SPRAY NOZZLES FOR INDUSTRIAL APPLICATIONS

DESCALING TEST BENCH
PNR provides its Customers the possibility to determine the performance of its descaling nozzles using a modern test bench, for a precise measurement of their flow rate at a given pressure.

All descaling parameters are tested and validated with the most advanced measuring instruments and in full compliance with International Standards. The high performance, quality and reliability of PNR descaling nozzles, that have been successfully sold for nearly fifty years to satisfied Customers all over the world, can be supported with lab testing and validation field trials.

### TECHNICAL FEATURES

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure of the piston pump</td>
<td>Max. 300 bar</td>
</tr>
<tr>
<td>Maximum flow rate</td>
<td>Max. 210 l/min</td>
</tr>
<tr>
<td>Distance between the spray tip and the measuring table</td>
<td>Between 50 mm and 500 mm</td>
</tr>
<tr>
<td>Measuring area</td>
<td>Max. 500 x 500 mm</td>
</tr>
<tr>
<td>Nozzle angle inclination</td>
<td>Between 0° and 40°</td>
</tr>
<tr>
<td>Measuring range of frontal diaphragm sensor</td>
<td>Between 0 and 40 bar</td>
</tr>
<tr>
<td>Measuring step on both axis</td>
<td>Between 0,10 mm and 2,00 mm</td>
</tr>
</tbody>
</table>
OUTPU

IMPACT PRESSURE ALONG X AXIS

Effective Alpha Angle = 35.04

LEGENDA

- Maximum pressure value found on the axis
- Maximum pressure value on axis calculated considering the average value of the impact pressure values of the 8 neighboring points, in order to disregard the possible effect of local fluid veins
- Average pressure value found on the axis
- Average pressure value found on the axis calculated considering the average value of the impact pressure values of the 8 neighboring points

IMPACT PRESSURE ALONG Y AXIS

Effective Beta Angle = 2.95

TOP VIEW OF COVERED AREA

Effective impact force [daN] = 7.77698

THREE DIMENSIONAL REPORT

Pressure Impact [bar]

Distance y [mm]

Distance x [mm]
A GLOBAL PRESENCE ALL OVER THE WORLD.

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