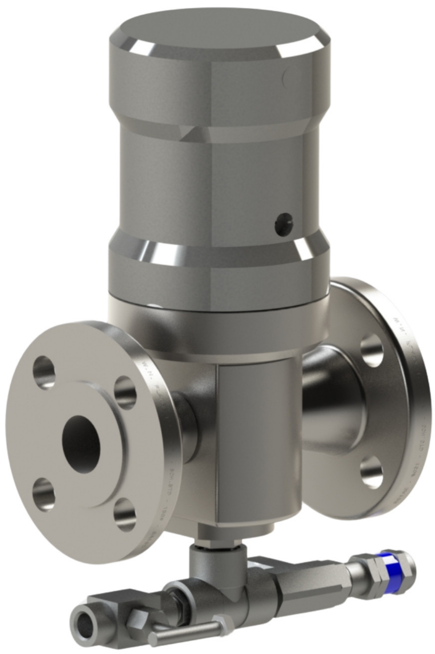
CUSTODY TRANSFER & FISCAL SAMPLING

PRODUCT DATASHEET / DS-002-EN_Rev.A

SC15 Liquid Sampler Cell

The SAMPLEX™ SC15 liquid sampler cell, designed for "through-the-flow" sampling, is a device used to extract representative samples of crude oil or refined products. It can be easily installed on flanged connections along the process pipeline within a fast-loop sampling system. This sampler cell ensures high accuracy and repeatability of the grab volume, in full compliance with the guidelines set forth by API 8.2, ASTM D4177, and ISO 3171.



Features

- Motor housing equipped with an internal spring mechanism to ensure the sample outlet remains sealed when the device is not actively collecting samples.
- Integrated external relief valve featuring an adjustable pressure range tailored to specific process conditions.
- Fixed grab volume available in multiple configurations.
- Manufactured using materials compatible with high-viscosity crude oil, with optional configurations for handling highly corrosive substances.

Benefits

- Adequate power capacity for sampling high-viscosity products.
- Sampling head engineered to withstand elevated temperatures and pressures.
- Ensures complete capture and transfer of samples into the designated collection container.
- Relief valve designed to prevent backflow of collected samples into the pipeline in the event of a pressure drop.

Applications

- Fiscal measurement
- Refined products
- Condensates sampling
- LPG sampling
- Custody transfer
- LACT units
- Land/sea loading/unloading

Specifications

Sampling fluids	Crude oil, refined products, and non-corrosive chemicals
Viscosity range	1 - 1500 cSt
Ambient temperature	-20 to 65 °C (-4 to 149 °F)
Materials of construction	316L Stainless Steel PEEK (Wetted Parts) Viton Seals
Process temperature	-40 to 100 °C (-40 to 212 °F)
Power Supply	Pneumatic or Hydraulic
Grab volume	0.5, 1, 1.5 o 2 cc
Repeatability	Better than API MPMS 8.2
Process connection	ANSI RF Flange (Optional to RTJ Flange)
Pressure range	ANSI 150, 300, 600, 900
Process pipeline size	1", 1-1/2", 2" (Optional 3")

Requirements

Air or Oil	5 to 10 bar (75 to 145 psi)
Consumption	20 cubic feet per stroke
Minimum sample time	4 seconds/sample

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