

ATEX/IECEX HR Heated Regulator



REGULATE



SAMPLE



CONDITION



The Welker HR Heated Instrument Regulator is a single-stage, spring-loaded, electrically heated pressure reducing valve designed to provide an analytical system with a conditioned gas sample stream at a safe output pressure and temperature. The HR's controlled heating compensates for the cooling brought on by the Joule-Thomson effect to prevent condensation and maintain sample integrity. The HR is specifically designed for use in explosive atmospheres.

Features

- IECEx / ATEX Certified
- Side entry electric heating element with adjustable thermostat
- Diaphragm- or piston-sensing with multiple pressure control ranges
- Variety of body and seat materials
- Ergonomic 4-point hand knob

Benefits

- Safe to use in Ex areas around the world
- Efficient heat transfer at the appropriate temperature
- Well-suited to installations with height restrictions
- Adaptable to pressure requirements of downstream equipment
- Corrosion resistance and process fluid compatibility
- Quickly, easily, and comfortably adjust the outlet pressure



SPECIFICATIONS

ATEX/IECEX HR HEATED REGULATOR

ATEX/IECEX HR

Materials of Construction

Regulator Base and Body: 316/316L Stainless Steel (Standard), Others Available
Seals: Varies Based on Customer Specifications and the MAOP and MAOT of the Unit

Temperature Range

Ambient: -31 °F to 140 °F
Process: -20 °F to 68 °F

Connections

¼" FNPT

Pressure Control Ranges

0–25 psig

0–50 psig

20–100 psig

75–200 psig

Operation

Diaphragm-Sensing

Piston-Sensing

Features

Explosion-proof Electrical Housing
Thermostatically Controlled Heating Element

Explosive Atmosphere / Hazardous Location
Certifications*

IECEx Certification (Certificate of Conformity IECEx SIR 16.0072X)
ATEX Certification (EU-Type Examination Certificate Sira 16ATEX1221X)
Group II, Category 2G, Ex db IIB+H2 T3 Gb
Tamb -35 °C to +60 °C

Options

Mounting Bracket

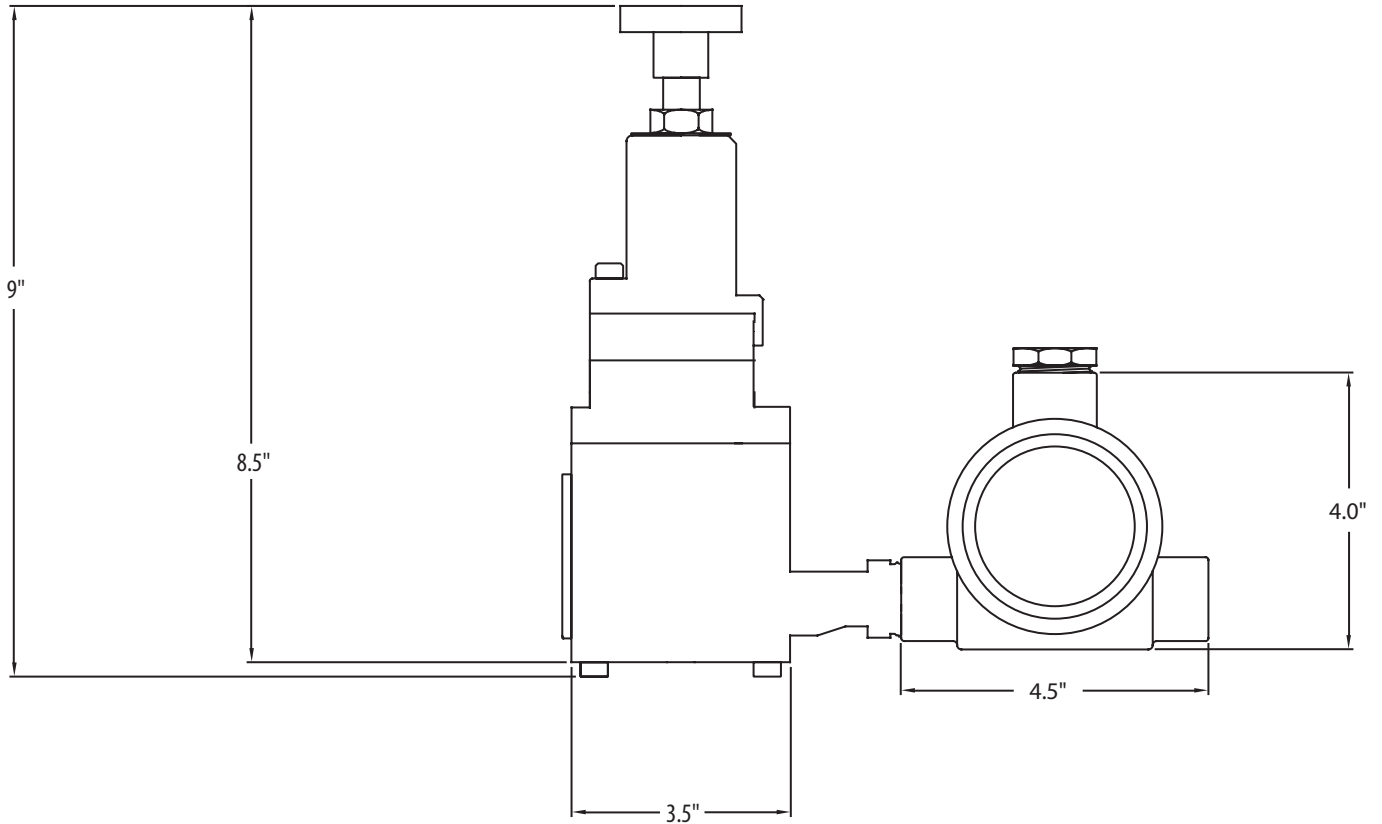
Relief Valve and Pressure Gauge

*To maintain its certifications, the HR must be installed, operated, and maintained in accordance with the instructions in the Welker IOM Manual.
Note: A downstream relief is required.

Heating Element Options

Electrical Connection	Power	Temperature Range	Current	Resistance
AC 110/120 V	150 W	68 °F to 210 °F	1.25 A	196 Ω
	200 W	180 °F to 380 °F	1.67 A	75 Ω
AC 220/240 V	100 W	68 °F to 210 °F	0.417 A	576 Ω
	200 W	180 °F to 380 °F	0.833 A	288 Ω

DIMENSIONS



Weight and/or dimensions are approximate.
Specifications subject to change without notice.

