1. Introduction

For typical polishing applications and/or tank filling applications MAHLE Industrial Filtration offers a special range of pulse tube back wash filter equipment with tubular elements cleaned by the back wash principle. Filter elements can be wire mesh, cloth covered or wedge wire elements to suit the filtration needs of the application. All elements are suspended from a tube-sheet clamped between the cover and the tank flange. The PTSWCD filter can be easily integrated in the existing process and its sequence can be automated completely.
2. Standard specifications

Material tank: Carbon steel or stainless steel
Material filter elements: Stainless steel
Design pressure: 6/-1 bar (g) (Other pressures upon request)
Design temperature: 150 °C (Other temperatures upon request)
Operating temperature: depending on the filter media and gaskets used
Design: ASME
Filter medium: Needle felt, mono/multifilament cloth, wedge wire
Approval: PED 97/23/EC, ASME U-stamp, others on request

Maximum differential pressure: 4.5 bar

3. Connection

- Filter equipment with connections for feed/product inlet; filtrate outlet; slurry drain, vent
- Pressure gauge connection
- 2x Instrument connection
- Nozzles: DIN OR ANSI, RF, WN
- Filter with bracket for floor mounting or support legs

4. Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Filter Area [m²]</th>
<th>Number of filter elements</th>
<th>Max. Vessel volume [l]</th>
<th>Pulse buffer tank volume [l]</th>
<th>Weight empty (with elements) [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTSWCD-324/1500/2.4/7</td>
<td>2.4</td>
<td>7</td>
<td>150</td>
<td>20</td>
<td>292</td>
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<tr>
<td>PTSWCD-406/1500/4.5/13</td>
<td>4.5</td>
<td>13</td>
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<td>30</td>
<td>378</td>
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<td>PTSWCD-508/1500/7.6/22</td>
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<td>22</td>
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<td>50</td>
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<td>PTSWCD-610/1500/12.8/37</td>
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<td>580</td>
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<td>672</td>
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<td>PTSWCD-711/1500/19/55</td>
<td>19</td>
<td>55</td>
<td>750</td>
<td>100</td>
<td>830</td>
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</tbody>
</table>

MAHLE Industrial Filtration (Benelux) B.V.
P.O.Box 396, 1800 AJ Alkmaar - The Netherlands
Phone +31 (0) 72 5273400
Fax +31 (0) 72 5125207
industrialfiltration@nl.mahle.com
www.mahle-industrialfiltration.com
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