

Storm Mixer



Series “SMK” PVDF In Line Static Mixers



The SMK series of static mixers are designed for applications where PVDF (polyvinylidene fluoride) is the preferred material.

BENEFITS

- Broad chemical compatibility allows for a wide range of uses.
- Good abrasion resistance
- Higher temperature resistance
- High mixing shear.
- Can be customized to fit your requirements.
- Low energy consumption.
- Easy installation.
- No maintenance.

APPLICATIONS

- Concentrated acid dilution
- Chemical Mixing
- Slurry
- Chlorination/Disinfection
- Chlorine gas mixing

Kynar® is a trademark of Arkema Inc.

SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PVDF (polyvinylidene fluoride) often referred to by its trade name Kynar®, is a high purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability.

CHEMICAL COMPATIBILITY

PVDF is a good choice for a variety of chemicals including chlorine, strong acids and other chemicals where low extractables and heat resistance is important. The abrasion resistance is good for slurry (hard particles) applications.

PRESSURE RATING

150 psi (10 bar) at 100°F (38°C).

END FITTINGS

SMK Series In Line Mixers are available with:

- Flanged ends
- Plain ends
- Threaded Ends

MIXING ELEMENTS

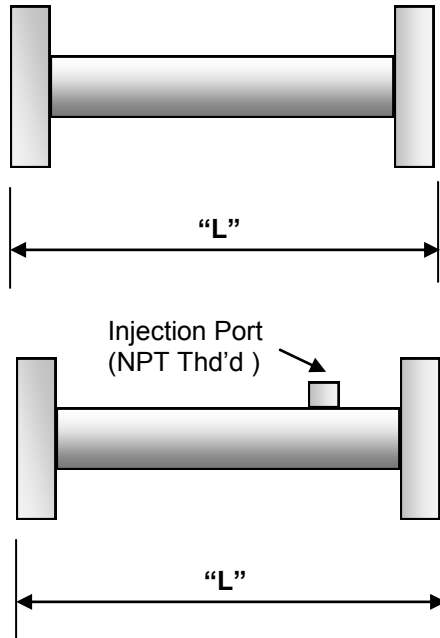
SMK mixers uses a series of 4 to 8 eccentric mixing elements. Each element spins the fluid stream using spiral tornado-like twisting forces that are repeatedly reversed to create a series of impacts for the highest levels of mixing.

INJECTORS & ACCESSORIES

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

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MIXER DIMENSIONS



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

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

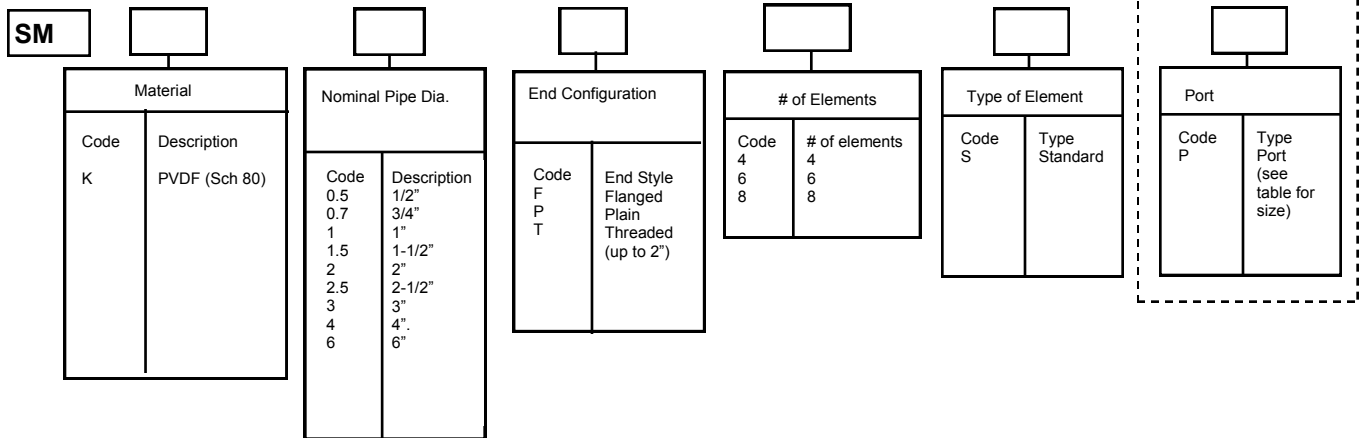
Pipe diameter	Flow Range Minimum/Maximum (gpm)		
	4 element	6 element	8 element
1/2"	1.4 / 7	1.1 / 5	0.7 / 5
3/4"	2.6 / 13	2 / 9	1.3 / 8
1"	4.3 / 22	3.3 / 16	2.2 / 13
1-1/2"	11 / 54	9 / 38	6 / 33
2"	18 / 90	14 / 63	9 / 54
2-1/2"	26 / 129	20 / 90	13 / 78
3"	41 / 202	31 / 141	21 / 121
4"	71 / 352	53 / 246	36 / 211
6"	160 / 799	120 / 560	80 / 480

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"

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ORDERING INFORMATION

OPTIONAL
PORT



Example of a model number would be “SMK1F4S”. 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 “SMK <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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