



**PROBES/QUILLS**  
CATALOG

## Sample Probes

### JACK OF ALL PROBES

Spot sampling. Composite sampling. Injection. Siphoning. Liquids. Gas. There's no application the Welker SP Sample Probe can't handle! NPT, flanged, and wafer connection types available.



## Pitot Probes

### IN THE HOT LOOP

Need a fast loop for your sampling equipment but don't have a downstream pressure drop for a return probe? The 2-in-1 design of the Welker Pitot Probe creates the pressure drop for you in the convenience of one tap. Fixed, adjustable, and automatic insertion styles available.



## Adjustable Probes

### HANDS ON

When pipeline depressurization isn't an option, manually install the Welker AP Adjustable Probe against line pressures up to 1000 psig depending on shaft size. Sending a pig down your pipeline? Easily retract the AP to allow safe passage of the pig and prevent damage to your equipment. NPT and flanged connection types available.



## Double-Block-and-Bleed Probes

### SAFETY FIRST

Add a Double-Block-and-Bleed Valve to any probe for added safety. Extract a small process sample for evaluation under full system pressure. Safely use the bleed valve to capture the sample at a reduced pressure.



# Probe-Mounted Liquid Eliminator

## PROTECT YOUR ANALYZER

The patented design of our Probe-Mounted Liquid Eliminator effectively knocks free liquids out of the sample stream and returns them to the pipeline.



# Siphon Probe

## LOWER THE LIQUID LEVEL

Welker Siphon Probes extract unwanted liquids from your natural gas pipeline, helping prevent internal corrosion and speed up gas flow.



# Diffusing Probe

## UNIFORM CHEMICAL INJECTION

Stop wasting chemical! For rapid dispersal across the full diameter of the pipeline and uniform distribution throughout the product, trust a Welker Diffusing Probe.



# Insertion Thermowells

## TEMPERATURE CHECK

Automatically insert and retract a protected RTD into your natural gas pipeline for real-time temperature monitoring. Accurate temperature measurements are essential for measurement accuracy and analysis and help ensure normal pipeline operation.



# Automatic Insertion Probes

ADJUSTABLE, ADAPTABLE, RETRACTABLE

With an adjustable insertion length, the AIP is compatible with multiple pipe sizes and can transition from sampling to siphoning. AI Control™ ensures safe, smooth automatic insertion and retraction of the probe at full pipeline pressure. Easily retract the AIP before pipeline pigging to allow safe passage of the pig and prevent damage to your equipment.



**AIP**



**AIPP**

## SAMPLE POINT AND RETURN

Need to create a hot loop but can't depressurize your line? The AIPP has outlet and return ports and can be inserted under full pipeline pressure for bypass sampling.

## LEFT TO YOUR OWN DEVICES

Safely insert almost any instrument into pipelines, vessels, tanks, and process lines without the need for external power and without interrupting normal operations.



**AID**



# Corrosion Coupon

## MONITOR INTERNAL CORROSION

Field corrosion testing just got easier...and safer and less expensive! Our AI Control™ allows you to insert and retract your corrosion coupon at full pipeline pressure. And your coupon stays securely in the process stream for the duration of the test. After the desired exposure period, simply retract your coupon for evaluation and analysis.



# Probe Regulators

## AUTOMATIC INSERTION PROBE REGULATORS

The safety, convenience, and responsive control you need for accurate online sampling is here in a single user-friendly device. Thanks to AI Control™, probe insertion and retraction is easy—even under full pipeline pressure. In-pipeline pressure regulation and low internal volume reduce lag time and get your sample to the analyzer faster.

## DIRECT-MOUNT PROBE REGULATORS

Get straight to the sample point and provide your online analyzer with a properly conditioned sample stream. Mounting directly to a hot tap or mating flange on a depressurized pipeline, the IRD extracts the most representative sample from the center one-third of your line.



# Plus Welker

## CUSTOMIZED SOLUTIONS

High pressures. Extreme temperatures. Exotic materials. Special coatings. Certifications. Factory Acceptance Testing. Whatever you need, we've got you covered.

Welker can customize any probe to fit your application.

Customer inspired. Welker manufactured. When off-the-shelf isn't quite what you need, we'll collaborate with you to create a custom solution.





# Additional Probe Solutions

## YOUR PROBE SOLUTIONS PROVIDER

We may be known for our sampling probes, but that's not all we have to offer.

From temperature sensors to hydrometers and beyond, Welker probes and automatic insertion devices can be designed to insert your device. With more than half a century of engineering and manufacturing experience, we have the know-how and skills needed to design a solution for your application.

Standards and quality are important to you—and they're important to us too! As an ISO 9001:2015 certified company, we ensure the solutions we manufacture meet standards and exceed expectations.

### Services:

- Phase Envelope Calculations
- Probe Calculations

### Probe Types:

- Atomizer Probes
- Automatic Insertion Combo Probes
- Automatic Insertion Heated Regulators
- Automatic Insertion Hydrometer
- Automatic Insertion Pitot Probes
- Extractor Probes

- Fixed, Manual, or Automatic Insertion
- Flare Stack Probes
- Furnace Probes
- Heated Probe Regulators
- Liquefied Natural Gas Probes
- Manual Sensor Probes
- Mole Sieve Probes
- Probe Mounted Sampler
- Probe-Mounted Liquid Eliminator with Regulator
- Sample Conditioning Heated Systems

- Solid/ No Weld Probes
- Transducer/Sensor Probes
- Wafer Probes

### Accessories:

- Enclosures
- Extension Spools
- Heated/Insulation Blankets



## Meet the Capabilities Icon

You deserve quality at every level, and Welker delivers.

From instrumentation to turnkey systems and everything in between, we design and manufacture reliable equipment. When off-the-shelf isn't quite what you need, we'll collaborate with you to create a custom solution.

## For More Information

For 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**

