



WELKER™

Sample Intelligence™

SAMPLE CONDITIONING



SAMPLE CONDITIONING HEATED SYSTEM SCHS

The Welker® SCHS properly conditions a flowing gas stream and protects analyzers from free liquids. A proven trio of liquid defense products are integrated into a modular system to provide dependable performance.

Features

- Integrated filtration against contaminants
- Modular design and removable insulated enclosure simplify maintenance

Product and/or components are manufactured under US Patent: 7,471,882

Specifications

- 316/316L Stainless Steel, Viton®, PTFE, Glass, Polyester/Polypropylene Enclosure
- 2160 psig MAOP @ -20 °F to 120 °F
- 3/4" MNPT pipeline connection
- Output Range: 0 to 25 psig
- Electrical Requirement: AC 120 V
- NEC Class I, Div. 1, Groups C and D, T3

LIQUID ELIMINATOR LE-2

The Welker® LE-2 drains free liquids away from the analyzer with a copolymer filter element and centripetal force. Each unit can be integrated with a probe or installed as a stand-alone component.

Specifications

LE-2SS

- 316/316L Stainless Steel, Delrin®, Viton®, PTFE
- 304 Stainless Steel Mesh Screen
- 1440 psig MAOP @ -20 °F to 120 °F
- 25-micron filtration
- 1/4" FNPT connection



PROBE MOUNTED LIQUID ELIMINATOR LE-2SSKO

The Welker® LE-2SSKO prevents entrained liquids, condensed hydrocarbons, glycol, and amines from entering the sample stream. The mounting position allows liquid droplets or slugs to drain back into the pipeline.

Specifications

- 316/316L Stainless Steel, Viton®, PTFE
- 304 Stainless Steel Mesh Screen
- 1440 psig MAOP @ -20 °F to 120 °F
- 25-micron filtration
- 1/2" FNPT outlet connection

Product and/or components are manufactured under US Patent: 6,764,536



ANALYZER LIQUID SHUT-OFF ALS

The Welker® ALS prevents liquid from entering the gas chromatograph, keeping the analyzer columns safe and in optimal condition.

Specifications

ALS-1 Stainless Steel

- 316/316L Stainless Steel, Lexan™, Viton®, PTFE, Aluminum, Glass
- 1000 psig MAOP @ -20 °F to 120 °F
- 1/8" FNPT inlet/outlet connections

ALS-2 Aluminum

- Lexan™, Viton®, PTFE, Anodized Aluminum, Glass
- 600 psig MAOP @ -20 °F to 120 °F
- 1/8" FNPT inlet/outlet connections



GUARDIAN ALSLE

The Welker® Guardian combines the protection of the ALS and LE-2. The dual defense design both sheds and ultimately prevents the flow of liquid into a gas chromatograph.

Specifications

- 316/316L Stainless Steel, Delrin®, Lexan™, PTFE, Aluminum, Glass
- 1000 psig MAOP @ -20 °F to 290 °F
- 1/4" FNPT inlet connection
- 1/8" FNPT outlet connection



FILTERS



CARTRIDGE FILTER DRYER

F-4, F-5, F-19

The Welker® Cartridge Filter Dryers help to remove aerosols, odorant, and liquid hydrocarbons from gas or instrument air.

Features

- Silica gel and activated charcoal media
- Optional visible sight indication

Specifications

- Carbon Steel, Viton®
- 1500 psig MAOP @ -20 °F to 120 °F
- .45-micron filtration
- Flow rate up to 50 scfm
- 1/4" FNPT inlet/outlet connections



ELEMENT FILTER

F-8, F-9, F-10

The Welker® Element Filter series is designed with a cylindrical flow-through filter. The threaded top cap provides quick access for element changes.

Features

- High Density Polyethylene (HDPE) element

Specifications

- F-8: Carbon Steel, Viton®
- F-9 and F-10: 316/316L Stainless Steel, Viton®
- 4000 psig MAOP @ -20 °F to 120 °F
- 35-micron filtration
- 1/4" FNPT inlet/outlet connections



DEHYDRATION ASSEMBLY

DA-1

The Welker® DA-1 is designed to filter, dry, and regulate natural gas or instrument air for proper quality pneumatic supply.

Features

- Silica gel and activated charcoal media
- Backup filter automatically activates when primary filter is saturated
- Incorporates two F-5 Filter Dryers and two regulators

Specifications

- 316/316L Stainless Steel, Carbon Steel, Viton®, PTFE, Brass
- 3/8" 316/316L Stainless Steel tubing and tube fittings
- 1500 psig MAOP @ -20 °F to 120 °F
- .45-micron filtration
- Flow rate up to 50 scfm
- 1/4" FNPT inlet/outlet connections

PROBE REGULATORS



INSERTION REGULATOR PROBE

IRD-4SS

The Welker® IRD-4SS is designed with the point of regulation near the tip of the probe in the flowing stream. The thermal fin design mitigates the Joule-Thomson effect.

Specifications

- 316/316L Stainless Steel, Viton®, PTFE
- 3600 psig MAOP @ -20 °F to 120 °F
- Diaphragm-Operated
- Probe lengths suitable for 2", 3", 4", 6", 8", 10", 12" pipelines
- 1/4" FNPT outlet connection
- 3/4" MNPT pipeline connection



AUTOMATIC INSERTION REGULATOR

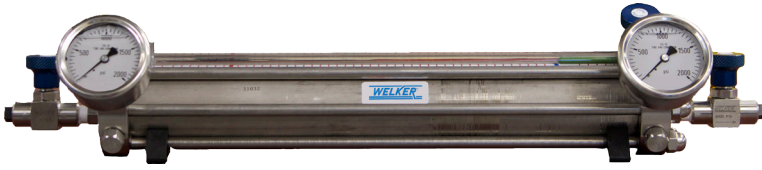
IRA-4SS

The Welker® IRA-4SS allows insertion and removal of the probe from a pressurized pipeline through a fully open isolation valve without pipeline shutdown.

