Regulators - Pressure Reducing

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
Standard 3500 psig /241 bar / 24,132 kPa
Optional 6000 psig/414 bar/41,370kPa

Maximum Outlet Pressure
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

Design Proof Pressure
150% maximum rated

Leakage
Bubble-tight
Diaphragm $2x10^{-8}$ atm cc/sec He

Ambient Temperatures for Section A and B

Supply Voltage (VAC) & Heater Watts (W)	Max Ambient Temperature
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

Body
316 Stainless Steel or Nickel Alloy (Hastelloy®)

Diaphragm and Spring
Cobalt Chrome Nickel Alloy (Elgiloy®), Nickel Alloy (Hastelloy®)

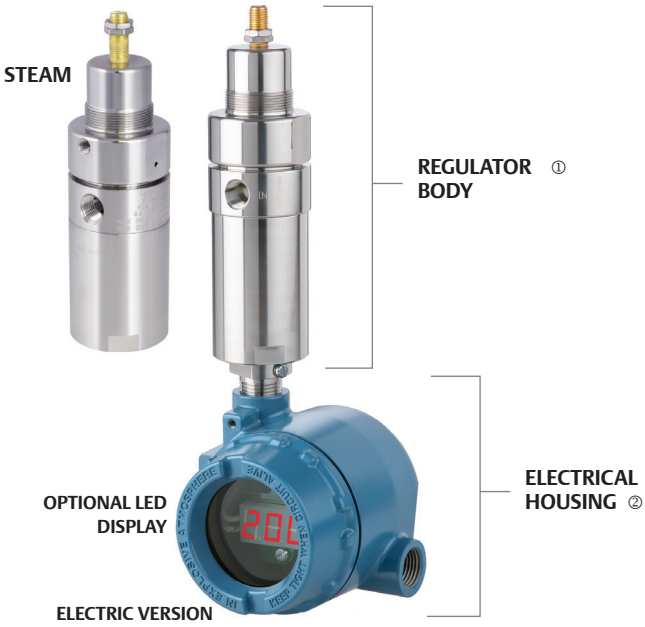
Remaining Parts
316 Stainless Steel or Nickel Alloy (Hastelloy®)

OTHER

Connections
NPTF, TUBE STUB

Cleaning
CGA 4.1 and ASTM G93

Weight
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

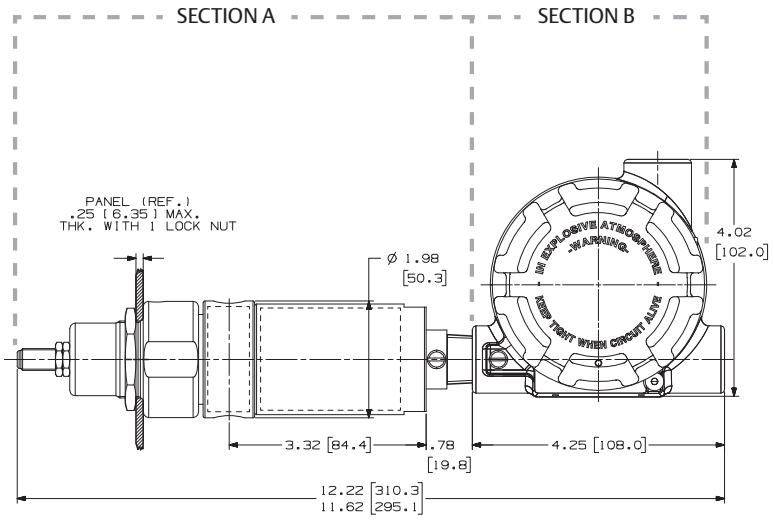
- Analyzer systems for oil and gas, petrochemical, and chemical applications

