

# SERIES 4000 CVS INDOOR SAMPLER

## Specification CVS-4200

### PART 1: GENERAL

#### 1.01 SUBMITTALS

- A. Submit product literature that includes information on the performance and operation of the sampler, dimensions and weights, and functions of the controller.
- B. Upon request, provide shop drawings that clearly identify sampler dimensions and specifications.

#### 1.02 QUALITY ASSURANCE

- A. Manufacturer shall have at least twenty (20) years experience in the production of effluent/liquid samplers, and shall provide references.
- B. Manufacturer shall have a CSA-certified shop in which they manufacture the samplers, and shall have the CSA sticker on the final product.
- C. Manufacturer shall be located within the USA or Canada.

### PART 2: PRODUCTS

#### 2.01 CVS INDOOR SAMPLER

- A. Automatic Indoor Wastewater Sampler shall be vacuum pump/compressor type with multi-function input controller, acrylic metering chamber, polypropylene sample containers, manufactured by Southwell Controls Ltd.
- B. Controller program types shall include composite, multi-composite, consecutive, daily cycle, and timed step.
- C. Controller shall be capable of initiating a sample via interval time, momentary external contact, integration of 4-20mA flow signal, pulse count or manual.
- D. Controller shall be capable of incorporating a start delay based on time/day using a real time clock, pulse count, integration of a 4-20mA flow signal, momentary external contact or level control (contact duration).
- E. Sampler shall be **composite** with samples deposited to a single sampler container; or **discrete** with samples deposited to multiple sample containers.
- F. 500cc Metering chamber shall have 3/8" or 5/8" ID tubing inlet; 1000cc metering chamber shall have 3/8" ID tubing, 25 foot PVC intake tubing with SS sinker to be included.
- G. Sample compartment will be refrigerated or non-refrigerated, as required.
- H. Sampler shall include one 8L or one 20L polypropylene sample container for composite type or 24x500cc polypropylene containers for discrete type.
- I. Upper control section enclosure shall be NEMA 1 general purpose, powder-coated steel.
- J. Supply 115VAC, 10A power to sampler. All sampler components except refrigerator will be powered by 5VDC.

- K. Available options shall include pressure/vacuum gauge, overflow protection probes, common sampler fault output, external valve control output, SS sinker strainer, and internal battery with charger.
- L. Available optional materials shall include glass metering chamber, glass sample container(s), teflon chamber cover, Tygon inlet tubing and silicone discharge tubing.

## 2.02 FUNCTION

- A. Sampler is to be used for the purpose of taking liquid samples automatically for later laboratory analysis.

## 2.03 MANUFACTURER

- A. All samplers shall be of the series CVS 4200 as manufactured by Southwell Controls Ltd., in the USA or Canada, or approved equal.

## **PART 3: EXECUTION**

### 3.01 INSTALLATION

- A. Sampler shall be installed in accordance with manufacturer's written Instruction and Operation Manual.

### 3.02 MANUFACTURER'S WARRANTY AND CUSTOMER SERVICE

- A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the sampler.
- B. Manufacturer will give telephone support for troubleshooting or difficulties for the lifetime of the product.
- C. Sampler shall be under a two (2) year warranty for all parts.