

# STATIC MIXING

THE WORLD'S MOST  
**P R E C I O U S**  
R E S O U R C E

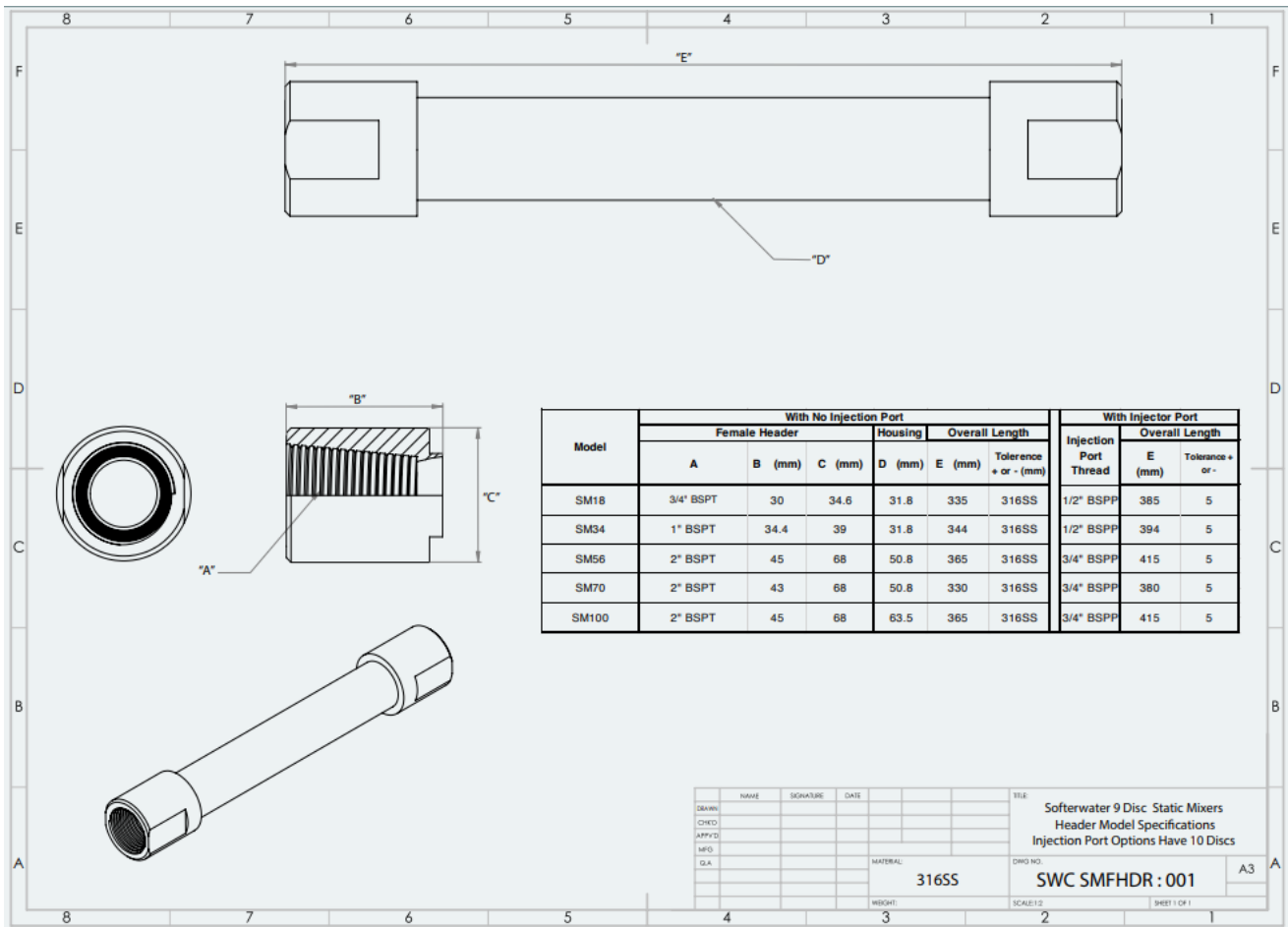


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IGS Asia Pacific,  
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DESIGN	NAME	SIGNATURE	DATE	TITLE
CHECKED				Softerwater 9 Disc Static Mixers Header Model Specifications
APPROVED				Injection Port Options Have 10 Discs
ISSUED				
Q.A.				
	MATERIAL:	316SS		DWG NO. SWC SMFHDR : 001
	WEIGHT:			SCALE: 1:2
				SHEET 1 OF 1

# technical information, results and advantages

## HOW IT WORKS

Static mixers are used for the continuous mixing of fluid and gas into water streams.

IGS Water 316SS inline plate static mixers significantly reduce the time required for the mixing process. Areas of high and low pressure are generated throughout each chamber in the static mixer creating intense turbulence resulting in a thorough mix of fluid or gasses being injected into the system.

## INJECTION MODEL OPTIONS

Fluid and gasses injection into the injection module is by either a chemical pump or a gas pump.

The pump needs to be sized correctly so that the pressure of the fluid or gas being injected is greater than the pressure of the water carrying system.

