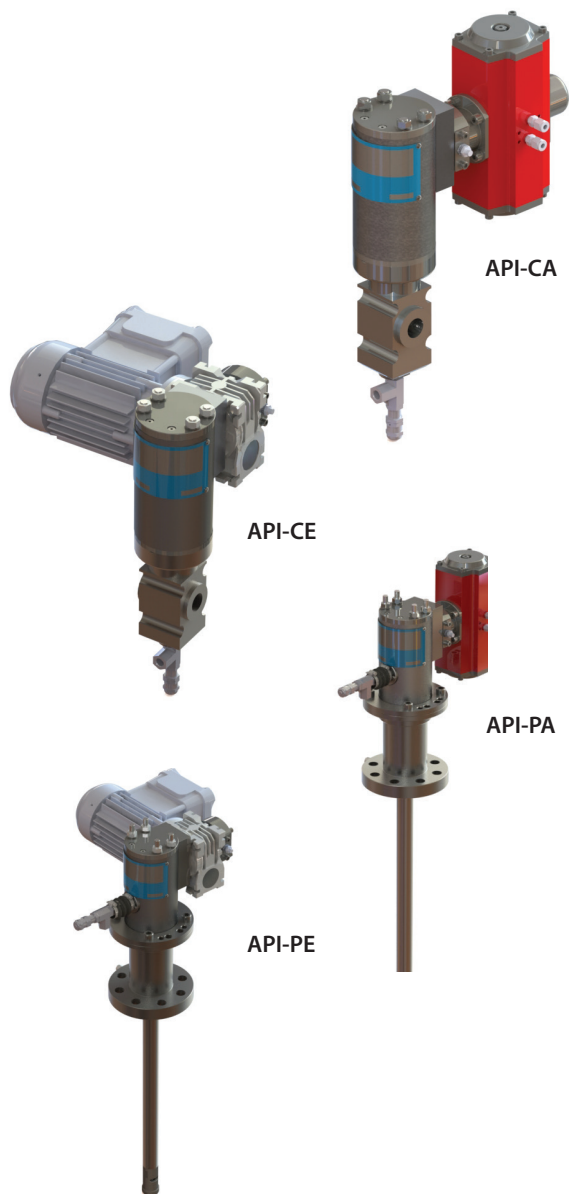


Sentry API Sampling Suite

The widest range of solutions for hydrocarbon liquid sampling from the sampling specialists



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Sample. Monitor. Measure.

SENTRY

Any Application. Anywhere.

Hydrocarbon liquid sampling solutions

The Sentry® ISOLOK® API (anvil piston instrument) automatic sampler suite offers four distinct solutions to optimize sampling accuracy and repeatability for hydrocarbon liquids such as crude oil, condensates, and oil and water mixtures.

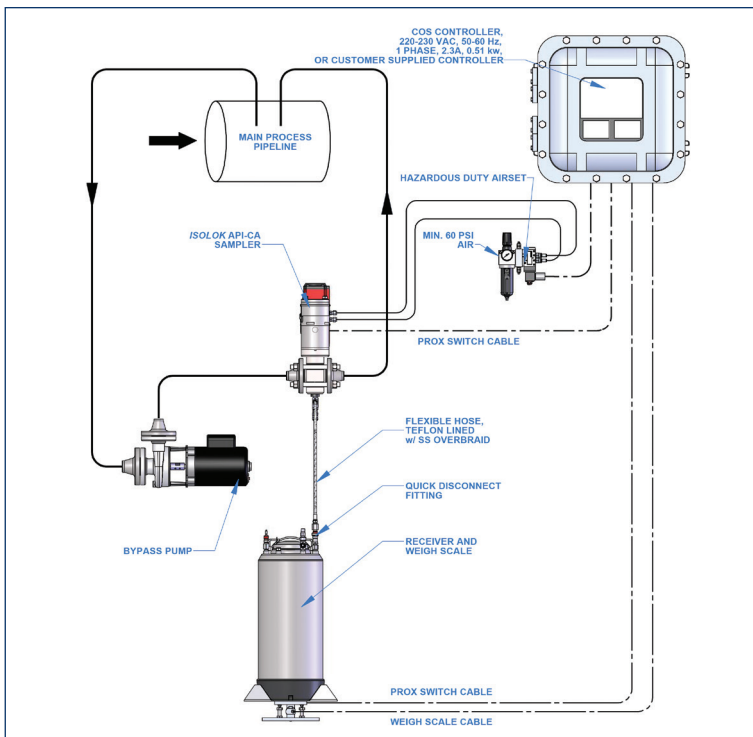
Representative samples are needed for quality control, to determine product properties and composition, and for fiscal calculations, allocations and loss control. In addition to complying with custody transfer standards such as API 8.2 and ASTM D 4177, the advantages of representative sampling include:

- Higher return on investment
- Better loss control
- Lower operating costs

Sentry API samplers provide consistent performance over a wide range of applications and conditions. While other samplers use simple linear motion with limited mechanical advantage, Sentry API samplers uniquely apply a scotch yoke mechanism to create linear movement – similar to a car engine. With few application limits, Sentry API samplers can be used in nearly any temperature or environmental conditions, offering electrical actuation choices for applications where there is no air line available, and pneumatic actuation choice for where there is.

