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**BACON BOMB  
 AND TANK  
 SAMPLERS**

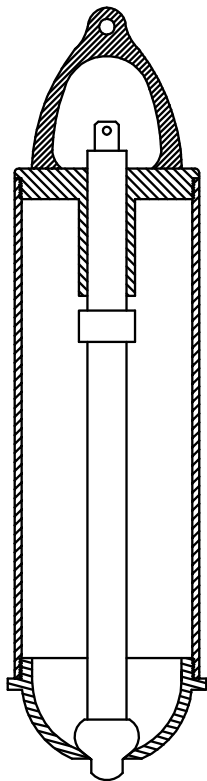
**BULLETIN 115  
 (12-19)**

## BACON BOMB SAMPLERS

Designed by Charles V. Bacon, Chemical Engineer  
**Makes possible two sampling methods important  
 to every company handling liquids in tanks.**

### AVERAGE SAMPLER

This sampler takes truly average samples. When lowered into a tank, liquid flows into the lower end of the sampler only as quickly as air is displaced through the opening at the top. A rugged needle valve permits exact control of the rate of flow. If the sampler is lowered from the top to the bottom of a liquid at a uniform rate and is not quite full when withdrawn, the liquid trapped in the sampler must be a truly average sample.



**Bottom  
 Sampler**

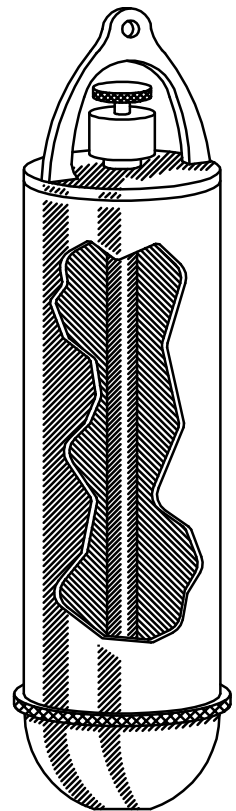
MODEL	CAPACITY	DIAMETER	HEIGHT
TL-3576	16 oz.	2 3/4"	12"

### BOTTOM OR POINT SAMPLERS

A plunger keeps the sampler closed until it strikes the bottom of the tank, then the sampler fills. When raised, the plunger automatically falls back into position, closes the sampler, and prevents any contamination by liquid taken at a higher level. This device picks up sediment or water directly off the bottom of the tank.

But a sample can be taken at any point above the bottom by attaching a cable to the top of the plunger, raising it at will to fill the sampler and lowering it to close the sampler. However, average sampling operations cannot be performed with the perfect control possible with the average model.

MODEL	CAPACITY	DIAMETER	HEIGHT
TL-3572	8 oz.	2 1/4"	10"
TL-3573*	16 oz.	2 3/4"	12"
TL-3574	32 oz.	3 5/8"	16"
TL-3575	4 oz.	1 7/8"	9"



**Average  
 Sampler**

Extension rods are available to allow a sample to be taken 1" to 12" from the bottom. Order extension kit Model TL-3577.

\* FAN 6695-00-946-3602

**FOR SAMPLING:** Jet Fuels ▪ Petroleum Oils ▪ Fish Oils ▪ Solvents ▪ Tar Oils ▪ Sugar ▪ Glycerine ▪ Fruit Juices  
 Chemical Solutions ▪ Molasses ▪ Varnish ▪ Vinegar ▪ Latex ▪ Vegetable Oils ▪ Laquer ▪ Beverages ▪ Fisheries

**You may coat samplers with protective varnish when used with liquids that will attack nickel and bronze.**

All Bacon Bomb Samplers are substantially made of brass and bronze, and heavily nickel plated. Each sampler has but one moving part, no springs, nothing to get lost or out of order, and they are easily cleaned. All models show the same simplicity of design and rugged construction, and also incorporate various desirable features suggested by years of hard usage. All models conform to ASTM specifications D-4057. All Bacon Bomb Samplers are anti-magnetic.

# IN-TANK SAMPLERS

- No copper or brass
- All stainless steel or aluminum
- Model GTP-9090 (aluminum) has a capacity of 1 U.S. gallon (3,785 ml)
- Model GTP-9021 (stainless steel) has a capacity of  $\frac{1}{3}$  U.S. gallon (1,260 ml)
- Stainless steel chain is tangle resistant, 65 feet (18,300 mm)

With a one-gallon capacity, our model GTP-9090 is welcomed by technicians because they no longer must collect repeated samples to obtain enough liquid for the laboratory tests.

If lowered to the bottom of a tank, the sample will be collected at a level 14.2 in (368 mm) above the bottom for model GTP-9090 and 10.8 in (275 mm) above the bottom for model GTP-9021. These samplers are not designed to sample the very bottom of the tank. To meet that requirement, we recommend a Bacon Bomb as described on the front of this bulletin.

## SAFETY FROM AN ELECTROSTATIC STANDPOINT

Yes, our samplers come with 65-foot (19.8m) long stainless steel chains so that the sampler can be grounded to the tank. The greatest danger on tank operations occurs when an “unbonded charge collector” is inserted. If a sampler or any other object enters the tank, there exists a real danger of sparking. Our instruction is that the heavy-duty clamp be attached first to a metal component of the tank, being careful to remove paint or rust that may prevent continuity. The sampler may then be lowered safely into the tank. Rope or cord must never be used.



The unique model GTP-9021 was developed specifically to fit through the small gauging found on U.S. Air Force bases where level gauging electric cables are also present. It was important that there be no tangling of our sampler with those cables and that those cables not be damaged. Therefore, the outside diameter is only 3.1 in (79 mm).