

# 1920-M55 /1920-N55 Series Beta™ Bottle

## Test before you sample!

We recommend that any new sampler be thoroughly cleaned prior to any sampling. In the event you are performing chemical sampling, before any sampling is done, first fill the sampler with distilled, contaminant-free water and test to determine what contaminants may be present in the sample.

We also recommend that the above procedure be repeated throughout the sampling season.

## Caution:

- When testing the Rotating T release mechanism for operation, be extremely careful. Use a messenger dropped from a short distance, rather than your finger, to trip the mechanism. Make sure that all people stand away from the stoppers. The stoppers close with considerable force and could be dangerous.
- This bottle is intended for use both singly and in series. It is designed to be used with a large weight on the bottom of the line (or other water samplers) to keep the line taut.
- **Do not use a messenger heavier than 11 oz, or air drop longer than 30 feet (10 m).** Damage to your sampler may result.

## Introduction:

This sampler, well described in the literature, can take up to five (5) samples almost simultaneously at up to five (5) different depths. Place up to 5 bottles on one line, each with a messenger above its trip, and drop your messenger onto the top bottle. Because the messengers are connected

by lanyards, our special trip ensures that all bottles close in rapid sequence once the first trip is struck.

We use a special 316 stainless steel vertical bottle release mechanism designed to be used with a large weight on the bottom of the line to keep the line taut.

## Procedure:

1. Make a preliminary inspection prior to use of the bottle which includes closing the drain valve and examining all knots.
2. **Attach the vertical water bottle to its line.**
  - a. Loosen the large wing nut on **top** of the release mechanism.
  - b. Tilt the bottle and slide the line into the stabilizing groove at the **bottom** of the release mechanism.
  - c. Turn the bottle to a vertical position and insert the line into the clamp that was opened by loosening the wing nut in (a).
  - d. Tighten the wing nut so that the clamp closes tightly on the line.
  - e. The bottle is now fully attached to the line. **It must be securely fastened to hold the weight of the bottle when filled with the sample.**
3. **Operate "rotating T" release mechanism:**
  - a. To set the end seals, turn the Rotating T counter clockwise until the notch in the base of the T is engaged with the trip rod.
  - b. Attach the loop on the end seal's cable to the T arm furthest away from the end seal. Repeat the procedure for the other end seal.
4. Place up to five (5) bottles on the same line, with a messenger above its trip. Connect the messengers by lanyards so that they will react almost simultaneously when the first messenger is dropped.
5. Lower the series of bottles to the desired

depths in the water.

6. Drop a messenger down the line or cable to hit the strike pad of the first water sampler, activating the Rotating T release mechanism.

## Sampler Maintenance:

### 1 General cleaning

- a. For most sampling, soak in mild detergent and warm water (up to 150° F/ 65° C) and rinse with tap, then distilled, water.
- b. Can also soak in mild laboratory detergent such as Alconox and warm water. Rinse with distilled water, rinse again with 3% HCl or HNO<sub>3</sub>, then with tripled distilled water. Repeat. Store when completely dry in a clean, sealed plastic bag.

### 2. Trace level decontamination for plastic samplers.

- a. Clean as above, then soak no longer than 8 hours in warm 1N HCl solution (3 N maximum) followed by a rinse in distilled water. Acrylic is attacked by alcohol, ketones and chloroform.

### 3. Removing grease and oils.

- a. Wash with mild detergent to remove most grease and oils. Scrub soiled area prior to using organic solvents such as acetone, alcohol or chloroform. **Do not use these solvents on acrylic.** Use **alcohol only** on PVC and CPVC.

### 4. Sterilizing samplers.

- a. *Do not autoclave* this sampler.
- b. *Chemical sterilization:* Sterilize the above plastics and metals with common disinfectants.

## Sampler Storage:

Thoroughly dry before storing in a clean, sealed, plastic bag or carry case.

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## Recommended Accessories:

- **Messengers.** 45-B10 11 oz. split messenger
- **Line, cable and chain.** We recommend 62-C15 braided polyester line in 5 mm (3/16") diameter; or 61-B14 steel cable in 3 mm (1/8") diameter.
- Winches and winch mount  
66-C10 winch for heavier samplers  
66-C52 mount for attaching winch
- **Cases.** We recommend 910-G22 Molded Plastic Utility Case, Large
- **Hand reel** 66-A50

## Warranty and Parts:

We replace all missing or defective parts free of charge. For additional parts, use part numbers above. We accept Mastercard, Visa, American Express, checks, institutional P.O.'s. All products guaranteed free from defect for 90 days. This guarantee does not include accident, misuse, or normal wear and tear.

## Other Models:

- 1920-M55 2.2 L, acrylic, bottle only
- 1920-N55 2.2 L, PVC, bottle only

## Series Sampler Parts:

End seals with air/	
drain valve (2 pack)	1920-L115
Tubing Assembly	1920-L130
Handle	1120-L129
Cable Assembly (2 pack)	1920-L128
Trip Assembly	1120-L39
Connector (2 pack)	1120-L13
Hose Clamp (2 pack)	1120-L17
Gasket Kit	1920-L129
Main Tube Transparent	1920-L118
Main Tube PVC	1920-L120