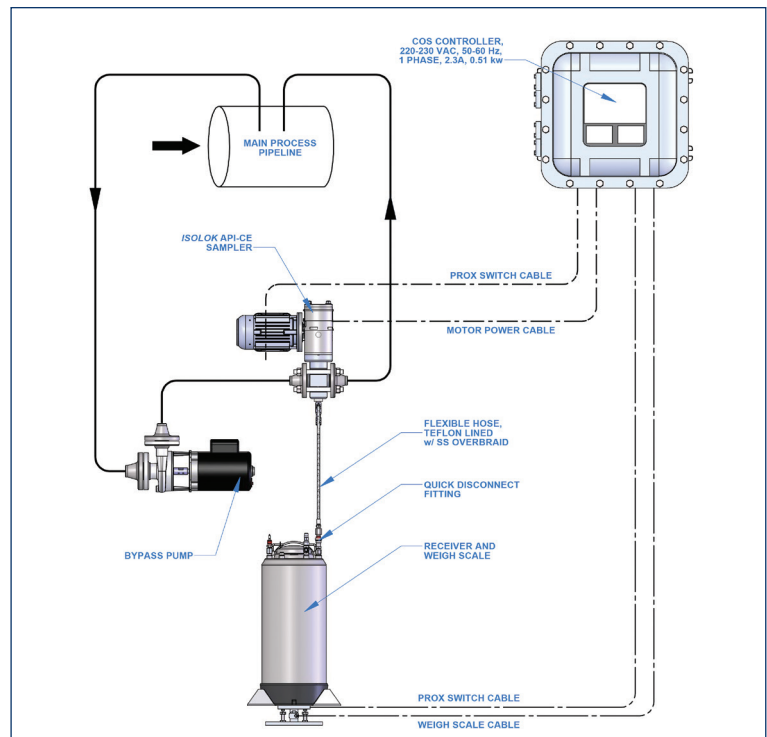
Sentry API samplers are ideal for:

- Custody transfer of crude oil and condensate
- Upstream production, trading, transport and refining of crude oil and condensate
- Chemical and petrochemical applications



Sentry ISOLOK API-CA cell sampler

For bypass or fast loop sampling systems | Pneumatic actuator



Sentry ISOLOK API-CE cell sampler

For bypass or fast loop sampling systems | Electric actuator

Both ideal for energized mixing and blending applications

Learn more at sentry-equip.com/products/apisamplers or request a quote today.

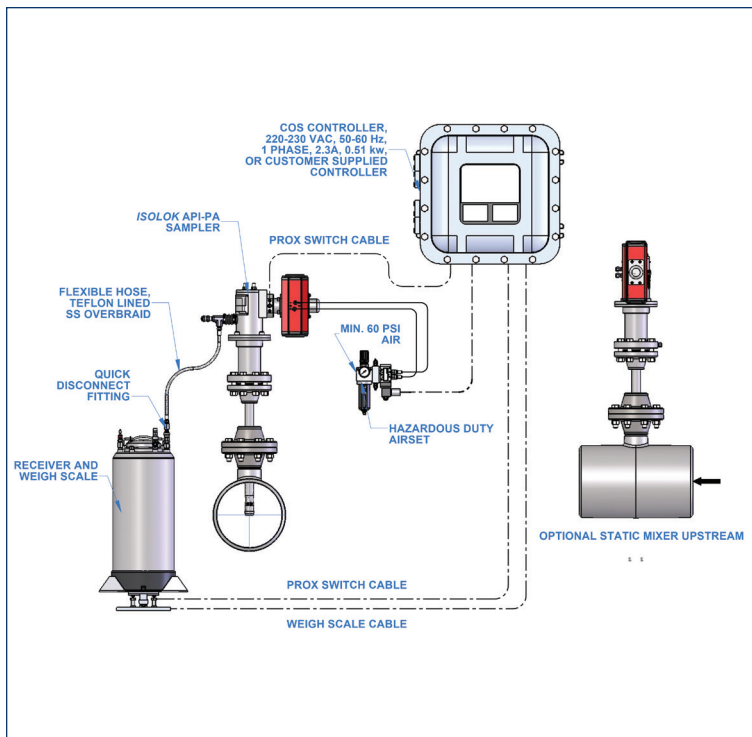
Features & benefits

Sentry API samplers offer superior performance and a long life, minimizing maintenance, accessories and service time needed. All provide a consistent fixed volume, employ a scotch yoke design, feature next generation seal design – and are easy and less costly to maintain than other solutions. Features include:

