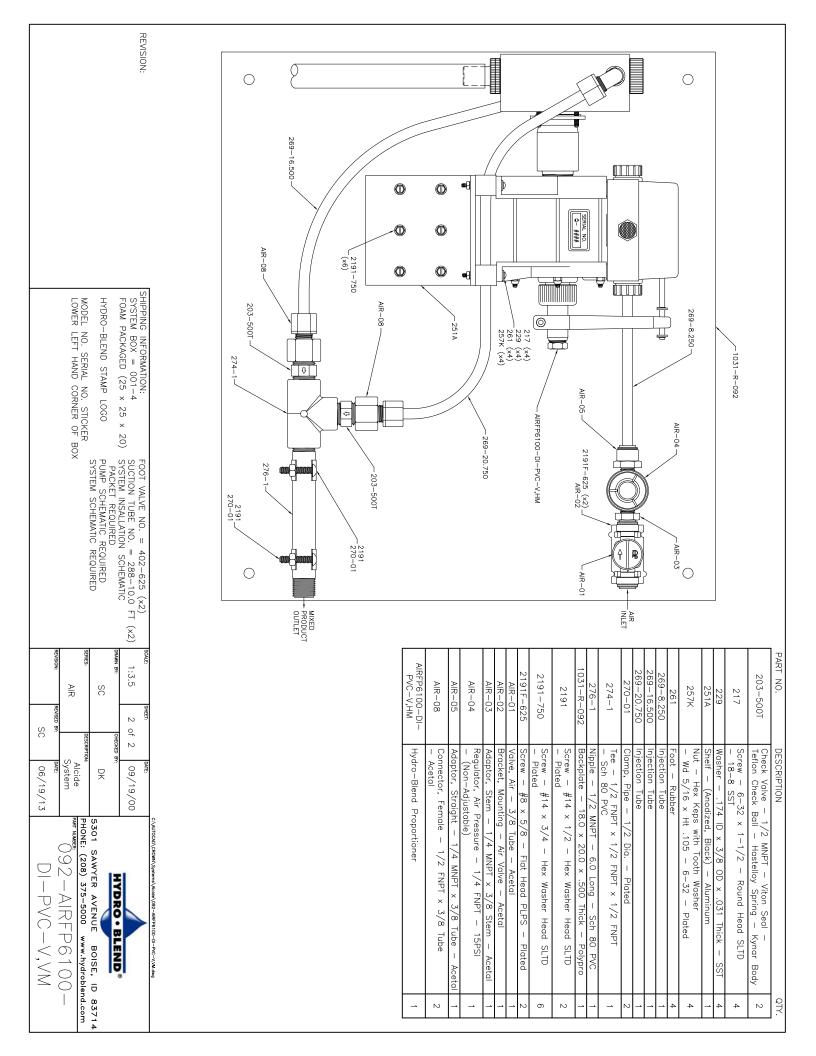
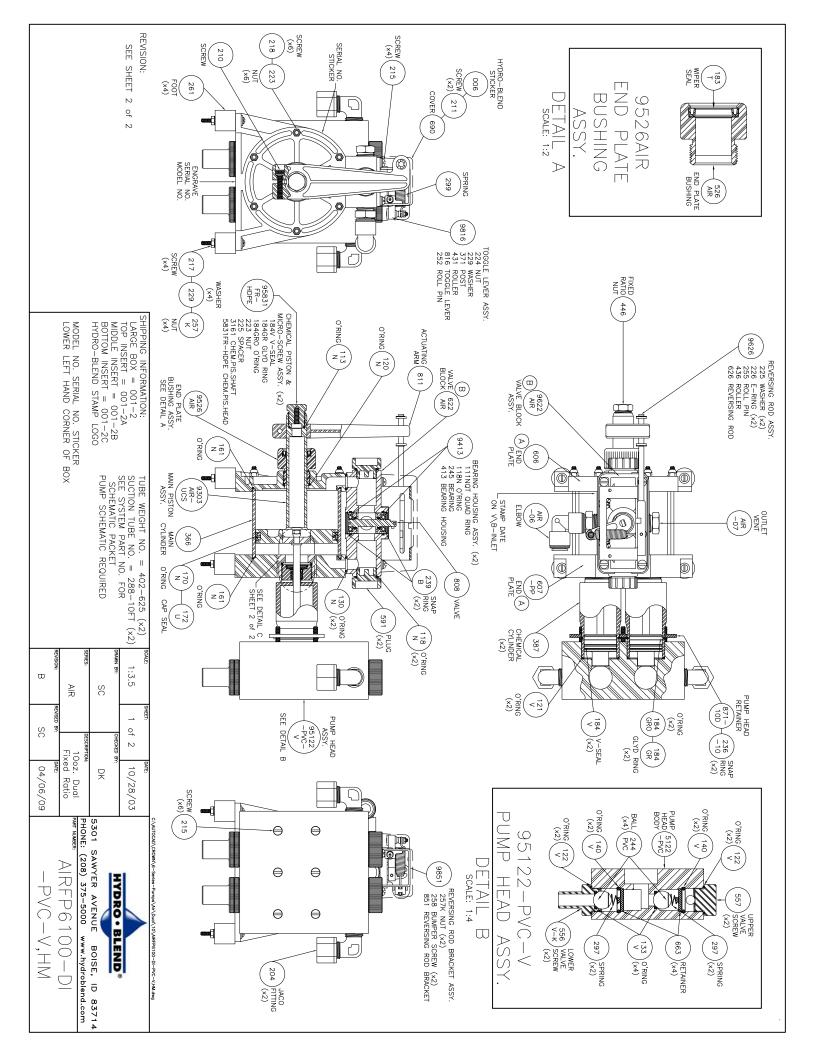


