



# **GO** REGULATOR, INC.

A division of CIRCOR International, Inc.

## **Steam Heated Dual Pressure Regulators**

The Dual Heated Pressure Regulator is designed to supply heat to samples entering instrumentation systems. It can be used to preheat liquids, to prevent condensation of gases or to vaporize liquids prior to gas analysis. Significant space savings can be realized due to the utilization of two discreet regulators that are heated by a common source.

The modular design of the Dual Heated Regulator consists of a heating element and pressure control sections. The pressure control sections are patterned after the time proven design of the PR-1 pressure reducing regulator and provides the same excellent outlet pressure stability. The heat exchanger section is made up a body and a heating element.

### **Features & Specifications**

- 316L stainless steel construction
- Optional Hastelloy C and Monel
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- Steam temperatures up to 550° F (285° C)
- Bubble tight shutoff
- Outlet pressure ranges are 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- Modular pressure control and heat exchanger assemblies for easy maintenance
- $C_v$  flow coefficients of 0.06, 0.025, 0.2

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# Steam Heated Dual Pressure Regulators

## How to Order

See page 3 for standard configurations. Consult factory for additional configurations.  
Port locations, see page 4.

## Maximum Temperature & Operating Inlet Pressures

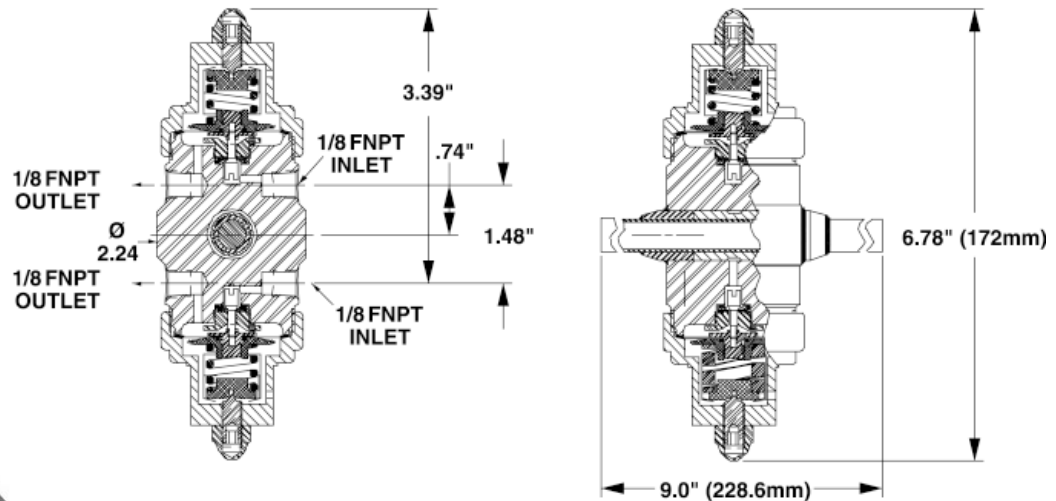
Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Tefzel®	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@	1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@	400 psig (2.76 MPa)
High Density Teflon®	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@	1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@	400 psig (2.76 MPa)
PCTFE (formerly Kel-F81)	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)
Polyimide	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)
PEEK	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)

Tefzel® and Teflon® are registered trademarks of Dupont.

## Outline and Mounting Dimensions

Panel mount option  
requires 1.390 (35.3 mm)  
minimum diameter panel  
cutout

Weight - 4.0 lbs (1.81 kg)

