

***USFilter***

**FLEXLINE™**

**NONBUOYANT**

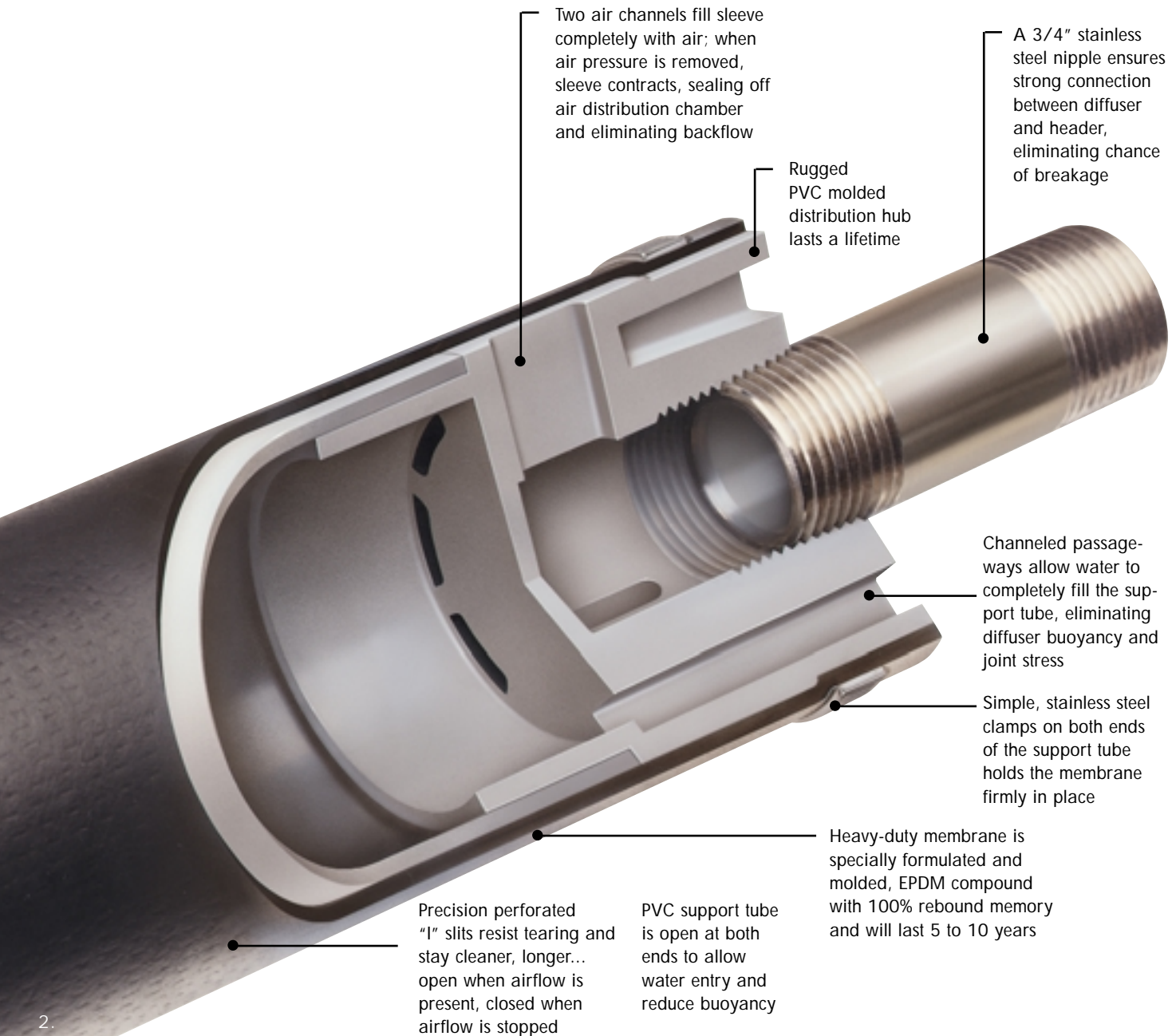
**TUBULAR**

**FINE BUBBLE DIFFUSER**



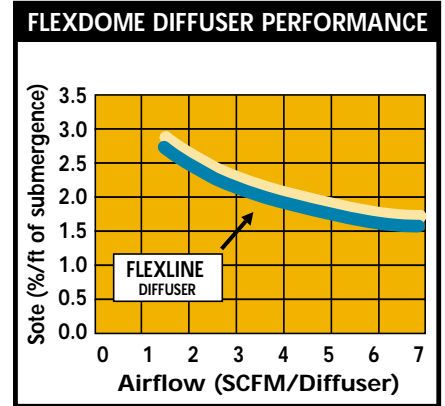
A typical FlexLine tubular fine bubble diffuser arrangement.