Specifications

- 316/316L Stainless Steel, Viton®, PTFE
- 2160 psig MAOP @ -20 °F to 120 °F
- RV-1D relief valve
- 12" and 18" insertion length
- 3/4" MNPT pipeline connection
- 1/4" FNPT outlet connection
- 5/8" shaft probe diameter

CONSTANT PRESSURE CYLINDERS

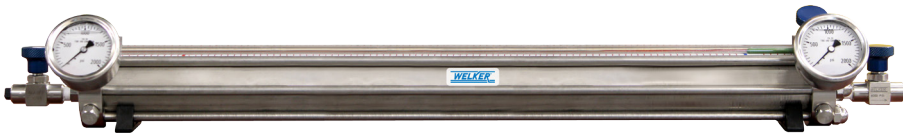


CONSTANT PRESSURE SAMPLE CYLINDER CP-2

The Welker® CP-2 Sample Cylinder maintains the integrity of a sample in the original product condition while being transported or stored in a laboratory.

Specifications

- 316/316L Stainless Steel, Viton®, PTFE
- 1800 psig MAOP @ -20 °F to 120 °F
- 500 cc
- Built-in gravity style mixer
- 1/4" FNPT inlet/outlet connections
- 1/2" FNPT relief valve connection
- DOT and Transport Canada approval*



CONSTANT PRESSURE CALIBRATION CYLINDER CP-2

The Welker® CP-2 Calibration Cylinder is the most effective solution for containing and maintaining calibration standards. The cylinder provides safety, reliability, and convenience to calibration standards used in laboratories worldwide.

Specifications

- 316/316L Stainless Steel, Kalrez®, Viton®, PTFE
- 1800 psig MAOP @ -20 °F to 120 °F
- 1000 cc
- Built-in gravity style mixer
- 1/4" FNPT inlet/outlet connections
- 1/2" FNPT relief valve connection
- DOT and Transport Canada approval*

CYLINDER CARRYING CASE

The Welker® Cylinder Carrying Case is constructed of aluminum exterior and foam lining to bring added protection for transportation.

Specifications

- For 1000 cc cylinder
- 40-1/2" x 8-3/4" x 6-1/2" external dimensions
- Aluminum hinges and zinc-plated steel latches
- Weather resistant seal
- DOT compliant



*Transport Canada SU 4781 available upon request

GAS SAMPLING

MICRO PURGE SAMPLER MPS-2

The Welker® MPS-2 is designed to provide the user with a quality sample while utilizing a reduced-size format. It is equipped with a compact and efficient Micro Purge Sample Pump that provides Welker's original fresh purge sample.

Features

- Fresh Purge System that uses sample gas from the chamber to actuate the solenoid
- Operates at full pipeline pressure
- Pneumatic actuation

Specifications

- 316/316L Stainless Steel, Viton®, Fluorotrel®, PTFE
- 2160 psig MAOP @ -20 °F to 200 °F
- Piston-Operated micropump
- 0.25 cc stroke volume
- 1/4" MNPT connections
- Electrical Requirements: DC 6 V, DC 12 V, DC 24 V



COMPOSITE GAS SAMPLER GSS-4

The Welker® GSS-4 composite sampler extracts a fresh, representative gas sample from the process line and pumps it completely into a sample receiver.

Features

- Vanishing Chamber™ that voids sample collection area
- Externally adjustable inline relief
- Sample path remains clear of filters and regulators

Specifications

- 316/316L Stainless Steel, Viton®, PTFE, Aluminum
- 2160 psig MAOP @ -20 °F to 120 °F
- Diaphragm-Operated
- Probe length up to 8"
- 3/4" MNPT pipeline connection
- Up to 15 grabs per minute
- 0.22 cc collection head size
- Electrical Requirements: DC 12 V, DC 24 V
- NEC Class I, Div. 1, Groups C and D



LIQUID SAMPLING

ESSENTIALS™ CRUDE OIL SAMPLER AWL-3

The Welker® Essentials™ Crude Oil Sampler is designed to collect a desired volume of sample product from a pipeline. It may be actuated using either an electrical solenoid or a pneumatic or electrical actuator and valve.

Specifications

- 316/316L Stainless Steel, Viton®, PTFE
- 400 psig MAOP @ -20 °F to 120 °F
- 3/4" MNPT pipeline connection
- Solenoid Voltage: DC 6 V, DC 12 V, DC 24 V



ODORANT REMOVAL



ODORXICE®

Welker® OdorXice® removes odorization chemicals added to natural gas. This non-toxic solution is water soluble and effectively eliminates odors caused by mercaptan, sulfide, and thiophene from containers, parts, vehicles, clothing, and tools instead of merely masking the smell.

Features

- Non-toxic
- Non-hazardous

Specifications

Available in:

- 32 oz spray bottle
- 1 US gallon container

For more Welker product information,
please contact our Sales department:
281.491.2331

For installation, operation, and maintenance inquiries,
please contact our Service department:
281.207.1879



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