



GRAPHALLOY® | Bearings for Water Treatment Applications



DS2529-36

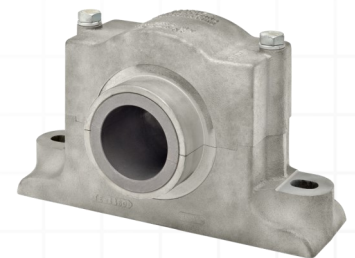
WATER TREATMENT: A TOUGH ENVIRONMENT FOR BEARINGS

Water and wastewater treatment facilities create numerous difficulties for bearings. From submerged environments, harsh liquids, and difficult to reach locations, the following metal and plastic bearing problems arise: swelling, creeping, corrosion, lubrication loss, and galling.

ADVANTAGES OF GRAPHALLOY BEARINGS

GRAPHALLOY pillow block, flange block assemblies, inserts, and bushings eliminate maintenance and frequent replacements, providing increased reliability and many years of trouble-free operation.

- ◆ **Self-lubricating:** Requires no grease or oil.
- ◆ **Corrosion-Resistant:** Resists attack in most liquids including sulfuric acid, hydrochloric acid, chlorine water, and caustics.
- ◆ **Submerged:** Operates in submerged conditions and hostile liquids. Will not swell. No lubricant to wash out.
- ◆ **Direct replacement inserts** for industry standard pillow and flange block assemblies.
- ◆ **Custom bushing sizes** to fit your equipment
- ◆ **Non-Galling:** Will not seize the shaft when running against rotating metal components



WHERE TO USE GRAPHALLOY

- ◆ Mixers
- ◆ Pumps
- ◆ Flocculators
- ◆ Aerators
- ◆ Filtration Systems
- ◆ Clarifiers
- ◆ Rotary Screens



GRAPHALLOY SUCCESS STORIES

Flocculators (Potable Water Process)

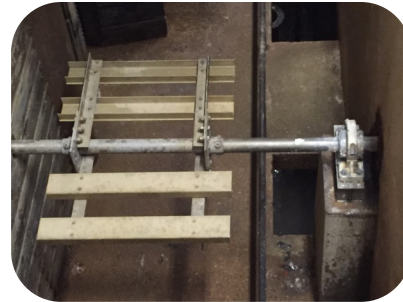
Paddle wheels stir the incoming river water to keep the solids suspended until the water is sent to the clarifier. The paddles are mounted on long horizontal shafts through pillow block bearing assemblies. Bearings are fully submerged.

Standard Pillow Block Bearings (cast iron pillow blocks with roller bearings) are replaced with self-lubricating GRAPHALLOY.



Flocculators

Smaller scale (6 paddles total) but similar application as above. GRAPHALLOY inserts replace greased roller bearings.



Primary Clarifiers/Final Clarifiers/Clarifier Agitators

Clarifiers are settling tanks built with mechanical means for continuous removal of solids being deposited by sedimentation. GRAPHALLOY is used in bottom bearing and various pillow-block assemblies.



Waste Treatment Aerator: Condominium's Wastewater Treatment Plant

Waste Treatment Aerator: Babbitt-grade GRAPHALLOY bushings installed in custom housings. GRAPHALLOY lasted over 30+ years before replacement.

