

The Mustang® Heated Regulator (MHR) is designed to heat a gas sample to a customer specified temperature and pressure set point. Liquid condensation from a single-stage pressure reduction is prevented through a two-stage heating process.

The regulator body houses an electronically controlled thermistor and cartridge heater, precisely maintaining and measuring the gas sample. Through an innovative design comprised of a long, spiral flow path, the MHR eliminates the need of heating coils for efficient heat transfer and low maintenance.

The MHR assembly provides safe and reliable temperature control and pressure reduction essential to ensuring the performance of gas analyzers.

FEATURES

- ▶ Analytically Accurate™ design
- ▶ CRN Approved
- ▶ Provides continuous gas sample conditioning in any process industry
- ▶ Protects analyzers & helps preserve sample integrity
- ▶ Efficient heat transfer through pre-heat and post-heat chambers
- ▶ Proportional temperature control
- ▶ Thermal cutoff
- ▶ Contact us to determine heated and supercritical application needs with our Equations of State software



PRODUCT DIMENSIONS

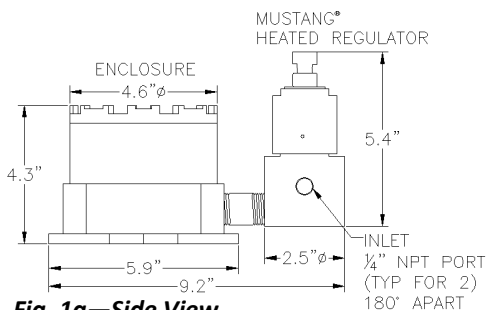


Fig. 1a—Side View

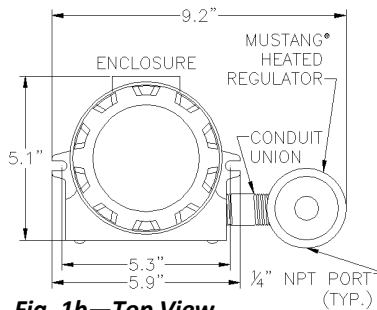


Fig. 1b—Top View

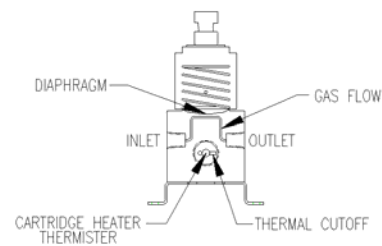


Fig. 1c—Regulator Cross Section

PRODUCT SPECIFICATIONS

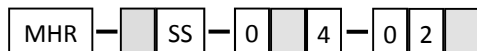
Maximum allowable working pressure	3750 psig (259 bar)
Proportional temperature control range	95-165°F (35-73°C) (other ranges available upon request)
Outlet pressure range	0-10, 0-25, 0-50, 0-100, 0-250, or 0-500 psig (0-0.69, 0-1.72, 0-3.45, 0-6.89, 0-17.24, or 0-34.47 bar)
Thermal cut-off	Normally opens at 230°F (110°C) [other ranges available—max. 400°F (204°C)]
Internal volume	5 cc
Port sizes	1/4" female NPT
Conduit connection	3/4" female NPT
Electrical enclosure classification	Class 1, Div 1 & 2, Groups B, C, D
Power rating options	Option 1: 115 VAC, 200 Watts, 60 Hz Option 2: 220 VAC, 200 Watts, 50 Hz Option 3: 24 VDC, 140 Watts
Wetted materials	Machined parts: 316 stainless steel/NACE compliant All other metal parts: stainless steel/NACE compliant Seat material: Teflon® (other materials available upon request)

MODEL NUMBERS

Your model number is determined by your specific needs; choose options below:

Sealing Material	0=Teflon® (other materials available upon request)
Outlet pressure range (psig)	0 = 0-25 1 = 0-50 2 = 0-100 3 = 0-250 9 = 0-10 P = 0-500
Supply voltage	1=115 VAC 2 = 220 VAC 3 = 24 VDC
Replacement part identification	H = Heating cartridge C = Heat controller A = Cartridge, controller, & Thermistor
Thermistor replacement	Part#=MHR-ST works with any supply voltage
Humidisorb Plus X-Corrode™ replacement	Part#=107-HXC2X2

How to build the model number:

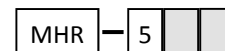


Sealing material

Outlet pressure range

Supply voltage

How to build the replacement part number:



Replacement part identification

Supply voltage



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