

Regulators - Pressure Reducing

**Specifications**

For other materials or modifications, please consult TESCOM.

**OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

<b>Maximum Inlet Pressure</b>	
Standard 3500 psig /241 bar / 24,132 kPa	
Optional 6000 psig/414 bar/41,370kPa	
<b>Maximum Outlet Pressure</b>	
0-25, 0-50, 0-100, 0-250, 0-500 psig	
0-1.7, 0-3.4, 0-6.9, 0-17.2, 0-34.5 bar	
0-172, 0-345, 0-690, 0-1724, 0-3448 kPa	
<b>Design Proof Pressure</b>	
150% maximum rated	
<b>Leakage</b>	
Bubble-tight	
Diaphragm 2x10 <sup>-8</sup> atm cc/sec He	
<b>Ambient Temperatures for Section A and B</b>	
<b>Supply Voltage (VAC) &amp; Heater Watts (W)</b>	<b>Max Ambient Temperature</b>
100 W at 120 VAC, 400 W at 240 VAC	185 °F (85°C) ①
	149 °F (65 °C) ②

① Regulator body max ambient temperature.  
 ② Electrical housing max ambient temperature.

**Heater Temperature Analog Output**  
 4-20 mA signal for monitoring heater coil temperature

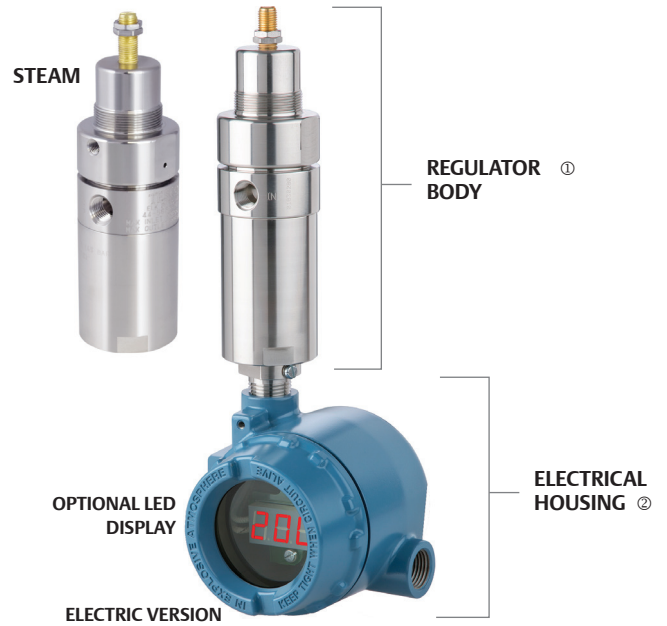
**Flow Capacity**  
 Cv 0.02

**MEDIA CONTACT MATERIALS**

<b>Body</b>
316 Stainless Steel or Nickel Alloy (Hastelloy®)
<b>Diaphragm and Spring</b>
Cobalt Chrome Nickel Alloy (Elgiloy®), Nickel Alloy (Hastelloy®)
<b>Remaining Parts</b>
316 Stainless Steel or Nickel Alloy (Hastelloy®)

**OTHER**

<b>Connections</b>
NPTF, TUBE STUB
<b>Cleaning</b>
CGA 4.1 and ASTM G93
<b>Weight</b>
Electric: 6.3 lbs / 2.9 kg
Steam: 3.1 lbs / 1.4 kg



TESCOM 44-6800 Series Vaporizing Regulator is a key component of analyzer systems that ensures sample quality. With a high tolerance for voltage spikes and high ambient temperatures, this regulator is designed for worldwide applications.