## Static Mixers

Using only 316SS headers/flanges, housings and mixing plates IGS Water static mixers can be manufactured to meet your specific requirements.

## Manifolded Static Mixers

For larger flow rates manifold smaller mixing chambers for a better result!

## Inline Port Module

Designed with a single in line port. Designed for use with either fluid or gas. Can be supplied with 1, 2 or more injection port

## Diffuser Probe Module

Designed with single diffuser probe that can be removed to be cleaned. Designed for use with gas injection. Gasses injected would generate a set of finer bubbles.

## Diffuser Ring Module

Supplied with Tri-clover fittings so that it can be removed and cleaned should it become blocked. Designed for use with gas injection Gasses injected would generate a set of finer bubbles.

## Bubble Mixer Plate

Installing a bubble mixer plate in the static plates breaks up the turbulent flow further mixing the fluid or gas with the water stream. Fluid or gas passed over the bubble mixer is further thoroughly mixed in several turbulent chambers before passing through the system. Consider adding 1 or more bubble mixer plates to your static mixer design

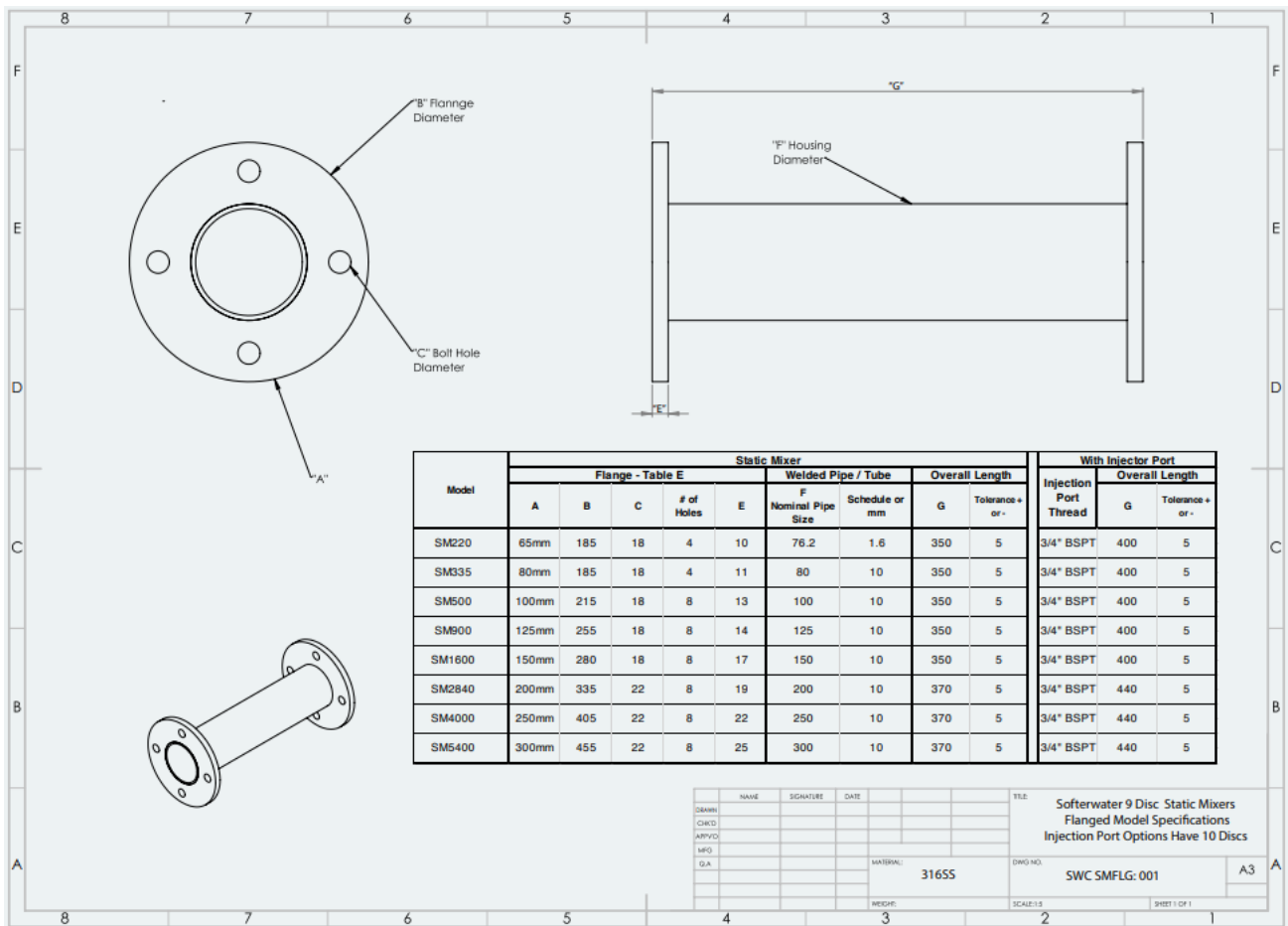


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# applications



**Cooling Towers**



**Commercial**



**Irrigation**



**Wastewater Treatment**



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