

# Solinst® Point Source Bailer Instructions

Model 429  
1.5", 1", & 0.5" diameter

## Sampling

1. Attach enough support cable to the top of the bailer to allow lowering to the maximum depth required. (Use stainless steel cable or Teflon® coated stainless steel cable). Make sure that the cable connection is secure.
2. Slowly lower bailer on the support cable to the desired sampling depth.
3. Raise the bailer to the surface using an steady rate of retrieval.

**Note: When storing the point source bailer for a long period of time, lubricate all o-rings. However do not lubricate the Bottom Check Valve O-rings prior to use.**

## Sample Retrieval

1. Hold the Point Source Bailer vertical and insert the Sample Retrieval Device into the bottom of the bailer, to displace the Lower Check Ball.
2. Direct the outlet of the Sample Retrieval Device into the sample container.
3. Push the trigger on the Top Check Ball in any direction to allow the sample to drain from the bailer.

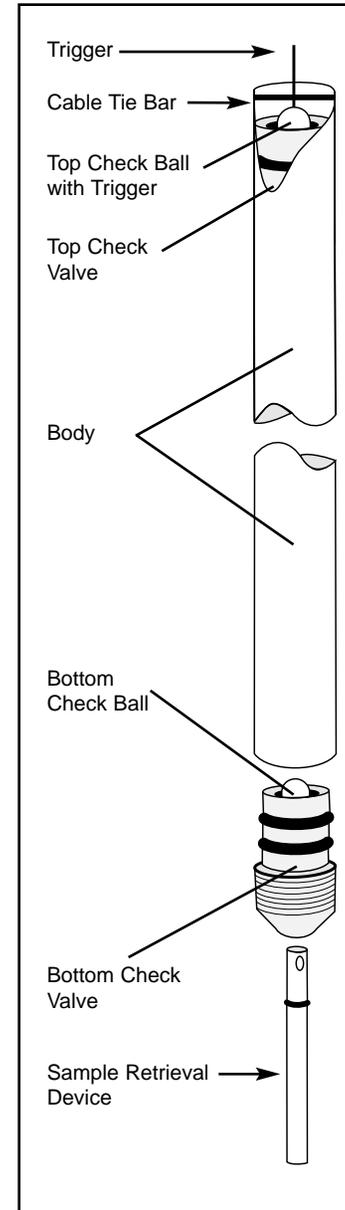
**Note:** Adjusting the amount of movement on the Trigger allows sample flow from the bailer to be regulated.

## Cleaning the Bailer

1. Disassemble bailer, as described overleaf.
2. Clean all components with a non-phosphate soap followed by a deionized water rinse.

**Note:** Further cleaning of all components except the o-rings can be achieved by using hexane or similar solvent followed by 2 or 3 rinses with deionized water. Strong cleaning solutions may damage the o-rings.

3. Re-assemble bailer, as described overleaf.



## Bailer Disassembly

1. Holding the bailer upside down, remove Bottom Check Valve by twisting and pulling. If very tight, use vise grips over a cloth to avoid damage.
2. Remove the Bottom Check Ball by turning the bailer right side up, allowing the ball to roll out.
3. Use a 2' long wooden dowel to push the top check valve out of the bailer from top out through the bottom of the bailer.
4. Remove o-rings from Top and Bottom Check Valves.

## Re-Assembly

1. Replace any damaged o-rings on both Top and Bottom check valves.

**Note: Do not lubricate the Bottom Check Valve O-rings prior to use.**

2. Push Top Check Ball with Trigger into the bailer with the trigger toward the top.
3. Use wooden dowel to push the Top Check Valve into the bailer so that the trigger extends about 1/2" above the top of the bailer body.
4. Insert the Bottom Check Ball into the bailer.
5. Push the Bottom Check Valve firmly onto the bailer.

**Note:** Do not use bailer until Bottom Check Valve is properly locked in place.