



# Liquid & Slurry Sampling

## Automatic Fixed Volume Samplers

### Sentry ISOLOK API-CA

#### description

The Sentry® ISOLOK® API-CA sampler is an anvil piston instrument (API) cell sampler specifically designed to handle the most demanding hydrocarbon liquid applications. By taking full advantage of all the benefits of bypass or fast loop sampling systems, the ISOLOK API-CA is ideally suited for sampling a variety of liquids, especially crude oil, condensate and mixtures of oil and water. The ISOLOK API-CA sampler is ideal for energized mixing and blending applications.

#### models

ISOLOK API-CA

#### benefits

The pneumatically actuated ISOLOK API-CA sampler optimizes the accuracy and repeatability of hydrocarbon fluid sampling. The sampler offers superior performance and a long life, minimizing maintenance, accessories and service time needed.

The sampler's 180-degree pneumatic actuator and scotch yoke design provide consistent performance over a wide range of air supply conditions and process pressure and viscosities.

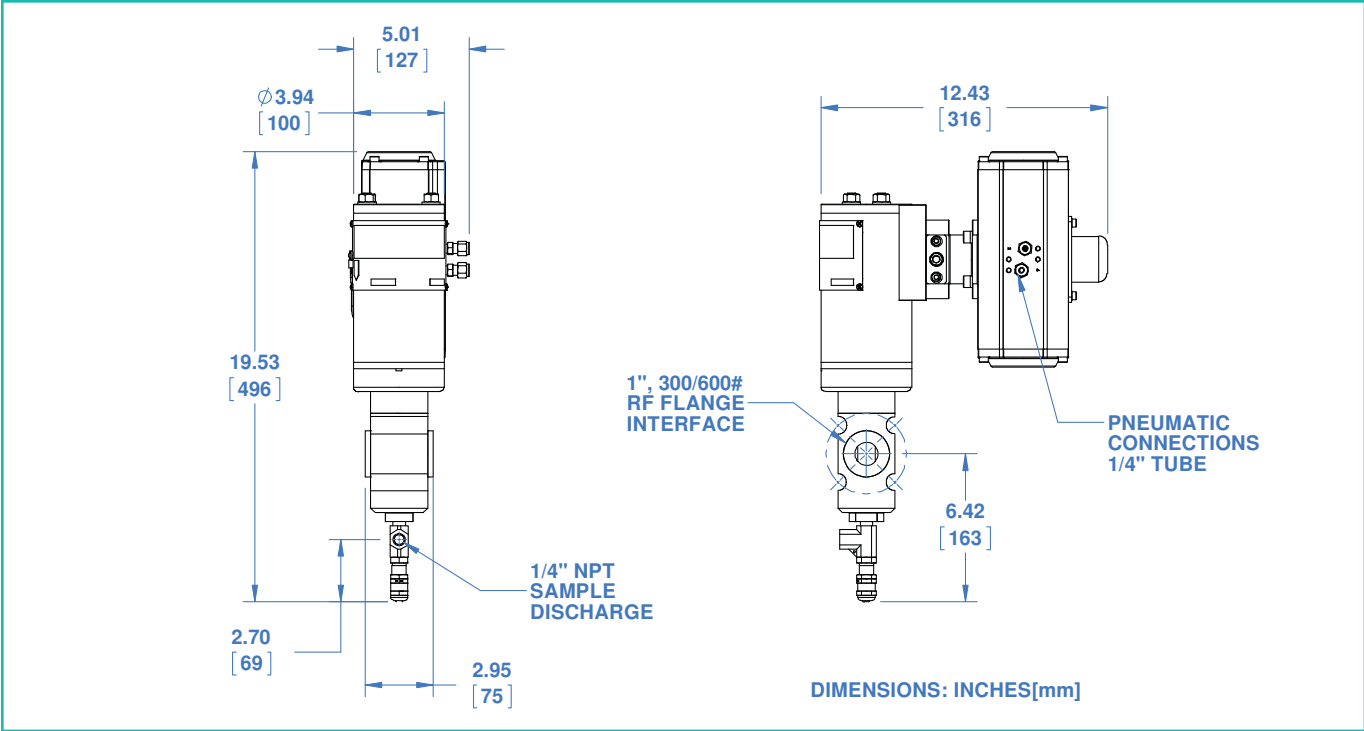
The optional diamond-like carbon (DLC) coating protects the unit from abrasion and enhances resistance against H<sub>2</sub>S, mercaptans, SO<sub>2</sub>, mercury and more.



#### features

- Provides a consistent fixed volume, employ a scotch yoke design, and features next generation seal design
- Standard rate of 20 samples per minute; faster rates available
- Available in standard 316 stainless steel wetted materials or Super Duplex steel for superior performance in demanding sediment or hydrogen sulfide applications
- ATEX rated and complies with API 8.2, ISO 3171 and ASTM D 4177 standards
- Flow-through, bottom discharge design
- **Options:** Diamond-like carbon (DLC) coating; ATEX rated and safe area controllers with touchscreen interfaces; receivers/constant pressure cylinders; weigh scales/level gauges; insertion & retraction tools; static mixers; switching valves; enclosures

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specifications	
fluids sampled	crude oil; refined hydrocarbons
viscosity range	0.5–8000 cSt
wetted materials	316 SS Standard (optional Duplex/Super Duplex 2205/2507 SS) or equivalent
optional coating on wetted parts	DLC (diamond-like coating) by DCD (dynamic compound deposition)
seal materials	carbon-filled PTFE seals with Viton O-rings (others available)
seal temperature	–4°F to 400°F (–20°C to 200°C)
pressure rating	1480 psig at 100°F (102 barg at 38°C)
ambient temperature	–4°F to 131°F (–20°C to 55°C); optional heater for temperatures below –4°F (–20°C)
sample size (nominal)	1 cc per grab (2 cc per grab optional), $\pm 1\%$
sampling rate	20 grabs/min*
flanges	1" Class 300/600 RF
weight (approx)	40 lb (18 kg)
utilities required	lubricated air, 54–145 psig (4–10 barg), 0.04 ft <sup>3</sup> per grab at 60 psig (1.12 dm <sup>3</sup> grab at 4.1 barg)

\*Note Higher sampling rate (grabs/min) available.

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It is solely the responsibility of end users, through their own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied and properly maintained, and to limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.

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