ACCESSORIES & FITTINGS

In this section, we show accessories and assembly fittings for a quick and easy installation of our nozzles. The first is a self-cleaning pipe, with its related dimensional drawing and a table with all different possible construction variations. Then the mixing eductors and, finally, wash-guns and hose reels, with a single illustrative picture due to the extremely wide variety of models we can produce and offer. If you have any special request, or if you want to have a complete view of all our accessories and fittings, we suggest you to visit our web site www.pnr.eu or write to info@pnr.it

Self cleaning shower pipes are used in the pulp and paper industry for washing and cleaning forming fabrics and felt. There are two kind of pipes:
1. Low pressure (2 ÷ 6 bar) fixed pipes with flat fan nozzles (PNR nozzle: GE).
2. High pressure (25 ÷ 70 bar) oscillating pipes with straight jet nozzles (PNR nozzle: GEA).

The table on the right shows the minimum and the maximum values for the pipes already produced. We are at your disposal for any request, please contact us at info@pnr.it.
**UPD**

**Connection:**
From 3/4” to 2”
BSPT, NPT

**Materials:**
AISI 316L SS
Glassfibers reinf. PP
PVDF

**Flow rate @ 3 bar:**
From 59,0 to 357 lpm

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet</th>
<th>D</th>
<th>Flow rate (lpm) at different pressure values (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>1,0</td>
</tr>
<tr>
<td>UPD E100</td>
<td>3/4”</td>
<td>10,0</td>
<td>63,0</td>
</tr>
<tr>
<td>UPD H150</td>
<td>1-1/2”</td>
<td>15,0</td>
<td>155</td>
</tr>
<tr>
<td>UPD K200</td>
<td>2”</td>
<td>20,0</td>
<td>206</td>
</tr>
</tbody>
</table>

**UPB**

**Connection:**
From 3/8” to 2”
BSPT, NPT

**Materials:**
AISI 316L SS
Glassfibers reinf. PP

**Flow rate @ 3 bar:**
From 109 to 357 lpm

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet</th>
<th>D</th>
<th>Flow rate (lpm) at different pressure values (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>1,0</td>
</tr>
<tr>
<td>UPB C070</td>
<td>3/8”</td>
<td>7,0</td>
<td>34,0</td>
</tr>
<tr>
<td>UPB E100</td>
<td>1/2”</td>
<td>10,0</td>
<td>63,0</td>
</tr>
<tr>
<td>UPB E100</td>
<td>3/4”</td>
<td>10,0</td>
<td>63,0</td>
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<td>155</td>
</tr>
<tr>
<td>UPB K200</td>
<td>2”</td>
<td>20,0</td>
<td>206</td>
</tr>
</tbody>
</table>
Pulp and paper plants must maintain a high level of cleanliness at all times and strict standards in manufacturing are required to comply with quality control procedures. In addition to our wide range of tank washers for inside cleaning of tanks and vats, we offer a line of products specially designed for efficient cleaning and sanitizing operations in production facilities. This includes:

- professional cleanings guns, max working pressure 350 bar, max working temperature 160 °C
- flexible hoses, up to 50 m, max working pressure 8 bar, max working temperature 160 °C
- hose reels, max working pressure 200 bar, max hose length 70 m

Contact us at info@pnr.it or www.pnr.eu/prodotti/accessories-fittings/ for further information.

As many of the products shown in this catalogue are available in different materials, their identification code in this catalogue is not complete: an alfa-numerical string that must be added to the product code identifies the construction material. The following alfa-numerical strings identify the most used materials:

B1: AISI 303 SS  D6: PP + 30% fiberglass
B31: AISI 316L SS  D82: PVDF KYNAR
C2: AISI 416 SS hardened  E1: PTFE
C7: AISI 316Ti SS  E31: POM DELRIN
D1: PVC  F30: Ruby insert on AISI 303 SS body
F31: Ruby insert on AISI 316L SS body
T1: Brass
V7: Aluminium, electroless nickel plated