Wedge Wire Screen Cylinders

**I Application**

Suitable for angular filter, straight filter and Y filter in the food-processing, cosmetics, pharmaceutical and some chemical industries. It is widely used for prefiltration of liquids with solids with the size even smaller than the sizes of the perforated sheet.

**I Operating principle**

It consists of v-shaped profiles welded accurately on cross support bars that allows to control the distance between the v-shaped profiles. This distance is the slot opening.

**I Design and features**

Standard version in radial slot execution for filtration from inside to outside.

The features of the wedge wire screen:

- Great mechanical strength
- Highly resistant to abrasivity and vibration.
- It can hold more pressure and temperature compared to the perforated sheet screen.
- Longer screen life.
- Larger useful area than that of the standard perforated sheet screen.

The wedge wire screen can be used in any of INOXPA filters. The wedge wire screen is assembled to the filter body by clamp, this allows an easy and quick disassembling for cleaning. It is possible to clean the wedge wire screen with a reversed flow (back flushing).

Standard slot openings: 0,05 / 0,1 / 0,2 / 0,3 and 0,4 mm.

Available sizes: from DN 25 / DN 1” to DN 100 / DN 4”.

INOXPA®
SOURCE OF SOLUTIONS
I Materials

Screen: AISI 316L
Gaskets: EPDM according to FDA 177.2600
Surface finish: Electro polish

I Options

Gaskets in NBR, FPM (according to FDA 177.2600 on request).
Sizes for solids larger than 0.4 mm on request.
Filtration in radial slots execution from outside to inside on request.

I Technical specifications

Max. pressure: 10 bar
Working temperature: -10 ºC to +120 ºC (EPDM)

Equivalence table

<table>
<thead>
<tr>
<th>Diameter for solid particles [mm]</th>
<th>Microns [μm]</th>
<th>Eq. mesh (approx.)</th>
<th>Standard for</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3000</td>
<td>7</td>
<td>Perforated sheet</td>
</tr>
<tr>
<td>2</td>
<td>2000</td>
<td>10</td>
<td>Perforated sheet</td>
</tr>
<tr>
<td>1.5</td>
<td>1500</td>
<td>12</td>
<td>Perforated sheet</td>
</tr>
<tr>
<td>1</td>
<td>1000</td>
<td>20</td>
<td>Perforated sheet</td>
</tr>
<tr>
<td>0.5</td>
<td>500</td>
<td>30</td>
<td>Perforated sheet</td>
</tr>
<tr>
<td>0.4</td>
<td>400</td>
<td>40</td>
<td>Wedge wire screen</td>
</tr>
<tr>
<td>0.3</td>
<td>300</td>
<td>60</td>
<td>Wedge wire screen</td>
</tr>
<tr>
<td>0.2</td>
<td>200</td>
<td>80</td>
<td>Wedge wire screen</td>
</tr>
<tr>
<td>0.1</td>
<td>100</td>
<td>165</td>
<td>Wedge wire screen</td>
</tr>
<tr>
<td>0.05</td>
<td>50</td>
<td>325</td>
<td>Wedge wire screen</td>
</tr>
</tbody>
</table>