

Regulators - Pressure Reducing

Specifications

For other materials or modifications, please consult TESCO.

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 / 41,370 kPa

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 2×10^{-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

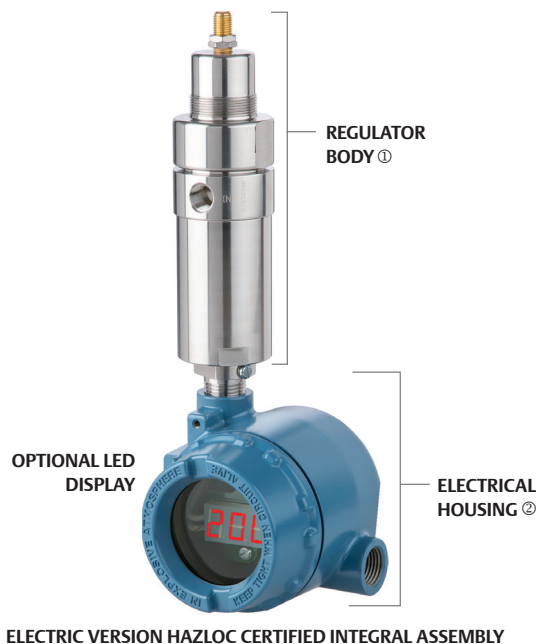
Cleaning

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 sample conditioning systems for gas chromatograph analyzers that ensure the delivery of single-phase vapor samples to the analyzer. 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

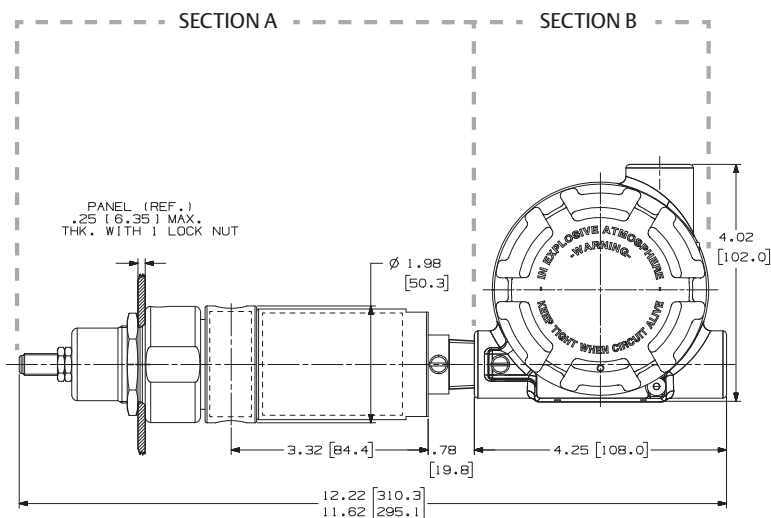
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Hastelloy® is a registered trademark of Haynes International, Inc.
Monel® is a registered trademark of Special Metals Corporation.
Dursan® is a registered trademark of SilcoTek Corporation.



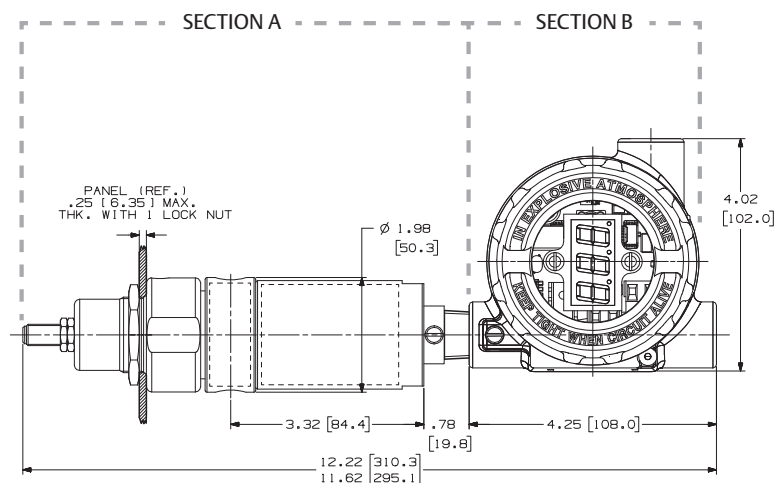
44-6800 SERIES

44-6800 Series Regulator Drawing

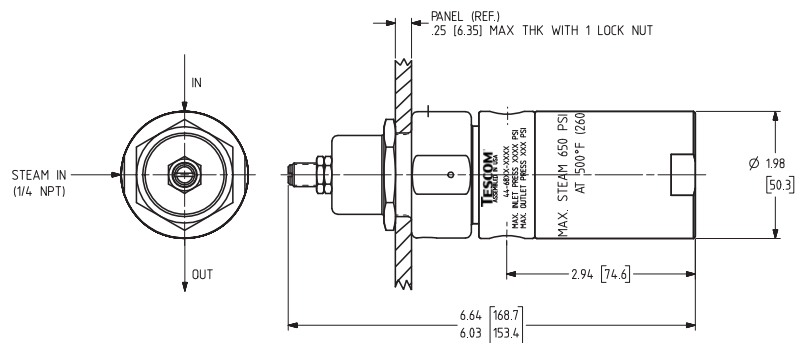
ELECTRIC MODEL



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

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®	Hastelloy®	Elgiloy®	Hastelloy®	0 – 0-25 psig 0-1.7 bar 0-172 kPa	D – 100 WATTS 0.83 amps	400 WATTS 1.67 amps	2 – NPTF T– Tube Stub (3500 psig, 241 bar, 24132 kPa version only)	4 – 1/4"
	6 – 316 Stainless Steel	Elgiloy®	Elgiloy®	316 Stainless Steel	1 – 0-50 psig 0-3.4 bar 0-345 kPa				
	F – SST Dursan® Coated	Elgiloy®	Elgiloy®	316 Stainless Steel	2 – 0-100 psig 0-6.9 bar 0-690 kPa				
	G – 316 SST SilcoNert® Coated	Elgiloy®	Elgiloy®	316 Stainless Steel	3 – 0-250 psig 0-17.2 bar 0-1724 kPa 4 – 0-500 psig 0-34.5 bar 0-3448 kPa				
						For applications that require higher than 0.5 SCFM, operate using 240 VAC.			

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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 with 1/4 NPT Gauge Port at 90° 4 – RH Inlet with 1/4 NPT Gauge Port at 90° 5 – LH Inlet with 1/4 NPT Gauge Port at 70° 6 – RH Inlet with 1/4 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	
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44-68	5 – Hastelloy®	Hastelloy®	Elgiloy®	Hastelloy®	0 – 0-25 psig 0-1.7 bar 0-172 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	
	6 – 316 Stainless Steel	Elgiloy®	Elgiloy®	316 Stainless Steel	1 – 0-50 psig 0-3.4 bar 0-345 kPa				
	F – SST Dursan® Coated	Elgiloy®	Elgiloy®	316 Stainless Steel	2 – 0-100 psig 0-6.9 bar 0-690 kPa				
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