

JV-SANTECH



AIR LIFT SYSTEM FOR SLUDGE AND GRIT REMOVAL



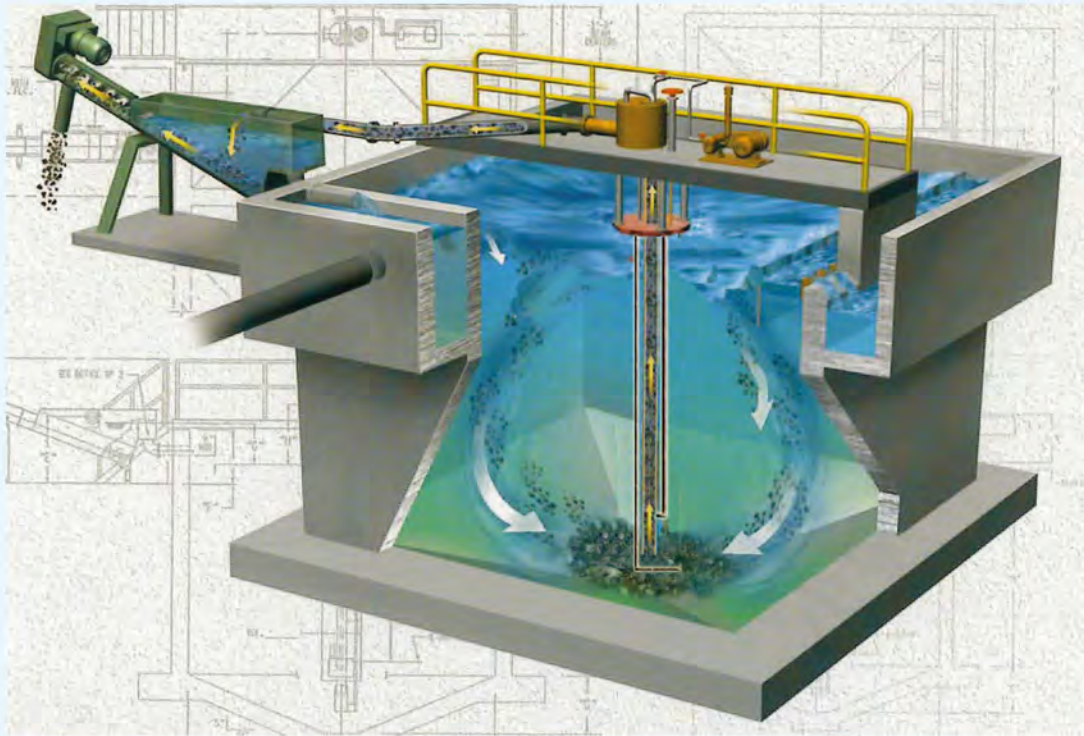
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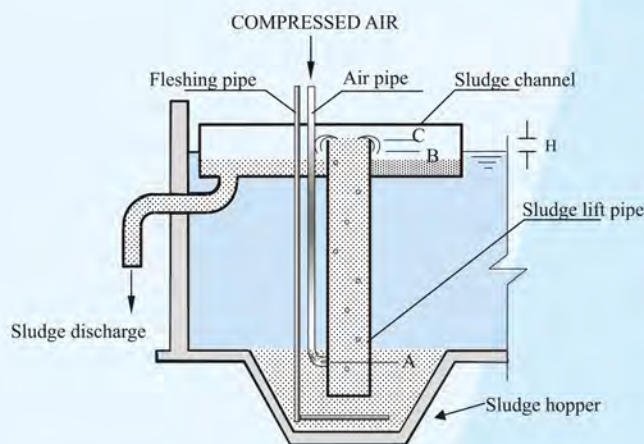
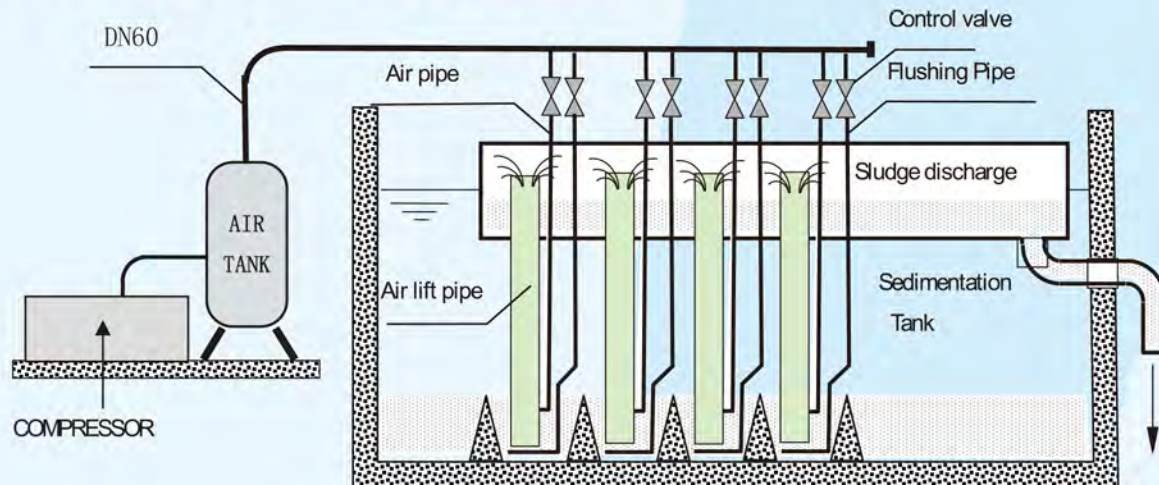
SAND LIFT

