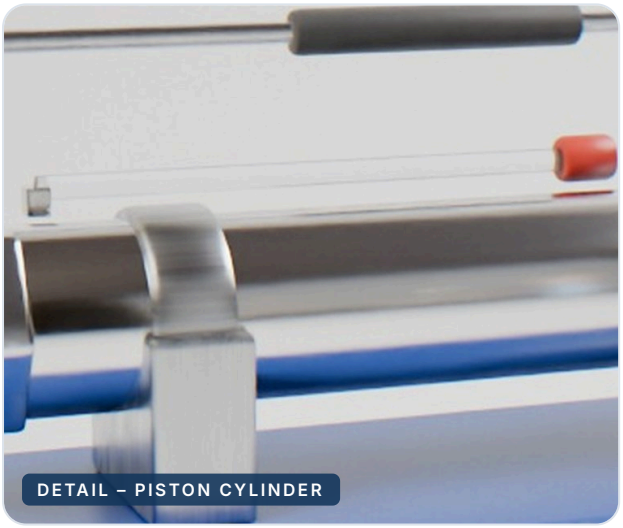
PRODUCT DATASHEET

Constant-Pressure Sample Cylinder (Floating Piston)

1 L SS 316 floating-piston sample receiver





DETAIL – PISTON CYLINDER

OVERVIEW

The Tech Inc. Constant-Pressure Sample Cylinder (Floating Piston) holds a live hydrocarbon sample at line pressure from the moment it is taken until it is analysed. A floating piston separates the sample from a pre-charge gas on the other side; the sample stays in a single liquid phase and its light ends cannot flash off.

MODELS AND CONFIGURATIONS

- **TI-CPR-1L-316** – floating-piston constant-pressure sample receiver, 1 L, in SS 316.
- **Automatic sampler receiver** – connected to an in-line or fast-loop sampler for batch collection.
- **Portable spot-sampling cylinder** – for manual sampling and transport to the laboratory.
- **Other volumes and materials** – to client specification.

TYPICAL DESIGN DATA

Volume	Typically 1 L (TI-CPR-1L-316), or to client specification
Body and piston material	SS 316, or other alloys to client specification
Pressure rating	To suit the sampled line, or to client specification
Piston seals	Elastomer selected for the fluid and temperature
Pre-charge	Inert gas at or above line pressure
Connections	Valves and end fittings to client specification
Used with	Sampling systems designed to API MPMS 8.2 / ISO 3171 or client specification

APPLICATIONS

Crude oil custody-transfer sampling, condensate, NGL and LPG sampling, transport of live samples to the laboratory, and vapour pressure and pressure–volume–temperature (PVT) testing.

KEY ADVANTAGES

- **Sample integrity** – the sample stays at line pressure and keeps its light ends
- **Single-phase sample** – no gas cap forms during collection or transport
- **Corrosion resistance** – SS 316 body and piston for crude, condensate and NGL
- **Safe handling** – relief device and protective caps for transport
- **Reusable** – replaceable piston seals allow the cylinder to be cleaned and reused

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

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