Features and Benefits

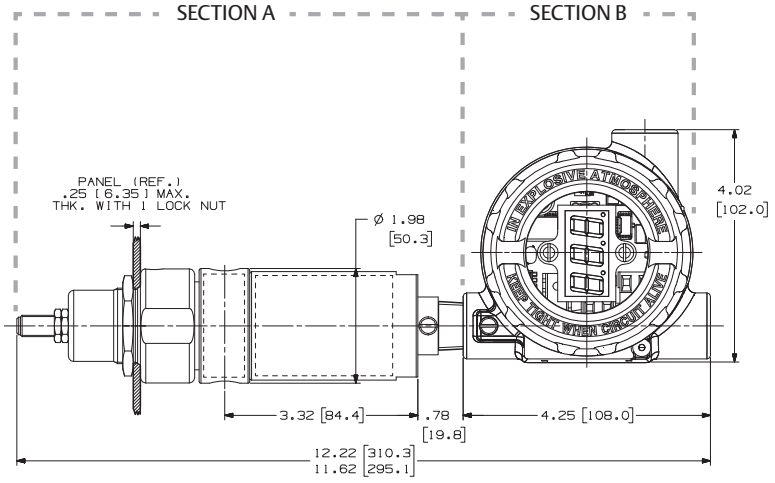
- Installation Flexibility - Option to separate regulator body from electrical housing
- For worldwide use: Designed for 100-240 VAC, 50/60 Hz
- CSA, ATEX and IECEX Certification to T3 (200°C) Rating
- 4-20 mA analog output for remote temperature monitoring and data acquisition
- Optional LED temperature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

44-6800 Series Regulator Drawing

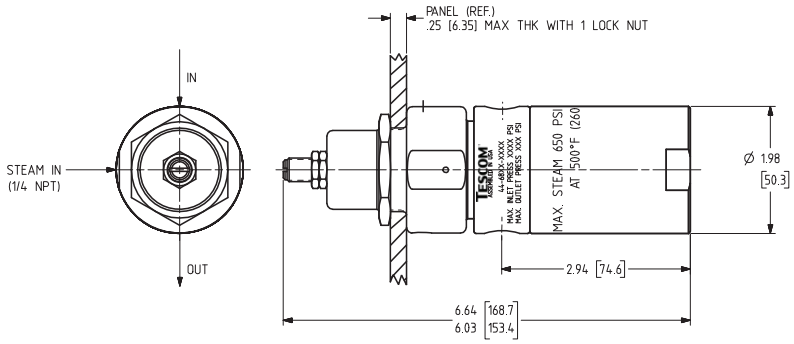
ELECTRIC MODEL



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

EMERSON
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44-6800 Series Regulator Part Number Selector

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

Example for selecting a part number:

ELECTRIC VERSION

44-68	6				1	D		2	4
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**		
44-68	**5** – Hastelloy® **6** – 316 Stainless Steel **F** – SST Dursan® Coated **G** – 316 SST SilcoNert® Coated	Hastelloy® Elgiloy® Elgiloy® Elgiloy®	Elgiloy® Elgiloy® Elgiloy® Elgiloy®	Hastelloy® 316 Stainless Steel 316 Stainless Steel 316 Stainless Steel	**0** – 0-25 psig 0-1.7 bar 0-172 kPa **1** – 0-50 psig 0-3.4 bar 0-345 kPa **2** – 0-100 psig 0-6.9 bar 0-690 kPa **3** – 0-250 psig 0-17.2 bar 0-1724 kPa **4** – 0-500 psig 0-34.5 bar 0-3448 kPa	**D** – 100 WATTS 0.83 amps	400 WATTS 1.67 amps	**2** – NPTF **T**– Tube Stub	**4** – 1/4"

1	E	0
INLET PRESSURE	**OPTIONS**	**INLET AND OUTLET PORT SIZE**
1 – 6000 psig 414 bar 41370 kPa **2** – 3500 psig 241 bar 24132kPa	**E-** – Solid Cover without Display **E1** – Glass Cover with LED Display **E2**– Solid Cover with LED Display **E3** – Separable Regulator and Enclosure (Solid Cover/No LED) (4 Feet) **E4** – Separable Regulator and Enclosure (Glass Cover/LED) (4 Feet) **E5** – Separable Regulator and Enclosure (Solid Cover/LED) (4 Feet)	**0** – No Gauge Ports LH Inlet **1** – No Gauge Ports RH Inlet **2** – No Gauge Ports RH Inlet at 90° **3** – LH Inlet with1/4 NPT Gauge Port at 90° **4** – RH Inlet with1/4 NPT Gauge Port at 90° **5** – LH Inlet with1/4 NPT Gauge Port at 70° **5** – RH Inlet with1/4 NPT Gauge Port at 70°

STEAM

STEAM MODEL

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