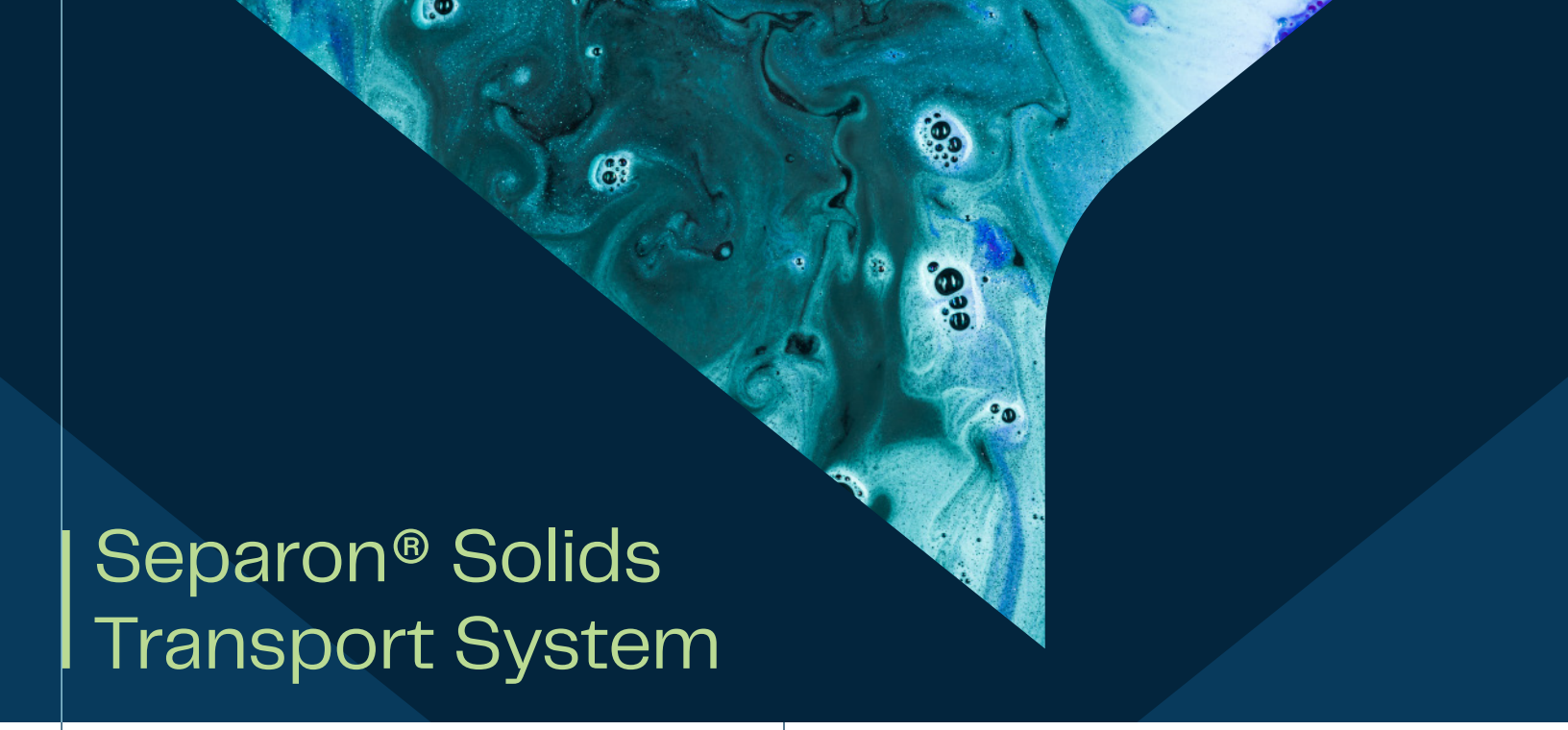

Separon® Solids Transport System

Solids Handling

The Separon® Solids Transport (SST) System is a compact fluidization and solids transport solution. Designed to replace disruptive conventional water jetting systems and shutdowns with manual dig outs, this device has been optimized to achieve maximum coverage over the vessel floor for efficient removal of solids. By cleaning online without shutdowns, the system eliminates exposure to confined spaces, maximizing operator safety.

How It Works

Separon Solids Transport Systems can be designed to cover all or part of a vessel. As produced water flows through the system, fluid is fed tangentially to the inlet section of the unit and directed downwards. The vessel is swept clean using a low energy flow cyclonic pattern that lifts and fluidizes the solids. Rotational acceleration draws solids into the center of the system where they exit through discharge piping connected to the base of the vessel.

Key Benefits

Cost Saving

- Economic solution for replacement of sand jetting systems
- No moving parts minimizes internal blockages and maintenance costs

Better Performance

- Higher discharge concentration
- Lower feed pressure eliminates vessel wall erosion and nozzle plugging
- Minimizes sand carryover problems
- Minimizes re-entrainment of sand and emulsions
- Less intrusive than tank sand pans and high-volume, high-pressure jetting operations

Flexibility

- Online and offline operation
- Manifolds constructed to client specifications
- The resultant slurry can be up to 70% by weight solids

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Standard Features

- Lower feed pressure
- Easy connections with ANSI or DIN flanges
- Custom manifold designs for every vessel

Materials of Construction

- Duplex 2205 Stainless Steel

Common Applications

- Test & Production Separators
- FWKO
- Storage Tanks
- Accumulator Vessels
- Sand Cleaning
- Slurry Transport
- Flotation vessels and tanks

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