- Standard rate of 20 samples per minute; faster rates available
- Optional diamond-like carbon (DLC) coating
- Available in standard 316 stainless steel wetted materials or super duplex steel for superior performance in demanding sediment or hydrogen sulfide applications
- ATEX rated
- Complies with API 8.2, ISO 3171 and ASTM D 4177 standards
- Flow-through, bottom discharge design (API-CA and API-CE)
- Probe lengths accommodate 4- to 52-inch (102- to 1,321-mm) diameter pipes (API-PA and API-PE)

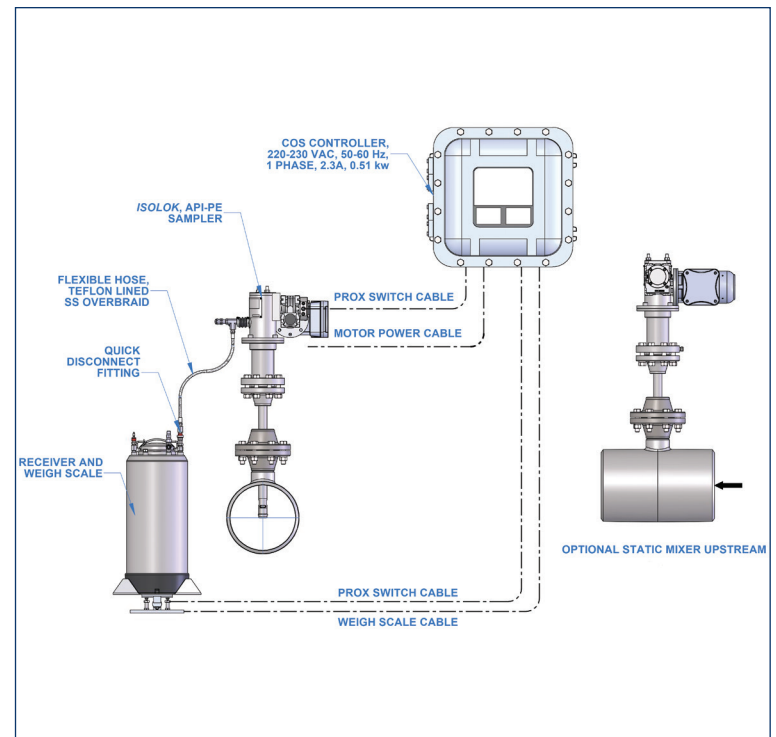
With consistent performance over a wide range of process applications, environmental conditions and temperatures, Sentry API samplers offer the following benefits as a highly accurate, fixed volume automatic sampling solution:

- More reliable, robust and easy to maintain for hydrocarbon custody transfer by upstream crude oil suppliers, refiners and traders
- Easy to implement with a wide performance range at competitive prices for system integrators
- Flexible and able to be used in-line or in the center of a pipe or tank for refinery, chemical and petrochemical users



Sentry ISOLOK API-PA probe sampler

Used in-line | Pneumatic actuator



Sentry ISOLOK API-PE probe sampler

Used in-line | Electric actuator

Both ideal for installing in applications where liquids are fully mixed

Learn more at sentry-equip.com/products/apisamplers or request a quote today.

Options & accessories

In addition to our four Sentry API four sampling solutions, optional hydrocarbon liquid sampling complements and accessories are available:

Sentry COS sampler controller

- Easy to use ATEX rated safe area controller
- Touchscreen interface and simple menu system
- Quick access to frequently used parameters
- Choice of operating modes: time proportional or flow proportional; automatic or manual
- Up to 20 samples per minute standard
- Analog or pulse flow meter inputs
- On-display alarm indicators

Receivers

- Atmospheric receivers and optional level gauge
- High accuracy, integral, independent weigh scales for receivers
- Constant pressure cylinders
- Custom enclosures to suit
- Receiver switchover

Static mixers

- Four-inch and greater pipe diameters
- Various construction materials
- ANSI/ISO flange options
- Effective mixing
- Low pressure drop

Insertion & retraction tools

- Four-inch and greater pipe diameters
- Hydraulic actuation
- Insert and retract up to 5,000 psig (345 bar) of line pressure

Receiver mixing skids

- Positive displacement pump
- Receiver sizes built to suit
- Built-in static mixer and sample port
- Receiver accessories

Sentry manual and automated sampler products and systems are designed and manufactured for taking safe, representative samples in nearly any application. Sentry sampling solutions are easy and cost-effective to implement, use and maintain.

Learn more at sentry-equip.com/products/apisamplers or request a quote for your application today.

sentry-equip.com

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QUALITY SYSTEM
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