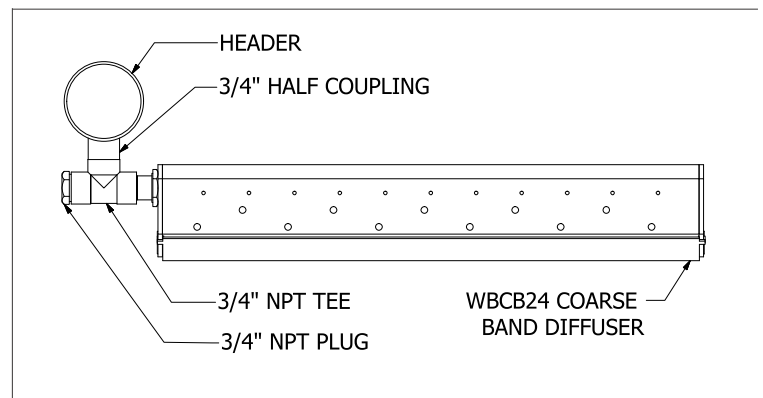
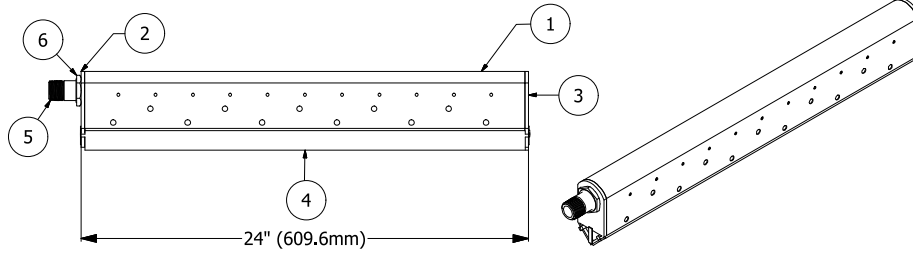


# The WBCB™ Coarse Band Coarse Bubble Diffuser System is a World Wide Winner

Our Stainless Steel WBCB diffusers are available in 304L or 316L stainless steel. The diffuser is made with cast endcaps welded all around. A typical piping system utilizing SSI WBCB diffusers is made from Stainless Steel pipe with 3/4" FNPT gusseted tees or elbows welded to the bottom center line. Deflectors are supplied with each diffuser but can be removed.

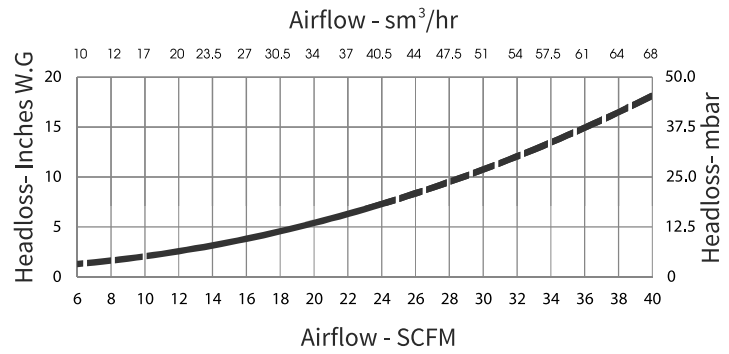
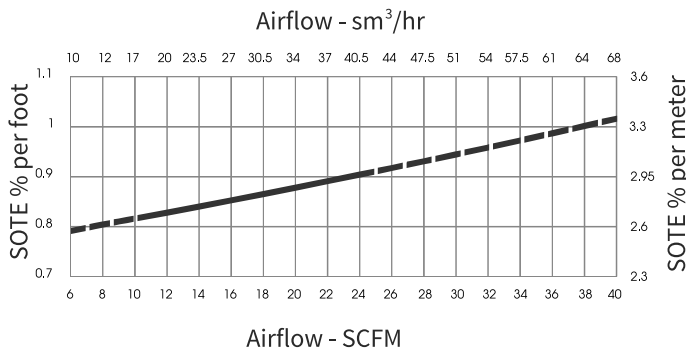
The coarse bubble diffuser is intended to be a clog-free design, with oxygen transfer rates of 0.5 to 0.8% per foot of submergence (1.7 to 2.5% SOTE/m) for spiral roll application and 0.8% to 1.2% per foot of submergence (2.5 to 3.9% SOTE/m) for standard grid layouts. They have a reliable alpha value and are designed to economically cover the tank floor.





Description	Material
1. 0.7mm Thick Cover	304L/ 316L
2. End Cap	304L/ 316L
3. End Palte	304L/ 316L
4. 0.7mm Thick Bottom Deflector	304L/ 316L
5. 3/4" NPT M	304L/ 316L

Average Operating Condition: 10-25SCFM (17-42.5 Sm<sup>3</sup>/hr)      Peak Airflow Range : 40SCFM (70 Sm<sup>3</sup>/hr)      Hole Quantity: 44 holes  
 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.

## 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 different connections. 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.

### 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.

### SSI Telemetry – the inside story solves maintenance problems

At the click of a mouse, you will know the DWP of your diffuser membranes, airflow rate to those monitored diffusers, and air temperature in the submerged piping system. You can sense vibration, pipe roll over, and water in the grid. Automatic moisture purging and automatic acid dosing systems are available. Through multiple cameras, you can see both inside the grids, and surface bubble patterns. Wet probes are also available for DO and WW temperature. Tracking all this data on a user-friendly online dashboard facilitates communication between consultant and client, manufacturer and rep. This smart technology lets you locate problem areas and allocate resources more efficiently. SSI Telemetry is your preventive maintenance hub in the heart of the plant.