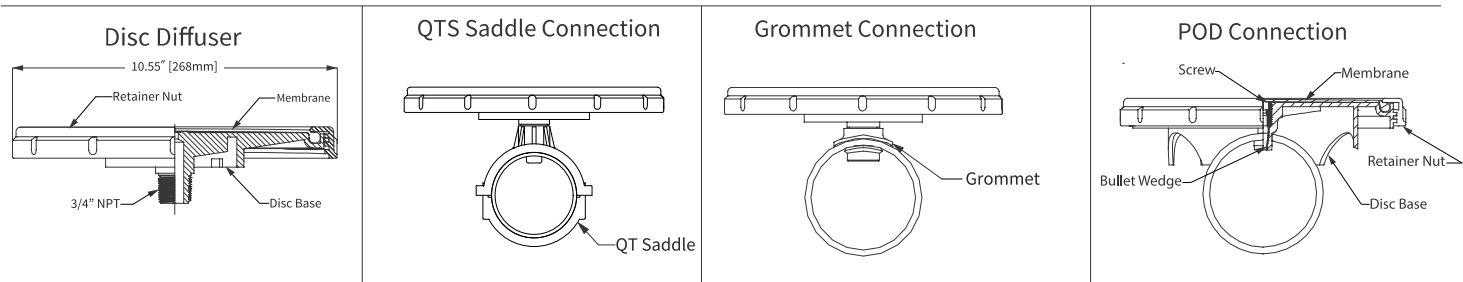




# What Makes the a SSI 9” AFD270 Disc Diffuser Systems Worldwide Choice?

The SSI 9” Disc Diffuser System combines engineering excellence, superior component quality, and a technically advanced product design. Proven highly durable and efficient in thousands of municipal and industrial installations around the world, this advanced system has reliability built into every stage of performance. SSI’s AFD270 comes in several membrane materials including our patented PTFE membrane, designed to use less energy and require minimal maintenance. Industry standard size and shape are interchangeable with other manufacturers. The diffuser base is molded with virgin polypropylene for extended performance, and is highly efficient with airflow performance of 1.5-2.5 SCFM.



# Unique System Strengths

## Complete product line – creating the system that fits your needs

SSI manufactures disc diffusers and coarse bubble diffusers, and we mount these products on a wide range of piping materials including PVC, CPVC, PP and Stainless Steel. We have the ability to attach diffusers to pipe using saddles, grommets, or pre-assembled PODS. We can provide retrievable systems or fixed grids, and systems in kit form or mostly factory assembled. We try to understand and anticipate your needs, and fit our recommendations to your situation.

## Piping system integrity – thicker wall pipe and double anchors for fewer breakages

Our piping is 38% thicker and has double rod support stands as standard – two anchors for each support location means twice the resistance to hydraulic and thermal loads. Most often supports fail due to temperature and water velocity. SSI locates two anchors where support is needed most, helping to increase product longevity.

## Comprehensive design service and after sales support

SSI provides full design services, including biological and mixing calculations, process simulations and hydraulic studies. We maintain a full drafting department with 3D and animation capabilities and we can assist with specifications and CAD drawings. Our service and installation crew can hold your hand during the early stages of the project and our worldwide multilingual staff is dedicated to your complete satisfaction.

# Intelligent Upgrade Options

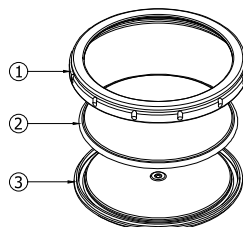
## Patented PTFE membranes prolong efficiency and reduce whole-life costs

SSI's patented PTFE membrane barrier properties not only reduce plasticizer extraction, shrinking, and membrane hardening but also limit dynamic changes that can result from swell, such as creep. Compared with uncoated products that are more susceptible to increases in DWP due to more aggressive fouling and changes in physical properties and weight, the PTFE coated membrane improves consistency of DWP (Headloss) values over the product life. This directly impacts long-term power costs and the ability of the system to distribute air uniformly across the tank floor.

### Diffuser Parts

- |                  |                               |
|------------------|-------------------------------|
| 1. Retainer nut  | PP                            |
| 2. Membrane      | EPDM / PTFE / PEEK / Silicone |
| 3. Diffuser Base | PP                            |

Max. Temperature resistance - 212°F / 100°C



## Pods Connection

Factory assembled diffusers mounted on laterals save contractors up to 30% on assembly time. PODS are a viable solution if you want to tank down for a minimum period, if your labor costs are high, or if you have a field labor shortage. For engineers unsure about the skill set of a contractor's field labor, SSI PODS are worry free with fewer field connections, and most connections created in controlled factory settings by trained personnel and automatic machines.

## Grommet Connection

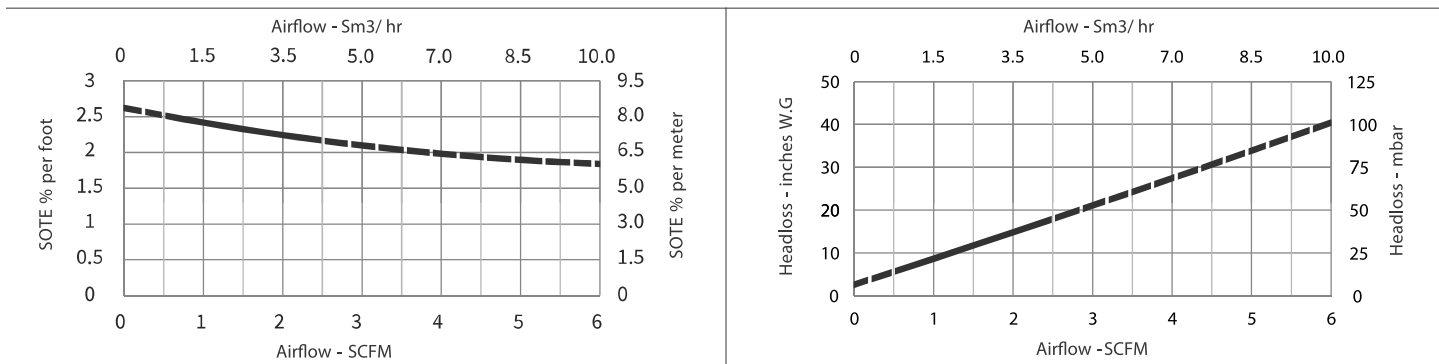
Simple to install on site, compact to ship and move. Affordably priced and time tested over 15 years worldwide.

## Quick Threaded Saddle

QTS saddles quickly and easily bolt onto the pipe and allow installation of the diffuser with a few simple turns.

Avg Operating Condition per Diffuser	Peak Air Flow per Diffuser	Orifice Size	Slit Qty	Active Surface Area per Diffuser	Weight per Diffuser AFD270
0.45 - 2.5 SCFM 0.8 - 4.5 Sm <sup>3</sup> /hr	4.0 SCFM 7.0 Sm <sup>3</sup> /hr	1/4" 6mm	+/- 6600	0.41 ft <sup>2</sup> 0.038 m <sup>2</sup>	1.5 lbs 0.68 kg

Operating diffusers distant to average operating conditions range might leads to poor uniform distribution and subjected to rapid fouling.



Above curves are generated based on ideal condition. Actual curves for specified project/condition to be provided upon request.