

## Liquid Jet Pumps

Transvac has been manufacturing Liquid Jet Pumps for the process industries for 45 years. From complete packaged systems to single units, all Transvac's products are all custom designed to meet the client's specific requirements.

Using liquid as the motive force, Transvac Liquid Jet Pumps can accurately entrain, mix and dilute a secondary liquid, eliminating the need for mechanical dosing pumps and mixers.

### Typical Applications

- Chemical Dosing & Dilution
- Polyelectrolyte Production
- Ion Exchange Resins
- Activated Carbon / Lime
- Sludge & Slurry Handling
- Caustic / Acid Dosing
- Neutralisation Process
- Blending
- Nuclear waste transfer

### Advantages

- Simple and reliable
- No moving parts
- In-line mixing
- Custom designed
- Materials to suit process
- No maintenance

### Principle of Operation

In operation, a high velocity jet of pressurised liquid discharged from the motive nozzle produces a region of low pressure in the suction chamber that entrains the secondary liquid. The two streams then thoroughly mix in the throat before the resulting mixture flows through the diverging cone to regain some pressure in order to overcome system discharge heads.



Examples of liquid jet pumps