

Storm Mixer



Series “SMS” Stainless Steel In Line Static Mixers



The SMS series of static mixers are high performance mixers designed to meet a wide range of mixing applications. These cost effective solutions offers consistent mixing results.

BENEFITS

- High mixing shear.
- Low cost, economic design reduces static mixer costs.
- Broad chemical compatibility allows for a wide range of uses.
- Can be customized to fit your requirements.
- Low energy consumption.
- Easy installation.
- No maintenance.

APPLICATIONS

- Disinfection/Chlorination/Ozonation
- Chemical Mixing
- Coagulation/Flocculation
- Mixing gases with liquid
- Sampling
- pH Control

SPECIFICATIONS

MATERIALS OF CONSTRUCTION

304 or 316 SS is available. Other material is available as a custom.

CHEMICAL COMPATIBILITY

Stainless Steel displays excellent corrosion resistance. Stainless is a good choice for mixing a wide variety of chemicals including caustic, dilute acids, organic compounds & solvents. Stainless steel can also be used for diluting small quantities of concentrated acids into water or small amounts of chlorine for disinfection purposes.

END FITTINGS

SMS Series In Line Mixers are available with:

- Flanged ends (including slip-on & weld neck style)
- Plain ends suitable for welding
- Threaded Ends (up to 3” dia)
- Grooved ends

MIXING ELEMENTS

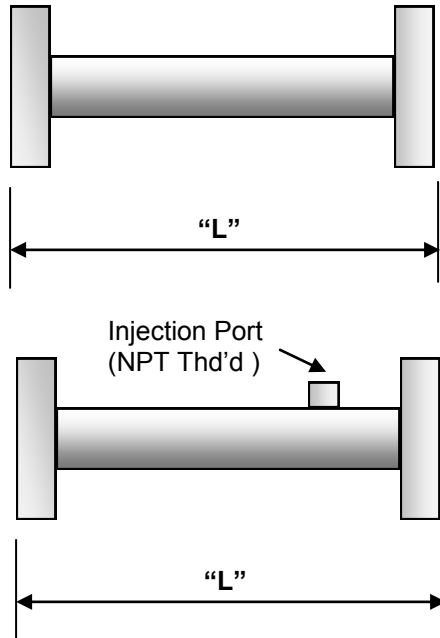
SMS mixers uses a series of 4 to 8 eccentric mixing elements. Each element spins the fluid stream using spiral tornado-like twisting forces that are repeatedly reversed to create a series of impacts for the highest levels of mixing.

INJECTORS & ACCESSORIES

A wide range of injectors, additive and sampling ports can be integrated into the static mixer.

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MIXER DIMENSIONS



Size of Optional Injection Ports (NPT) (other sizes are available)	
Pipe Diameter	Injection Port
1/2"	1/4"
3/4"	1/4"
1"	1/2"
1-1/2"	1/2"
2"	1/2"
2-1/2"	1/2"
3"	3/4"
4"	3/4"
6"	3/4"
8"	3/4"
10"	3/4"
12"	1"
Call Storm Mixer for larger sized mixers. All options are available	

Length of Static Mixer				
Pipe diameter	Length of Mixer "L"			
	4 element	6 element	8 element	Additional length for a single injection port
1/2"	2	3	4	3
3/4"	3	4	5	3
1"	4	5	6	3
1-1/2"	5	7	9	3
2"	7	9	13	3
2-1/2"	8	12	14	3
3"	9	14	16	4
4"	11	16	21	4
6"	16	24	32	6
8"	21	33	42	6
10"	26	40	52	8
12"	32	48	62	8
14"	Call for Lengths. Mixers can be supplied to meet your specifications			
16"				
18"				
20"				
24"				
30"				
36"				
48" & Larger				

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CHOOSING A STATIC MIXER

Recommended Flow Range

The recommended flow range will ensure a maximum pressure drop of 5 psi for water based chemicals and ensure good mixing.

Lower pressure drop styles of mixing elements if needed.

Using additional elements will improve mixing.

Contact us or see www.stormmix.com for additional information.

If you have special requirements, or lower pressure drop, requirements, please contact us for specifications.

Pipe diameter	Flow Range Minimum/Maximum (gpm)		
	4 element	6 element	8 element
1/2"	1.9 / 10	1.5 / 7	1 / 6
3/4"	3.4 / 17	2.5 / 12	1.7 / 10
1"	5.4 / 27	4.1 / 19	2.7 / 17
1-1/2"	13 / 64	10 / 45	7 / 39
2"	21 / 105	16 / 74	11 / 63
2-1/2"	30 / 150	23 / 105	15 / 90
3"	47 / 231	35 / 162	24 / 139
4"	80 / 398	60 / 279	40 / 239
6"	181 / 902	136 / 632	91 / 541
8"	313 / 1,562	235 / 1,093	157 / 937
10"	493 / 2,461	370 / 1,723	247 / 1,477
12"	699 / 3,494	524 / 2,446	350 / 2,096
14	861 / 4,304	646 / 3,013	431 / 2,582
16	1,141 / 5,701	856 / 3,991	571 / 3,421
18	1,459 / 7,294	1,094 / 5,106	730 / 4,376
20	1,817 / 9,083	1,363 / 6,358	909 / 5,450
22	2,214 / 11,068	1,661 / 7,748	1,107 / 6,641
24	2,650 / 13,250	1,988 / 9,275	1,325 / 7,950
30	4,194 / 20,970	3,146 / 14,679	2,097 / 12,582
36	6,091 / 30,455	4,569 / 21,319	3,046 / 18,273
40	7,552 / 37,759	5,664 / 26,432	3,776 / 22,656
48	10,944 / 54,720	8,208 / 38,304	5,472 / 32,832

