

Sanitary Circulating Tank Eductor Model SCTE

*In sanitary process operations, the mixing and heating of a variety of liquid components is often required. For mixing and blending everything from fluids to heavy slurries, circulating tank eductors provide the perfect mix of efficiency and cost-savings. The Penberthy **Model SCTE** jet pump offers an effective alternative to other mechanical in-tank mixing methods in sanitary applications. Whether used in food & beverage or dairy processing, or pharmaceutical, biotechnology or other specialized chemical processing applications, the Model SCTE functions effortlessly.*

This simple, one-piece unit is constructed of durable, corrosion-resistant 316 stainless steel and is 3-A certified. An inherently non-clogging device, the unit has no moving parts to wear out, which is especially beneficial when processing abrasive mixtures— that means little or no maintenance! The jet pump's design also promotes more thorough mixing than more expensive mechanical mixing systems. Its powerful flow pattern provides complete integration of a wide range of substances in many types of liquids. In situations where sanitary conditions must be maintained, clean-up is fast and easy. The Model SCTE is compatible with CIP/SIP techniques. With its flexibility and many uses, the Model SCTE can integrate easily into numerous sanitary process operations!



Models Available

SCTE



Selection Guide

Fitting these sanitary jet pump/tank eductors to your specific situation requires some data that only you can provide. Complete the application form with the required information below, and then contact your Penberthy sales representative to review the final details that will make selection and sizing of the correct tank eductor for your specific application an easy job.

MOTIVE:

- Operating Liquid(s) Involved
- Pressure (Available)
- Flow Rate (Volume available)
- Temperature
- Specific Gravity/Viscosity

TANK:

- Tank Size (Dimensions)
- Tank Shape
- Maximum Volume (Total amount to be mixed)

TIME:

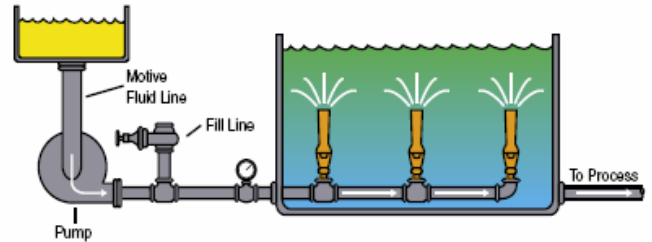
- Time required to achieve uniformity (Turnover rate)

OTHER:

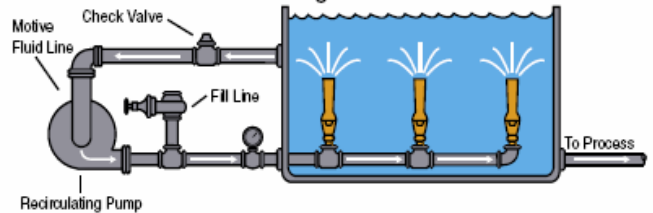
- Solids That Are Involved For Suspension

Typical Applications

Typical Multiple SCTE Installation For Mixing Two Liquids

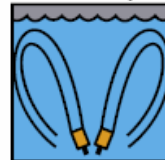


Typical Multiple SCTE Installation For Recirculating Tank Contents



Different Mixing Configurations

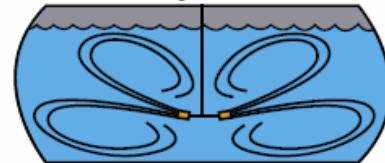
Stratified Layers



Swirl



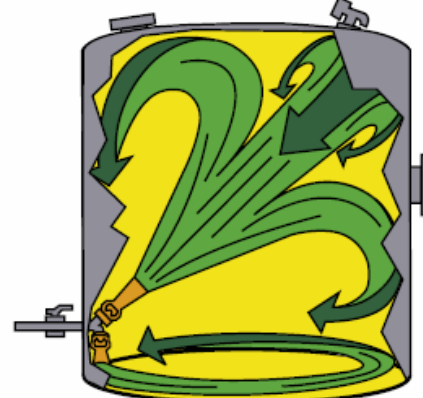
Elongated Tank



Directional Sweep



In-Tank Liquid Mixing



Model Specifications

Model	SCTE Circulating Tank Eductor
Pressure differential of inlet to tank pressure	10-100 psig (70-690 kPag)
Mixing ratio	3:1
Max. operating liquid viscosity	up to 2000 cPs