AccuPurge Automatic Valve For SandMaster

AP-75-MBV

A Motorized Ball Valve for Automatically Purging Separated Sand from LAKOS Residential Separators

This easy-to-program automatic valve eliminates routine maintenance and assures proper periodic purging of sand & grit from a LAKOS Separator's purge collection chamber. No need to take the unit apart for programming. Durable componentry. LED display for programming and "valve open" indicator.

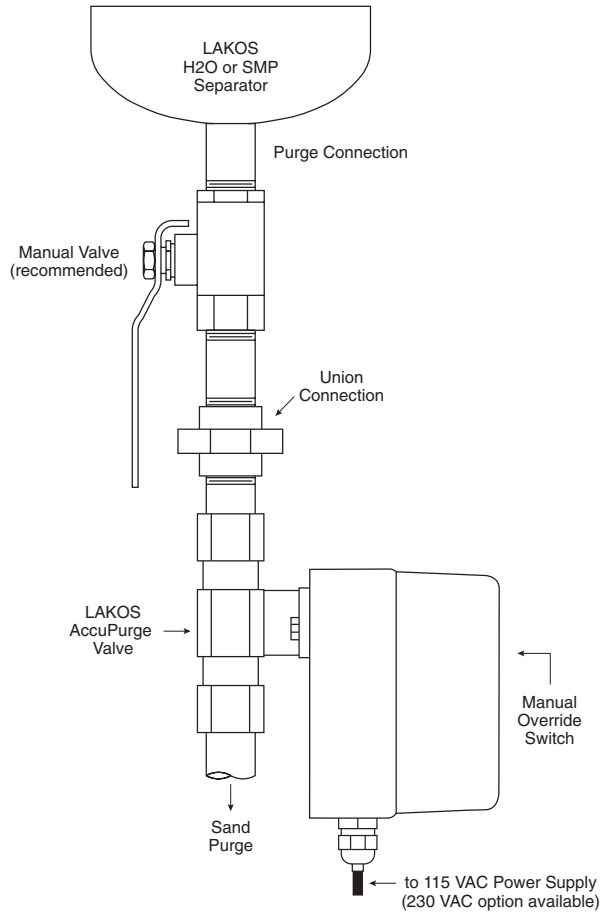
Available for either 110VAC or 220VAC (same unit), this unit comes with a standard 3-prong grounded plug for easy installation. Manually starting a purge cycle is as easy as pressing one button on the valve controller box.

Purge intervals can be set as often as every 4 minutes or as seldom as every 24 hours. Purge duration can be set at 20 seconds (recommended minimum) or as long as 15 minutes (note: longer purge duration is only needed when the purge line is greater than 2-3 feet from the valve to open discharge). Typical purge duration is 20, 25 or 30 seconds max.

Installation

The valve may be installed in any position at the purge connection of the LAKOS Separator (see illustration for placement suggestion and recommended accessories). A manual valve between the separator and the automatic valve will allow for potential servicing of the automatic valve. Do not reduce the purge line size. Avoid excessive elbows or uphill piping, which could clog the purge line. Avoid installing the AccuPurge in excessive direct sunlight, as the plastic housing could warp and compromise the seal for this unit. A shaded installation is recommended. Also, avoid submergence in water or the direct spray of irrigation sprinklers.

Typical Installation



Battery Backup

Battery-powered backup provides a "fail-safe" to close the valve if power should be interrupted while the automatic valve is in the open position. Requires four AA batteries (not included with the valve). The unit will not continue operating until power is restored.

Open the housing by inserting a Phillips screwdriver into the four top slots. Remove the cover and place four AA batteries into the provided cradle, noting proper polarity. Replace the cover, using care to position the gasket.

See reverse for additional specifications

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Programming

The program is set by selecting purge duration and purge frequency. Purge duration is how long the valve will stay open and is displayed with **letters** that will correspond to a purge duration time (see Purge Duration Chart below). Purge frequency is how often the valve will open and is displayed with **numbers** that correspond to a purge frequency time (see Purge Frequency Chart below).

1. Press the SET and TEST buttons simultaneously.
2. Press the SET button to select the desired **letter**.
3. Press the TEST button to confirm selection.
4. Press the SET button to select the desired **number**.
5. Press and hold down the TEST button until the valve opens. The valve should open for the selected duration, and start the cycle.

Note: Holding down the TEST button will manually purge the valve and restart the program.

Purge Duration Chart

Program	Time (Including the 7-second rotation time)
A*	7 seconds (rotation non-stop)
B*	10 seconds
C*	15 seconds
D	20 seconds
E	25 seconds
F	30 seconds
H	45 seconds
L	1 minutes
P	5 minutes
O	15 minutes

*Not recommended
Setting "D" should be used for minimum duration

Purge Frequency Chart

Program	Time
0	4 minutes
1	8 minutes
2	15 minutes
3	30 minutes
4	1 hour
5	2 hours
6	4 hours
7	8 hours
8	16 hours
9	24 hours

Specifications

Model: AP-75-MBV

Connection Size: ¾-inch, female, NPT

Product Weight: 1.5 lbs.

Operating Temperature: 32-140° Fahrenheit (0-60° Celsius)

Housing: Weatherproof, IP65 rating

Valve Type: Nickel-plated brass, stainless steel ball

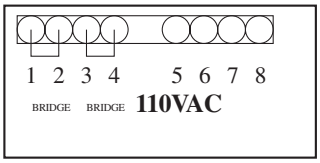
Maximum Pressure: 150 psi (10.3 bar)

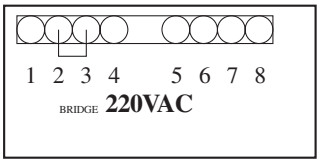
Battery Backup: 4 qty. "AA" size 1.5v DC (not included)

CE Compliant

Converting from 110v to 220v Operation

The AccuPurge Valve is pre-set for 110 volt operation. To convert to 220 volt operation, first remove the actuator's cover and look for the terminal strip near where the power cord enters the actuator box. Loosen the screws on terminals 1-4. There are two copper "bridges" inserted into the side of the strip (one at terminals 1 & 2, one at terminals 3 & 4). Remove these bridges and insert one of the bridges at terminals 2 & 3 (Note: It may help to loosen the power cord to better gain access to the bridges; a needle-nose pliers will also help). Re-tighten screws 1-4. Replace cover.





Lakos Separators are manufactured and sold under one or more of the following U.S. Patents:
5,320,747; 5,338,341; 5,368,735; 5,425,876; 5,571,416; 5,578,203; 5,622,545; 5,653,874; 5,894,995; 6,090,276; 6,143,175; 6,167,960; 6,202,543; 7,000,782; 7,032,760 and corresponding foreign patents, other U.S. and foreign patents pending.

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