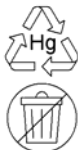


# MODEL 1500-1

## SERVICE INSTRUCTIONS

Mercotac® connectors contain a small amount of liquid mercury and should be disposed of properly through recycling. Mercotac Inc. offers a recycling service for this purpose. When shipping spent units to Mercotac Inc., insert products into a plastic bag and package items being returned for UPS Ground shipment. Please state on paperwork "For Recycling", and identify shipments with company name and Phone / FAX numbers. (Do not send through USPS.)



1. Mercotac® connectors can be used both horizontally and vertically. However the "UP" arrow on the body of the connector should not point below horizontal. The connectors are reversible so they need not be installed upside down. It is preferable to store units upright (arrow up). <Fig 1>

2. The connector can be held or mounted by the body or lower threaded stud in vertical applications above the rotating element, or by the upper threaded stud when mounted below. In horizontal applications mount the connector with the body rotating to reduce mechanical loads on the bearing and internal components. One end should be allowed to float, attached only by the connecting wire. **Never rigid mount both ends of the connector. This will cause connector failure.** Limit mounting eccentricity to .005" (.13mm). <Fig. 2>

3. **Do not solder to the connector studs as such misuse may cause connector failure and voids the warranty.**

4. Use stranded wires of ample length and flexibility, such as welding cable, to avoid mechanical loads. Avoid taut wires that pull on the connector. The wires should have enough free play to allow the connector end to rotate approximately ¼ turn. Wires, which allow too much free play, could wrap around the connector.

5. Provide current protection (fuse) on wires attached to connector. Over-current conditions can cause failure of connector. **CAUTION:** Although primary current flow is between the contact studs, the stainless steel body may become electrically "hot".

6. The connector contains plastic materials, which are sensitive to heat. Over-heating will cause reduced life or connector failure. Provide thermal insulation where necessary to prevent temperature of the unit from exceeding 140°F (60°C).

7. **In food packaging applications:** Mercotac® connectors contain liquid mercury and other fluids. **Isolate connector from the food processing area by using a protective housing.** Short circuit failure at or in connection with a Mercotac® connector rarely but occasionally may result in leakage. The use of a protective housing may be advisable in these applications (Machine specific- not supplied by Mercotac, Inc.).

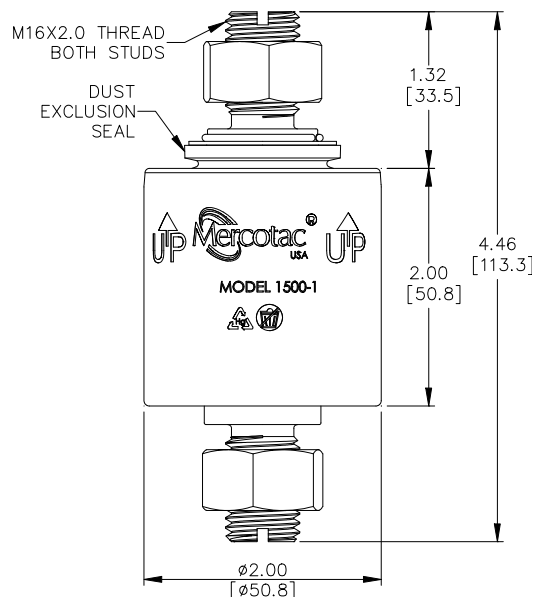


Fig 1 Dimensions: Inches [mm]

