

Electrical Heated Regulator

Description: This Airgas regulator is designed to heat and vaporize media to keep condensable liquids in the gas phase. These regulators are commonly used in gas chromatography, hydrocarbon sampling, fluid fractionation, sampling conditioning and to preheat heavy process fluids.

This uniquely designed regulator allows the user to disassemble the regulator and heat transfer components for complete cleaning and repair of the unit, reducing expense cost and down time.



Specifications	
Max Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0-10, 1-30, 2-60, 3-100, 10-250, 20-500 psig
Operating Temperature	200 watts up to 500F
Ambient Temperature	-4F to 104F
Flow Coefficient	Cv= 0.06
Inlet Connection	1/8" NPT female
Outlet Connection	1/4" NPT female
Internal Volume	4.6 cc
Power Requirements	120 Voltage (240 Voltage option)
Temperature Controller	220F to 380F
Approximate Shipping Weight	8 lbs

Materials	
Body	316L Stainless Steel
Compression Member	Inconel 625
Diaphragm	Hastelloy C22
Seat	Vespel
Filter	Stainless Steel
Heater Seal	PEEK
Other Metals Parts exposed to the Media	Hastelloy, Inconel and 316L Stainless Steel
Bonnet	303 Stainless Steel

Design Features

- Low Internal Volume – allows rapid purging and stabilization of gas flow
- Electrical Approval – CSA, CE-ATEX certified
- Electrical Specifications – UL and CSA listed Class 1 Groups A,B, C and D
- Convoluted Hastelloy C22 Diaphragm – eliminate outgassing associated with elastomeric diaphragm

Single-Stage Ordering Information

Product Number	Delivery Pressure Range (psig)
Y11-V83556A	0-10
Y11-V83556B	1-30
Y11-V83556C	2-60
Y11-V83556D	3-100
Y11-V83556E	10-250
Y11-V83556F	20-500