

# AP 100 Installation Instructions

**WARNING: DO NOT LIFT PUMP OUT OF THE BOX USING THE MUFFLERS.  
THIS COULD CAUSE SERIOUS DAMAGE TO THE SHUTTLE.**

- ◆ The AP100 base plate is designed to be mounted with two 3/8" or two 10mm socket head cap screws spaced 2.000" apart.
- ◆ Remove the base plate from the pump by loosening the thumbscrew (17 or 18) and sliding the base plate (16) out of the tongue and groove in the body (1).
- ◆ Install base plate (16) into work station by tightening it down with two 3/8" or two 10mm socket head cap screws, screwed into previously drilled and tapped mating holes at a 2" hole distance.
- ◆ Slide the pump assembly (1) onto the mating tongue and groove of the base plate (16) and tighten the PTFE thumbscrew (17 or 18) finger tight.
- ◆ Affix PFA thick wall tubing to fluid connectors without wrenches, **hand tighten only**. Installation of lines is: intake on bottom; discharge on top. If pump is equipped with synchro flare fittings, use standard flaring procedures. Take care to make sure the PFA gripper washer (46) is in place in the nut (48) before flaring.
- ◆ Hook up 3/8" PFA tubing and fitting to back of shuttle valve (center NTP of 19). **Air supply must be 1/4" minimum orifice** (1/4" unrestricted air flow) back to supply source.
- ◆ Minimum operating pressure of 20psi. Maximum operating pressure of 60psi
- ◆ Adjustable mufflers are preset at the factory for optimal performance in most applications. You may "fine tune" the mufflers for optimum performance in special circumstances by loosening the lock nut outside the muffler cap. Gently screw in adjuster screw until initial contact is made with the bottom of the muffler body (do not tighten). Then back screw off to the desired setting and re tighten the lock nut while holding the screw in place to prevent further rotation. Recommended setting is to back the set screw off 1/2 turn from initial contact with muffler body bottom.

**CAUTION: AIR SUPPLY MUST BE 1/4" MINIMUM ORIFICE (1/4" UNRESTRICTED AIR FLOW) FROM SUPPLY SOURCE TO PUMP.**

**Problems or Questions, call toll free:**

**1-888-SYNCHRO**

**(1-888-796-2476)**

**or**

**1-989-642-3237**