

## INLINE STATIC MIXER 2850

An inline static mixer that resists plugging from calcium build up.

The Inline Static Mixer Model 2850 is the ideal replacement for plugged up mixers.

A common problem with conventional static mixers is that, when caustics are added, calcium deposits build up on the mixer and block the flow of liquids.

This inline static mixer offers a high performance solution that improves mixing and resists calcium build up.

The plate's singular orifice, with cloverleaf-shaped tabs, generates high-shear mixing. Moving the injection port 1/2 diameter downstream in the pipe from the mixer yields a 200% reduction in the concentration of the injected caustic.

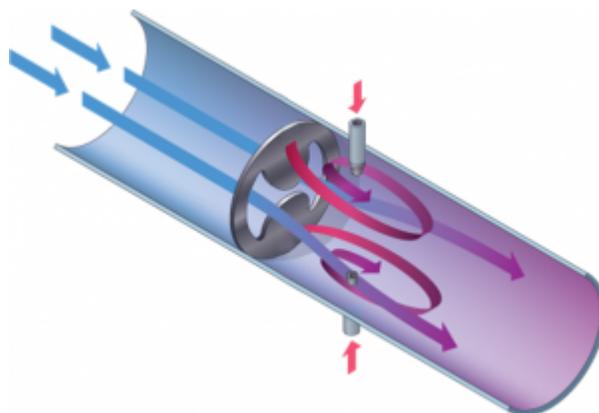
[CFD Analysis discusses moving injection port .5D downstream.](#)

For an easy and affordable drop-in solution to an infrastructure upgrade, the static mixer is custom built inside a pipe that matches the exact dimensions and materials of the pipe being replaced.

The Inline Static Mixer 2850 comes with a choice of orifice sizes, from .7 Beta to .9 Beta, and up to six injection ports.

The larger the orifice, the less plugging, nesting or fouling occurs.

Depending on orifice size, CoV ranges from .008 to .05 and K-Values from 32.59 to 6.78.



## More Than 98% Dispersion Within Ten Pipe Diameters

The fixed plate mixes by a combination of alternate vortex shedding and intense shear zone turbulence to achieve >98% dispersion within 10 pipe diameters downstream.

The Inline Static Mixer can be equipped with any type of flange. Choose 2" to 120" (50.8mm to 3048mm) pipe size in 316 stainless steel, titanium, Hastelloy®, Kynar®, Polypropylene or Fluoropolymer coating.

Corrosion resistant materials include titanium, zirconium or Hastelloy.

Up to six injection ports can be added.

## Usage and Applications

16" Inline Plate Static Mixer 2850

10" Inline T-Mixer

## Common Applications

- Water Treatment
- Waste Water
- Chlorination/De-Chlorination
- Chemical Processing
- Polymer Blending
- pH Control
- Chemical Blending

- Pulp and Paper
- Gel Processing

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## Benefits and Features

Minimal Lay Length
Slim Profile Plate Mixer
Low Cost
Minimal moving parts
Inject Liquids, Gas & Solids
Choice of injection ports and flanges
Contaminant-Free
NSF Certified
Avoids nesting, plugging and fouling
Choice of 3 orifice ratios
Easily ships worldwide
Slim profile packs easily
Easy to clean
Modular construction

**ALL OUR STATIC MIXERS, DE FILTERS AND VENTURI TUBES ARE CUSTOM ENGINEERED AND MANUFACTURED.  
WE STILL SAVE YOU TIME AND MONEY.**