



Double Gate Variable Depth Sampler



The Double Gate Variable Depth Sampler is designed to permit collection of two, simultaneous samples from liquids, sludge, or silt. These samples can be taken at specified depths and without disturbance of the test materials during deployment of the sampler. Additionally, it allows retrieval of the sample without any loss of the sample through a pressurized seal designed to avoid loss of sample materials and minimize contamination during withdrawal of the sampler from the test materials.

Versatile Design

The Double Gate Variable Depth Sampler is constructed of stainless steel and contains two sample chambers with upper and lower gates that slide open or closed when actuated by a pneumatic piston. With the gates open, the profile of the square openings provide little resistance to the material being pushed through the openings, causing insignificant mixing of the materials being tested. When the gates are actuated in the closed position, a pressurized seal is created preventing sample loss or contamination during retrieval operations resulting in pristine samples.

The sampler can fit through a six inch diameter access opening or area between pipes or other submerged or buried objects. The unit is lightweight; non-corrosive; and easy to operate, load and unload, and maintain.

at a glance

- Collects dual samples simultaneously
- Samples liquids, sludge, or silt
- Pneumatically actuated
- Pressurized seal helps secure samples
- Minimizes disturbance of sample materials
- Low maintenance

Technology transfer

SRNL is the applied research and development laboratory at the Savannah River Site (SRS). With its wide spectrum and expertise in areas such as homeland security, hydrogen technology, materials, sensors, and environmental science, SRNL's cutting edge technology delivers high dividends to its customers.

Washington Savannah River Company (WSRC) manages SRNL and SRS for the U.S. Department of Energy. WSRC is responsible for transferring its technologies to the private sector so that these technologies may have the collateral benefit of enhancing U.S. economic competitiveness.

Partnering opportunity

A patent application has been filed for the Double Gate Variable Depth Sampler with the U.S. Patent and Trademark Office.

WSRC invites interested companies with proven capabilities in this area of expertise to enter into a licensing agreement with WSRC to market this device as a commercial product. Interested companies will be requested to submit a business plan setting forth company qualifications, strategies, activities, and milestones for commercializing this invention. Qualifications should include past experience at bringing similar products to market, reasonable schedule for product launch, sufficient manufacturing capacity, established distribution networks, and evidence of sufficient financial resources for product development and launch.

for more information

Dale K. Haas, Licensing Specialist

Savannah River National Laboratory
Bldg. 773-41A, Rm. 238, Aiken, SC 29808

Phone: 803-725-4185 or 800-228-3843

Fax: 803-725-4988

E-mail: dale.haas@srs.gov

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