

Operating Principles

When the Bailer is lowered into a well or tank, the one-way check valve at the bottom of the Bailer opens allowing water to fill the Bailer. On retrieval, the check valve closes retaining a sample from the well or tank in the Bailer from that elevation.

Operation

1. Attach a support cable to the top of the Bailer to allow lowering to the required depth. Solinst recommends using the Model 103 Tag Line or Kevlar® Rope. The Tag Line uses polyethylene coated, permanently marked stainless steel cable, mounted on a reel, and comes with a clip for easy attachment/detachment.
2. Make sure the cable connection is secure. Lower the Bailer on the support cable to the desired sampling depth or appropriate purging depth. Lower the Bailer slowly to avoid splashing and agitation, so as to not influence sample quality.
3. Gently raise the Bailer to the surface using a steady rate of retrieval to maintain sample integrity.

Sample Retrieval

Regular Flow Sample Release Device

1. Hold the Bailer vertical and insert the Sample Release Device into the bottom of the Bailer to displace the Check Ball. Rotate the Release Device to control the sample flow.
2. Direct the outlet of the Sample Release Device into a sample container. Rotate discharge tube to control flow.

Low Flow Sample Release Device

1. Hold the Bailer vertical and insert the Low Flow Sample Release device into the bottom of the Bailer, with the stem in the middle of the device pulled out.
2. Push the stem into the Bailer to displace the Check Ball.
3. Direct the outlet of the Sample Release Device into a sample container.

3/4" (19 mm) Diameter Bailer

The 3/4" (19 mm) diameter Bailer does not come with a sample release device.

1. To retrieve the sample, the Bailer can be inverted to allow water to exit the handle-end, or a short length of 1/4" (6.35 mm) tubing can be inserted into the bottom of the Bailer to act as a sample release device.

How to Tie the Support Cable

It is recommended that you tie a bowline knot to secure the support cable to the top of the Bailer.