- 1. OPERATING HEAD : 70m**
- 2. SAND REMOVAL RATE: 10 ton/hr/pipe**
- 3. SPECIFIC GRAVITY OF SAND: 2.65**
- 4. SAND TO WATER RATIO: 20:80**
- 5. QTY OF MOTIVE WATER UTILISED TO AGITATE SAND:
30% ofmotive water**
- 6. SAFETY FACTOR FOR WEAR AND TEAR: 1.3**

No-aeration, Grit Removal and Dewatering in One System with No Underwater Moving Parts

The easy to install, easy to maintain Air Lift from JV-SAN TECH provides a means to Compressor air, remove grit and dewater in a low Energy system with no underwater moving parts.

SEDIMENTATION TANKS SLUDGE DISCHARGE SYSTEM



Stainless steel Sludge channel



AIR LIFT BY JV-SAN TECH

- Consistently removes nearly 100% of 65-mesh grit, 85% of 80-mesh grit and 65% of 100-mesh grit.
- Provides compressor air to "flush" the under bottom area sand and sludge
- Has no mechanical equipment or moving parts in the grit flow Stream, eliminating maintenance due to wear; no chain, no mixers, and no pumps.
- Easily adjusted AIR flow and loading conditions by control valve
- Non-flow sensitive—low flow conditions won't turn the grit collector into a primary clarifier.
- Has low hydraulic head loss through the unit.
- Low energy requirements—in many cases plant air compressor can be utilized.
- Stainless steel construction for corrosion resistance.

Simple, Efficient and Superior Grit Removal

JV-SAN TECH AIR LIFT Grit and sludge System provides a complete system for Air Compressor, grit removal and dewatering. A centrally located Air tube with Check Valve. This effectively separates grit from organic material and maintains those organics in suspension. Settled grit is carried to a center hopper where an airlift pipe check valve transfers the grit to an inclines screw Grit Washer located outside the basin. The grit lift is provided with an adjustable foot piece that may be manually raised or lowered depending on the level of grit accumulation in the hopper.

Tank Sizes/Peak Flow

4" x 8 x 10 to 2300gpm

6" x 8 x 10 to 4200gpm

Surface Rate

16gpm/sq.ft.at peak flow

Detention Time

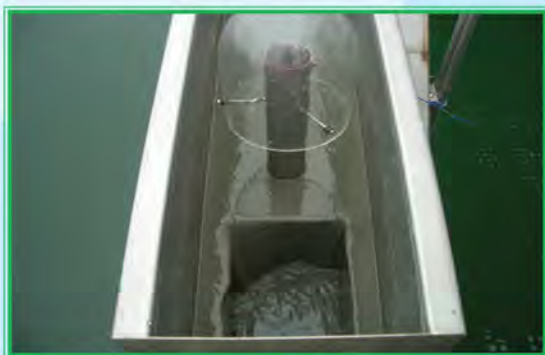
5-6minutes at peak flow

Grit Washer

Rugged solid-shaft less screw conveyor with a 9" x 2/3 pitch screw conveyor, with a 3/4 HP drive and either a coated carbon steel or stainless steel through and housing.

Air compressor

Positive Displacement type 3.0 to 15.0 HP depending on basin size.



Manufacture: