

# Thermo Scientific Orion Tubing Assembly Kits for the 2030 Silica Monitor

The following instructions are for the silica reagent tubing kit, Cat. No. 2030RE.

## 2030RE Kit Contents

- Reagent 1 tubing assembly with reagent 1 label and cap
- Reagent 2 tubing assembly with reagent 2 label, cap and check valve
- Reagent 3 tubing assembly with reagent 3 label, cap and check valve

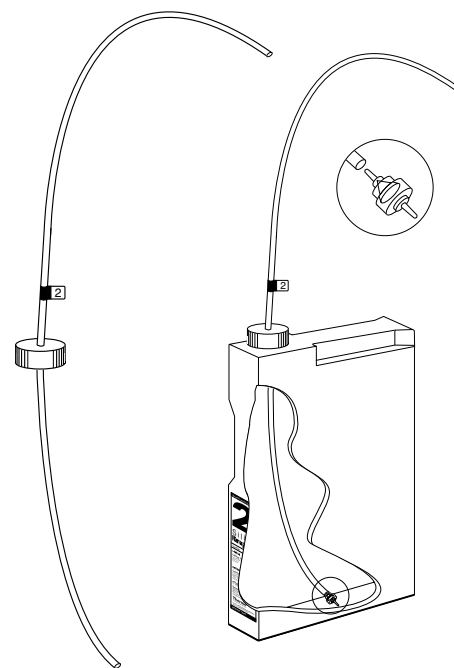
## 2030RE Kit Assembly

**Note:** For the best results, wear gloves when handling the tubing.

1. Remove the three tubing assemblies from the plastic bag.
2. Take the tubing assembly labeled as 1 and insert it into the reagent bottle labeled as 1. Push the tubing into the bottle until the end of the tubing is 1 cm or closer from the bottom of the bottle. The tubing assembly for reagent 1 does not have a check valve.
3. Tighten the cap onto the bottle. Connect the other end of the tubing to the bottom of the monitor, to the fitting labeled “Reagent 1”. Make sure that the tubing is securely pushed into the fitting and that the nut is tightly screwed on.
4. Repeat steps 1 through 3 for reagent 2 and reagent 3. Make sure that the check valve is inserted into the tubing in the proper direction for reagent 2 and reagent 3 tubing assemblies. Refer to the figure to the right.

## Helpful Hints

- Wear gloves while handling the tubing and inserting it into the reagent bottles to avoid dirt and grease from contaminating the solutions.
- The end of the tubing should be close to the bottom of the bottle to maximize reagent consumption.
- Make sure that the correct tubing is inserted into the correct corresponding reagent bottle.
- To avoid air leakage, ensure that each bottle of reagent is tightly connected to the corresponding fitting on the bottom of the monitor.
- Prime the solution through the pumps and tubing prior to use. Check and modify flow rate values through the diagnostics menu. Refer to the monitor user guide.
- Make sure that there are no bubbles in the tubing once the system is in operation.



The following instructions are for the 200 ppb silica calibration standard tubing kit, Cat. No. 203020.

## 203020 Kit Contents

- 200 ppb tubing assembly with 200 ppb label and cap

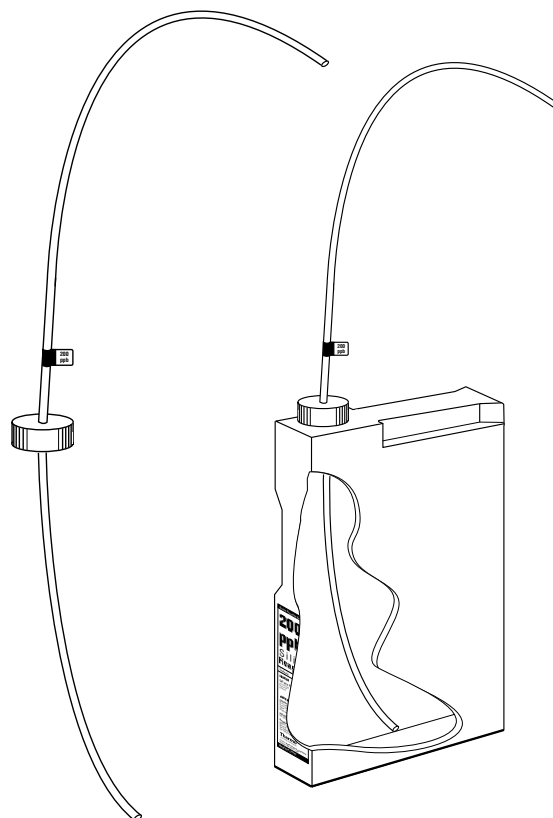
## 203020 Kit Assembly

**Note:** For the best results, wear gloves when handling the tubing.

1. Remove the tubing assembly from the plastic bag.
2. Take the tubing assembly and insert it into the standard bottle labeled 200 ppb silica standard. Push the tubing into the bottle so that the end of the tubing is 1 cm or closer from the bottom of the bottle.
3. Tighten the cap onto the bottle. Connect the other end of the tubing to the bottom of the monitor, to the fitting labeled “Calibration”. Make sure that the tubing is securely pushed into the fitting and that the nut is tightly screwed on.

## Helpful Hints

- Wear gloves while handling the tubing and inserting it into the calibration bottle to avoid dirt and grease from contaminating the solution.
- The end of the tubing should be close to the bottom of the bottle to maximize reagent consumption.
- Make sure that the correct tubing is inserted into the correct corresponding bottle.
- To avoid air leakage, make sure that the bottle is tightly connected to the calibration fitting on the bottom of the monitor.
- Prime the solution through the pump and tubing prior to use. Check and modify flow rate values through the diagnostics menu. Refer to the silica monitor user guide.
- Make sure that there are no bubbles in the tubing once the system is in operation.



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