

# SVENMIX PLUS POLYMER MIXING SYSTEM



SVENMIX PLUS



SVENMIX PLUS APD

**SIoux VALLEY ENVIRONMENTAL**

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# **SVENMIX PLUS**

## **POLYMER MIXING SYSTEM**

**SVENMIX is the name for simplicity in polymer mixing/blending systems. The SVENMIX PLUS combines precise control with aggressive four-stage mixing/blending to produce an activated, homogenous solution at the point of application. The SVENMIX PLUS inverts, blends, homogenizes and activates emulsion or solution polymers in one compact, stand alone unit.**

**Precise control is provided by three components. The needle valve built into the flowmeter controls the volume of dilution water. The neat polymer pump, with 100-0% turn down, controls the amount of polymer used. The calibrated, neat polymer reservoir provides a window on the polymer use per hour, per day or per batch.**

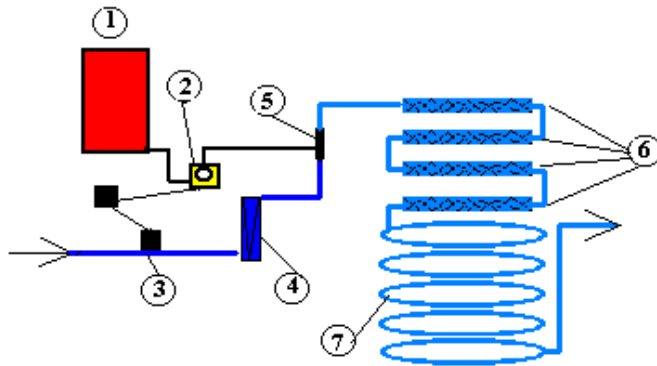
**The SVENMIX PLUS accomplishes the mixing/blending of the polymer by the neat polymer pump injecting polymer into the mixing tee in front of the primary mixing section. The water and polymer are inverted and blended through a series of four static mixers. These are followed by a homogenizing/aging section where the process is completed and a thoroughly mixed and activated solution is supplied to the point of application. The aggressive mixing provided in the first four sections prevents the formation of “fish eyes” that reduce polymer efficiency and increase polymer use.**

**Water flow through the SVENMIX PLUS is initiated by energizing a solenoid valve. The solenoid valve and neat polymer pump are wired in series through a single on-off switch.**

**The neat polymer reservoir mounted on the SVENMIX PLUS provides flooded suction to the neat polymer pump to eliminate priming problems. The SVENMIX PLUS can be hooked directly to a drum, tote or bulk storage tank if required.**

**Analog control for flow proportional applications is available. Post dilution water systems are available in the SVENMIX APD. Extended aging chambers, calibration columns and backflow preventers are also available.**

# SVENMIX PLUS

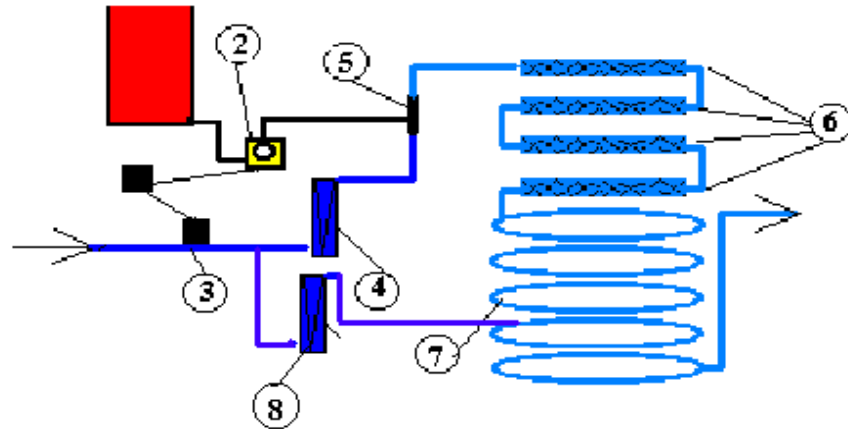


SVENMIX PLUS, Polymer mixing system is an efficient system for producing a homogenous activated polymer solution. The SVENMIX PLUS can be used with either emulsion or solution polymers.

