

Non-clogging Static Sludge Mixer

Sludge Mixer is designed to effectively mix polymer solution into sludge flows prior to dewatering process. Polymer savings in excess of 25% can be achieved. The basis for the mixer design is a set of right rotation elements followed by a set of left rotation elements set at 90 degrees from each other. This is a non-clogging static sludge mixer design as the municipal sludges contain solid and fibrous materials of sufficient quantities and types to accumulate and cause fouling or plugging conditions in standard mixers. This mixer is capable of handling and mixing municipal sludges with solids content up to 5%, and of passing individual solid items with a nominal major diameter up to 25% that of the mixer. It prevents “stapling” of stringy materials in the flow. The pressure drop is 1/3rd to that of the other mixer.

