

**USE FOR:** trace metal sampling, horizontal and vertical, in fresh and salt water, in near off-shore water (to 200m)

**ACCESSORIES:** 3-45-B10 messenger; 3-62-C15 line; 3-66-C10 winch and mount; 3-66-A50 reel; 3-66-C52 winch mount; case

## ABOUT BETA™ BOTTLES

This bottle is excellent for near off-shore (to 200 m) *trace metal sampling*, since there are no metal parts to touch your sample. You avoid the metallic ion contamination that can cause major errors in algal assays or productivity. Beta™ Van Dorn bottles have rigid, white plastic end seals for clean sealing. The bottle ends are machined to fit foam silicone gaskets. Amber latex tubing, which does not leach measurable amounts of metal, closes the bottle. Beta™ bottles feature a nylon safety line connecting the end seals, so if the closing tube breaks, you're less likely to lose your expensive seals. This is why Beta™ bottles have an excellent track record in a wide variety of field conditions.

### FEATURES:

- Good for trace metal sampling
- Minimal contamination at mg/L concentration
- No metal part touches your sample
- Rigid, white polyurethane end seals

## Horizontal Beta™ Bottles

Intended for deep or shallow waters, these "horizontal" bottles should be pulled 1 m sideways just before closing. This ensures a representative water sample for that specific depth of water. They cannot be used in series because their release mechanisms are at the end of a line or cable. They are ideal, however, for sampling at the thermocline, at other stratification levels, or just above the bottom sediments. Beta™ bottles come in your choice of transparent acrylic or opaque PVC. PVC is more durable and less costly, but the acrylic allows you to view the contents immediately. A thermometer can be mounted to acrylic Beta™ bottles.

Type	Tube dia, length	Kit	Bottle Only
2.2 L acrylic	4-1/2 x 13-1/2"	3-1920-G62	3-1920-G65
3.2 L acrylic	4-1/2 x 18-1/2"	3-1930-G62	3-1930-G65
4.2 L acrylic	4-1/2 x 22-15/8"	3-1940-G62	3-1940-G65
6.2 L acrylic	6-1/2 x 16"	3-1960-G62	3-1960-G65
8.2 L acrylic	6-1/2 x 19-1/2"	3-1980-G62	3-1980-G65
2.2 L PVC	4-1/2 x 13-1/2"	3-1920-H62	3-1920-H65
3.2 L PVC	4-1/2 x 18-1/2"	3-1930-H62	3-1930-H65
4.2 L PVC	4-1/2 x 22-15/8"	3-1940-H62	3-1940-H65
6.2 L PVC	6-1/2 x 16"	3-1960-H62	3-1960-H65
8.2 L PVC	6-1/2 x 19-1/2"	3-1980-H62	3-1980-H65

*Kits include:* 3-45-B10 messenger, 100' (3-62-C15) line and carry case.

**Beta™ bottle seals close with force and could cause injury. Do not operate out of water!**

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## Alpha™ and Beta™ Bottle Differences

These bottles are similar in use and appearance. Both are Van Dorn samplers, available in the same sizes and materials. The differences are in the end seals and latex closing tubing. These differences are enough, however, to make the Beta™ better suited to sampling trace metals and other chemical sampling.

The blue polyurethane seal used in Alpha™ bottles may leach some mercury. However, it is durable and long-lived. The white plastic seal used in Beta™ bottles does not leach mercury, but it is not as durable.

The Alpha™ black latex tubing is highly resistant to decay from sunlight and water. However, it may leach a small amount of heavy metals. The Beta™ amber latex tubing is less resistant but does not leach as many contaminants.



3-1920-H65

### FEATURES:

- Volume from 2.2 - 8.2 liters
- Machined to fit silicone gaskets
- Amber latex tubing
- Stainless steel trip
- New, improved drain valve

**DID YOU KNOW?**

The primary cause of variability in distribution in plankton is the availability of light.



BETA™ Assembly

**Please Note:** Volume may vary slightly. It is recommended that you verify the exact volume of your bottle prior to use.