**Applications**

- Analyzer systems for oil and gas, petrochemical, and chemical applications

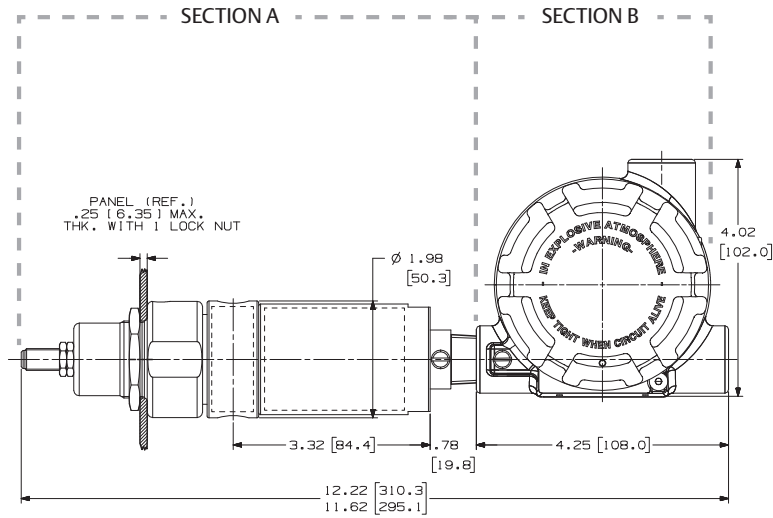
**Features and Benefits**

- Installation Flexibility - Option to separate regulator body from electrical housing
- For worldwide use: Designed for 100-240 VAC, 50/60 Hz
- CSA, ATEX and IECEX Certification to T3 (200°C) Rating
- 4-20 mA analog output for remote temperature monitoring and data acquisition
- Optional LED temperature display
- Optional panel mounting
- Advanced heat transfer technology
- PID heater control
- NACE MR0175/ISO 15156

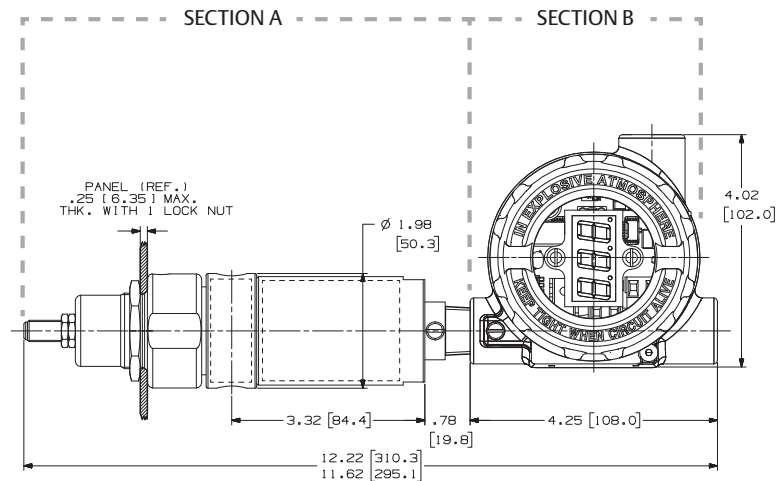
Vespe® is a registered trademark of E.I. du Pont de Nemours and Company.  
 Elgiloy® is a registered trademark of Elgiloy Corp.  
 Hastelloy® is a registered trademark of Haynes International, Inc.  
 Monel® is a registered trademark of Special Metals Corporation.

44-6800 Series Regulator Drawing

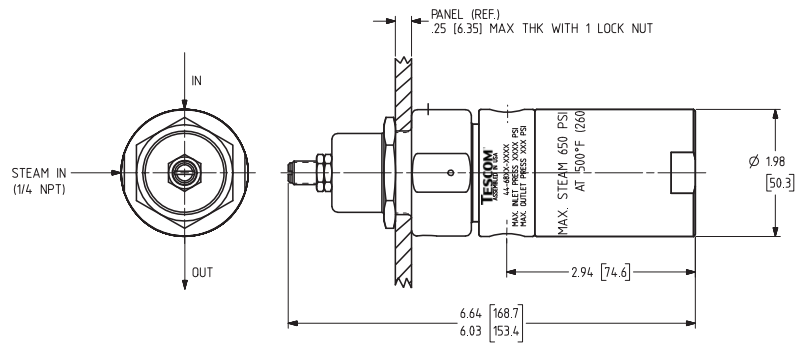
ELECTRIC MODEL



ELECTRIC MODEL with LED Display and glass cover



STEAM MODEL



Note: Steam in at 90° to process connections (same plane).

All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

44-6800 Series Regulator Part Number Selector

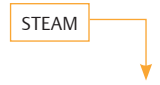
**i Learn more about common options.**  
For modifications, repair kits and accessories, contact factory.

