

➤ 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.



Applications

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

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.

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

Wetted and not wetted materials of 316L stainless steel; seals Viton (Karlez Optional)

> Power supply

Pneumatic or hydraulic

> Grab volume

0.5cc, 1cc, 1.5cc or 2cc. If you need another size you can request it.

> Repeatability

Better than API MPMS 8.2

> Relief valve

Material of 316 stainless steel. Adjustment range according to maximum pressure

> Connections

Process connections: Standard 1" ANSI RF. Optional 1-1/2" or 2" RF flange or RTJ type. Instrument connections: 1/4" FNPT

> Pressure range

ANSI 150, 300, 600, 900

It can be manufactured for higher pressure ranges if required

Requirements

> Air or Oil

4 to 8 bar (60 to 120 psi)

Depending on the process pressure

> Consumption

7ml/grab @ 4barg (0.25 scf/grab @ 60 psig)

> Minimum sample time

4 seconds/sample

Other SAMPLEX products

> SP15 Sampler probe

> SL15 Probe for sampler loop

> SR Receiver sampler

> Control-X Sampler controller

> HPU Hydraulic power unit

> LM35 Laboratory mixer pump

> SMS Static mixer

> SAMPLEX Automatic sampling systems

> startJET Motorized flow conditioner