



TORQUE TUBE DISC AERATOR – AN ADDITION TO THE DISC AERATOR FAMILY OF PRODUCT OFFERINGS

Introducing a revised disc aerator shafting option, the Torque Tube Disc Aerator. Application includes the Orbal[®], VLR[®] and VertiCel[®] systems. It also is available for retrofit of existing aeration tanks, providing both additional aeration capacity and superior mixing input.

Torque Tube Disc Aerator Features/Benefits:

- Wider channel spans are available.
- Torque tube bearing ends can be replaced without replacing the entire shaft.
- 75/60 HP drive vs 40HP drive on a single shaft
- Shaft Mounted or Direct-Drive gearbox options available.
- Split disc allows ease of installation of the discs on the torque tube.
- Multiple shafts can be coupled together.
- Weather hood units are available.
- Disc aerators are very good mixing devices, velocity baffles are not required to provide deep channel (>10 feet SWD) mixing.
- SmartBNR[™] controls available for process control and energy savings.
- Larger drives result in fewer aerator assemblies.

Retrofit with the Torque Tube Disc Aerator:

Wide channel applications

1. Spans up to 40 feet.
2. Upgrades with minimal concrete modifications to existing tanks.
3. Tank drawings (with survey validation) are all that is needed to evaluate aeration upgrade possibilities.

Vertical Loop Reactor Torque Tube Disc mounting is available, similar to the solid shaft disc aerator

1. Allows for VLR[®] tank spans up to 40 feet.
2. Provides operator access to the aerator drives and bearings. Walkways can be provided for access to the discs.
3. Larger drives allow for fewer aerator assemblies.



Bridge Mounted Torque Tube Aerator units are now available

1. Shipped preassembled and ready to install.
2. Reduces process down time.
3. Reduces contractor installation time.

Direct Drive arrangements available

Allows for less clearance between the shaft centerline and the drive base, allowing for less concrete rework at existing basins.

Disc aeration is a very efficient mixing device

Better process control and energy savings. Disc aerators are efficient mixers. As an example, a 1 million gallon basin only requires 5HP of disc aeration to maintain 1 ft/sec channel velocity.

Why Disc Aerators

- Discs reduce pulsating loads on the drives.
- Superior mixing capabilities.
- Better process control due to large turndown capability.
- Energy savings.
- Maintenance can be performed at the tank surface without dewatering the basin.

Choose the Orbal®, VLR®, or VertiCel® systems for Activated Sludge design as well as Extended Aeration. Saves energy and footprint while providing a plant that produces superior effluent quality.



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