



# Welker® Heated Regulator

A unique convection-by-conduction design and removable heat inducer puts this Welker patented product above all other heated regulators on the market. It prevents gas condensation caused by the temperature loss produced from large drops in pressure. Because of the large surface area of the heat inducer, the gas or liquid being analyzed stays in contact longer with the heat source, retaining its heat for a longer period. This ensures no phase change and a more accurate sample.

## Features

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- Patented convection-by-conduction design, for efficient operation
- Low retention time for gas
- Adjustable thermostat
- Removable heat inducer

## Specifications\*

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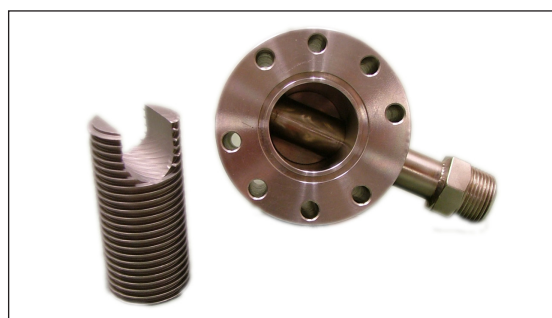
- 2,160 psi (149 bar) working pressure at -20°F (-29°C) to +100°F (+38°C)
- 150-watt heating element
- 110 VAC
- Thermostat: 68°F (20°C) to 212°F (100°C)
- 316 SS regulator, aluminum heat inducer
- Class 1, Div. 1, Groups C & D

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

## Applications

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The Welker Heated Regulator is used to offset the temperature loss associated with the Joule-Thomson effect, making certain gas maintains its phase leading to analyzers or gas chromatographs.



Manufactured under U.S. Patents:  
5,907,107  
7,471,882

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**Welker ... When Excellence Counts!**

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# Welker® Heated Probe Regulator

## Specifications

### Pressure Rating

2,160 psi working pressure at -20°F to +100°F  
Standard Output Range: 0-200 PSIG

### Temperature Rating

HR-4SS, HRA-4SS, IHRD-4SS:  
-20°F to +200°F  
HRA-4SSLT: -100°F to +200°F

### Materials

316 stainless steel construction  
Soft goods: PTFE/Viton®  
Other materials available

### Electrical Requirements

120 VAC  
150 Watt heating element  
Thermostat: 68°F to 212°F  
Class 1, Div. 1, Groups C & D

### Connections

Pipeline: IHRD: Standard 1/2", 3/4", 1" NPT  
HRA: 1" NPT (Flanged available)  
Regulator: 1/4" NPT Outlet

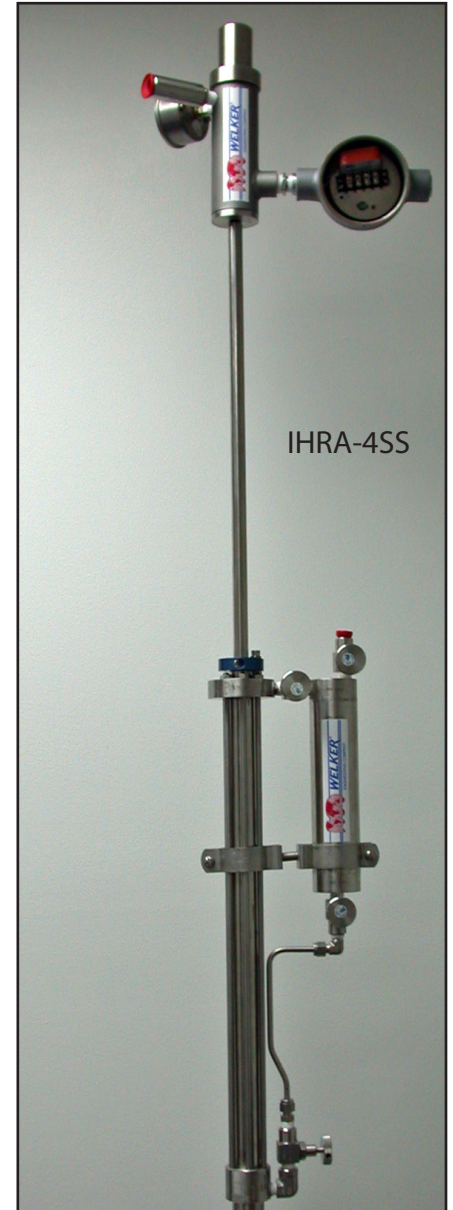
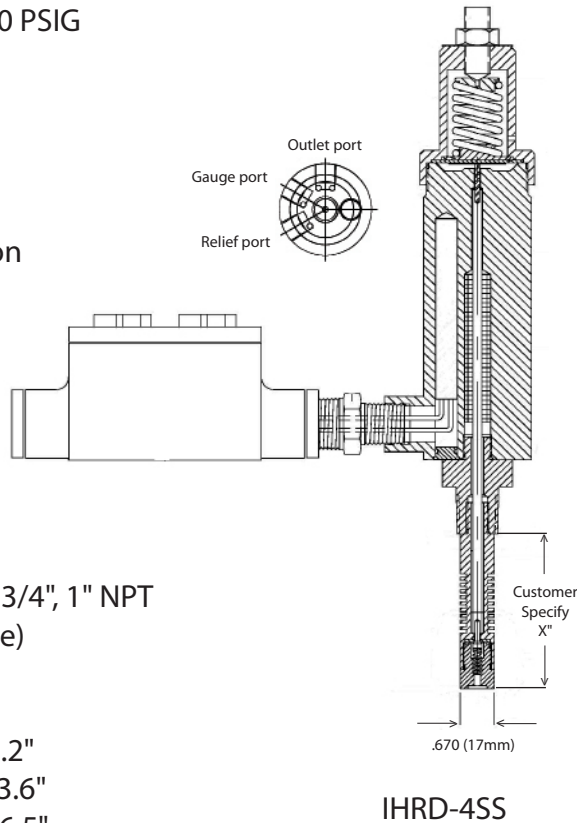
### Standard insertion depths

IHRD: For 2", 3" pipelines: 2.2"  
For 4", 6", 8" pipelines: 3.6"  
For 10", 12" pipelines: 6.5"

HRA: 18" to 36"

### Flow coefficient (Cv)

IR style - 0.138  
IRA style - 0.138  
IRD style - 0.138



Automatic Insertion (IHRA) Style  
(24" travel shown)

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