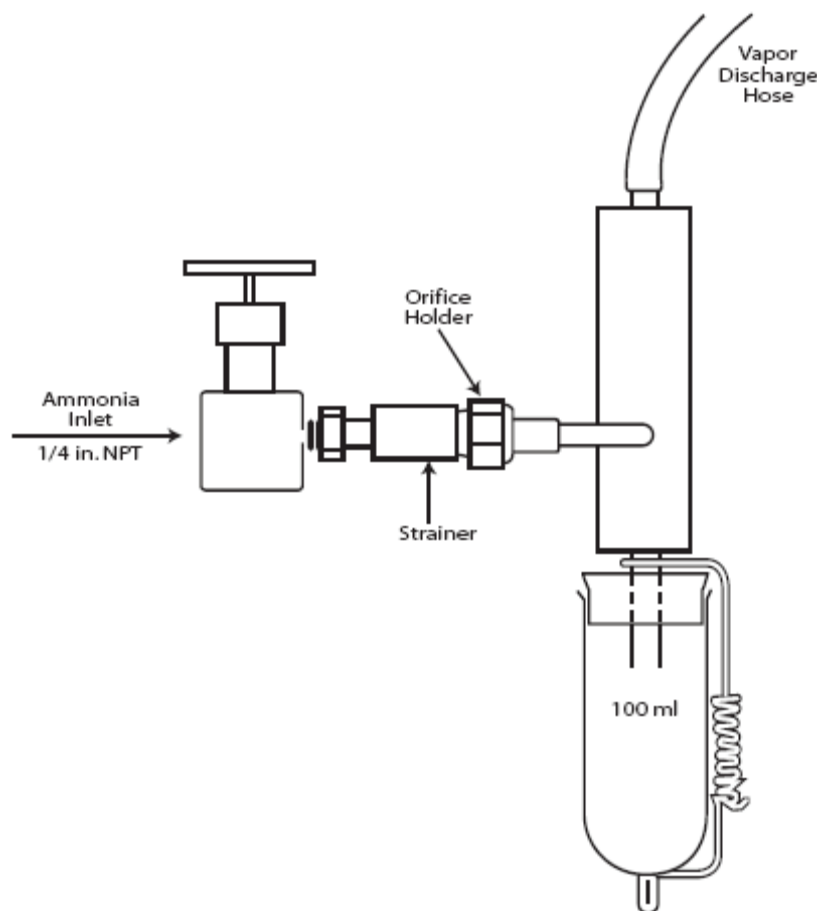


### ANHYDROUS AMMONIA COLD-FLO SAMPLER



The cold-flo sampling converter allows safe and convenient sampling of liquid anhydrous ammonia by producing a stream of liquid ammonia refrigerated to  $-28^{\circ}\text{F}$ .

The flow of this stream is restricted to a low value by an orifice plate installed on the inlet line. At  $-28^{\circ}\text{F}$  the pressure generated by liquid anhydrous ammonia is equivalent to atmospheric pressure. This means that the liquid entering the glass test tube is not flashing and is relatively quiescent. It is producing vapor at a rate dictated solely by its ability to absorb ambient heat. This results in much greater safety and convenience for sampling personnel.

A Complete sampling unit consists of a shut-off valve, orifice plate holder, converter, vapor hose and glass test tube. A vapor hose is provided by the user.

Personnel should observe appropriate ammonia safety procedures.

Reference: IIAR Bulletin No. 108, "Water Contamination in Ammonia Refrigeration Systems".