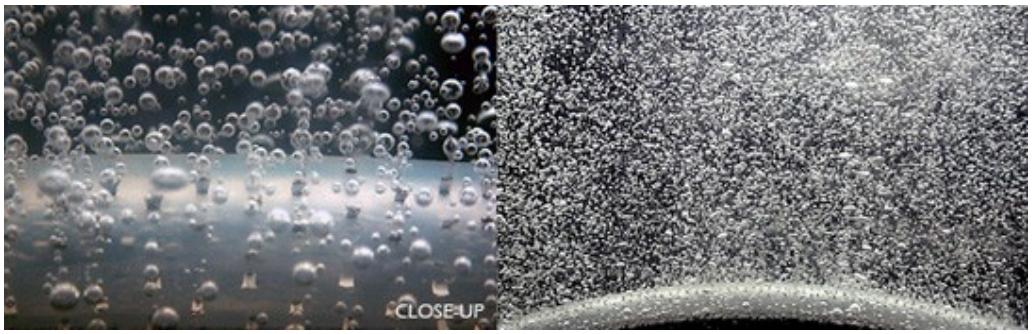
Silicone Rubber Diffuser Hose



Method of Installation

The silicone rubber diffuser hose can be deployed to variety of depths. Water that penetrated into the hose when air supply is switched off can be forced out by air assuming sufficient flow rate and air pressure are available from the air source (e.g.: a blower or compressor).

Following is one possible method of deploying silicone diffuser hose:

- Hold shape and reduce kinks by carefully insert thin stainless steel (SS) wire as back bone for the silicone diffuser tube.
  - ⇒ This help holds the shape you wish to maintain and prevent the center portion of the hose between two fixed ends from raising (curving upward) when air is pumped through.
  - ⇒ If the wire is heavy enough, it can also serve as the primary ballast for the hose.

- Use tee or cross barbed fittings with wide inside diameter and mount them to ballast (e.g.: weighted blocks) or secure to bottom of tanks.
  - ⇒ Whenever possible SS wire insert should go through the barbed fittings if it does not reduce too much cross sectional area inside the fittings.
  - ⇒ Clamp down the silicone hose onto barbed fitting using SS clamps.

- Use air manifold(s) and run multiple sections of diffuser hose in parallel or parallel + serial (closed loops) configuration for balanced air flow throughout the entire diffuser grid.
  - ⇒ Small connection fittings can limit air flow and produce higher back pressure, avoid running a long continuous hose with only one point of air entry.
  - ⇒ Diffuser grid with multiple points of air entry has lower overall friction loss and pumping pressure requirements.

Ozone Handling

The silicone rubber diffuser hose can tolerate light to moderate amount of ozone. If over time the silicone hose turns white, became brittle and breaks easily, the concentration of ozone is too high. Select only ozone resistant materials as diffuser accessories, such as clamps, fittings and wire insert made of stainless steel.

ALITA INDUSTRIES, INC.
13311 Brooks Dr Ste B, Baldwin Park, CA 91706, USA
T: 626-962-2116, E-mail: info@alita.com, Web: www.alita.com