PRODUCT DATASHEET

Jacketed Fixed-Volume Sampler for Viscous Liquids

Heated piston-valve samplers for residues, bitumen, polymers and slurries

Product page





Close-up: heated piston valve and outlet spout

OVERVIEW

The Tech Inc. Jacketed Fixed-Volume Sampler for Viscous Liquids takes closed samples of liquids that set, thicken or clog at ambient temperature: vacuum residue, bitumen, waxes, heavy fuel, polymer solutions and slurries. A piston valve flush with the pipe wall cuts a fixed volume from the flowing stream, and a heating jacket keeps the valve, chamber and outlet above the pour point so the sample flows freely into the container.

TYPICAL DESIGN DATA

Sample volume	About 25 to 250 mL
Temperature	To about 350 °C; higher on request
Pressure	To about 40 barg
Codes and standards	Pressure parts to ASME B31.3 practice; flanges to ASME B16.5
Heating	Steam, thermal oil or electric, with temperature control
Wetted materials	316L, duplex or Alloy 625
Connection	Flanged to ASME B16.5

MODELS AND CAPACITIES

- **TI-JFS-25** – about 25 mL, lines from 2 inch
- **TI-JFS-250** – about 250 mL, lines from 4 inch
- **TI-JFS-100** – about 100 mL, lines from 3 inch
- **TI-JFS-V** – vessel-mounted version

Indicative sample volumes and line sizes.

ORDERING CODE

Example **TI-JFS-100-S-P**: **100** sample volume, mL; **S** heating: S steam, O thermal oil, E electric; **P** actuation: M manual, P pneumatic.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** insulated enclosure; remote actuation from the control room; container heater; nitrogen purge of the outlet; spare piston and seal kit.

KEY ADVANTAGES

- **No dead leg** – piston flush with the pipe wall
- **Flows freely** – jacket holds the sample above its pour point
- **Repeatable** – fixed volume per stroke
- **Safe** – closed outlet and vent at high temperature

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

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