I. AUTOMATIC TIMER FLUSH PACKAGE

**Description:** The ATF valve package insures that the particulate that falls down to the debris reservoir is automatically flushed. The power control and timer controls for the valve package are housed inside the ATF control box. Depending on the application, the end-user simply dials in the flush frequency and flush duration of the valve (instructions below). Based on the parameters that are programmed, the ball valve quickly opens and closes, minimizing the volume of water that is flushed from the strainer.

**Installation Instructions:**
The following instructions are to be used as a guide when installing the ATF on to an existing Thompson Strainer, with an existing PDA Package. In the case of Installing the ATF alone, omit steps 2 through 4, and then route the power supply cord through the plastic wire clamp and insert the low-voltage plug coming from the wall power supply into the jack in the bottom of the ATF timer enclosure.

1. Carefully thread the electric operating valve onto the flush port of the strainer, with the control switch facing away from strainer (be careful not to cross-thread when installing).
2. Route the coiled cord through the plastic wire clamp and insert the plug into the jack on the bottom of the timer enclosure.
3. Route the other end of the coiled cord through the wire clamp on the PDA enclosure and insert the plug into one of the jacks on the bottom of the PDA enclosure.
4. Insert the low-voltage plug coming from the wall power supply into the other jack on the bottom of the PDA enclosure.

**Operation Instructions:** FLUSH VALVE MUST BE PLUMBED TO ATMOSPHERE. THE FLUSH LINE SHOULD NOT HAVE ANY ELEVATION AND SHOULD NOT BE PIPED TO A PRESSURIZED LINE.

**Note:** THE AUTOMATIC TIMER FLUSH PACKAGE NEEDS TO BE PROGRAMMED WHEN IT IS RECEIVED BY THE END-USER. The programming is simple and takes only a few moments. However, because every application has different parameters that affect the required frequency between flushes and the duration of the flush, the end-user must choose the controller’s settings (please reference your strainer manual).

**To program the ATF Controller:**
- Insert the 12-VDC plug coming from the Power Supply, or PDA unit, into the jack on the underside of the ATF box.
- Plug the Power Supply into a 120-VAC outlet.

**Please Note -** In the case of an “Outdoor” use application, where there is a chance that the unit could get wet, it is the Customer’s responsibility to provide a safe power outlet, in terms of being water proof, and physically able to accept the plug-in power supply we provide. Miller - Leaman, Inc. also recommends that the installation be only preformed by a qualified electrician, and that all Local, State, and National Electrical Codes be followed.

- Test for power by momentarily pressing the manual flush side of the control switch (lower switch light should come on and the valve will start to open).
- Adjust the ON TIME (Valve Open) by turning the inner timer ring with the GREEN POINTER clockwise to increase duration. The ON TIME RANGE is factory set at eight seconds. (see illustration above)
- Adjust the OFF TIME (Valve Close) by turning the outer ring with the RED POINTER clockwise to increase duration. The OFF TIME RANGE is factory set at twenty-four hours. (see illustration above)
- Set the control switch to auto flush. The red off light on the timer will come on and the upper light on the switch will come on and stay on. During the flush cycle the on light on the timer and the lower switch light will come on.

**Control Switch:** (see illustration above)
Control switch flushing is initiated by pressing and holding down the manual control switch located on the front of the controller. The manual flush control switch can also be used to conveniently drain the water out of the strainer before removing the conical screen element from the strainer housing. A yellow indicator arrow on top of the ATF Valve will rotate in sync with the ball valve to show the valve position (open or closed). When the manual flush control switch is released, the valve will automatically close.

**Please Note - when the Control Switch is not in the AUTO position, the timer is disabled, and there will be no Timed Control of the Flush Valve - Only Manual Flush when the Control Switch is pressed to MANUAL.**
SAFETY FIRST! Keep fingers away from valve opening to avoid getting caught in the moving parts. The electric motor supplies a sufficient amount of power to cause personal injury. Take precaution when handling.

II. GENERAL INFORMATION

Water Resistance: The Valve and Controller are water-resistant, but not water-proof. Do not install below ground level where the component can be submerged in water. Only remove the cover plate from the Valve Controller when setting or changing the flush settings. Keep the cover tightly sealed on the unit during normal operation.

Miller-Leaman, Inc. Return Policy: New units or units less than 90-days old needing repair under warranty conditions must be returned to MLI and must be accompanied by a Return Material Authorization (RMA) Number. To request a RMA Number call (386) 248-0500.

Please Follow Environmental Note: All ATF valves sent to MLI for repair must be cleaned and the valve rinsed and dried from all foreign residue or the shipment will be returned “as is” to the customer. We cannot expose our technicians to the vast variety of chemicals used with the valve. Thank you for your cooperation.

Maintenance: The ATF does not require regularly scheduled or annual maintenance. Valve leakage should be checked twice a year. If leakage is visible consult your troubleshooting chart for possible solutions.

AUTOMATIC TIMER FLUSH (ATF)

Valve Specifications
A. Water-resistant Polypropylene Actuator Motor Case
B. High Torque Motors with Permalube Gears
C. Open & Close Indicator
D. Ball Valve & Hardware
E. Auto Reset Circuit Breaker
F. 90 Degree Bi-directional Rotation
G. Controller Case
H. Easy Programmable Timer

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Flushport NPT Size</th>
<th>Valve Material</th>
<th>Maximum Pressure</th>
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<tbody>
<tr>
<td>ATF-EA-.75</td>
<td>3/4&quot;</td>
<td>Nylon</td>
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<tr>
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<tr>
<td>ATF-EA-3</td>
<td>3&quot;</td>
<td>Poly</td>
<td>100 PSI @ 70 deg. F</td>
</tr>
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TROUBLESHOOTING: If you require further assistance, please call us at (386) 248-0500.
III. ATF WIRING SCHEMATIC

SWITCHING POWER SUPPLY
INPUT 120VAC
OUTPUT 12VDC@ 2.0 AMP
to POWER INPUT JACK
OR -
use 12 VDC cable from
PDA Connector 1 OR 2

12VDC Power INPUT JACK

LIGHTED ROCKER SWITCH
AUTO (VALVE OPERATES ON TIMER)
MANUAL (VALVE OPENS MOMENTARY)

Miller-Leaman, Inc
06/14/05 M.FINCKE (KV)