## MAJOR COMPONENTS

1. Integrated calibrated Polymer Reservoir that provides accurate measurement of daily polymer use. The Polymer Reservoir provides flooded suction to the Neat Polymer Pump, which eliminates priming problems.
2. The Neat Polymer Pump has 100% - 0 turn down from maximum capacity. The Neat Polymer Pump injects the polymer into a mixing tee in front of the Primary Mixing Section.
3. The dilution water flows through a Solenoid valve and into the flow meter.
4. The flowmeter measures and controls the amount of dilution water through the system.
5. The Mixing Tee brings the dilution water and the polymer together and outlets into the Primary Mixing Section. This helps eliminate the formation of “fish-eyes”.
6. The polymer and dilution water are blended and mixed through four static mixing sections.
7. The Homogenization section ages the polymer solution and the result is a completely blended and activated polymer solution.

## SVENMIX PLUS APD



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7. The Homogenization section ages the polymer solution and the result is a completely blended and activated polymer solution.
8. The Post Dilution Flowmeter provides additional dilution water to reduce the polymer Concentration delivered to the point of application.

## SVENMIX PLUS

<b>MODEL</b>	<b>DILUTION WATER CAPACITY</b>	<b>NEAT POLYMER MAX. CAPACITY</b>	<b>MIN % SOLUTION</b>	<b>RESERVOIR</b>
SM105P	0-10 GPM	0.42 GPH (10 GPD)	0.01	5.0 Gal.
SM1010P	0-10 GPM	0.42 GPH	0.01	10.0 Gal.
SM145P	0-10 GPM	0.60 GPH (14 GPD)	0.01	5.0 Gal.
SM1410P	0-10 GPM	0.60 GPH	0.01	10.0 Gal.
SM245P	0-10 GPM	1.0 GPH (24 GPD)	0.015	5.0 Gal.
SM2410P	0-10 GPM	1.0 GPH	0.015	10.0 Gal.
SM485P	0-10 GPM	2.0 GPH (48 GPD)	0.02	5.0 Gal.
SM4810P	0-10 GPM	2.0 GPH	0.02	10.0 Gal.
SM6010P	0-10 GPM	2.5 GPH (60 GPD)	0.03	10.0 Gal.
SM9610P	0-20 GPM	4.0 GPH (96 GPD)	0.01	10.0 Gal.
SM19210P	0-20 GPM	7.0 GPH (168 GPD)	0.02	10.0 Gal.
SM24010P	0-20 GPM	10.0GPH(240 GPD)	0.02	10.0 Gal.

### **DIMENSIONS OF SVENMIX PLUS:**

	<b>SVENMIX PLUS</b>	<b>SVENMIX PLUS APD</b>
5.0 Gal. Tank	19" x 20.5" x 35"H	19" x 24" x 35.5"
10.0 Gal. Tank	19" x 20.5" x 39.5"H	19" x 24" x 40"

Automatic controls, higher capacities, and larger reservoirs available. Adapters for connection to totes or bulk tanks available on request.

The standard SVENMIX PLUS requires 120 VAC. If 240 VAC or other power requirements are necessary please contact SVEN.

# SVEN

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# **SIOUX VALLEY ENVIRONMENTAL POLYMER MIXING SYSTEMS**



**SVENMIX PLUS**



**SVENMIX PLUS APD**

**SIOUX VALLEY ENVIRONMENTAL has been building chemical mixing and chemical injection systems for the water and wastewater industries since 1978. The SVENMIX PLUS is just one of a family of polymer mixing systems that includes the SVENMIX.D Dry Polymer Mixing System and the SVENMIX.LD Polymer Mixing System for Liquid and/or Dry polymers.**

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