

Rising Stage Sampler

SEDIMENT SAMPLING

General Description

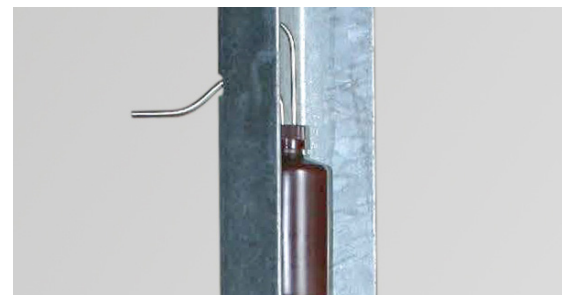
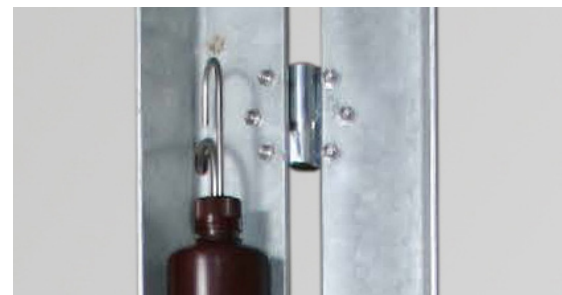
HyQuest Solutions' easy-to-use rising stage sampler RSS is the ideal device for the **automatic collection of samples from flashy, intermittent streams at remote or not easily accessible sites**, which are visited by personnel at infrequent intervals.

The RSS is a **horizontal intake sampler** for sampling **suspended sediments coarser than 62 microns**. The intake is inclined slightly downward to prevent the accumulation of sediment in the outer end of the intake. The use of the RSS is recommended where water surface surge does not exceed 2.5 inches (65 mm) and the velocity does not exceed 4 feet/sec (1.2 m/s).

The RSS is made from robust durable materials and it is easy to install and maintain. Containers in different sizes, stands and a mounting assembly are available.

Operation

As the water rises in the stream it reaches the crown of the intake, flow starts over the crown, and begins to fill the bottle. Sampling ceases when the level of the water in the bottle reaches the inner end of the air exhaust that prevents circulation through the sampler. An air-lock also forms in the intake and prevents enrichment of the sample from water flowing back and forward in the intake and transporting sediment into the sample container.



Technical Specifications

Container

- Material: high density polyethylene
- Capacity:
 - 1 litre (stand-alone or as part of the RSS/3 and RSS/5 assemblies with stands, see below)
 - 2.5 litres (stand-alone only)
 - 4 litres (stand-alone only)
- 1 litre bottles available as white container (optional) or as UV stabilised brown

Intake and Exhaust Tubes

Stainless steel

Scope of Delivery

Bottle with stopper and inlet/outlet tubes

Accessories



Mounting Angle Assembly RSS/3

and RSS/5: Assembly to mount containers (1 litre) securely one above another on a galvanized steel angle with a hinged door and brackets for a padlock to fix bottles in place. The assembly is anchored to the ground by two starposts. Options:

- RSS/3: 3 x 1 litre bottle, height 4.9 ft (1.5 m)
- RSS/5: 5 x 1 litre bottle, height 8.2 ft (2.5 m)

Please ask for details.

HyQuest Solutions' Sediment Sampling Product Portfolio

You can choose from a vast selection of manually or winch-deployed depth-integrating sediment samplers, bedload samplers, rising stage samplers, and their accessories. HyQuest Solutions samplers are based on designs developed by the United States Federal Inter-Agency Sedimentation Project. Please contact us for advice!

Contact us

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