- SYSTEM INSTALLATION
- Θ MOUNTING HOLES
- \bigcirc AIR INLET FOR VERTICAL SURFACE (I.E. A WALL).
- 3/8 O.D. VALVE IS OFF WHEN INSTALLING). TUBE COMPRESSION FITTING (MAKE SURE
- \bigcirc CHEMICAL CONCENTRATE
- SCREW NIPPLES. DROP OPPOSITE ENDS WITH TUBE WEIGHTS INTO CONCENTRATE. PART A & PART B-ATTACH HOSES TO LOWER VALVE
- MIXED PRODUCT OUTLET
- 4 /2 NPT MALE CONNECTION FOR OUTGOING PLUMBING.
- 6 OPEN AIR VALVE (2) SLOWLY UNTIL PUMP STARTS TO ACTUATE. CHEMICAL WILL BE DRAWN UP SUCTION START-UP OPERATION TUBES.





		() REDUCED O'RING COUNTER BORE DEPTH ON BOTTOM OF VALVE BLOCK, 11/07/07.
SHIPPING INFORMATION: TU LARGE BOX = 001-2 SL TOP INSERT = 001-2A SE MIDDLE INSERT = 001-2B SE BOTTOM INSERT = 001-2C PL HYDRO-BLEND STAMP LOGO MODEL NO. SERIAL NO. STICKER LOWER LEFT HAND CORNER OF BOX		M OF VALVE BLOCK, 11/07/07.
TUBE WEIGHT NO. = 402-625 (x2) SUCTION TUBE NO. = 288-10FT (x2) SEEE SYSTEM PART NO. FOR SCHEMATIC PACKET PUMP SCHEMATIC REQUIRED BOX		
SOLE SEE NOTED Dewww.er: SC Sames: AIR Revisione B	Γ	SPACE (x2)
sc f 2 10/28/03 orecore br DK nescontrow 10.02. Dual Fixed Ratio SC 04/06/09	DETAIL Scale: 1:1	SPACEER (x2) (x2) (x2) (x2) (x2) (x2) (x2) (x2)

 $\underbrace{(A)}_{A} \text{ added o'ring counter bore to top of endplate, 10/17/07. }$

AIR PUMP SUGGESTED MAINTENANCE PROGRAM

AIR SIDE OF PUMP-

- 1. Pumps require a non-adjustable 15 PSI pressure regulator. Make sure this is installed and working. The target speed the pump is designed to run at is about 1 stroke per second. (A stroke is defined as 1 stroke of the main piston forward and back).
- 2. Clean the air vent if needed, located on the valve block opposite of the regulated air inlet. This can be removed and cleaned with soap and water and blown out. Make sure when re-installing vent not to thread into the valve block too far. This will make contact with the valve and stall pump.

CONCENTRATE SIDE OF PUMP-

- 1. Flushing concentrate out of complete system by running warm water through the pump on a periodic basis is recommended. To perform this task make sure air is turned off. Remove suction tubes from concentrates and place them into a warm bucket of water. Turn air on slowly and let pump draw and run warm water through it. This may take several buckets of water before you see clean water coming out of mixed product outlet.
- 2. Wear Points: Ball O-Ring seals in pump head will become flattened out over time and will not seal correctly. Chemical piston v-seals will become worn over time as well. The time frame in which these need to be replaced is based on how much use the pump gets. You can determine when these seals are worn by the amount of suction the pump creates. Also, if the pump doesn't hold prime in the suction tubes. Both of these seal sets can be replaced. Please refer to your pump schematic to reference part numbers.

TROUBLESHOOTING-SEE PAGE 2

TROUBLESHOOTING

COMPLAINTS:	CAUSES:	CORRECTIONS:
1. Air motor will not run.	A. Air turned off to unit.	A. Turn air on to unit.
	B. Discharge lines shut off or clogged.	B. Check to be sure lines are clear and all system valves are open and working.
	C. Proportioner stalled; proportioner operates intermittently-then stalls.	C. Air inlet pressure has dropped. Relieve downstream back- pressure: if unit restarts, there is no problem. If unit does not restart, there may be valve block failure.
	D. Weak or broken toggle lever spring.	D. Replace spring (part # 299)
	E. Actuating arm out of adjustment.	E. Relocate actuating arm to .400" from back of chrome shaft.
2. Will not draw chemical.	A. Air motor not working.	A. Check motor per item 1 above A through E.
	B. Pump head seals dry.	B. Remove top valve screw, flood cavity with water. Replace spring and valve screw carefully. Start unit.
	C. Upper or lower valve screws sucking air.	C. Tighten fittings-hand tighten only.
	D. Pump head screws loose. Sucking air.	D. Tighten 6 screws located on pump head face.
	E. Foreign material on ball seat. Concentrate has caused balls to stick.	E. Remove valve balls carefully, flush and clean valve seats and balls, springs and valve screws.
	F. Excessive discharge back- pressure.	F. Relieve downstream back- pressure until unit is primed.