

Storm Mixer



Series “SMLP” Low Pressure Drop In Line Static Mixers



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

BENEFITS

- Low pressure drop mixing
- High mixing shear.
- Low cost, economic design reduces static mixer costs.
- Can be customized to fit your requirements.
- Low energy consumption.
- Easy installation.
- No maintenance.

APPLICATIONS

- Chemical Mixing
- Oil & Gas
- Process water
- Potable water
- Biofuel

SPECIFICATIONS

MATERIALS OF CONSTRUCTION

Available in a wide range of materials including PVC, CPVC, carbon steel, fiberglass, stainless steel, PVDF, Monel, and Hastelloy.

END FITTINGS

SMLP 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

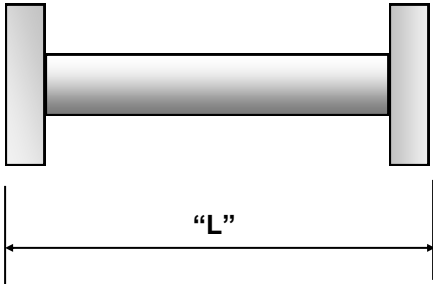
SMLP mixers uses a series of 4 to 8 eccentric mixing elements. Each element spins the fluid stream using spiral tornado-like twisting forces that are repeatedly reversed to create a series of impacts for the highest levels of mixing.

INJECTORS & ACCESSORIES

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

Series "SMLP"
Carbon Steel
In Line Static Mixer

MIXER DIMENSIONS



Length of Static Mixer				
Pipe diameter	Length of Mixer "L"			
	4 element	6 element	8 element	Additional length for a single injection port
2"	4	6	8	4
2-1/2"	5	8	11	4
3"	6	9	12	6
4"	8	12	16	6
6"	12	18	24	6
8"	16	24	32	6
10"	20	30	40	8
12"	24	36	48	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

With these low pressure drop mixing elements, the recommended flow range will ensure a maximum pressure drop of 2.1 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
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

Series "SMLP" Carbon Steel In Line Static Mixer

ORDERING INFORMATION

OPTIONAL PORT

SMLP											
Material		Nominal Pipe Dia.		End Configuration		# of Elements		Type of Element		Port	
<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>End Style</u>	<u>Code</u>	<u># of elements</u>	<u>Code</u>	<u>Type</u>	<u>Code</u>	<u>Type</u>
CS	Carbon Steel	2	2"	FS	Flanged RFSO	4	4	S	Standard	P	Port (see table for size)
P	PVC	2.5	2-1/2"	FW	Flanged RFWN	6	6	<i>Lower dP elements are available</i>			
CP	CPVC	3	3"	P	Plain	8	8				
K	KYNAR	4	4"	G	Grooved	<p>Plastic pipe is schedule 80.</p> <p>Steel Pipe wall thickness schedule 40 for pipe sizes up to 10". Larger diameter mixers have a 3/8" wall thickness. Other schedule pipe is available.</p> <p>Standard flanges are 150#. Other flanges classes (300#, 600# etc. are available).</p>					
H	HASTELLOY	6	6"	T	Threaded (up to 3"dia)						
304L	304L SS	8	8"								
316L	316L SS	10	10"								
		12	12"								
		14	14"								
		16	16"								
		18	18"								
		20	20"								
		24	24"								
		30	30"								
		36	36"								
		48	48"								

Other types of materials are available

*Custom sizes and materials are available.
Contact Storm Mixer for more information*

Example of a model number would be "SMLPH6FS4S". For the optional threaded injection port, add a "P" at the end

Any model that requires custom features (such as different sizes/lower pressure drops/types/quantities of ports, injectors, etc.) that are not listed will be given a custom model number such as "SMLP <number>".

For further sizing information see the www.stormMix.com website.

TECHNICAL SUPPORT and PRODUCT ORDERING

Storm Mixer provides unsurpassed product performance and value for our customers. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor. Information on product specifications, application and chemical compatibility can be found on our web site at www.stormMix.com.

This information is provided as a guide to assist you in selecting a product and options appropriate to your application. Specifications are nominal and are subject to change without notice. Detailed technical information and selection assistance are available from the company.

DISTRIBUTED BY:



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