

WELKER CRUDE OIL SAMPLER



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Major oil companies and petroleum cargo inspection agencies worldwide rely on the Welker Crude Oil Sampler for pinpoint accuracy and reliability.

The Welker Crude Oil Sampler extracts a representative sample from a properly conditioned line and pumps it into a sample container. Using an isokinetic collection head, the sampler allows you to analyze the sample to determine BS&W, API gravity, shrinkage and the chemical composition.

A wide variety of sample volumes (.065 cc to 30 cc) and insertion methods (fixed or removable) are available.

APPLICATIONS

Truck loading/unloading	Refineries
Custody transfer	Power plant fuel oil
Tanker loading/unloading	Interchange monitoring
Production facilities	Pipelines

FEATURES & BENEFITS

Samplers

- Isokinetic collection head
 - Consistent sample vs. stream accuracy
- Patented "Vanishing Chamber"
 - Voids 100% to prevent residue from sample to sample
 - Prevents wax/paraffin buildup
- Positive displacement pump
 - Pumps product regardless of viscosity
 - Self-cleaning pumping action provides trouble-free performance
- Simplicity of design
- High-tech seals
- Complete systems designed, built and engineered

Sample Containers

- Choose from heated, atmospheric, or piston-style
 - Transportable stainless steel or stationary with baked-on epoxy coating for greater accuracy
- 3 mixing devices — gear pump, static, and 3-process mixing
 - Provides good vortex and full swirling action for proper conditioning

SPECIFICATIONS

Pipeline pressure:	Atmosphere to 2200 psi (152 bar)
Pipeline flanges:	All types
Rating:	150 to 1,500 ANSI
Sample connection:	Normal 2"
Insertion depth:	18" and 24", standard (other options available)

Temperature:	Ambient to 500°F (260°C)
Insertion Type:	Manual Automatic
Electrical:	110/220/460 VAC 50/60 Hz Explosion-proof motor and switch
Approvals:	UL and CSA
Sample container:	A. Pressurized (constant pressure) high vapor pressure crude stationary skid-mounted LS-7: 2,600 cc to 5 gal (2,600 ml to 20 L) B. Transportation cylinder size: 500 cc to 4,000 cc C. Atmospheric container (not constant pressure) for stabilized crude <ol style="list-style-type: none">1. Stationary skid-mounted (SCC): 3 gal to 30 gal (11 L to 110 L)2. Transportable (TCC): 2 gal to 5 gal (8 L to 20 L)3. Laboratory mixing skid (MSTCC) for use with TCC

Options:

Sight glass	Liquid level gauge
High level shut off	Multiple draw off
Heat trace	Insulation
Enclosure	PLC control packages

COMPONENTS

Various samplers, controllers, containers, mixing skids, and sample conditioners

ACCESSORIES

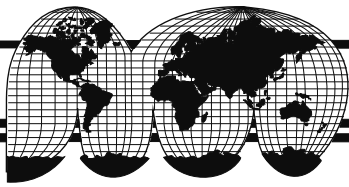
"Bite Checker" volume analyzer (U.S.PAT.#4,463,603)
High level indicator
Proprietary electronic logic control system
Adjustable Sand Relief (U.S. PAT.#4,557,151)

Manufactured under one or more of the following U.S. Patents:

4,631,967	4,387,592	4,470,773
4,829,835	4,440,032	5,213,586
	4,841,785	



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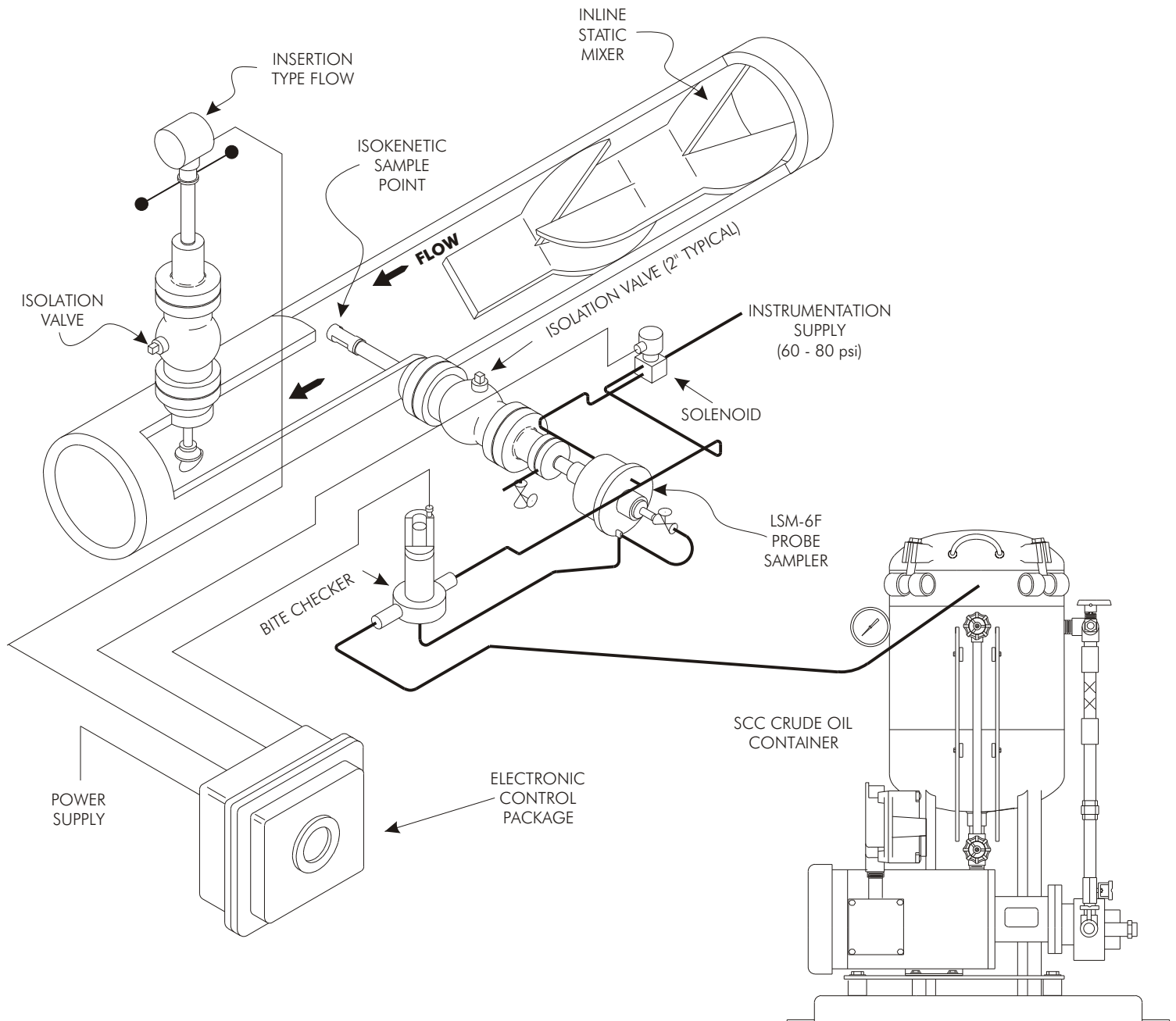


WELKER®

Engineering Company



Typical Crude Oil Sampling System



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