

Introduction

The Flow Cap P/N 2100-600 is designed for use with stainless steel and titanium Cyclops Sensors and C-FLUOR Probes that utilize a submersible pump for flow through sampling. The Flow Cap should not be subjected to a pressurized water source that will exceed 50 PSI of differential pressure.

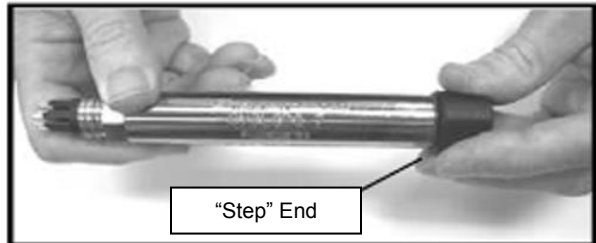
When using the Flow Cap with the Cyclops sensor, best results will be obtained using the X1 or X10 gain ranges.

The Flow Cap consists of the following components:

- 1 ea Flow Cap
- 3 ea Compression Gaskets
(1 installed, 2 spares)
- 3 ea O-Rings (1 installed, 2 spares)

Assembly Procedure:

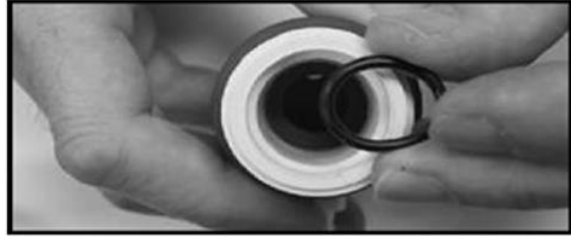
1. Lightly smear soapy water on the inside of the compression gasket.
2. Slide the compression gasket over the optical end of the sensor with the "step" on the gasket towards the connection pins end of instrument.
3. Position the compression gasket approximately 2 inches from the optical end of the sensor



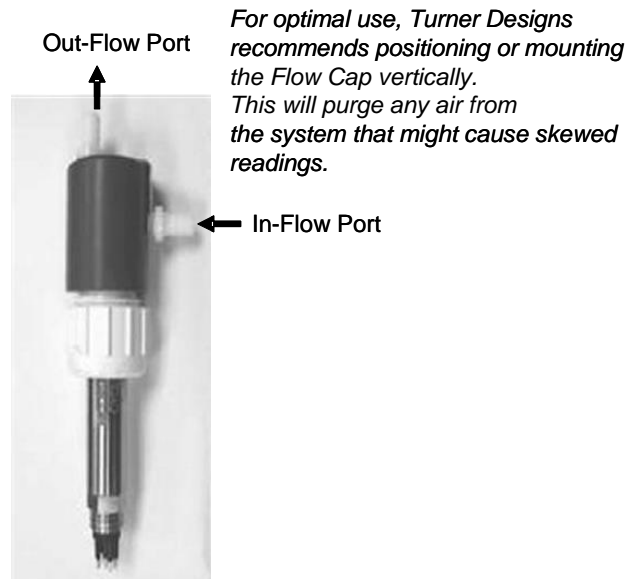
4. It is important to check that the O-Ring installed in the Flow Cap Body Assembly is squarely seated on the bottom of the cap. It acts as a washer between the sensor and the cap. It is possible to damage the optical face if this O-Ring is not in place.

5. Insert the optical end of instrument in the Flow Cap Body Assembly. With the instrument fully inserted into the cap, slide the compression gasket towards the optical end until it bottoms out inside the cap.

6. Place threaded end cap over the instrument, and screw down tightly by hand. **Do not use tools to tighten.**



The instrument and flow cap are now ready for use.



The inlet and outlet ports of the cap accept 3/8" ID tubing. The inlet tubing should be connected to the side-port on the cap and the outlet tubing connected to the top-port.

Note: *With the flow cap installed, the blank offset for the sensor will be elevated. If you are interested in measuring the offset increase, DI water can be used to measure the blank before and after cap installation.*

Application Note:

For Rhodamine WT applications, use high-density tubing to prevent absorption of the dye into the tubing. Cyclops and C-FLUOR should not come in contact with any organic solvents (i.e. acetone, methanol), or strong acids and bases.