PRODUCT DATASHEET

Produced Water Cartridge Polishing Skid

Two-stage cartridge polishing before injection





DETAIL – VALVES AND PIPEWORK

OVERVIEW

The Tech Inc. Produced Water Cartridge Polishing Skid provides the final fine filtration before produced water is injected into the reservoir. Two stages of cartridge filter housings remove the fine suspended solids left after deoiling, protecting injection pumps, wells and the formation from plugging.

MODELS AND CONFIGURATIONS

- **TI-PF100** – two-stage cartridge polishing skid for 100,000 barrels of produced water a day.
- **Duty and standby housings** – standby capacity on each stage for on-line element change.
- **Single-stage polishing** – one stage only where the upstream filter already removes coarse solids.

TYPICAL DESIGN DATA

Capacity	Typically 100,000 barrels a day per TI-PF100 skid (about 662 m^3/h), or to client specification
Stages	Two (coarse and fine), or to client specification
Element ratings	Selected for the injection water specification, or to client specification
Design pressure and temperature	To client specification
Housings	Designed to ASME VIII or client specification
Materials	Carbon steel with internal coating, stainless steel or duplex, to client specification
Element change	On differential pressure, with the standby housing on line

APPLICATIONS

Produced-water polishing before injection, waterflood and pressure-maintenance projects, protection of injection pumps and wells, and polishing after nutshell filters or gas flotation.

KEY ADVANTAGES

- **Two-stage protection** – the coarse stage takes the bulk of the solids, which extends the life of the fine elements
- **No downtime for changes** – standby housings keep water flowing during element change
- **Clear change point** – differential pressure on each stage shows when elements are loaded
- **Simple operation** – no backwash water, chemicals or media handling
- **Ready spares** – replacement cartridges available as standard spares

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

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