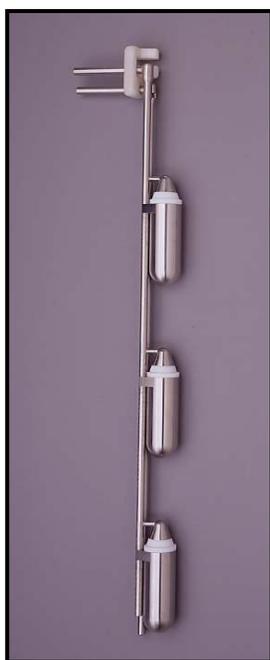




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## SAMPLERS FOR UNIT-DOSE/BULK SAMPLING OF LIQUIDS AND SEMI-SOLIDS

### Model VII: Sampler with Multiple Cups



This sampler is custom-made to suit the customer's sampling bottles and it takes samples directly into the bottles. The bottles are (preferably plastic) held inside stainless steel cups and do not get wet outside. The same sampler may be used with different size bottles by simply changing the bottle adapters. The bottle adapters and the bottle sealing closures are made of Teflon or Delrin (white FDA approved plastics) while the rest of the sampler is made of 316 stainless steel. The stainless steel cups are welded to the shaft so that they do not have a chance to drop into the tank.

Sampler is sterilizable, easily cleanable, and is ideal for sampling of large volumes (20cc and up) from drums, tanks, mixers, reactors, etc. Three different sizes of cups are available: Small cup – 1.68" ID x 4.0" deep, Medium cup – 2.73" ID x 6.0" deep, and Large cup – 3.72" ID x 7.0" deep. Customer has to ship the bottles to GlobePharma when placing the order so that suitable bottle adapters can be made.



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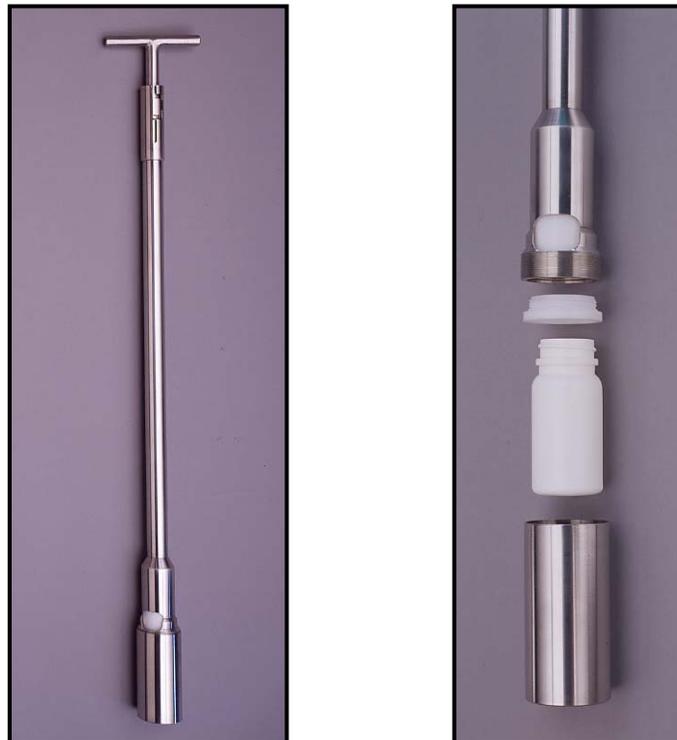
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### Model VIII: Sampler with a Sterile Disposable Syringe (Patented)



This sampler is available for use with 5cc and 60cc sterile disposable syringes. The top of the sampler has exactly the same scale as the syringe so that unit-dose samples or bulk samples may be taken. 60cc syringe comes with a catheter tip (5mm ID bore) to facilitate sampling of suspensions and semi-solids. The body of the syringe is completely enclosed, and only the tip is exposed to the material. The sampler is all made of 316 stainless steel, sterilizable, easily cleanable, and is ideal for sampling from drums, tanks, mixers, reactors, etc. 2ft, 4ft and 6ft long samplers are readily available. Other sizes are custom-made. Custom-made segmented samplers are available for sampling from very large tanks.

### Model IX: Sampler with a Single Cup



Model IX is a custom-made and it takes one sample into a glass or plastic bottle. The bottle is enclosed in a stainless steel cup and does not get wet outside. Different size bottles may be used by simply changing the adapter that holds the bottle inside the cup. The sealing plug is made of Teflon or Delrin (FDA approved white plastics) and is removable for easy cleaning. The rest of the sampler is made of 316 stainless steel. Three different sizes of cups, as described under Model VII above, are available. Custom-made segmented samplers are available for sampling from very large tanks. Ideal for bulk sampling (20cc and up) from drums, tanks, mixers, reactors, etc.

### **Model XI - Stainless steel Pipette Type Liquid/Semi-solid Sampler:**

Model XI-B Liquid Sampler, 48" long, 1.0" OD, made of 316L stainless steel with RA 10 finish (mirror finish) on the inside, electropolished, and passivated as per ASTM A-967 standards. This sampler comes with one 316 SS interchangeable tip with a bore size of 0.5mm to 12mm ( customer to specify bore size).The top end of the sampler has a removable Delrin (FDA approved white plastic ) sleeve which seals against the stainless steel tube and it accommodates the 140ml syringe. One syringe with FDA/USP VI PVC tube piece (to provide proper seal) fitted on the tip of the syringe is supplied with the sampler. This sampler meets GMP standards and is easily and thoroughly cleanable. 2ft, 4ft and 6ft lengths are standard stock items. Longer samplers are custom-made with longer lead times.

Optional interchangeable tips made of 316 SS, with orifice sizes of 0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 & 12.0mm are available.

