

Storm Mixer



Series "SMP" PVC & CPVC In Line Static Mixers



The SMP 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

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

SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PVC or CPVC plastic

Fabricated from NSF 61 rated materials for full compatibility with potable water requirements. Material is ASTM D 1784, *Standard specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds*.

CHEMICAL COMPATIBILITY

PVC & CPVC are good choices for a wide variety of chemicals including chlorine and disinfection products, acids, alkalis, various salt solutions, alcohols, and many other chemicals.

PRESSURE RATING

150 psi (10 bar) at 100°F (38°C).

END FITTINGS

SMP Series In Line Mixers are available with:

- Flanged ends
- Plain ends
- Threaded Ends
- Unions

MIXING ELEMENTS

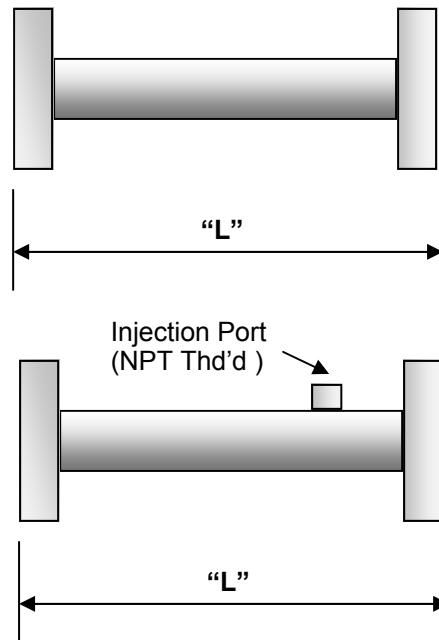
SMP mixers uses a series of 4 to 8 eccentric mixing elements. Each element spins the fluid stream using spiral tornado-like twisting forces that are repeatedly reversed to create a series of impacts for the highest levels of mixing.

INJECTORS & ACCESSORIES

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

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MIXER DIMENSIONS



Pipe diameter	Length of Static Mixer			
	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

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.

Using additional elements will improve mixing.

See Website for additional information

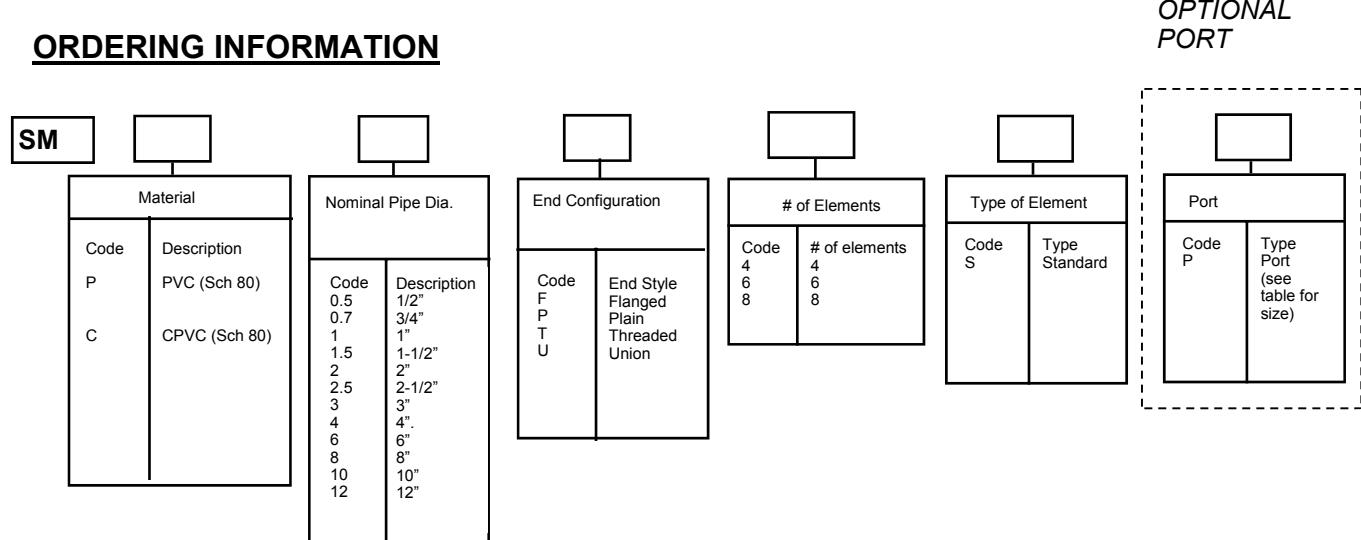
Pipe diameter	Flow Range Minimum/Maximum (gpm)		
	4 element	6 element	8 element
1/2"	1.4 / 7	1.1 / 5	0.7 / 5
3/4"	2.6 / 13	2 / 9	1.3 / 8
1"	4.3 / 22	3.3 / 16	2.2 / 13
1-1/2"	11 / 54	9 / 38	6 / 33
2"	18 / 90	14 / 63	9 / 54
2-1/2"	26 / 129	20 / 90	13 / 78
3"	41 / 202	31 / 141	21 / 121
4".	71 / 352	53 / 246	36 / 211
6"	160 / 799	120 / 560	80 / 480
8"	281 / 1403	211 / 982	141 / 842
10"	442 / 2209	332 / 1547	221 / 1326
12"	626 / 3127	469 / 2189	313 / 1876

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"	3/4"

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ORDERING INFORMATION



Example of a model number would be “ SMP1F4S”. For the optional threaded injection port, add a “P” at the end

Any model that requires custom features (such as different sizes/types/quantities of ports, injectors, etc.) that are not listed will be given a custom model number such as “SMP *<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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