

Storm Mixer



Series "WAS"

316 SS Compact Ring Body Static Mixer

Wafer Style In Line Static Mixers



Storm Mixer's wafer mixer is the perfect solution when space and lay length are at a premium. Designed to fit between flanges, this compact static mixer provides excellent mixing and low cost in a space saving package

With a wide range of options and styles available, Storm wafer style mixers can easily be adapted to meet the exacting needs of your specific application.

BENEFITS

- Compact Design.
- 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.

FEATURES

- Easy installation in pipelines. Fits within the bolt circle of pipe flanges.
- All 316 SS construction insures chemical compatibility with a wide range of chemicals.
- Unique design of mixing elements provide high levels of mixing in a short lay length.
- Adaptable to both liquid and gas stream applications.
- Available in standard and low pressure drop versions.

APPLICATIONS

- Chlorine
- Ammonia
- Flocculants
- Antiscalants
- Fluoride

Wafer mixers work best when mixing aqueous/ low viscosity chemicals. For viscous chemicals such as concentrated acids and polymers, a pipe style static mixer provides superior performance.

SPECIFICATIONS

Standard SS wafer mixers available in a range of sizes from 1/2" to 36".

Available with a wide range of injectors and additive ports

MATERIALS OF CONSTRUCTION

316 Stainless Steel

MODEL NUMBER



WAS-20- S - _____

SS Wafer Mixer Prefix

Custom number to designate special configurations, ports, and injectors

| Wafer Mixer Nominal Diameter (in) For 125/150# flanges | |
|--|------|
| Nominal Dia. | Code |
| 1/2" | 0A |
| 1 | 01 |
| 2 | 02 |
| 3 | 03 |
| 4 | 04 |
| 6 | 06 |
| 8 | 08 |
| 10 | 10 |
| 12 | 12 |
| 14 | 14 |
| 16 | 16 |
| 18 | 18 |
| 20 | 20 |
| 22 | 22 |
| 24 | 24 |
| 36 | 36 |
| Other sizes are available. | |

| Aspect | |
|------------|---|
| Low dP | L |
| Standard | S |
| High Shear | H |

Example of a model number would be "WAS-12-S".
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 "WAS<number>".

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

Storm SS Wafer Mixer "TYPICAL SPECIFICATION"

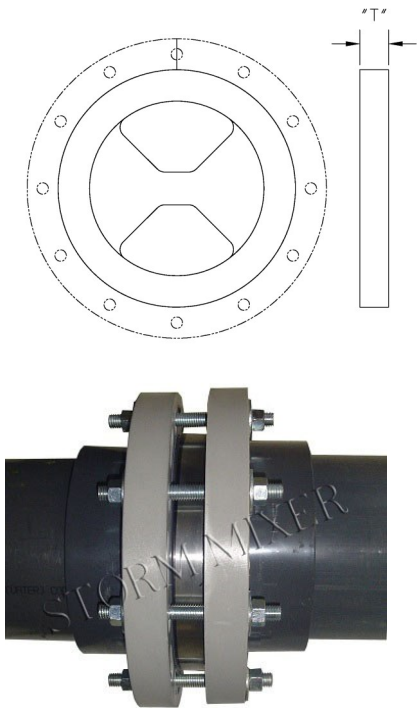
Storm SS Wafer Static Mixer

The mixer shall be a wafer style mixer. The compact ring body shall be constructed from 316 SS. All chemical injection should occur upstream of the mixing plate to ensure complete diffusion before mixing. The mixer shall provide for complete mixing with a maximum of 5% variation within 10 pipe diameters of the mixer.

The mixer shall be Model "WAS-____" manufactured by Storm Mixer or equal that has been preapproved by engineer before the bid.

| Wafer Mixer Thickness ¹ | |
|------------------------------------|--------------------------|
| Mixer size nominal diameter (in) | Mixer thickness "D" (in) |
| 1/2"-2" | 1/4" |
| 2-1/2" - 12" | 1/2" |
| 14" -36" | 1" |

¹ Thickness is for a wafer that does not have any integrated ports or injectors. Ports will add thickness to the wafer.



The Storm Wafer Mixer is designed to fit within the bolt circle of the flange. The wafer is installed between flanges using a set of (2) ring style gaskets.

Flow Recommendations & Pressure Drop Calculation

(Sized for 5 psi pressure drop at maximum flow)

In general a larger pressure drop improves mixing.

| Nominal Dia | Flow Range Minimum/Maximum (gpm) | | |
|-------------|----------------------------------|--------------|-----------------------|
| | "L" Low dP Design | "S" Design | "H" High Shear Design |
| 1/2 | 1.9 / 10 | 1.5 / 7 | 1 / 5 |
| 3/4 | 3.4 / 17 | 2.5 / 12 | 1.7 / 9 |
| 1 | 5.4 / 27 | 4.1 / 19 | 2.7 / 14 |
| 1 1/2 | 13 / 64 | 10 / 45 | 7 / 32 |
| 2 | 21 / 105 | 16 / 74 | 11 / 53 |
| 2 1/2 | 30 / 150 | 23 / 105 | 15 / 75 |
| 3 | 47 / 231 | 35 / 162 | 24 / 116 |
| 4 | 80 / 398 | 60 / 279 | 40 / 199 |
| 6 | 181 / 902 | 136 / 632 | 91 / 451 |
| 8 | 313 / 1562 | 235 / 1093 | 157 / 781 |
| 10 | 493 / 2461 | 370 / 1723 | 247 / 1231 |
| 12 | 699 / 3494 | 524 / 2446 | 350 / 1747 |
| 14 | 861 / 4304 | 646 / 3013 | 431 / 2152 |
| 16 | 1141 / 5701 | 856 / 3991 | 571 / 2851 |
| 18 | 1459 / 7294 | 1094 / 5106 | 730 / 3647 |
| 20 | 1817 / 9083 | 1363 / 6358 | 909 / 4542 |
| 22 | 2214 / 11068 | 1661 / 7748 | 1107 / 5534 |
| 24 | 2650 / 13250 | 1988 / 9275 | 1325 / 6625 |
| 30 | 4194 / 20970 | 3146 / 14679 | 2097 / 10485 |
| 36 | 6091 / 30455 | 4569 / 21319 | 3046 / 15228 |

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

DISTRIBUTED BY:

Storm Mixer

Tel : 925 800 1467
 Fax: 925 575 8726
 email: info@stormmix.com

© 2013 Storm Mixer.

WAS Rev D

