

Installation of Pressure/Level Sensors

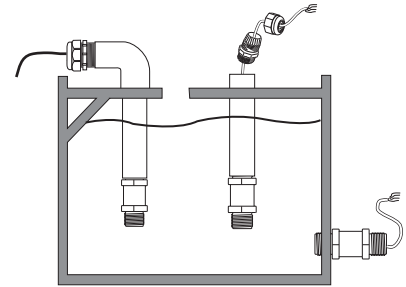
Installation Tips

- 8050-1 and 8050-2 junction boxes can be useful for this installation option.

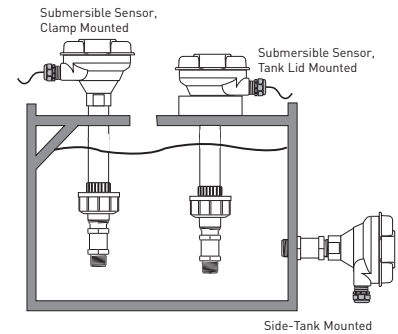
I. Submersible Installation

- Use the 2450 and 2250 sensors with 4.6 m (15 ft) cable and 10 m (32.8 ft).
- Mount the sensor to an extension pipe or watertight conduit using thread sealant.
- Use a cable gland at the top of the extension to prevent moisture accumulation inside the pipe.
- For 2450 sensors: DO NOT hermetically seal (i.e. applying silicone sealant or epoxy) the back of sensor. This may introduce measurement errors resulting from changes in atmospheric pressure and/or temperature. Instead, use a 2250 which has an extended atmospheric breather tube (same length of sensor cable). Do not to pinch breather tube.

Signet 2450 Pressure Sensor



Signet 2250 Hydrostatic Level Sensor



The Signet 2450 Pressure Sensor with union connection or 3/4 in. NPT can be mounted side-tank. (Side mount not recommended)

II. In-Line Installation

- The 2450 can be mounted in a pipe-tee using the threads closest to the sensing end.
- The sensor can be mounted with or without an integral mount kit. This kit mounts a junction box or an instrument.
- See below for more information on instrument integral mount and junction box/remote mount examples.

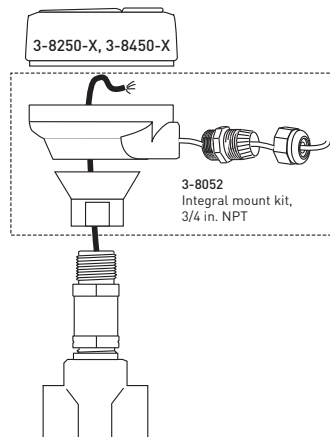
Installation Tips

- Sensors can be mounted into any DN20 (3/4 in) FNPT pipe tee (customer supplied)

Integral Assembly

The 3-8052 Integral Kit connects the 8450 Pressure Transmitter and 8250 Level Transmitter directly onto the 2450 sensors.

- Use the 2450 sensor with 0.15 m (6 in.) cable and digital (S³L) output.
- Apply sealant or PTFE tape to the process connection threads, after inspecting threads to ensure integrity. Do not install a sensor with damaged threads.
- Tighten the sensor 1 1/2 turns past finger tight into the process connection.

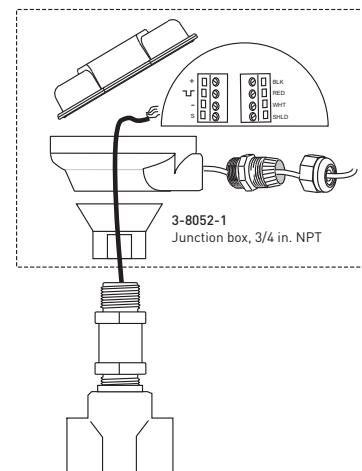


Remote Assembly

The optional 3-8052-1 Integral kit with Junction box and 3/4 in. NPT sensor connection provides a convenient terminal point to extend the 2450 and 2250 cable over a distance.

The kit includes:

- 3/4 in. NPT sensor connection
- Conduit base and cap with junction terminals
- 3-9000.392-1 liquid tight connector, 1/2 in. NPT



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The in-line 2450 pressure sensor with union connection can be mounted using GF parts. See below for list of GF Part Numbers.



Union Matrix for Pressure Sensor 3-2450 1/2 in. Union Connection

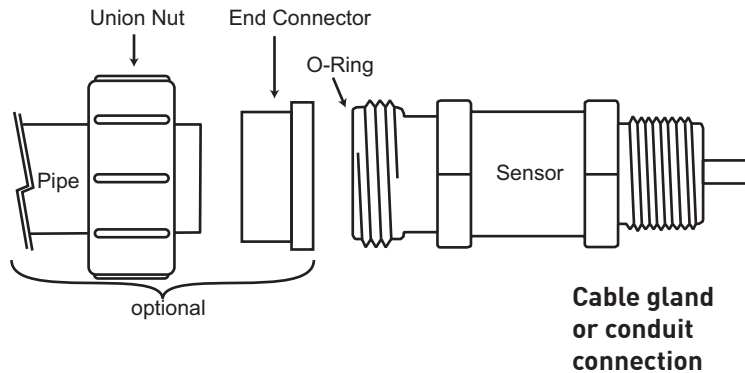
Nuts

Material	Part Number
PVC	721 690 006
PVDF	735 690 406
PP	727 690 406



End Connector

Material	Part Number	Description
PVC	721 600 106	Union end Metric socket
PVC	721 602 006	Union end IPS socket
PVC	721 602 656	Union end NPT thread
PP-B	727 608 506	Union end butt
PP-B	727 600 106	Union end socket
PP-B	198 203 603	Union end threaded NPT
PP-N	728 608 506	Union end butt
PVDF	735 608 606	Union end butt
PVDF	735 600 106	Union end socket
PVDF	198 203 611	Union end threaded NPT



Installation & Wiring