

SYSTEM INSTALLATION

MOUNTING HOLES

FOR VERTICAL SURFACE (I.E. A WALL).

 \bigcirc AIR INLET

 \bigcirc

CHEMICAL CONCENTRATE

- 3/8 O.D. TUBE COMPRESSION FITTING (MAKE SURE VALVE IS OFF WHEN INSTALLING).
- MIXED PRODUCT OUTLET PART A & PART B-ATTACH HOSES TO LOWER VALVE SCREW NIPPLES. DROP OPPOSITE ENDS WITH TUBE WEIGHTS INTO CONCENTRATE.

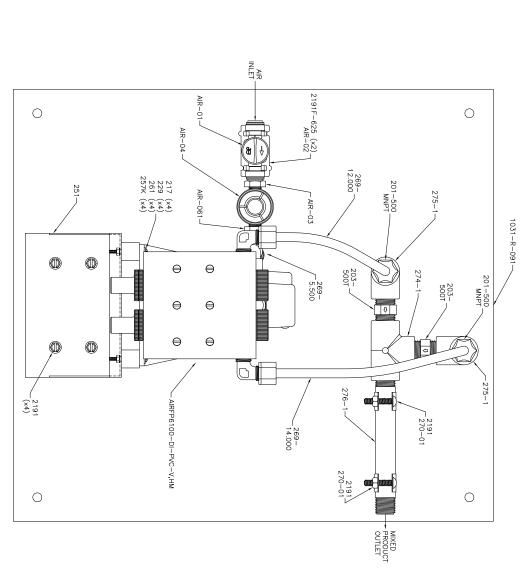
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START-UP OPERATION 1/2 NPT MALE CONNECTION FOR OUTGOING PLUMBING.

(5)

OPEN AIR VALVE (2) SLOWLY UNTIL PUMP STARTS TO ACTUATE. CHEMICAL WILL BE DRAWN UP SUCTION TUBES.

	REVISION:	SERIES:	SC	DRAWN BY:	1:4	SCALE:
C	REVISED BY:	DESCRIPTION		CHECKED BY:	1 of 2	SHEET:
06/19/13	System	ARS	DK	ň	1 of 2 09/19/00	DATE:
-PVC-V,VM	091-AIRFP6100-DI	PHONE: (208) 375-5000 www.hydroblend.com	5301 SAWYER AVENUE BOISE, ID 83714	HYDRO · BLEND		



PART NO.

DESCRIPTION

201-500MNPT

203 - 500T

Check Valve -1/2 MNPT - Viton Seal Teflon Check Ball - Hastelloy Spring -

Kynar

Body

4

Screw - 6-32 x 1-1/2 - Round Head SLTD - 18-8 SST

Jaco Male Connector -3/8 Tube $\overline{\text{OD}}-1/2$ MNPT - Polypro

QTY.

2

217

Washer

257K

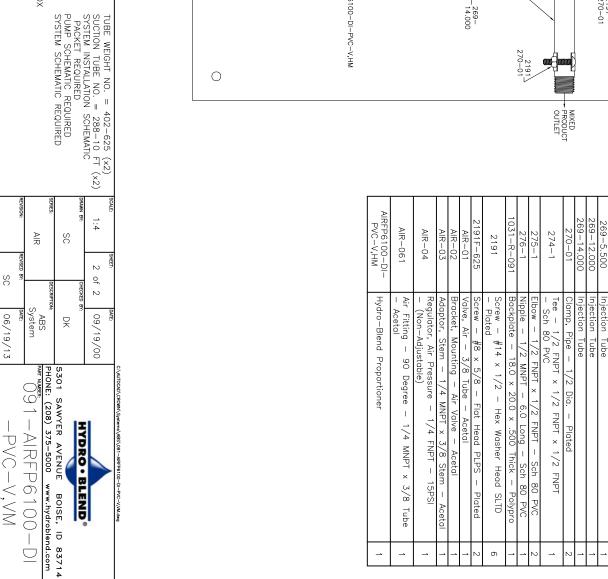
Nut — Hex Keps with Tooth Washer — Wd 5/16 x Ht .105 — 6-32 — Plated