Example for selecting a part number:

**ELECTRIC VERSION**

<b>44-68</b>	<b>6</b>				<b>1</b>	<b>D</b>		<b>2</b>	<b>4</b>
BASIC SERIES	MATERIAL				OUTLET PRESSURE RANGE	HEATER		INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE
	BODY	DIAPHRAGM	SPRING	REMAINING PARTS		120 VAC	240 VAC		
<b>44-68</b>	<b>5</b> – Hastelloy® <b>6</b> – 316 Stainless Steel <b>F</b> – SST Dursan® Coated <b>G</b> – 316 SST SilcoNert® Coated	Hastelloy® Elgiloy® Elgiloy®	Elgiloy® Elgiloy® Elgiloy®	Hastelloy® 316 Stainless Steel 316 Stainless Steel 316 Stainless Steel	<b>0</b> – 0-25 psig 0-1.7 bar 0-172 kPa <b>1</b> – 0-50 psig 0-3.4 bar 0-345 kPa <b>2</b> – 0-100 psig 0-6.9 bar 0-690 kPa <b>3</b> – 0-250 psig 0-17.2 bar 0-1724 kPa <b>4</b> – 0-500 psig 0-34.5 bar 0-3448 kPa	<b>D</b> – 100 WATTS 0.83 amps 400 WATTS 1.67 amps	<b>2</b> – NPTF  T – Tube Stub	<b>4</b> – 1/4"	

<b>1</b>	<b>E</b>	<b>0</b>
INLET PRESSURE	OPTIONS	INLET AND OUTLET PORT SIZE
<b>1</b> – 6000 psig 414 bar 41370 kPa <b>2</b> – 3500 psig 241 bar 24132kPa	<b>E</b> – Solid Cover without Display <b>E1</b> – Glass Cover with LED Display <b>E2</b> – Solid Cover with LED Display <b>E3</b> – Separable Regulator and Enclosure (Solid Cover/No LED) (4 Feet) <b>E4</b> – Separable Regulator and Enclosure (Glass Cover/LED) (4 Feet) <b>E5</b> – Separable Regulator and Enclosure (Solid Cover/LED) (4 Feet)	<b>0</b> – No Gauge Ports LH Inlet <b>1</b> – No Gauge Ports RH Inlet <b>2</b> – No Gauge Ports RH Inlet at 90° <b>3</b> – LH Inlet with 1/4 NPT Gauge Port at 90° <b>4</b> – RH Inlet with 1/4 NPT Gauge Port at 90° <b>5</b> – LH Inlet with 1/4 NPT Gauge Port at 70° <b>5</b> – RH Inlet with 1/4 NPT Gauge Port at 70°



**STEAM MODEL**

<b>44-68</b>	<b>6</b>				<b>1</b>	<b>-2</b>	<b>4</b>	<b>1</b>	<b>S</b>
BASIC SERIES	MATERIAL				OUTLET PRESSURE RANGE	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	INLET PRESSURE	
	BODY	DIAPHRAGM	SPRING	REMAINING PARTS					
<b>44-68</b>	<b>5</b> – Hastelloy® <b>6</b> – 316 Stainless Steel <b>F</b> – SST Dursan® Coated <b>G</b> – 316 SST SilcoNert® Coated	Hastelloy® Elgiloy® Elgiloy®	Elgiloy® Elgiloy® Elgiloy®	Hastelloy® 316 Stainless Steel 316 Stainless Steel 316 Stainless Steel	<b>0</b> – 0-25 psig 0-1.7 bar 0-172 kPa <b>1</b> – 0-50 psig 0-3.4 bar 0-345 kPa <b>2</b> – 0-100 psig 0-6.9 bar 0-690 kPa <b>3</b> – 0-250 psig 0-17.2 bar 0-1724 kPa <b>4</b> – 0-500 psig 0-34.5 bar 0-3448 kPa	<b>2</b> – NPTF T – Tube Stub	<b>4</b> – 1/4"	<b>1</b> – 6000 psig 414 bar 41,370 kPa <b>2</b> – 3500 psig 241 bar, 24,130 kPa	