

Furon® Static Mixer

1/2" & 1"



Efficient Mixing of Liquid Media with No Moving Parts

Furon®'s Static Mixer offers an innovative and efficient means of mixing two or more chemistries with minimal pressure loss. Its compact, inline design allows for easy installation into existing pipelines. Our Static Mixer contains no moving parts, assuring low operating costs and long life. Internal mixing components are removable, allowing for easy maintenance and cleaning. Outlet end connection types and sizes can be easily changed to accommodate a variety of piping configurations. All components are constructed from 100% virgin PTFE and high-purity PFA, making the Furon® Static Mixer ideal for use with both ultra-pure and high corrosive chemistries. In addition, our Static Mixer is 100% metal free, eliminating the potential for ionic contamination.

Features/Benefits

- Mixes two or more chemistries with no moving parts
- Ideal for high purity mixing applications
- Low pressure drop (1/2" version: < 9 psi @ 5.3 GPM; 1" version: < 11 psi @ 13.2 GPM)
- Constructed from 100% virgin PTFE and high-purity PFA
- Internal mixing components removable for easy cleaning and maintenance
- Innovative, compact design
- Wetted materials compliant with USP Class VI requirements

Typical Applications

- Mixing of wet ingredients in chemical processing and manufacturing operations
- Blending catalyst, dye, or additive into a liquid media
- Dilution of solvents and aggressive chemicals
- pH control
- Mixing of chemicals in Semiconductor and Photovoltaic wet processes

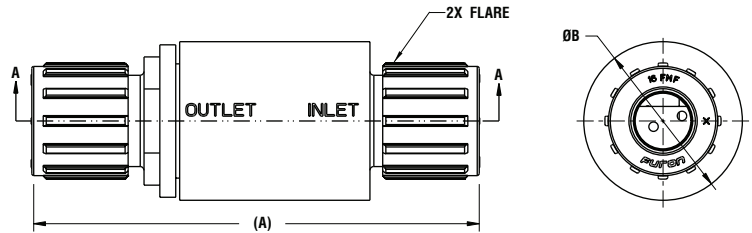
Furon® Static Mixer 1/2" & 1"

Ordering Information

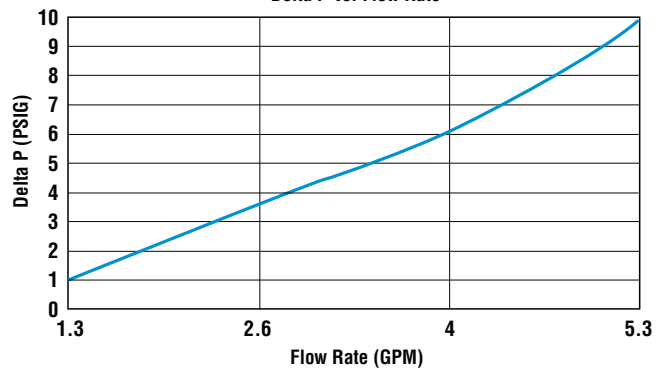
Part No.	End Connection	C _v	Max. Flow Rate	A	ØB
SM-F88-1	1/2" Flare	1.75	5.3 GPM (20 l/min)	5.40" (137.2 mm)	1.50" (38.1 mm)
SM-F1616-1	1" Flare	4.1	13.2 GPM (50 l/min)	7.02" (178.3 mm)	2.60" (66.0 mm)

Specifications And Performance

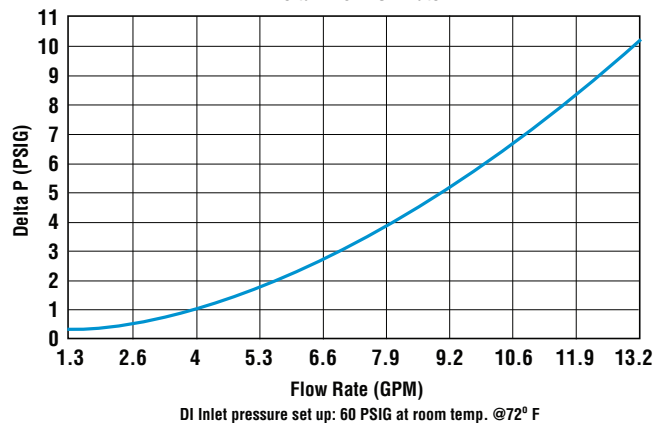
- Flow Rate:
 - 1/2" Version: 5.3 GPM (20 l/min) maximum
 - 1" Version: 13.2 GPM (50 l/min) maximum
- Maximum Pressure Drop:
 - 1/2" Version: 9.0 PSID @ 5.3 GPM (20 l/min)
 - 1" Version: 10.0 PSID @ 13.2 GPM (50 l/min)
- C_v Flow Factor:
 - 1/2" Version: 1.75
 - 1" Version: 4.1
- Media operating temperature: 41°F to 212°F (5°C to 100°C)
- Media operating pressure: 90 PSIG max at room temperature
- Materials:
 - Body and Mixing Elements: High-Purity PTFE and Fluoroloy®-T
 - Nuts: PVDF



1/2" Static Mixer
Delta P vs. Flow Rate



1" Static Mixer
Delta P vs. Flow Rate



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