

SVENMIX

STATIC MIXERS

Chemical
Mixing Systems
Since 1978



SVEN

Sioux Valley Environmental

500 E. Amidon Street
Sioux Falls, SD 57104

 1800-658-3955

 orders@siouxvalleyenvironmental.com

 www.sioxvalleyenvironmental.com

SVENMIX STATIC MIXERS



DESCRIPTION

Sioux Valley Environmental manufactures SVENMIX STATIC MIXERS for inline blending/mixing applications such as flocculation and coagulation, sludge dewatering, chemical blending, and chemical dilution.

SVENMIX STATIC MIXERS are manufactured from PVC and Stainless Steel. Sizes start at ½ in. and come with NPT, Flanged, or Slip (glued) end connections.

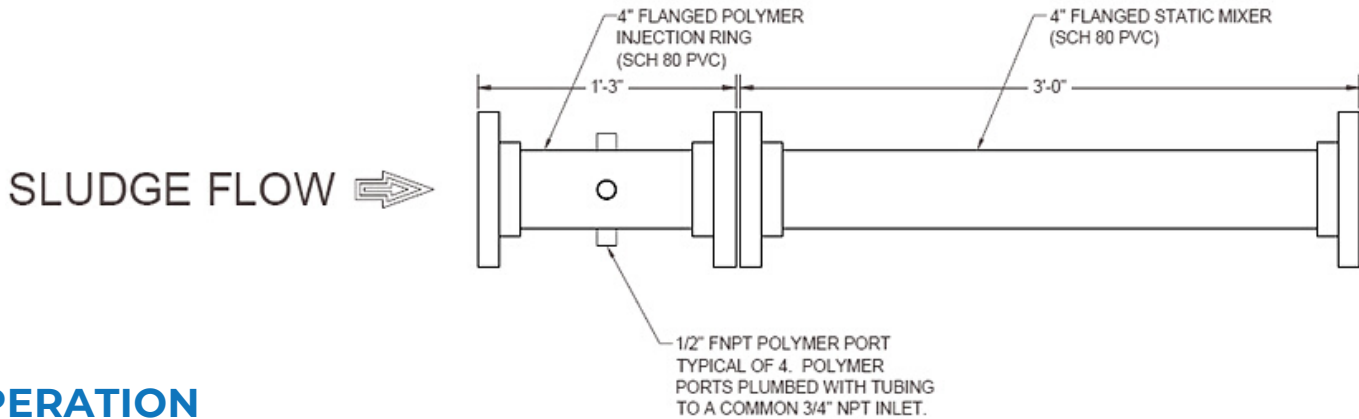
The mixing elements of the SVENMIX STATIC MIXER are designed to provide turbulent and radial-type mixing in the same piece of equipment. The offset placement and open design of the mixing elements provide excellent mixing characteristics with low-pressure loss across the length of the mixer.

No moving parts eliminate the need to inventory spare parts. Low clog potential reduces maintenance concerns.



A SVENMIX STATIC MIXER can be built to match any mixing/blending application.

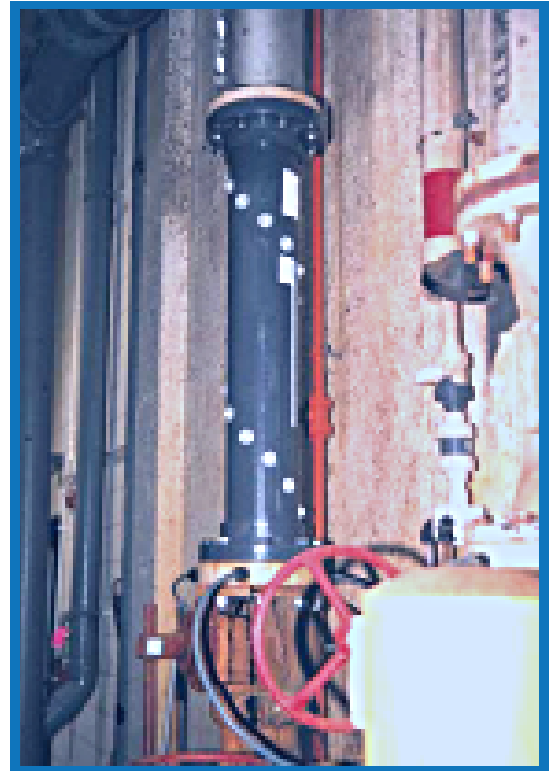
SVENMIX STATIC MIXERS



OPERATION

SVENMIX STATIC MIXERS are used in sludge dewatering applications to mix the polymer solution into the sludge stream. The polymer is injected upline from the mixer. As the sludge and polymer pass through the mixer, the polymer separates the solids from the water and produces floc that is ready for the dewatering process.

SVENMIX STATIC MIXERS for use with Belt Filter Presses, Belt Thickeners, Centrifuges, Rotary Drum Thickeners, or other dewatering devices can be manufactured with integral polymer injection ports.



SVENMIX INJECTION RINGS can be an integral component of the SVENMIX STATIC MIXER or a stand-alone unit to provide an even distribution of chemical solution into the sludge stream.

