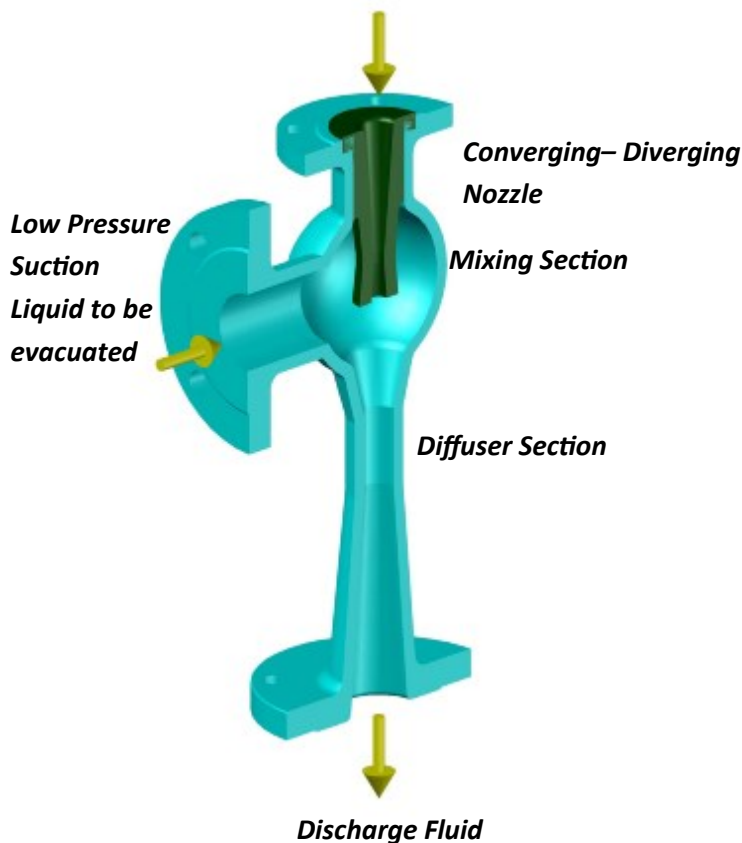


# STEAM JET LIQUID PUMP - E 2400 SERIES

## SIMULTANEOUS ELEVATING, CONVEYING & HEATING OF LIQUIDS



*High Pressure Motive Steam*



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 allow less maintenance.
- **Simple & Reliable:** Installation of steam jet liquid pumps are simpler due to absence of moving parts and makes it more reliable.

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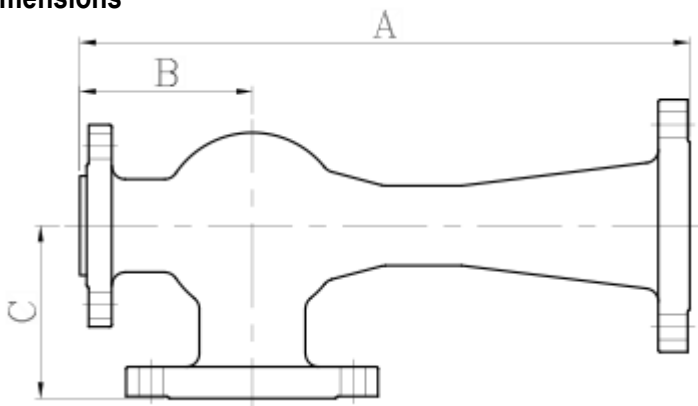
## SIMULTANEOUS ELEVATING, CONVEYING & HEATING OF LIQUIDS

### 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

Process Industry	Textile	Leather
Oil and gas	Pulp and paper	Water treatment

### Dimensions



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