



# Welker<sup>®</sup> Liquid Eliminator Knock Out

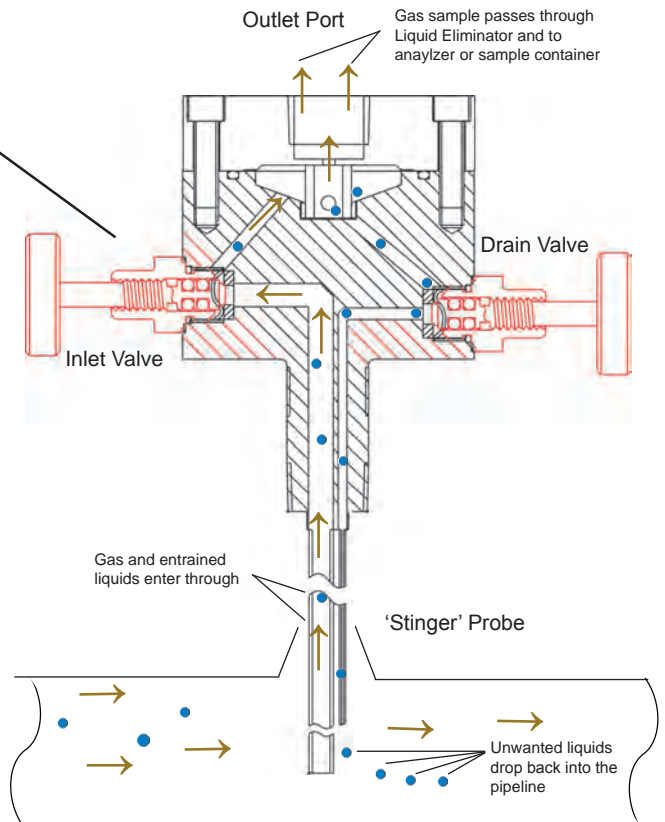
*Knock out unwanted entrained liquids from entering your sample cylinder.*

Obtain a representative natural gas sample even in the presence of liquids. Install the Welker Liquid Eliminator Knock Out (LE2KO) at the sample point to prevent entrained liquids, condensed hydrocarbons, glycol and amines from entering the sample stream. The LE-2 is mounted horizontally, allowing the liquid droplets or slugs to drop off the liquid eliminator and drain back into the pipeline through the probe mounted 'stinger'. The LE2KO can easily be adapted for use with any industry sampler. The integrated valve manifold offers quick and easy isolation of the unit from the process without shutting down the pipeline. The LE2KO is available in fixed probe and automatic insertion probe models. The LE2KO, with a built-in regulator, is also available for total sample conditioning. Put the "Knock Out" punch on your sample system with Welker's LE2KO series Liquid Eliminators.



The gas sample is drawn through the probe past the inlet valve and into a specially designed concavity, where centripetal force takes effect and any entrained liquids are dropped out through the drain valve and back into the pipeline. The gas sample enters the housing and flows through the liquid eliminator, effectively eliminating any free liquids from entering the analyzer column or sample container. The LE2KO is mounted horizontally, allowing the liquid droplets or slugs to drop off and drain through the bottom valve. The replaceable liquid eliminator copolymer flat membrane filter is supported by a stainless steel retaining screen that allows the filter to be back purged without damaging the liquid eliminator.

Manufactured under U.S. Patent  
6,764,536



Welker<sup>®</sup> ... Global Solutions for Your Needs!

# Welker® Liquid Eliminator Knock Out

## Applications

### Analyzers (BTU, Moisture, LPG)

Protect the sample system, analyzer and chromatograph from damage caused by entrained liquids.

