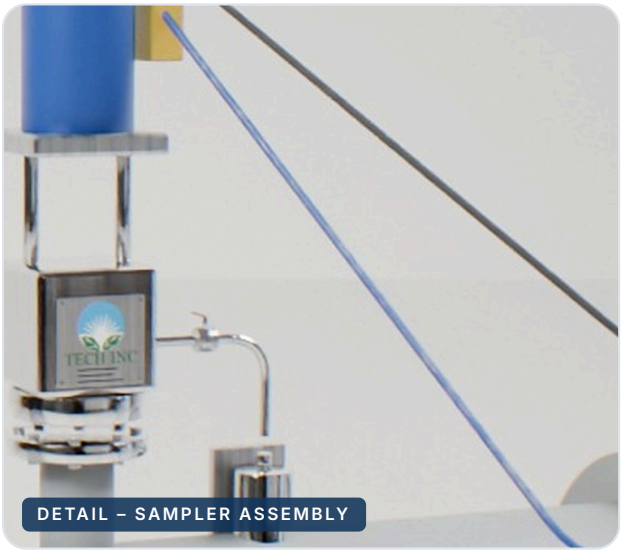
PRODUCT DATASHEET

Automatic Sampler Retrofit Kit

Custody sampler upgrade on the existing probe nozzle





DETAIL – SAMPLER ASSEMBLY

OVERVIEW

The Tech Inc. Automatic Sampler Retrofit Kit upgrades an existing crude oil custody-transfer sampler on the probe nozzle already in the pipeline, with no additional pipe penetration. It replaces worn or obsolete sampler heads, probes and controls with a flow-proportional system that gives buyer and seller a representative sample of each batch for water-content and quality analysis.

MODELS AND CONFIGURATIONS

- **TI-RK** – retrofit kit mounted on existing sampler probe nozzles.
- **Kit with constant-pressure receiver** – paired with a floating-piston receiver for crude with light ends.
- **Kit with atmospheric receivers** – for stabilised crude.
- **Controller-only upgrade** – a replacement sampler controller where the mechanical parts are still serviceable.

TYPICAL DESIGN DATA

Sampling principle	Flow-proportional grab sampling
Standards	Designed to API MPMS 8.2 / ISO 3171 or client specification
Mounting	On the existing probe nozzle, with an adaptor made to the nozzle dimensions
Grab volume and frequency	Set to the batch size, or to client specification
Pressure rating and materials	To the pipeline design conditions, or to client specification
Hazardous area	Electrical equipment selected for the area classification, to client specification
Control input	Flow pulse or analogue signal from the meter, with batch reporting

APPLICATIONS

Crude oil custody transfer, export and import terminals, pipeline metering stations, refinery receipt points, and upgrades of ageing samplers.

KEY ADVANTAGES

- **Uses the existing nozzle** – no additional pipe penetration or hot tap
- **Representative samples** – flow-proportional grabs across the whole batch
- **Short installation** – the kit is prepared in the factory to the measured nozzle dimensions
- **Fewer disputes** – reliable water-content data for buyer and seller
- **Choice of receivers** – works with constant-pressure or atmospheric receivers

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

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