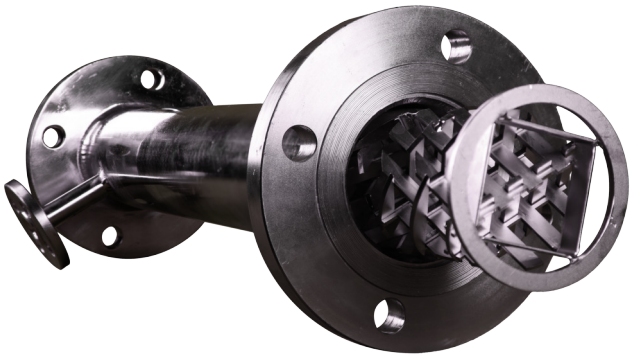
Static Mixer

Product Coding
P61.....

Introduction

Static mixer, also known as a motionless mixer, is an in-line device used to blend fluids by manipulating their flow through fixed internal elements such as plates, baffles, or helical vanes. Installed directly within a pipeline or housing, it works by dividing, recombining, swirling, and layering fluid streams to ensure thorough contact between components.

This design, with no moving parts, offers reliable and maintenance free mixing, making static mixers ideal not only for blending liquids and gases but also for enhancing chemical reactions, dispersion, and heat transfer in a wide range of industrial applications.

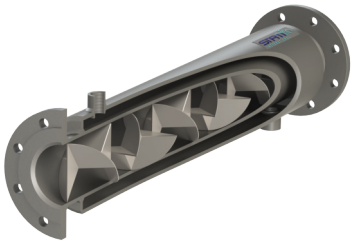


Features

- Low maintenance
- Fewer mechanical failures compared to dynamic mixers
- Energy efficient
- Consistent and uniform mixing
- Easy to clean and sanitize
- Compact and space saving

Applications

- Water and wastewater treatment
- Polymer blending
- Mixing of adhesives and resins
- Gas scrubbing and aeration
- Heat exchange enhancement



KM

Product coding: P610100000

In the KM mixer, the alternating helical elements work to repeatedly split, elongate, and redirect the flow stream, achieving efficient and uniform mixing with a low pressure drop.

KHT

Product coding: P610200000

This mixer consists of a twisted ribbon featuring alternating right and left handed twists, creating a continuous reversing flow pattern that enhances mixing efficiency.

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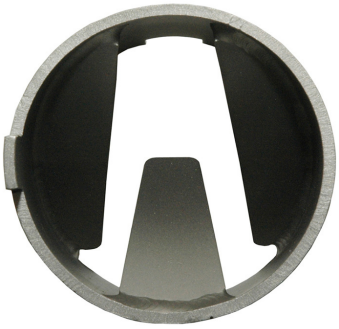
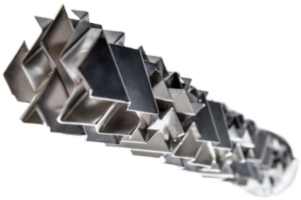


HEV

Product coding: P610300000

The high efficiency vortex (HEV) mixer consists of a series of elements, each made up of four symmetrically placed tabs spaced about 1.5 pipe diameters apart. Unlike traditional helical mixers, which are used for in-line blending under laminar or transitional flow conditions, the HEV mixer is designed for turbulent mixing of gases or miscible liquids. Its configuration allows easy adaptation to both circular and square pipes while maintaining a relatively low pressure drop. Due to these advantages, HEV mixers are widely applied in various industries, including wastewater treatment, exhaust and burner systems, and beverage manufacturing.



SMV

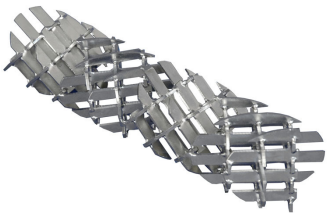
Product coding: P610400000

SMV mixer is composed of multiple layers of corrugated metal sheets arranged at angles of 30° or 45° to the pipe's axis. Each mixing element has a length of about 0.5 to 1.0 times the pipe diameter, with consecutive elements positioned at a 90° rotation to one another. The hydraulic diameter of the mixer depends on either the corrugation height or the number of stacked sheets used in its construction.

SMX

Product coding: P610500000

Guide vane mixers consist of intersecting bars set at a 45° angle to the pipe axis. Each mixing element has a length equal to one pipe diameter, and successive elements are rotated 90° relative to each other to enhance mixing efficiency.



SMXL

Product coding: P610600000

This mixer is similar to the SMX design but features intersecting bars set at a 30° angle to the pipe axis. It generally contains fewer bars per element, and the length of each element varies based on the specific application requirements.