

Advance Diffusion Sampler

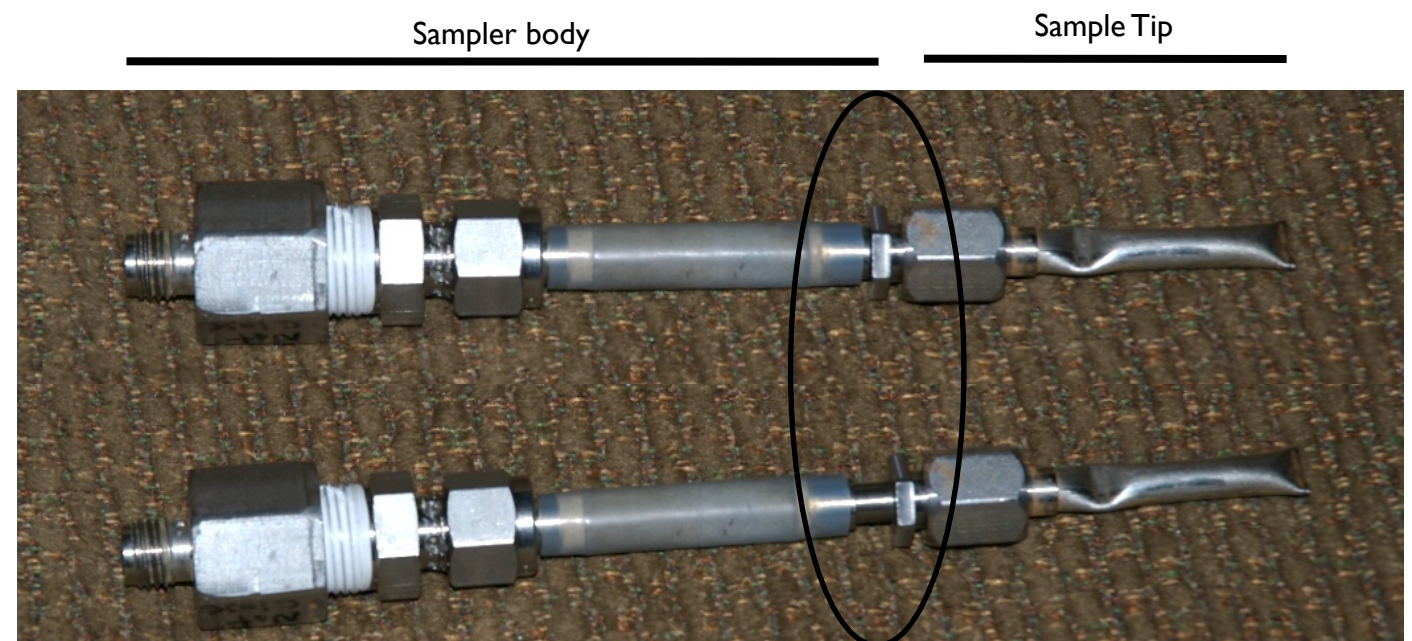
You Should Have:

- Advance diffusion sampler assembly
- Advance Diffusion sampler clamp
- Hand Pump
- Adapter union with Schrader valve
- Stabilization track for clamping
- Extra ferrules and nuts for tube connections



Deployment Preparation

- The sampler assembly consists of two parts, the sampler body and a replaceable sample tip. Generally it will arrive assembled and ready to deploy.
- Check to make sure that the sample tip is tightly screwed onto the sampler body. For the sample to work correctly this connection must be leak tight.
- Make sure that the sampler is in the load position. In the top figure the upper sampler is in the load position and the lower sampler is in the sealed position. *Notice in the circled area the difference between the load position and the sealed position.
- Using the included nut and ferrule set, attach the air hose to the top of the sampler assembly. This should be 1/4 to 1/2 of a turn past finger tight.



Collection and Sealing

- After the equilibration period the sampler is ready to retrieve. Attach the schrader valve adapter to the free end of the air hose which is attached to the sampler.
- Using the hand pump, pressurize the air hose to 60 psi. This will move the piston/valve on the sampler assembly isolating the sample tip from the sample body; preventing atmospheric contamination during the retrieval process.

*Note: Once the sample tip is isolated, it will remain that way. The pressure in the hose does not need to be kept at 60 psi, this pressure is simply to activate the sampler. You may also see a few bubbles float to the surface which is completely normal.

- Once the sampler assembly is back at the surface, using the stabilizing track, seal the sampler tip with the clamp at the point where the tip is pre-crimped.
- The clamp should be tightened as tight as possible to seal the sampler and prevent leaks. The clamp shoulders should meet together without a space between them.



Deployment Considerations

- Samplers have an O.D. of 1.00 in. (25.4 mm) at their widest point.
- The tubing used to pressurize the sampler is 1/4" O.D., any type of semi-rigid tubing which is "swage-able" will work.
- The sampler is normally located at the mid point of the well screen or as close to the spring orifice as possible.
- In all cases the sampler should be located a minimum of 30 cm below the water surface.
- In wells having an I.D. of 2 inches or more, equilibration is normally complete after 24 hours; 48 hours is best. For use in smaller diameter wells, call the lab (801-585-5214)
- The sampling membrane is somewhat delicate, keep sampler clean and handle with care.

Shipping Address

Dissolved Gas Lab
University of Utah
115 South 1460 East, Room 420
Salt Lake City, UT 84112-0102

Phone 801-585-5214
Fax 801-581-5560