PL 30 Installation Instructions

WARNING: DO NOT LIFT PUMP OUT OF THE BOX BY THE TUBING.
THIS COULD CAUSE SERIOUS DAMAGE TO THE FITTINGS.

- The PL30 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 lifting the lever lock base plate lever (6) and sliding the pump (1) forward then lifting it off of the base mount knobs (7) on the base plate (5).
- Install base plate (5) 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.
- Place the pump assembly (1) onto the mating base mount knobs (7) of the base plate (5), the lever (6) lifts up automatically. Slide the pump assembly (1) back and the lever (6) drops to hold the pump in place.
- Affix PFA thick wall tubing to fluid connectors without wrenches, <u>hand tighten only</u>.
 Proper location of fluid lines: intake on bottom; discharge on top. If pump is equipped with Synchro flare fittings, use standard flaring procedures.
- Connect 3/16" NPT fitting attaching a minimum of 1/2" PFA tubing to the space saver elbow located on the back of the shuttle body. <u>Air supply must be 3/16" minimum orifice</u> (3/16" unrestricted air flow) back to supply source.
- If Leak or Stroke detect options have been selected for pump see below pictures for connection instructions.
- Minimum operating pressure of 20psi. Maximum operating pressure of 100psi. Check temperature to air supply charts for exact maximum allowable air supply pressure.

CAUTION: AIR SUPPLY MUST BE 3/8" MINIMUM ORIFICE (3/8" UNRESTRICTED AIR FLOW) FROM SUPPLY SOURCE TO PUMP.

NOTICE: WHEN OPERATING A RENAISSANCE PUMP WITH A WHITE KNIGHT SHUTTLE VALVE IN CONJUNCTION WITH A PULSE DAMPENING DEVICE THE AIR SUPPLY PRESSURE (TO THE PUMP) SHOULD BE AT LEAST 10PSI OVER THE LIQUID LINE PRESSURE. FAILURE TO DO SO CAN CAUSE THE PUMP TO RUN ERRATICALLY.

Problems or Questions, call toll free: 888.796.2476 Or 435.783.6040

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PL 30 Dual Slave Heads Installation Instructions

WARNING: DO NOT LIFT PUMP OUT OF THE BOX BY THE TUBING.
THIS COULD CAUSE SERIOUS DAMAGE TO THE FITTINGS.

- The PL30 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 lifting the lever lock base plate lever and sliding the pump (1) forward then lifting it off of the base mount knobs on the base plate (16).
- 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.
- Place the pump assembly (1) onto the mating base mount knobs of the base plate (16) the lever lifts up automatically. Slide the pump assembly (1) back and the lever drops to hold the pump in place.
- Affix PFA thick wall tubing to fluid connectors without wrenches, <u>hand tighten only</u>.
 Installation of lines is: intake on bottom; discharge on top. If pump is equipped with Synchro flare fittings, use standard flaring procedures.
- Install 2 each 1/8" NPT mufflers to the sides of the pump heads (face of pump heads).
 See picture below for details.
- Connect 2 each 3/16" NPT fittings attaching a minimum of 1/2" PFA tubing to each of the two 3/16" NPT ports located either on the face of the pump heads or on the radius of the pump heads. See picture below for details. <u>Air supply must be 3/16" minimum</u> <u>orifice</u> (3/16" unrestricted air flow) back to supply source.
- If Leak or Stroke detect options have been selected for pump see below pictures for connection instructions.
- Minimum operating pressure of 20psi. Maximum operating pressure of 100psi. Check temperature to air supply charts for exact maximum allowable air supply pressure.

CAUTION: AIR SUPPLY MUST BE 3/16" MINIMUM ORIFICE (3/16" UNRESTRICTED AIR FLOW) FROM SUPPLY SOURCE TO PUMP.

NOTICE: WHEN OPERATING A RENAISSANCE PUMP WITH A WHITE KNIGHT SHUTTLE VALVE IN CONJUNCTION WIT A PURSE DAMPENING DEVICE THE AIR SUPPY PRESSURE (TO THE PUMP) SHOULD BE AT LEAST 10PSI OVER THE LIQUID LINE PRESSURE. FAILURE TO DO SO CAN CAUSE THE PUMP TO RUN ERRATICALLY.

NOTICE: WHEN OPERATING A RENAISSANCE PUMP IN TIMER/OSCILATOR MODE THE PUMP SHOULD RUN AT A SPEED FAST ENOUGH TO KEEP THE BELLOWS FROM REACHING THE END OF THE STROKE. THIS IS BECAUSE ONCE THE BELLOWS HAS REACHED THE END OF STROKE THE BELLOWS WILL BALOON AND FATIGUE. A GOOD WAY TO DETERMINE THE CYCLE RATE IS TO TAKE THE FLOW RATE AND DIVIDE IT BY THE PUMP DISPLACEMENT AND MULTIPLY IT BY 1.25. FOR EXAMPLE; PUMP FLOW RATE IS 5GPM, THE DISPLACEMENT PER CYCLE FOR THE PL30 IS .020 GPM. THE CYCLE RATE WOULD THEN BE 5 / .020 =250 X 1.25 = 312.5. IF LARGE AMOUNTS OF EXHAUST ARE COMING OUT THE SHIFT EXHAUST MUFFLERS THE SPEED SHOULD BE INCREASED. ONLY A SMALL AMOUNT OF EXHAUST SHOULD ESCAPE.

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