



Extreme Temperature Accessories for use with External Level Switches and Visual Indicators

DESCRIPTION

For decades you've trusted Magnetrol to supply your level instrumentation. Now, simplify the procurement of level controls, insulation and heat tracing by letting Magnetrol satisfy all of these requirements. Custom fabricated insulation blankets and heat tracing options can be manufactured and installed on any of our instrumentation. These options may be utilized to maintain process temperatures in external chambers and/or to provide protection to plant personnel against injury due to contact with extremely hot or cold equipment. Steam tracing or electrical heat tracing may be used with or without insulation to ensure that the media within the external chamber is kept at a constant elevated temperature.

FEATURES

- Cryogenic insulation for applications from +32° to -320° F (0° to -196° C)
- High temperature insulation for applications up to +1000° F (+538° C)
- Cryogenic insulation is polyurethane with vapor barrier
- Cryogenic insulation available with smooth aluminum outdoor liner
- High temperature insulation is weather resistant silicone cloth
- All insulation is custom made for each instrument
- Insulation is removable and reusable
- Steam tracing is all 304 stainless steel tubing
- Electric heat tracing available with fixed-point or adjustable thermostat



Cryogenic insulation with
aluminum liner on Gemini MLI

APPLICATIONS

- Liquid natural gas
- Feedwater heaters
- High temperature condensate drip legs
- Chillers
- Deaerators
- Condenser hotwells
- Liquid petroleum gas
- Refrigeration liquids
- Condensers
- Personnel protection

SPECIFICATIONS

CRYOGENIC INSULATION

Process temperature range	+32° to -320° F (0° to -196° C)
Jacket material	Polyurethane modified polyisocyanurate with all service jacket vapor barrier
Liner material	Outdoor 0.016" smooth aluminum jacket with vapor barrier
Insulation thickness	2" or 4"
Insulation seal	Non-breathing moisture resistant mastic
Jacket seal	Weather resistant caulk
Compatible instruments	External cage liquid level switches, Eclipse® guided wave radar transmitters in external chambers, Modulelevel® transmitters, Atlas®, Aurora® and Gemini® MLIs

HIGH TEMPERATURE INSULATION

Process temperature range	+1000° F (+538° C)
Jacket material	Weather resistant silicone cloth
Liner material	Weather resistant silicone cloth to +500° F (+260° C) Weather resistant aluminized silicone cloth above +500° F (+260° C)
Insulation thickness	½", 1", or 2"
Fasteners	Velcro® straps (quilting pins optional)
Compatible instruments	External cage liquid level switches (model B40), Eclipse guided wave radar transmitters in external chambers, Modulelevel transmitters, Atlas, Aurora, and Gemini MLIs

STEAM HEAT TRACING/FROST PROTECTION

Temperature range	To +212° F (+100° C)
Steam connections	Two ¾" × 0.035 wall tubing ends standard
Tubing material	304 stainless steel
Compatible instruments	External cage liquid level switches, Eclipse guided wave radar transmitters in external chambers, Modulelevel transmitters, Atlas, Aurora, and Gemini MLIs

ELECTRIC HEAT TRACING

Thermostat	Fixed-point or adjustable bulb-type
Fixed-point available temperatures	+50° F, +60° F, +75° F, +105° F, or +200° F
Adjustable temperature ranges	To +400° or +800° F (+204° or +427° C)
Voltages	120, 208, 240, 277, or 480 VAC
Power	3, 5, 8, or 12 watts
Cable material	Stainless steel braid with or without TFE jacket, mineral insulated
Options	Other options and types of heat tracing available upon request
Compatible instruments	External cage liquid level switches, Eclipse guided wave radar transmitters in external chambers, Modulelevel transmitters, Atlas, Aurora, and Gemini MLIs

NOTE: Consult factory for quotations on custom insulation and heat tracing. Please provide the complete model number of the control for which these options are required, or provide detailed dimensional information.



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