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TOP OF THE LINE SAMPLE EXTRACTOR

When you transmit crude oil, you never know what you'll have in your line. Variations in product characteristics and batch size and delivery make selecting the right sample extractor a challenge. Take the guesswork out of the equation with the **Welker inFlow™ ACE Crude Oil Sampler**. This patented main line isokinetic sample extractor covers all conditions you might encounter, whether you're sampling condensate, crude oil, or other liquid hydrocarbons. With an adjustable insertion length and sample volume, fast sample speeds, shaft and seal protection, purge tube, and optional insertion tool, adapt the **inFlow™ ACE** to meet your changing needs and maintain sample integrity.

IOM IOM-189

Video Maintenance Video

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IN 2 SECONDS

OUTPACING THE COMPETITION

MORE SAMPLE IN LESS TIME

When you're sampling short batches, you need a fast, reliable sampler. The **inFlow™ ACE** gives you the speed and repeatability you need to get the most representative sample possible. Whereas other samplers put out 2 cc in a sample cycle, the **inFlow™ ACE** is capable of collecting up to **8 cc** in **2 seconds***.

*Depending on product viscosity, operating pressure, tubing size, and electronics

AT A MOMENT'S NOTICE

EXTERNAL SAMPLE VOLUME ADJUSTMENT

If you frequently transport product from different customers or storage tanks, changing the sample volume often typically involves removing your sample extractor from the pipeline—a time-consuming, laborious task. With the external adjustment, you can quickly change the sample volume of the **inFlow™ ACE** *without* interrupting normal operations, no collection head disassembly required.



POWER UP

DOUBLE-ACTING PISTON MOTOR

The **inFlow™ ACE** is a reciprocating positive displacement probe sampler. The pumping power of the piston motor is enough to overcome the reliefs to push the full sample volume through to the container every time. High-viscosity products won't get left behind—the pneumatic or hydraulic pressure on the piston generates enough force to sample thick oils.

INSERTION STYLE & LENGTH

INSERTION OPTIONS

Install the **inFlow™ ACE** to a 2" pipeline isolation valve to insert and retract the shaft without draining your pipeline.



HANDS ON

When pipeline depressurization isn't an option, manually insert the **inFlow™ ACE** against line pressures up to 40 psig. Lower the line pressure to safely retract the **inFlow™ ACE**.

INSERTION TOOL

The optional insertion tool ensures safe, smooth automatic insertion and retraction of the probe at full pipeline pressure. Remove the insertion tool to use on your other **inFlow™ ACE** samplers or leave it attached to the installed unit without adding bulk.

WHAT'S ON THE INSIDE THAT COUNTS

Clearing the Way

CONTAMINATION



A complete composite sample is key to sample representativeness and cross-contamination prevention. The **inFlow™ ACE** comes standard with a Welker Purge Tube, which allows you to purge trapped liquid product from the collection head to the sample container. Be assured your composite

sample is representative of the entire batch and that no samples remain to contaminate subsequent batches. Achieve a proper purge and automate the purge process with a **Welker Plug & Purge™ Automatic Purging System.**

Inner Strength

IMPROVED SHAFT INTEGRITY

Made from 316/316L stainless steel solid bar, the inner shaft reinforces the strength of the **inFlow™ ACE**. The proprietary **S9 coating** won't crack or break, even under the harshest of conditions. This added protection from basic sediment and water (BS&W) extends seal life.

Buffer Zone

BS&W PROTECTION

The **Welker Great Barrier Sealant™** filling the outer shaft of the **inFlow™ ACE** keeps the sample extractor stroking smoothly for longer. Trapped between seals, this lubricant sealant prevents crude oil from entering the outer shaft and protects the primary seals from wear caused by basic sediment and water (BS&W).

Different Strokes

PISTON-STYLE COLLECTION HEADS

D-Style Collection Head

0.5–10 cc

The standard collection head offers a wide adjustable sample volume range to cover a variety of sample batch sizes and frequency. Adjust the sample volume and actuation speed as necessary. Use the **Welker Checkpoint™ Sample Bite Verification Panel** to confirm your collection head setting and actual grab volume.

C-Style Collection Head

3–24 cc

If you need an even larger sample volume range, the C-Style Collection Head is the option for you. Set your **inFlow™ ACE** from 3–24 cc to suit your sampling requirements. Capable of collecting such large sample grabs, the C-Head is a fitting choice for sampling small volume batches delivered at high flow rates. Use the **Welker Checkpoint™ Sample Bite Verification Panel** to confirm your collection head setting and actual grab volume.

Point of No Return

BACKFLOW PROTECTION

A companion to the collection head, the **inline relief** protects sample representativeness during fluctuations in pipeline pressure. Acting as a check valve, the inline relief keeps your samples in the sample container. If pipeline pressure drops, rest assured sample won't flow from your container back to the pipeline. With the **optional sand reliefs**, you can sample product containing basic sediment and water (BS&W) without putting extra wear and tear on your sampler.

SPECIFICATIONS

INFLOW™ ACE CRUDE OIL SAMPLER

	inFlow™ ACE
Materials of Construction	316/316L Stainless Steel Wetted Parts, Anodized Aluminum Upper Housing, Carbon Steel Lubricator Body, PTFE, Viton® Wetted Seals, Buna and Viton® Non-Wetted Seals
Pipeline Connection	Size: 2" (Standard) or 3"
	Rating: 150, 300, or 600 ANSI RF
Sample Outlet Connection	1/4" FNPT
Insertion Length Options	24" Manual Insertion With Insertion Tool
Motor Housing Actuation Parts	1/4" FNPT

1/2" FNPT

3/8" FNPT (Standard)

Insertion Length

0–24"

0–36"

Utility Requirements

Hydraulic or Pneumatic Supply for Motor Operation: 100–150 psig
Inert Gas Supply for Purge Operation: 1/4" FNPT Connection

Sample Volume

D-Style Collection Head: 0.5–10 cc (Standard)**C-Style Collection Head:** 3–24 cc

Maximum Allowable
Insertion/Retraction Pressure
(Manual Insertion)

40 psig

Operating Pressure

150 ANSI Carbon Steel: 285 psig @ -20 °F to 100 °F

300 ANSI Carbon Steel: 740 psig @ -20 °F to 100 °F

600 ANSI Carbon Steel: 1480 psig @ -20 °F to 100 °F

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