*Tubular fine bubble FlexLine diffusers have many operating advantages over coarse bubble type diffusers. The FlexLine diffuser produces micro-fine bubbles that increase the bubble surface contact area with the water, greatly increasing the oxygen transfer and efficiencies resulting in lower air volume requirements. The higher transfer efficiencies assure lower energy costs and improved effluent quality. While other diffusers emit a narrow column of air, FlexLine produces a broad envelope of bubbles that greatly increases transfer efficiency and improves mixing.*



HIGHER AIRFLOW,  
BETTER PERFORMANCE

FlexLine diffusers can often outperform disk type fine bubble diffusers. Because FlexLine diffusers are 24” long and have 8400 bubble producing “I” slits, you can realize flow ranges up to 7 CFM and still maintain high oxygen transfer efficiencies and low headloss. This could substantially reduce the number of diffusers required thereby providing a more economical installation. FlexLine’s flexible membrane sleeve with precision perforated “I” slits expands to produce fine bubbles then contracts immediately sealing itself when the air supply is stopped. This feature dramatically reduces the chance for backflow of solids to clog the diffuser.

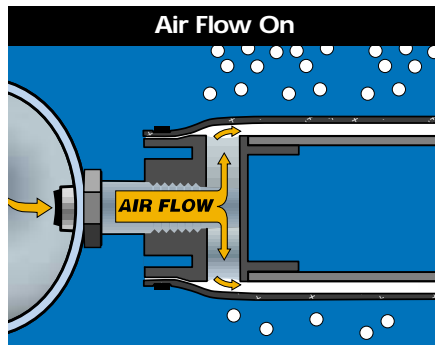


*FlexLine Diffusers provide superior oxygen transfer efficiency over a wide range of airflow rates.*

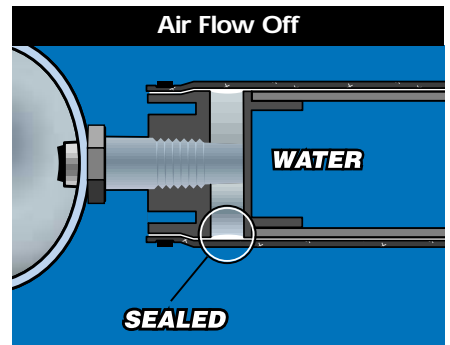
NON-BUOYANT DESIGN  
IMPROVES RELIABILITY

FlexLine’s open end tube design allows water to completely fill the diffuser support tube. This eliminates diffuser

buoyancy and resulting diffuser bounce during operation, the major cause of nipple end connection failure.



*When airflow is present, sleeve inflates around exterior of support tube, creating uniform air distribution over entire membrane surface. Larger perforated surface area greatly increases transfer efficiency.*



*The FlexLine support tube is open at both ends, allowing water to completely fill the tube; thus eliminating buoyancy and bounce that weakens joints and causes leakage that affect most other systems. When airflow is off, membrane contracts and seals off distribution chamber, eliminating chance of backflow.*

*USFilter offers the most complete line of fine and coarse bubble, plastic, stainless steel and membrane/ceramic air diffusers of any company in the industry, guaranteeing you'll find the right diffuser for your application. We also offer full technical support to assist you with everything from air diffuser selection to complete aeration piping systems design. For new installations, retrofit, or replacement, we're your one source.*

Coarse Bubble Diffusers	Fine Bubble Diffusers
 <p>SED DIFFUSER</p>	 <p>FLEXDISC DIFFUSER (THREADED CONNECTION)</p>
 <p>VARIAIR DIFFUSER</p>	 <p>FLEXDOME DIFFUSER (CERAMIC DOME REPLACEMENT)</p>
 <p>SNAP-CAP DIFFUSER</p>	
 <p>AIRSEAL DIFFUSER</p>	 <p>DUALAIR MEMBRANE &amp; CERAMIC DIFFUSER</p>
 <p>WIDEBAND STAINLESS STEEL DIFFUSER</p>	
 <p>AIRBAND WIDEBAND PLASTIC DIFFUSER</p>	 <p>FLEXLINE TUBULAR DIFFUSER</p>

To find out more about how to put USFilter to work for you, contact us at



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