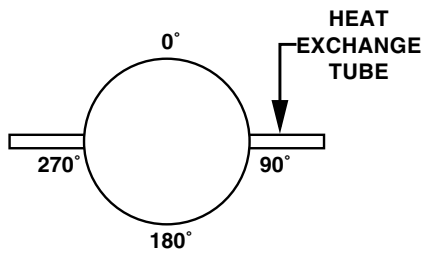


# DHR Dual Steam Heated Regulator

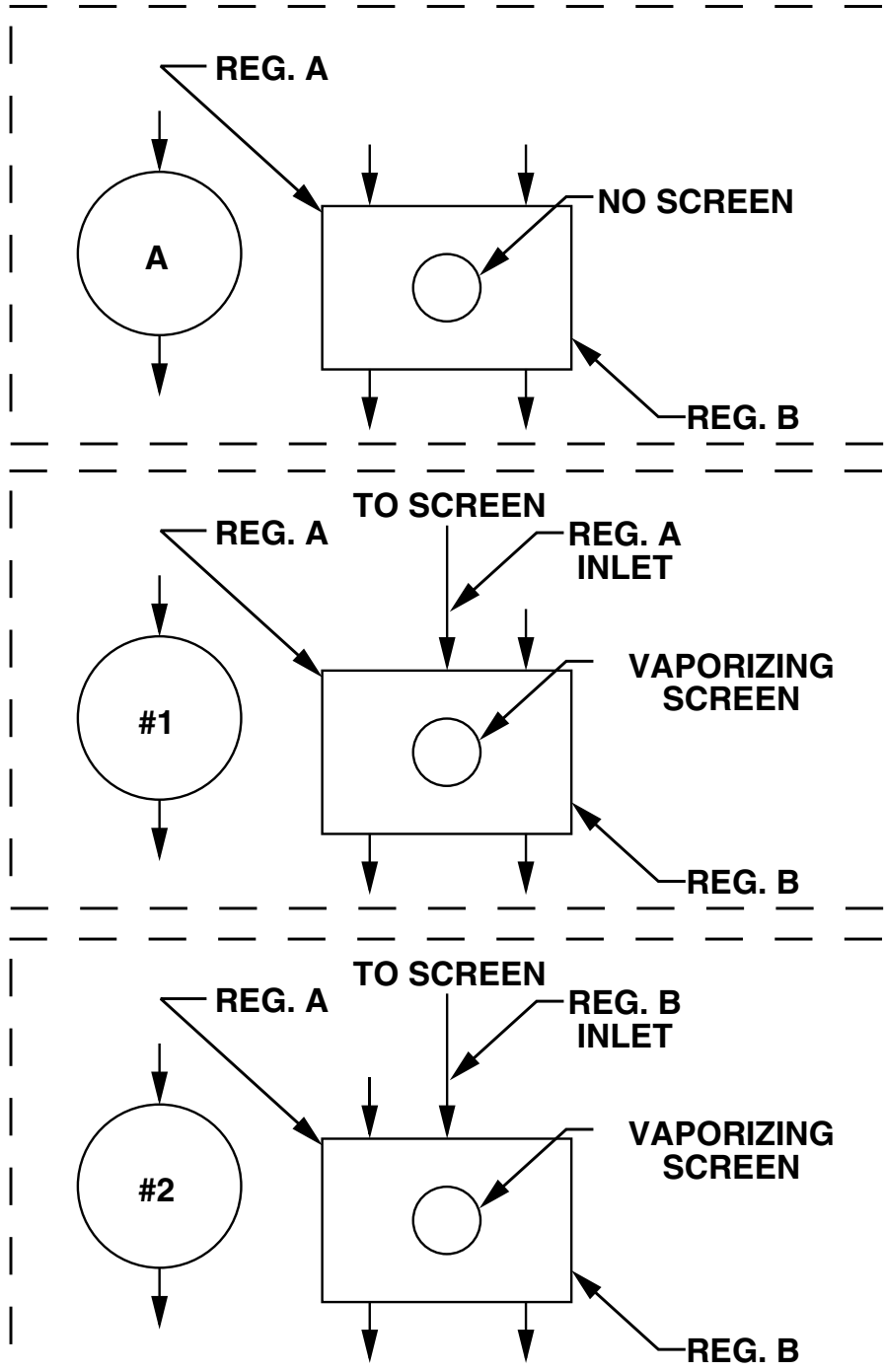
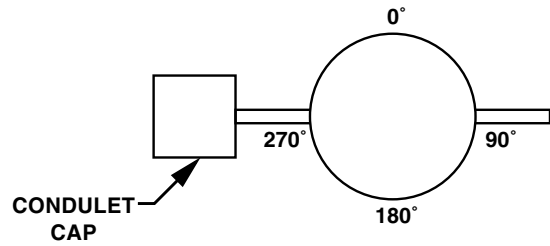
Material of Body														
1	SS 316L													
4	Monel													
Port Configuration (page 38)														
STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT ON EACH SIDE)														
Seat Material (Regulator A)														
A	Tefzel													
B	CF Teflon													
C	Polyimide													
H	PCTFE (formerly Kel-F 81)													
Q	PEEK													
Flow Coefficient (Cv) (Regulator A)														
3	0.06													
Output Range (Regulator A)														
C	0 - 10 Psig													
D	0 - 25 Psig													
E	0 - 50 Psig													
G	0 - 100 Psig													
I	0 - 250 Psig													
J	0 - 500 Psig													
Cap Assembly (Regulator A)														
1	Tamper Proof, Standard, S.S.													
4	Tamper Proof, Panel Mount, S.S.													
Seat Material (Regulator B)														
A	Tefzel													
B	CF Teflon													
C	Polyimide													
Q	PEEK													
Flow Coefficient (Cv) (Regulator B)														
3	0.06													
Output Range (Regulator B)														
C	0 - 10 Psig													
D	0 - 25 Psig													
E	0 - 50 Psig													
G	0 - 100 Psig													
I	0 - 250 Psig													
J	0 - 500 Psig													
Cap Assembly (Regulator B)														
1	Tamper Proof, Standard, S.S.													
4	Tamper Proof, Panel Mount, S.S.													
Temperature Range														
5	Steam													
Heater Wattage														
5	Steam													
Controller Type														
5	Steam													
Thermistor Type														
5	Steam													
Voltage														
5	Steam													
D H R -										5	5	5	5	5
Material	Port Config.	Seat Material	Cv Flow	Output Range	Cap Assembly	Seat Material	Cv Flow	Output Range	Cap Assembly	Temp Range	Heater Wattage	Controller Type	Thermistor Type	Voltage
Regulator A					Regulator B									

# REGULATOR BODY PORTING CONFIGURATIONS FOR DHR (STEAM & ELECTRIC)

## STEAM HEATED REGULATOR REFERENCE CLOCK



## ELECTRICALLY HEATED REGULATOR REFERENCE CLOCK



LOCATION OF PORTS FROM TOP OF REGULATOR "A"  
ARROW POINTING TOWARD BODY IS INLET  
ARROW POINTING AWAY FROM BODY IS OUTLET