



## AIR SAMPLING PUMP (MODEL: ASP- 11)

The ASP-11 is a limited use, 100 cc plastic pump, intended ONLY for use with the Uniphos phosphine detector tubes for marine applications. The pump and tube are an exclusive gas detection system. The ASP-11 MUST not be used with other Uniphos detector tubes. The Uniphos ASP-40 is intended for use with all Uniphos detector tubes.

To ensure proper function, it is recommended to leak test the ASP-11 pump prior to each use to ensure the pump will pull the correct 100 cc per stroke. If the leak test fails, discontinue use and replace with a new ASP-11.

### LEAK TEST PROCEDURE

The steps recommended to leak check the pump are as follows: 1) Insert a new detector tube without breaking the ends into the rubber tube connector. 2) Align the metallic locking pin on the shaft with the slot of the stopper (visible inside the pump barrel) 3) Pull the pump handle for a full stroke (100 cc) then rotate the handle right or left 90 degree to lock the piston in the slot. 4) Wait for three minutes, then while **holding tightly** release the pump handle, by turning 90 degrees to the left or right and slowly allowing the piston to return to the original position. If the piston returns to the original position the pump has passed the leak test.

### OPERATION – TAKING A MEASUREMENT

1. Break both ends of the tube using the tip cutter on the pump.
2. Insert one end of the tube securely in the rubber tube connector ensuring that the arrow on the detector tube points towards the pump.
3. Align the metallic locking pin on the shaft with the slot of the stopper.
4. Pull the pump handle for a full stroke (100 cc) and rotate the handle right or left 90 degree to lock the piston in the slot of the stopper.
5. Wait the prescribed opening time in the tube instructions, then read the gas concentration directly from the scale on the detector tube.