

# MALONEY TECHNICAL PRODUCTS

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## SERIES III DETECTOR INSTALLATION INSTRUCTIONS

**IMPORTANT:** Disassemble the mounting base from the detector assembly before welding the base to the pipe. To remove the detector from the base remove the four (4) hex head bolts (Item 13) from the detector cap (Item 1) and remove the detector assembly.

### **INSTALLATION PROCEDURE:**

- 1) Cut a 1-1/8" diameter hole in the pipe where the Maloney Series III Detector is to be installed.

**CAUTION:** Do NOT cut a hole in the pipe larger than the I.D. of the base.

- 2) Clean and remove all burrs or welding slag from the inside and outside of the pipe before welding the base (Item 16) to the pipe.
- 3) Center the base over the hole in the pipe and tack weld the base in place.
- 4) Weld the base to the pipe. The use of GTAW, GMAW, or SMAW welding process are acceptable. The base is made of 1018/1020 carbon steel.

**CAUTION:** 1) Do not let the weld spatter get on top or inside the detector base. If these surfaces become damaged, they must be repaired or cleaned before re-assembly of the detector.

2) Do not re-assemble the detector assembly until the base is cool to the touch. Assembly while still hot may cause damage to the shaft and mounting seals.

- 5) Apply grease to the "O"-ring (Item 9) before installing the detector assembly.
- 6) Re-assemble the detector assembly to the base. Make sure that the detector shaft is centered in the hole and does not drag or bind on the sides of the hole in the pipe.
- 7) Install the four (4) hex bolts and tighten.
- 8) Check that the detector has drawn down square to the base and that the visual indicator, if mounted, is free to move through its complete arc of travel.