

Beginning of the cycle

End of cycle

DAY 1

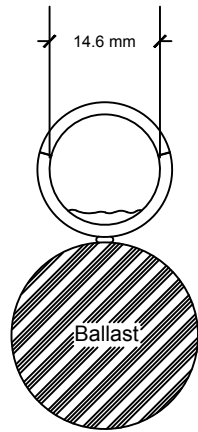
DAY 30

DAY 60

DAY 64

DAY 65

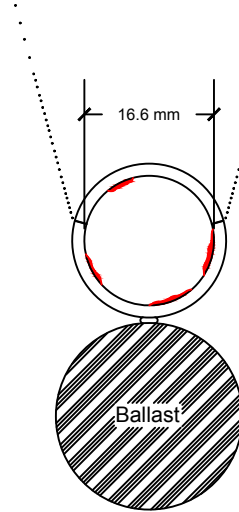
DAY 90



Operating pressure: 0 PSI

Step: Installation and connection of the bubble tubing into the water.

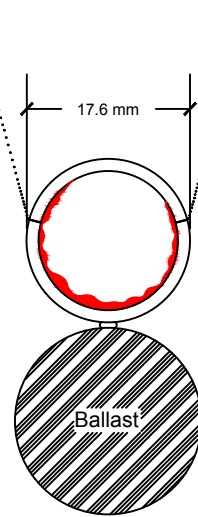
Observation: Accumulation of water inside the tubing from condensation or infiltration.



Operating pressure: 12 PSI

Step: Biofilm starts to form inside the bubble tubing after a few weeks.

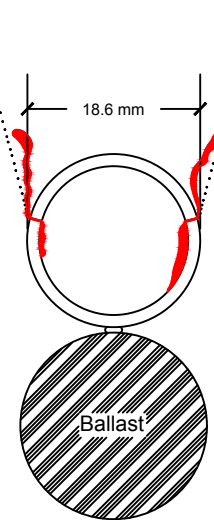
Observation: Normal slight expansion of bubble tubing when pressurized. Bubbles ≈ 500 - 1500 μm



Operating pressure: 17 PSI

Step: Growth and accumulation of biofilm inside the bubble tubing. Biofilm will increase friction which will increase operating pressure.

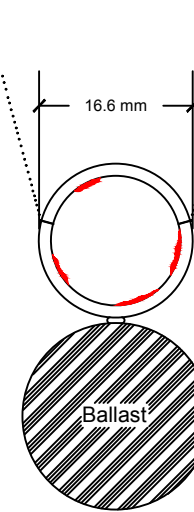
Observation: Slight expansion of bubble tubing and increase in back pressure reading.



Operating pressure: 22 PSI

Step: Further expansion of openings results in expulsion of the biofilm. Average time ≈ 24 hours

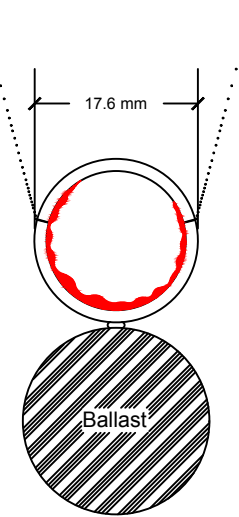
Observation: Maximum expansion holes. Bubbles ≈ 1000-3000 μm Gradually return to 500-1500 μm when biofilm is purged.



Operating pressure: 12 PSI

Step: Contraction of bubble tubing pressure and diameter returning to normal.

Observation: No restriction without biofilm. Cycle restarts Bubbles ≈ 500-1500 μm



Operating pressure: 17 PSI

Step: Second pressure cycle: Formation of biofilm again. Typical in warm water, less frequent in cold water.

Observation: Expansion of bubble tubing. Bubbles ≈ 500 - 1500 μm

Note: This illustration aims to show the operating pressure variation trend of bubble tubing over a period of use. Pressure, diameter of bubble tubing, time variation and bubble size can change from one project to another. It also demonstrates why with proper compressor sizing, bubble tubing will not foul and lose its efficiency and performance like typical fine bubble diffusers.

TOUTE INFORMATION CONTENUE DANS CE DOCUMENT EST LA PROPRIÉTÉ EXCLUSIVE DE PRODUIT ETANG.CA LTÉE. TOUTE REPRODUCTION PARTIELLE OU ENTIÈRE EST STRICTEMENT INTERDITE SANS AU PRÉALABLE AVOIR REÇU L'AUTORISATION ÉCRITE DE PRODUITS ETANG.CA LTÉE.

LES RÉSULTATS ET PERFORMANCES PROPOSÉS DANS CE DOCUMENT SONT THÉORIQUES ET PEUVENT ÊTRE INFLUENCÉS PAR PLUSIEURS FACTEURS INCONNUS AU MOMENT DU DESIGN.

ALL INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY TO CANADIAN POND.CA PRODUCTS LTD. DUPLICATION OR TRANSMITTAL OF THIS DOCUMENT IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF CANADIANPOND.CA PRODUCTS LTD. RESULTS AND PERFORMANCES PROPOSED IN THIS DOCUMENT ARE THEORETICAL AND MAY BE INFLUENCED BY MANY FACTORS UNKNOWN DURING THE DESIGN PHASE.

Client Ref.: -
Cust.

Design No. -

Dess/Drawn N. Savard

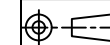
Date: 2016-2-15

Appr. -

Date 2016-2-15



Canadianpond.ca
Etang.ca



Éch. NTS
Scale:

Pressure cycle BT

Feuille 1 DE 1
Sheet

Format A

Rev -

513 KNOWLTON ROAD, KNOWLTON, QUÉBEC, J0E 1V0, TEL.: 450-243-0976, FAX.: 450-243-1834