4

261

Foot - Rubber

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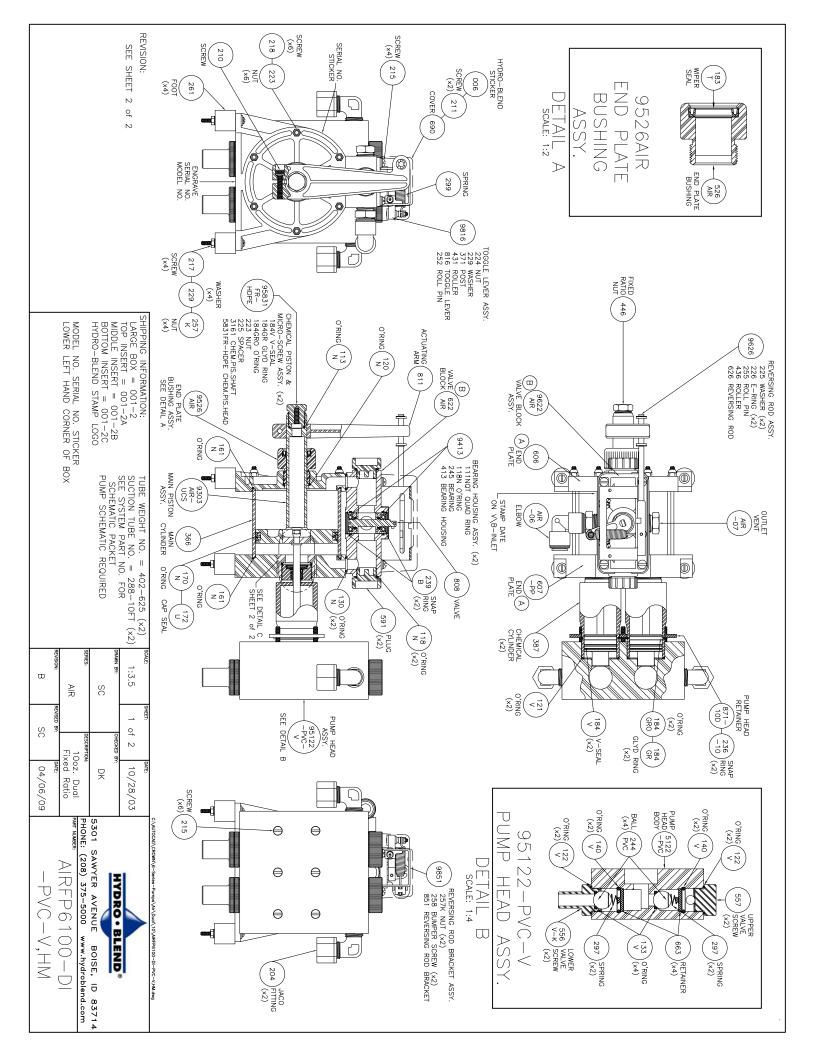
REVISION:

SHIPPING INFORMATION: SYSTEM BOX = 001-4 FOAM PACKAGED (25 x 25 x

20)

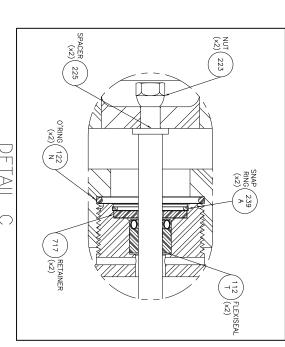
MODEL NO. SERIAL NO. STICKER LOWER LEFT HAND CORNER OF BOX

HYDRO-BLEND STAMP LOGO



REVISION: (A) ADDED O'RING COUNTER BORE TO TOP OF ENDPLATE, 10/17/07.

(B) REDUCED O'RING COUNTER BORE DEPTH ON BOTTOM OF VALVE BLOCK, 11/07/07.



DETAIL scale: 1:1

SHIPPING INFORMATION:
LARGE BOX = 001-2
TOP INSERT = 001-2A
MIDDLE INSERT = 001-2B
BOTTOM INSERT = 001-2C
HYDRO-BLEND STAMP LOGO

MODEL NO. SERIAL NO. STICKER LOWER LEFT HAND CORNER OF BOX

TUBE WEIGHT NO. = 402-625 (x2)
SUCTION TUBE NO. = 288-10FT (x2)
SEE SYSTEM PART NO. FOR
SCHEMATIC PACKET
PUMP SCHEMATIC REQUIRED ₽R SC

NOTED w N SC of 2 10oz. Dual Fixed Ratio 04/06/09 10/28/03 뭇 PHONE: HYDRO · BLEND

5301 SAWYER AVENUE BOISE, ID 83714 PHONE: (208) 375-5000 www.hydroblend.com AIRFP6100-DI

-PVC-V,HM

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:

1. Air motor will not run.

CAUSES:

- A. Air turned off to unit.
- B. Discharge lines shut off or clogged.
- C. Proportioner stalled; proportioner operates intermittently-then stalls.
- D. Weak or broken toggle lever spring.
- E. Actuating arm out of adjustment.

- 2. Will not draw chemical.
- A. Air motor not working.
- B. Pump head seals dry.
- C. Upper or lower valve screws sucking air.
- D. Pump head screws loose. Sucking air.
- E. Foreign material on ball seat. Concentrate has caused balls to stick.
- F. Excessive discharge backpressure.

CORRECTIONS:

- A. Turn air on to unit.
- B. Check to be sure lines are clear and all system valves are open and working.
- C. Air inlet pressure has dropped.
 Relieve downstream backpressure: if unit restarts, there
 is no problem.
 If unit does not restart, there
 may be valve block failure.
- D. Replace spring (part # 299)
- E. Relocate actuating arm to .400" from back of chrome shaft.
- A. Check motor per item 1 above A through E.
- B. Remove top valve screw, flood cavity with water. Replace spring and valve screw carefully. Start unit.
- C. Tighten fittings-hand tighten only.
- D. Tighten 6 screws located on pump head face.
- E. Remove valve balls carefully, flush and clean valve seats and balls, springs and valve screws.
- F. Relieve downstream backpressure until unit is primed.