PRODUCT DATASHEET

Deoiling Hydrocyclone Skid

Pressure-driven deoiling of produced water





DETAIL – HYDROCYCLONE VESSELS

OVERVIEW

The Tech Inc. Deoiling Hydrocyclone Skid separates dispersed oil from produced water using the pressure already available from the upstream separator. Water enters each hydrocyclone tangentially and spins at high speed.

MODELS AND CONFIGURATIONS

- **TI-HCY50** – deoiling hydrocyclone skid, with the liner count set by the design flow.
- **Single-vessel or multi-vessel skids** – vessels arranged so that liners can be isolated for turndown.
- **Pumped feed option** – a booster pump on the skid where upstream pressure is low.

TYPICAL DESIGN DATA

Flow	Sized to the duty, with liner count chosen for design flow and turndown, or to client specification
Driving pressure	From the upstream separator or a booster pump, to client specification
Reject flow	Set by PDR control to suit the inlet oil content
Outlet quality	To suit the downstream flotation, filtration or injection specification
Vessels	Designed to ASME VIII or client specification
Materials	Carbon steel or duplex stainless steel vessels with corrosion-resistant liners, or to client specification
Rotating equipment	Where fitted, proven pumps from leading makers, packaged on a skid designed and built by Tech Inc.

APPLICATIONS

Produced-water deoiling downstream of production separators, water injection and waterflood projects, disposal-well protection, and offshore platforms and compact onshore facilities.

KEY ADVANTAGES

- **No moving parts** – line pressure drives the separation, which limits maintenance to liner inspection
- **Small footprint** – high separating force in compact vessels suits platforms and tight plots
- **Turndown by isolation** – liners or vessels can be taken out of service as flow changes
- **Fast response** – short residence time and PDR control handle swings in inlet conditions
- **Expandable** – spare liner positions allow for higher water rates later in field life

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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