warranty**

Please copy and send with the device.

If the device breaks down within the period of warranty, please return it in a cleaned condition with the complete warranty application, filled out.

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**Sender**

Company: .............................................................. Phone: ........................................ Date: ........................................

Address: ........................................................................................................................................................................

Contact person: ...................................................................................................................................................................

Manufacturer order-no.: .................................................... Delivery date: ..............................................................

Device type: ....................................................................................................................................................................

Serial no.: .........................................................................................................................................................................

Nominal capacity/nominal pressure: ........................................................................................................................................

Description of fault: ...........................................................................................................................................................

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**Type of fault:**

1. Mechanical fault
   - premature wear
   - wear parts
   - breakage/other damage
   - damage in transit

2. Electrical fault
   - loose connections such as plug connector or cable
   - operating elements (e.g., switches/buttons)
   - electronics - corrosion

3. Leaks
   - connections
   - dosing head

4. No or inadequate function
   - defective diaphragm
   - other

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**Service conditions of the device**

Point of use / system designation: ........................................................................................................................................

Accessories used (Suction line, etc.): ........................................................................................................................................

Commissioning (date): ............................................................................................................................................................

Duty period (approx. operating hours): ........................................................................................................................................

Please describe the specifics of the installation and provide a simple diagram with details of the material, diameter, length and levels.
Declaration of harmlessness

We forward the following device for repairs:

Type of device: ________________________________

Part-no.: ____________________________________

Order-no.: __________________________________

Delivery date: ________________________________

Reason for repair: ____________________________________

Medium used: ___________________ Properties: irritant: yes/no corrosive: yes/no

We hereby certify that the machine has been thoroughly cleaned inside and out before its dispatch and that it is free from health risk chemical, biological and radioactive materials as well as having been drained of oil. *)

If the manufacturer find it necessary to carry out further cleaning work, we accept the charge will be made to us.

We certify that the aforementioned information is correct and complete and that the unit is dispatched in compliance with legal requirements.

Company / address: ____________________________ Phone: ____________________________

Fax: ____________________________

E-Mail: ____________________________

Customer-number: ____________________________

Contact person: ____________________________

Date ____________________________ Signature / stamp ____________________________

*) If not applicable please cross out!