

Inserting a ReactIR™ FiberConduit™ Probe in a Dip Tube

This Quick Reference provides step-by-step instructions on how to integrate your ReactIR FiberConduit probe into a dip tube. Your organization is responsible for fabrication of the dip tube that will integrate to the METTLER TOLEDO dip tube adaptor kits: 14436671 1/4" (6.35mm) or 14436663 3/8" (9.5mm).

NOTE: The dip tube and and probe shown in this document are representative examples.



I. Prerequisites

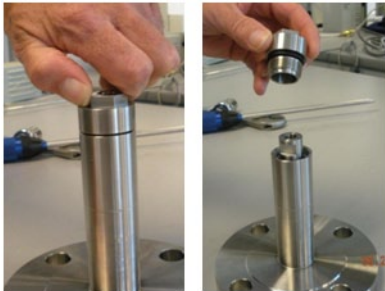
Your machine shop has completed the following steps:

- Fabricated dip tube per instructions in Drawing Number 055-97-000.
- Welded dip tube coupling provided in the Adaptor kit component to the fabricated dip tube.
- Inserted adaptor assembly into your dip tube and secured it with the cap. The dip tube with adaptor is now ready to receive a ReactIR FiberConduit probe.

II. Disassembling the Dip Tube

The adaptor assembly includes a cap at the tube end that reveals component part of the adaptor. Before inserting a ReactIR FiberConduit probe, you must remove the adaptor assembly.

1. Unscrew and remove the cap at the top of the dip tube.



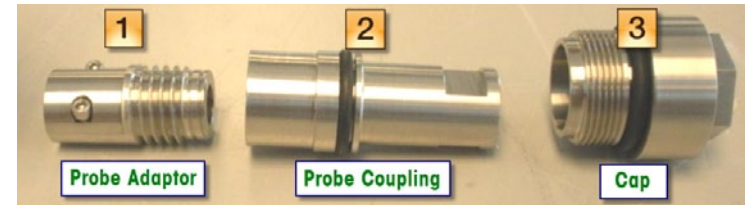
2. Lift out the adaptor assembly.



3. Unscrew the two sections of the adaptor assembly. Notice that the piece on the right (coupling) has an o-ring and the piece on the left (probe adaptor) has two hex screws.



4. Pay close attention to the numbered order and orientation of the three adaptor components. Numbers in the following image will be referenced later in this document in the steps to insert the probe and reassemble the dip tube:



III. Inserting a ReactIR AgX FiberConduit Probe

1. Slide the probe tip through the dip tube as shown below.



2. Loosen the hex screws of the probe adaptor (component #1) and slide it over the probe tip in the orientation shown. Allow approximately 4 1/2 inches from the tip of the probe to the back of component #1.



3. Tighten the two hex screws using a 3/32 Allen key.



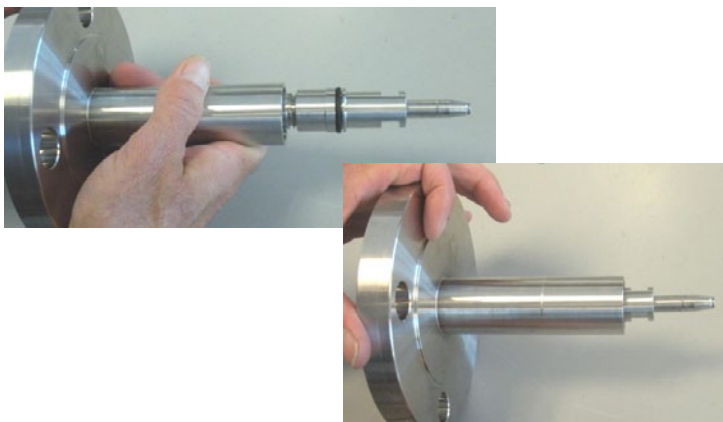
4. Make sure the o-ring is inside the probe adaptor (component #2) before the next step (inserting a probe).



5. Slide component #2 over the probe tip and screw it into component #1.



6. Pull the probe tip back into the dip tube body.

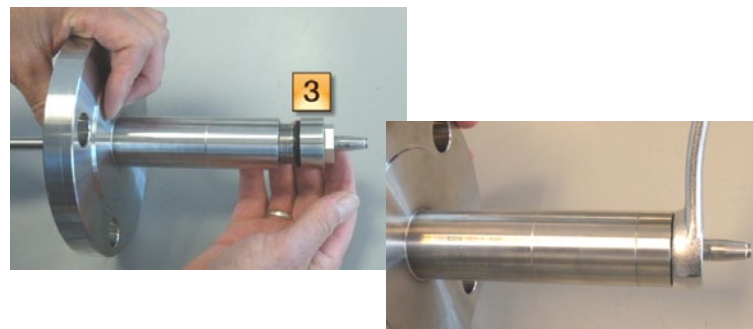


IV. Reassembling the Dip Tube with Probe

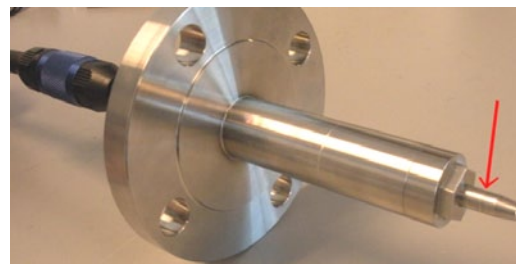
1. Make sure the o-ring is inside component #3 before the next step.



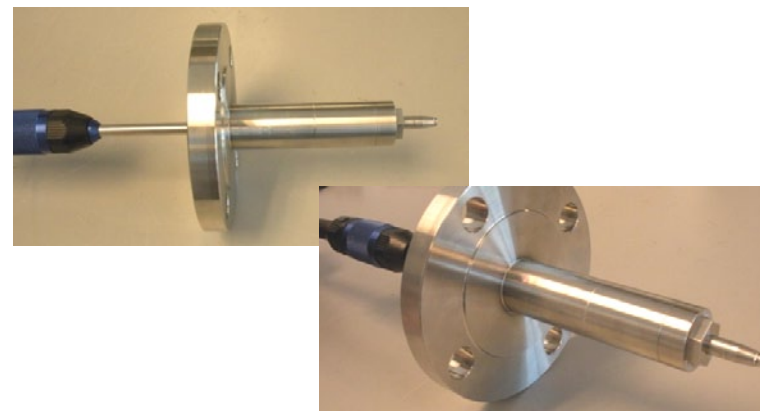
2. Slowly screw component #3 (adaptor cap) onto your dip tube. Be careful not to cross-thread the threads. Once the cap is hand tightened, use a wrench to secure it.



3. Make sure that when the dip tube and probe are fully assembled, the dip tube adaptor is below the weld. This will ensure a tight seal.



The dip tube adaptor with ReactiR FiberConduit probe is now ready to install in your reactor.



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