The Next Step in Sample Conditioning ...

What's In It For You?

- Easy to install and simple to operate
- Precise, reliable temperature control utilizing direct power connection
- Adjustable sample gas temperature range
- No unpredictable sequential shutdowns or power drop due to overlapping thermostats
- Peace of mind that the gas will remain above the hydrocarbon dew point

Fast Facts

- Has a visual temperature indicator for the enclosure
- Eliminates high-pressure line pack and reduces retention time
- Comes with an Analyzer Liquid Shut-off that prevents any liquids from reaching your analyzer
- Simply overwhelms the Joule-Thomson effect

Where To Use It

- Any analyzer system that is designed for gas and requires pressure regulation
- For high BTU gas systems where retrograde condensation in the pipeline is a problem

Welker Sample Conditioning System

What It Is

The new Welker Sample Conditioning System is designed to provide a regulated, properly conditioned gas sample to your on-line analyzer in accordance with the recommended guidelines of API 14.1, GPA-2166 and related gas sampling standards, all in a compact and easy-to-access enclosure that makes any required maintenance a breeze.

How It Works

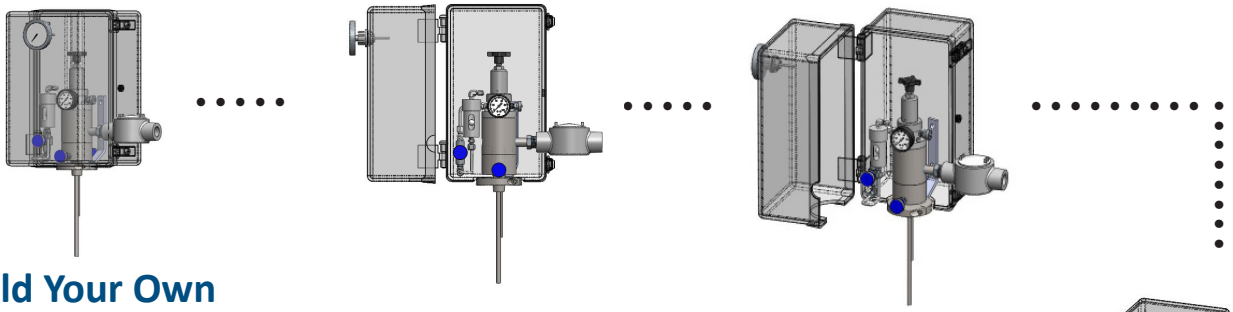
Natural gas is taken directly from the pipeline through a probe leading to our patented Liquid Eliminator Knock Out. Liquids in the gas drop off the horizontally mounted liquid eliminator and drain back into the pipeline through our "stinger" probe.

Next, the gas enters the patented Welker Heated Regulator, where the pressure is reduced to one that is set by the operator. Inside the regulator, the temperature loss associated with the pressure drop is offset by the heat generated from the regulator, which works to keep the gas above the hydrocarbon dew point.

Welker's patented Analyzer Liquid Shut-off provides the last line of defense against liquids entering the analyzer, before the gas exits the enclosure through heat-trace tubing and enters the analyzer.

No other sample conditioning system brings you this combination of innovative and proven products to effectively provide the best sample possible to your analyzer.

As you have come to expect, Welker once again leads the way!!



Build Your Own

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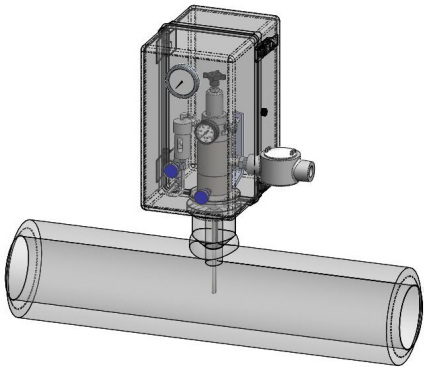
Regulator Output Range:
0 to 25 psig (0 to 1.72 bar): A
(with 30 psig gauge, relief)
20 to 100 psig (1.38 to 6.90 bar): B
(with 160 psig gauge, 130 psig relief)

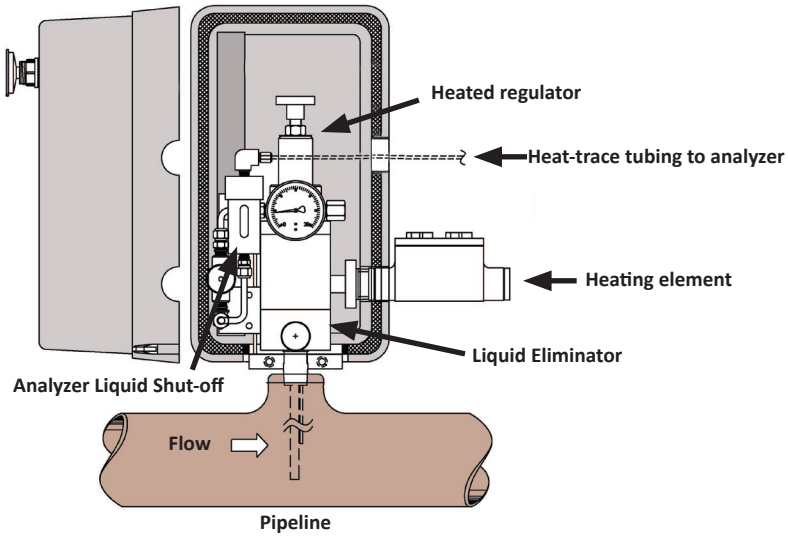
Probe Length:
080: 8 inch (standard)
(Other lengths available)

Electrical Connection:
On P1 side of enclosure: L
On P2 side of enclosure: R

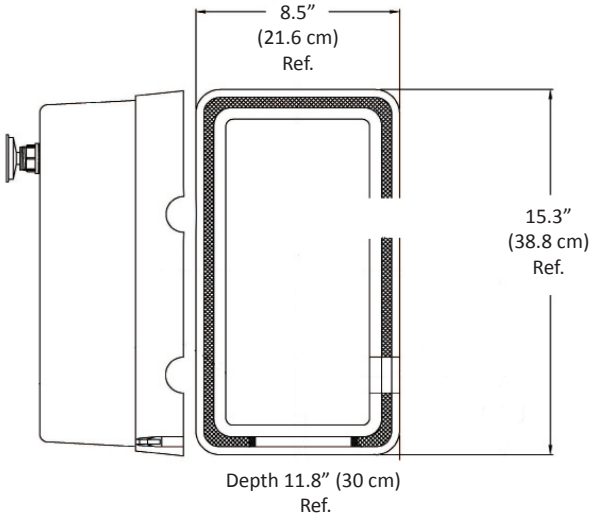
Pipeline Connection:
A: 1/2" NPT
B: 3/4" NPT
C: 1" NPT



Typical Set-up for Sample Conditioning System



Dimensions



Technically Speaking

- **Pressure Rating:**
  1,440 psi (99 bar) maximum working pressure at -20°F (-7°C) to 100°F (38°C)
- **Standard Output Range:**
  0 to 25 psig (0 to 1.72 bar)
- **Standard Temperature Range:**
  -20°F (-7°C) to 200°F (93°C)
- **Thermostat:**
  68°F (20°C) to 212°F (100°C)
- **Electrical Requirements:**
  120 VAC (Class 1, Div. 1 Group C & D)
- **Electrical Components:**
  150-watt heating element
  120-volt unit, 144 Ohms,
  draws 1.53 Amps (RMS) during normal operations, draws 2.16 Amps to start up

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Manufactured under U.S. Patents:

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