PRODUCT DATASHEET

Special-Alloy Static Mixer

Static mixers and injection spools in C-276, 625 and super duplex

Product page





Close-up: helical mixing elements

OVERVIEW

The Tech Inc. Special-Alloy Static Mixer blends an injected chemical into the main stream within a few pipe diameters, with no moving parts. We build the mixing elements and spools in C-276, Alloy 625 and super duplex, so they survive the concentrated chemical at the injection point.

TYPICAL DESIGN DATA

Materials	C-276, Alloy 625, super duplex 2507, duplex 2205, 316L
Ratings	ASME class 150 to 2500
Design code	ASME B31.3
Mixing	Coefficient of variation to suit the process, typically below 0.05
Inspection	PMI, dye-penetrant and hydrotest
Data	Pressure drop and mixing calculation with each mixer

MODELS AND CAPACITIES

- **TI-SSM-025** – 1 inch line, 6 to 12 elements
- **TI-SSM-050** – 2 inch
- **TI-SSM-100** – 4 inch
- **TI-SSM-200** – 8 inch
- **TI-SSM-400** – 16 inch, plate type

Line sizes; the number of elements is set by the flow and the mixing required.

ORDERING CODE

Example **TI-SSM-100-H-276-300**: **100** line size, mm (100 = 4 inch); **H** type: H helical, P plate, Q injection spool with quill, R removable insert; **276** material: 276 C-276, 625, SD 2507, D 2205, 316; **300** flange class.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** integrated injection quill; removable insert for an existing pipe; sampling connection downstream; spare elements.

KEY ADVANTAGES

- **No moving parts** – nothing to maintain
- **Short mixing length** – even concentration within a few diameters
- **Resistant at the hot spot** – alloy where the chemical is strongest
- **Calculated** – pressure drop and mixing quality supplied

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Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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