

Tideflex® Coarse Bubble Diffuser

- ▶ Excellent oxygen transfer and mixing characteristics
- ▶ Proven long-term, maintenance-free service life
- ▶ Provides absolute backflow prevention
- ▶ Prevents clogging and fouling – no jet wash or acid baths required
- ▶ Durable, heavy-duty construction



Materials of Construction

- ▶ Neoprene, Buna-N, EPDM and Viton®
- ▶ 304/316 stainless steel clamp
- ▶ PVC mounting bushings
- ▶ 304/316 stainless steel NPT connection

Providing optimal oxygen transfer and mixing characteristics with absolute backflow prevention, Red Valve's Tideflex® Air Diffusers are ideal for use in municipal and industrial aeration applications. While conventional coarse bubble diffusers typically clog with sludge when airflow is interrupted due to blower shutdown or power failure, Red Valve's Tideflex® Coarse Bubble Diffusers maximize mixing while totally isolating the wastewater from the air manifold and related equipment and instrumentation. By allowing routine shutdowns and eliminating the need to run blowers or compressors around the clock to prevent clogging of the diffusers and manifold, Tideflex® Diffusers provide substantial savings in energy and operational costs.

The principle of operation is simple: Positive differential air pressure opens the Tideflex® Diffuser, allowing airflow. Reverse pressure on the outside of the diffuser seals the bill, preventing backflow of solids or liquids. The patented elastomeric design closes drop-tight, even sealing around entrapped solids, eliminating any concern of clogging commonly associated with conventional air diffuser systems – as well as the extensive costs required to maintain, repair and clean them.

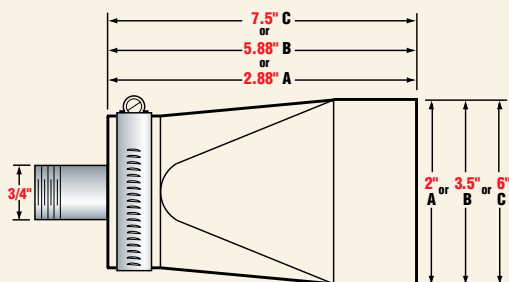
Featuring a flexible, all-elastomer, non-fouling construction, Tideflex® Coarse Bubble Diffusers are maintenance free and custom built to your exact requirements. To suit your specific diffuser project and installation needs, Tideflex® Diffusers are available in various elastomers.

Red Valve not only supplies diffusers, but can design complete air diffuser packages for new and retrofitted systems. These packages include drop legs, manifolds, headers, supports and all equipment within the tank.

The correct sizing of manifolds and headers and the proper configuration of piping and diffusers are important in order to ensure the successful installation and operation of the system. Red Valve combines years of experience with superior diffusers to supply the most cost-effective and efficient systems for industrial and municipal applications.

Coarse Bubble Diffuser

Flow Range A – 0-6 SCFM
Flow Range B – 0-12 SCFM
Flow Range C – 0-24 SCFM



Available with 1/2" or 3/4" thread connectors or a slip-on connection, TF-A Air Diffusers are ideal for new and retrofit systems.



Air Diffuser brochure and binder available, featuring coarse bubble, fine bubble and combined diffuser systems.