SVENMIX STATIC MIXERS

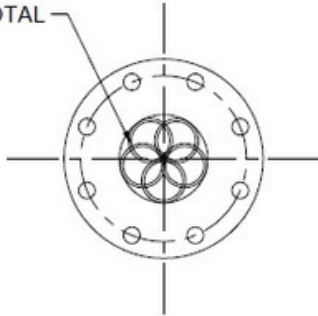
MODEL #SMSTC 4-36-12 SPECIFICATIONS

The Static Mixer shall be constructed of 4" Schedule 80 PVC pipe. Connections shall be ANSI 150# class flanges. Static mixer length shall be 36". The mixer may be mounted in a vertical or horizontal orientation.

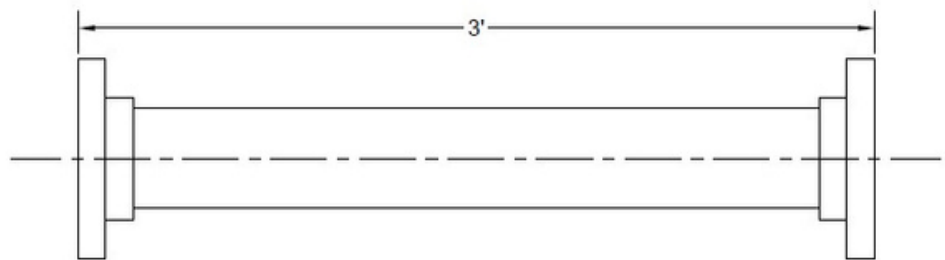
The mixing elements shall be PVC and the fasteners shall be Stainless Steel. The mixing elements shall be of the full ring type. There shall be 12 mixing elements attached to the inside pipe wall and set at a 45° angle to the flow.

Mixing elements shall be spaced a minimum of one element diameter vertically and one element diameter horizontally from the next mixing element to produce a "Spiral Staircase" pattern.

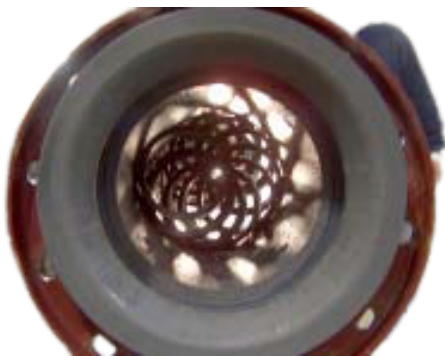
MIXING ELEMENTS
12 TOTAL



END VIEW



SIDE / TOP VIEW



SVENMIX STATIC MIXERS

SPECIFICATIONS

The Static Mixer shall be constructed of Schedule 80 PVC pipe or 304 Stainless steel pipe. Connections may be specified as flanged, MPT, or FPT. Standard lengths are 32", 36", and 48". Units can be fabricated to any length specified. The mixer may be mounted in a vertical or horizontal orientation.

The Mixing elements and fasteners shall be PVC or Stainless Steel. Mixing elements shall be ring or half-ring elements. The mixing elements shall be attached to the inside pipe wall and set at 45° to the flow. Mixing elements will space a minimum of 1 element diameter vertically and 1 element diameter horizontally from the next mixing element. This will produce the "Spiral Staircase" pattern.

An injection port or injection ports are optional. Standard injection ports are 3/4" FPT.

INJECTION RING SPECIFICATIONS

1] The Injection Ring shall be constructed of Schedule 80 PVC. Connections shall be Flanged, MPT or FPT.

2] The Injection Ring shall have four injection ports sized to the required flow. The injection ports shall be spaced evenly around the diameter and each shall have a backflow check valve.

3] The Injection Ring may be mounted horizontally or vertically.

SVENMIX STATIC MIXERS



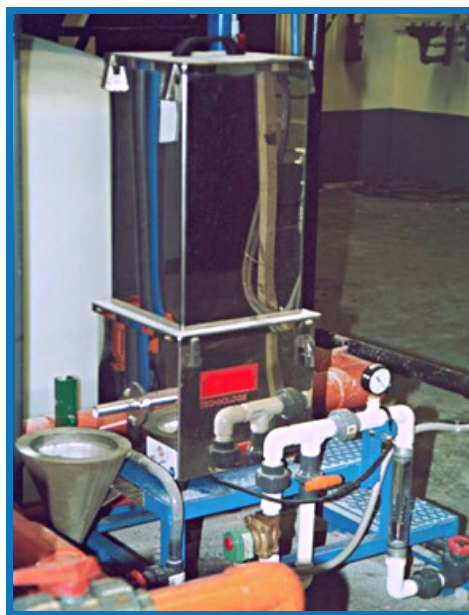
DRY CHEMICAL MIXING SYSTEM



LIQUID POLYMER MIXING SYSTEM



**POLYETHYLENE TANK WITH SVENMIX LS
MIXER AND SECONDARY CONTAINMENT**



DRY POLYMER MIXING SYSTEM