

Mustang® Heated Regulator

Model MHR



Product Introduction

The MHR™ is designed to bring a gas sample to a customer specified temperature and pressure set point. It provides two-stages of heating with single-stage pressure control. Gas is pre-heated to prevent condensation from occurring during the subsequent pressure reduction. After the pressure is reduced, proportionally controlled post-heating brings the sample to the temperature set point. The heating chambers have an innovative design, which provides a long, spiral flow path without the use of a heating coil. Extremely efficient heat transfer occurs without the maintenance required of coils. Maintenance is further reduced since both chambers are heated with a single cartridge that is isolated from the flow path.

The MHR™ contains two standout safety features that prevent overheating. First, the temperature controller has a built-in open sensor (thermistor) protection that prevents temperature increases should the thermistor fail. Also, a thermal cutoff stops electrical current to the heat controller if the temperature limit is exceeded. Conduit connections are provided in two locations that are 180° apart to offer installation ease and versatility. Since the thermistor and heating cartridge are accessible from both locations, they can be quickly and easily removed for servicing.

Applications

- Continuous gas sample conditioning in any process industry including natural gas, petrochemical, and oil refining
- Analyzer protection against liquid
 - On-line analyzers
 - GC's, Mass Specs, O₂, H₂S, Moisture, and others
- Two-stage heating
- Single stage pressure regulation
- Multi-stage pressure regulation when used with a GPR™, GPRi™, or similar model

Benefits

- Protects analyzers
- Helps preserve sample integrity
- Efficient heat transfer
- Precise temperature control
- Quick and easy installation
- Very low maintenance
- Easy to service
- Fail-safe
- Economical

Features

- Long heat exchange path
- Proportional temperature control
- Dual heat exchangers
- Single heating cartridge for both exchangers
- Open sensor protection
- Thermal cutoff
- Versatile conduit connections

Product Specifications

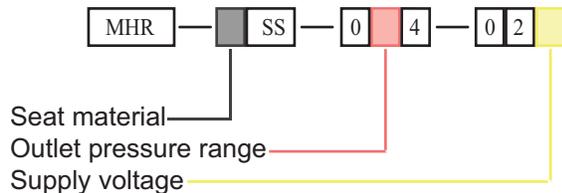
Maximum allowable working pressure	3,500 psig
Proportional temperature control range	95 - 165 °F (35 - 73 °C)
Outlet pressure range	0-25, 0-50, 0-100, 0-250, or 0-500 psig <small>*Specify outlet range when ordering</small>
Thermal cut-off	Opens at 230 °F
Internal volume	5 cc
Port sizes	1/4" female NPT
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)

Part Numbers

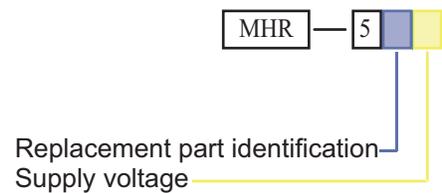
Your model number is determined by your specific needs. Choose options below.

Seat material	0 = Teflon® (other materials available upon request)
Outlet pressure range	0 = 0-25 psig 1 = 0-50 psig 2 = 0-100 psig 3 = 0-250 psig P = 0-500 psig
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-5T works with any supply voltage
Humidisorb Plus X-Corrode™ replacement	Part# = 107-HXC2X2

Building the model number:

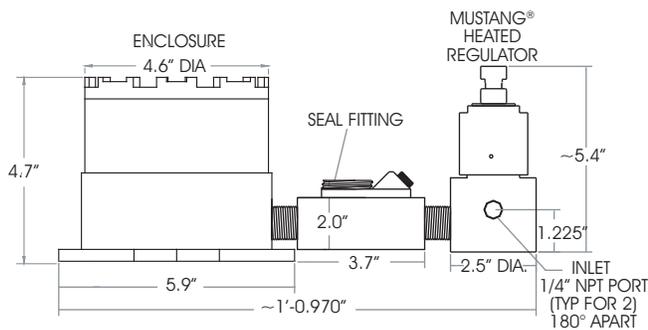


Building the replacement part number:

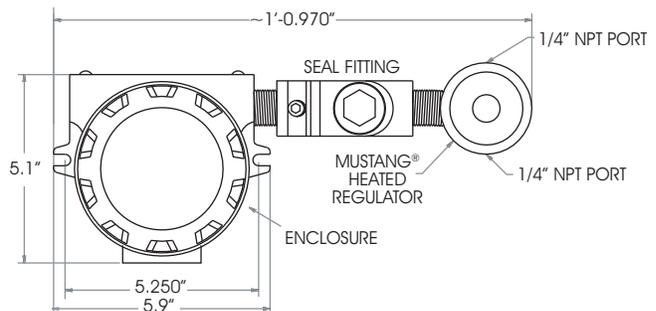


Product Dimensions

Side View



Top View



Contact Information

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