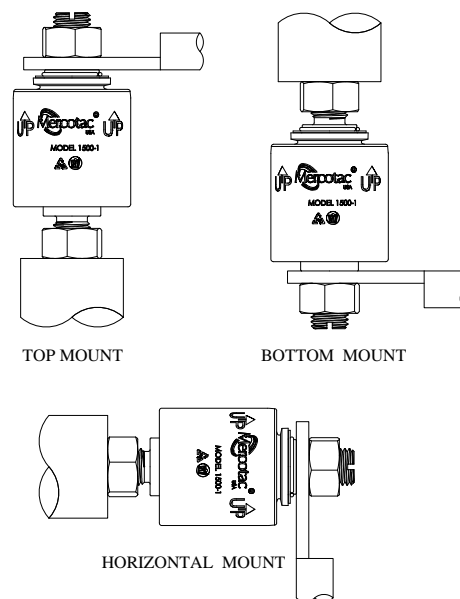


Fig 2 Mounting Examples

### TECHNICAL SPECIFICATIONS:

NUMBER OF CONDUCTORS:	1
CURRENT RATING (MAX):	500 AMPS
MAXIMUM BODY TEMPERATURE:	60°C (140°F)
MINIMUM OPERATING TEMP.:	-29°C (-20°F)
MAXIMUM ROTATING SPEED:	300 RPM
TYPICAL ROTATING TORQUE:	750 gm•cm
WEIGHT (WITH HEX NUTS):	.815Kg (1.80lb)

**WARRANTY:** Units are guaranteed for one year from date of purchase against defective materials and workmanship. Replacement will be made except for defects caused by abnormal use or mishandling. All statements and technical information contained herein, or presented by the manufacturer or his representative are rendered in good faith. User must assume responsibility to determine suitability of the product for intended use. The manufacturer shall not be liable for any injury, loss or damage, direct or consequential arising out of the use, or attempt to use the product.

# MODEL 1500

## SERVICE INSTRUCTIONS

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4. Use stranded wires of ample length and flexibility, such as welding cable, to avoid mechanical loads. Avoid taut wires that pull on the connector. The wires should have enough free play to allow the connector end to rotate approximately ¼ turn. Wires, which allow too much free play, could wrap around the connector.

5. Provide current protection (fuse) on wires attached to connector. Over-current conditions can cause failure of connector. **CAUTION:** Although primary current flow is between the contact studs, the stainless steel body may become electrically "hot".

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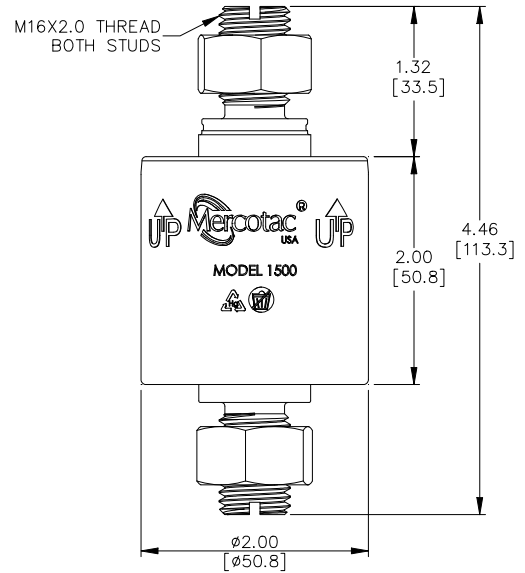


Fig 1 Dimensions: Inches [mm]

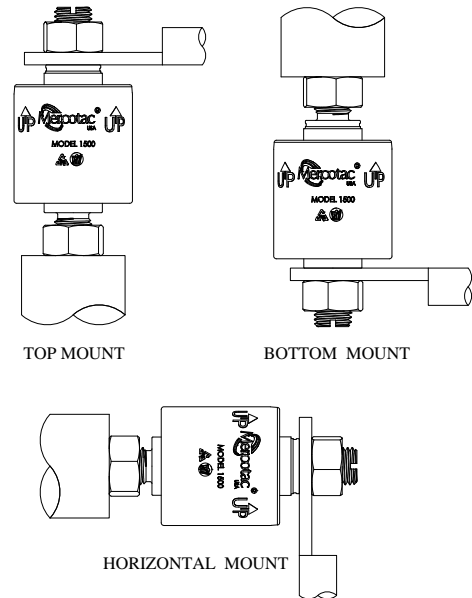


Fig 2 Mounting Examples

### TECHNICAL SPECIFICATIONS:

NUMBER OF CONDUCTORS:	1
CURRENT RATING (MAX):	500 AMPS
MAXIMUM BODY TEMPERATURE:	60°C (140°F)
MINIMUM OPERATING TEMP.:	-29°C (-20°F)
MAXIMUM ROTATING SPEED:	300 RPM
TYPICAL ROTATING TORQUE:	750 gm•cm
WEIGHT (WITH HEX NUTS):	.815Kg (1.80lb)

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