

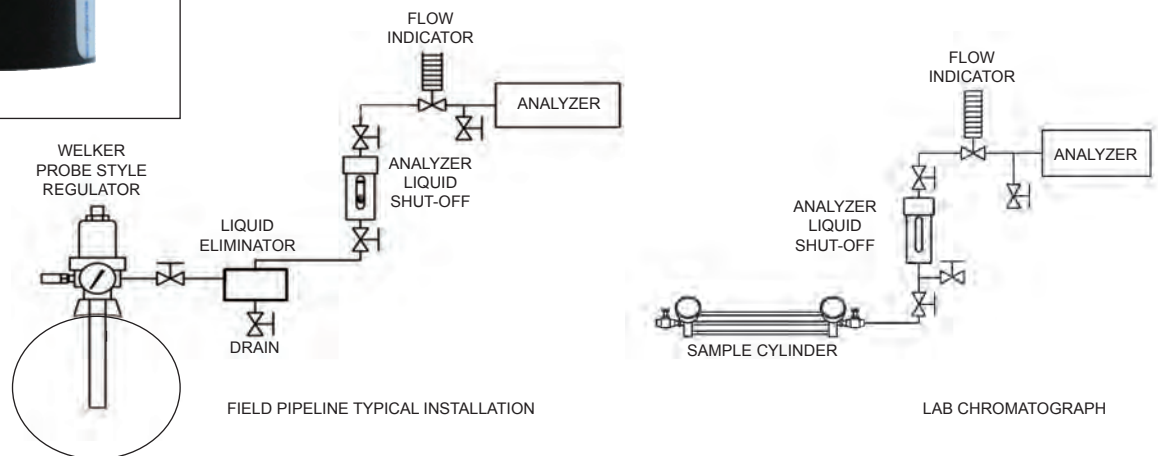


Welker[®] Analyzer Liquid Shut-Off



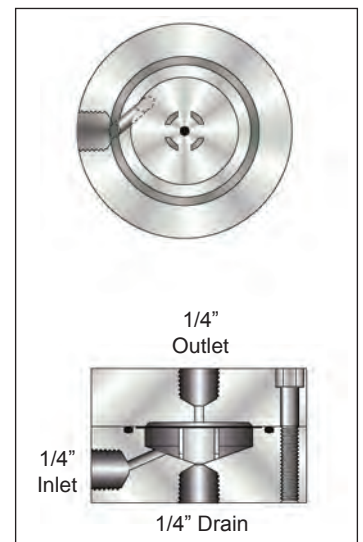
Our Analyzer Liquid Shutoff (ALS) prevents liquid of any kind from entering your gas chromatograph, keeping the analyzer columns safe from damage and saving you expensive repairs or column replacement. The ALS installs quickly and easily to both field and laboratory gas chromatographs and features a see-through sight window for instant visual confirmation of flow status. The ALS is equipped with a shut-off ball that floats while in the presence of the passing gas and instantly moves up in the presence of liquids to shut off the flow of slugs that will flood the analyzer. The ALS should be used on chromatographs, portable and permanently mounted, calorimeters, moisture analyzers and stack sampling systems. The ALS is another Welker patented product designed to improve your company's profitability.

Welker Makes It Smarter!



Welker[®] Liquid Eliminator

The Welker Liquid Eliminator (LE-2) is designed to protect analyzers from damage and contamination by removing liquids and particulates in gas samples. The gas sample enters the housing and flows through the Liquid Eliminator, effectively eliminating any free liquids from entering the analyzer columns. The LE-2 is mounted horizontally with an angled entry port, causing the liquid droplets or slugs to separate from the gas sample stream and drain out through the bottom valve. The replaceable Liquid Eliminator filter is supported by a stainless steel retaining screen that allows the filter to be back purged without damage to the liquid eliminator. The LE-2 is available in stainless steel (working pressure 1,440 psi).



Welker Makes It Better!

Welker[®] ... Global Solutions for Your Needs!

Welker® Analyzer Liquid Shut-Off & Liquid Eliminator

Technical Data

Welker® Analyzer Liquid Shut-Off

Purpose

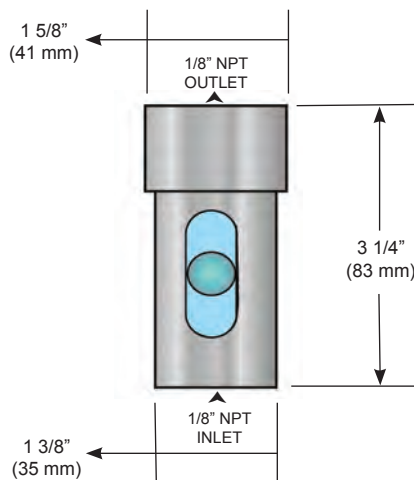
The purpose of the ALS is to prevent liquids from getting into analytical instruments.

Installation

The ALS is installed vertically in the analyzer flow line between the supply source and the analyzer. Purging of liquids from the line should be considered at this time.

Operation

In normal operation, the conditioned sample flows from the probe regulator through the sampling system to the analyzer. When liquids reach the ALS, the ball will float to the top and shut off flow to the analyzer. This can be visually observed by noting the position of the ball in the sight glass. When the ALS shuts off the flow of gas to the analyzer, the sample line must be purged (blown out) to eliminate accumulated liquid from causing further interruptions. The line may be purged with nitrogen, helium or natural gas from the pipeline, if you can insure that the gas will be dry and not add to the contamination. The most effective purge is completed with dry gas, such as helium, which will remove the contaminants and dry the line.



ALS-1 Stainless steel construction
1,000 psi (69 bar) working pressure
1/8" inlet and outlet
Weight: 15.5 oz

ALS-2 Aluminum construction
600 psi (41 bar) working pressure
1/8" inlet and outlet
Weight: 6.70 oz

Manufactured under U.S. Patent:

5,579,803

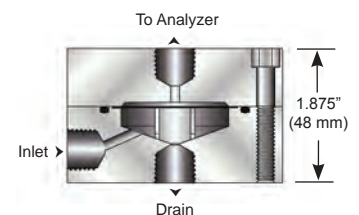
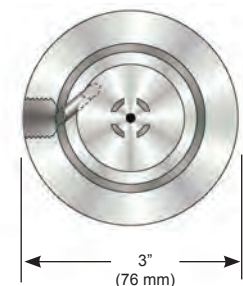
Other patents pending.

Welker® Liquid Eliminator

The Welker Liquid Eliminator is designed to be installed in analyzer sample lines to effectively eliminate free liquids from entering gas analyzers.

- LE-2SS Stainless steel construction
1,440 psi (99 bar) working pressure
1/4" inlet and outlets
Weight: 3.10 lbs
- LE204 Replacement filter, 25 micron

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



Welker manufactures a complete line of filter, dehydration filter and dehydration assemblies, instrument regulators, relief valves and other pneumatic instrument supply devices. These designs are primarily engineered for instrument supply systems working with Welker designed equipment and for low-capacity and low-flow pneumatic controllers. Check the compatibility of the Welker equipment specifications with those of additional manufacturer's equipment prior to incorporating them into system packages. Modifications to Welker products can be quoted and supplied at the customer's request, if the standard Welker product is a limiting factor for an integrated system package or for any other reason.



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