The Primetech steam jet liquid pump is a novel device used in elevating & conveying with simultaneous heating of wide range of liquids ranging from feed water to caustic solutions.

**Working philosophy: The Venturi Effect**

- Steam jet liquid pump uses steam as primary fluid to pump liquids which is the secondary fluid.
- The kinetic energy of the steam is utilized to lift the liquid from the customer specified elevation.
- The steam enters the ejector through the nozzle and issues a jet into the mixing chamber.
- Initially, the steam jet and the liquid to be conveyed move as an annular flow.
- Mixing takes place gradually as the steam condenses but usually occurs suddenly at a condensation shock.
- The mixed fluid is discharged through a diffuser which is used for some further static pressure recovery.

**Features**

- **High temperature applications**: due to lack of moving parts, seals & clearance, steam jet liquid pumps can be designed for high temperature applications.
- **Little or no maintenance required**: Absence of moving parts allo less maintenance.
- **Simple & Reliable**: Installation of steam jet liquid pumps are simpler due to absence of moving parts and makes it more reliable.
STEAM JET LIQUID PUMP - E 2400 SERIES

SIMULTANEOUS ELEVATING, CONVEYING & HEATING OF LIQUIDS

Applications

- Elevating & Conveying of highly corrosive solutions such as caustic solutions
- Conveying of liquid chemicals:
  1. Lye Solutions
  2. Tanning Liquors
  3. Milk of lime
- Simultaneous heating of circulating liquids

Dimensions

<table>
<thead>
<tr>
<th>Model Number</th>
<th>E2400.5</th>
<th>E2400.75</th>
<th>E2401(A)</th>
<th>E2401(B)</th>
<th>E2401.25</th>
<th>E2401.5</th>
<th>E2402</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motive Steam Connection</td>
<td>15 NB</td>
<td>20 NB</td>
<td>25 NB</td>
<td>25 NB</td>
<td>32 NB</td>
<td>40 NB</td>
<td>50 NB</td>
</tr>
<tr>
<td>Suction Connection</td>
<td>20 NB</td>
<td>25 NB</td>
<td>32 NB</td>
<td>40 NB</td>
<td>50 NB</td>
<td>65 NB</td>
<td>80 NB</td>
</tr>
<tr>
<td>Discharge Connection</td>
<td>20 NB</td>
<td>25 NB</td>
<td>32 NB</td>
<td>40 NB</td>
<td>50 NB</td>
<td>65 NB</td>
<td>80 NB</td>
</tr>
<tr>
<td>Dimension A (mm)</td>
<td>130</td>
<td>190</td>
<td>205</td>
<td>235</td>
<td>285</td>
<td>380</td>
<td>460</td>
</tr>
<tr>
<td>Dimension B (mm)</td>
<td>50</td>
<td>60</td>
<td>60</td>
<td>70</td>
<td>75</td>
<td>95</td>
<td>110</td>
</tr>
<tr>
<td>Dimension C (mm)</td>
<td>70</td>
<td>80</td>
<td>85</td>
<td>85</td>
<td>100</td>
<td>120</td>
<td>125</td>
</tr>
</tbody>
</table>