FSC
Plate screen changer for extrusion processes

FSC screen changers from MAAG are equipped with a pressure-adaptive sealing system as a standard. Thanks to this sealing system, the required sealing forces are adjusted to the actual melt pressure automatically. The narrow design is especially suited for being used in applications with thermally sensitive materials. Their solid and robust construction, available in all sizes and designs, ensures a reliable and leak-free filtration of molten polymers for many years. The hydraulically operated screen changer reliably guarantees the protection of melt pumps and mold gaps from damage and dirt.

Your benefits
- Simple operation and uncomplicated screen changing
- High operational reliability
- Short material residence time
- Leak-free mode of operation
- Low pressure consumption
- Flow channel geometry without any dead spots
On the inlet side, the rheologically optimized flow channel directs the melt flow into the screen cavity, where the breaker plate is located. The molten plastic material flows through the breaker plate which is equipped with screen mesh selected according to the required filtration rate. Downstream of the screen, the cleaned melt stream leaves the filter housing through the flow channel.

To change the screen, the breaker plate is moved out of the housing and at the same time, the clean screen on the outside is moved into the production position. Depending on the design this can be done electrically or hydraulically. When using a hydraulic accumulator (optional) the changeover takes only a fraction of a second. The melt flow will be interrupted during the traversing time of the slide plate. When selecting the optimal hydraulic accumulator processing may be continued without shutting down the pelletizer. After the screen change, rapped air escapes at the subsequent device.

### Technical specifications:

| Screen diameter: | 60 to 200 mm |
| Filtration area: | 28 cm² to 314 cm² |
| Mounting:       | Compact mounting dimensions, all positions possible |

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### Application limits:

| Temperature:       | up to 300 °C |
| Operating pressure:| 700 bar |
| Pressure differential: | up to 100 bar |

### Size Table

<table>
<thead>
<tr>
<th>Size</th>
<th>Throughput* [kg/h]</th>
<th>Screen diameter [mm]</th>
<th>Filter area [cm²]</th>
</tr>
</thead>
<tbody>
<tr>
<td>060</td>
<td>100 - 150</td>
<td>1 x 62</td>
<td>1 x 28</td>
</tr>
<tr>
<td>080</td>
<td>200 - 300</td>
<td>1 x 83</td>
<td>1 x 50</td>
</tr>
<tr>
<td>100</td>
<td>300 - 450</td>
<td>1 x 103</td>
<td>1 x 79</td>
</tr>
<tr>
<td>120</td>
<td>400 - 600</td>
<td>1 x 123</td>
<td>1 x 113</td>
</tr>
<tr>
<td>140</td>
<td>550 - 850</td>
<td>1 x 143</td>
<td>1 x 154</td>
</tr>
<tr>
<td>160</td>
<td>700 - 1,100</td>
<td>1 x 163</td>
<td>1 x 201</td>
</tr>
<tr>
<td>180</td>
<td>900 - 1,400</td>
<td>1 x 184</td>
<td>1 x 254</td>
</tr>
<tr>
<td>200</td>
<td>1,100 - 1,700</td>
<td>1 x 204</td>
<td>1 x 314</td>
</tr>
</tbody>
</table>

* at melt viscosity 1,000 Pas and flux rate 5.5 Kg/h·cm², dependent on filtration grade and degree of soiling.