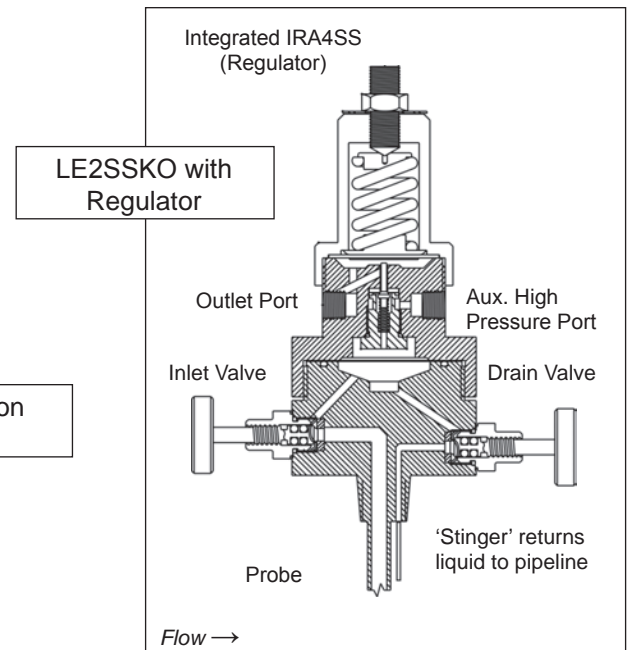
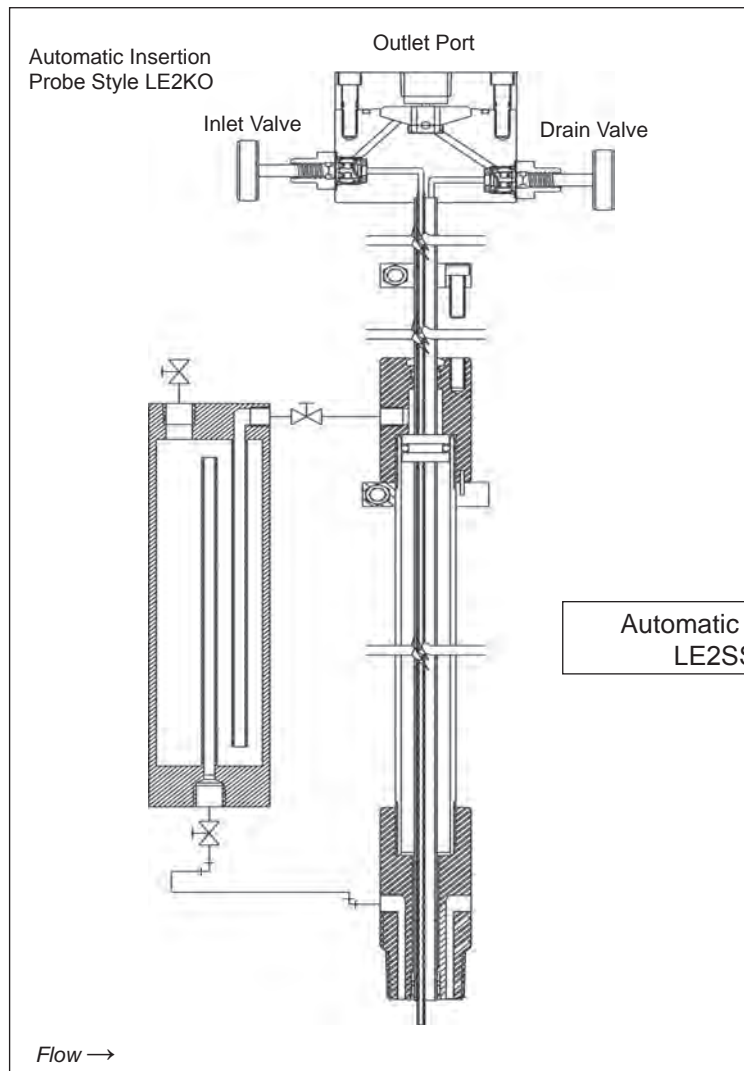
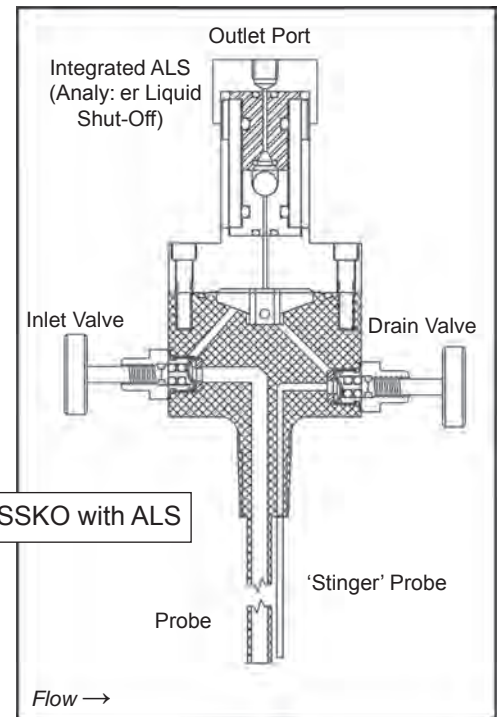
### Composite and Spot Samples

Obtain a representative sample of the natural gas at flowing conditions in the presence of entrained liquids.

Prevent entrained liquids from entering the sample cylinder.

## Features

- Allows for easy and quick isolation from the pressurized pipeline without shutdown.
- Installs through a ball valve in pressurized pipelines up to 1,440 psi (99 bar).
- No special installation tools needed.
- Designs available for composite samplers, spot sampling and analyzers.
- Available with integrated regulator or Analyzer Liquid Shut-Off (ALS).



Specifications subject to change without notice.  
Drawings/Photos may be shown with optional equipment.

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