



# AccuPurge Automatic Valve For SandMaster

**AP-75-MBV**

## A motorized ball valve for automatically purging separated sand from LAKOS Sand 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.

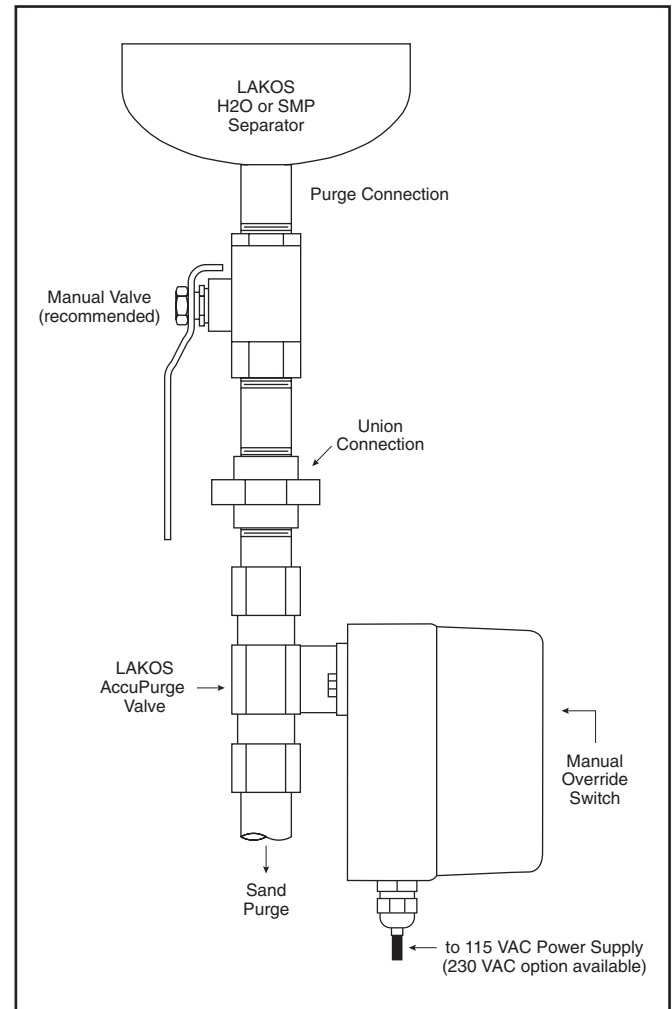
Purge intervals can be set as often as every 4 minutes or as seldom as every 24 hours. Purge duration can be set at 20 seconds (recommended minimum) or as long as 5 minutes (note: longer purge duration is only needed when the purge line is greater than 2-3 feet from the valve to open discharge). Typical purge duration is 20, 25 or 30 seconds max.

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).

## 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). Recommend a manual valve between the separator and the automatic valve to 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.

See reverse for additional specifications



## Installing the Fail-Safe Batteries



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.

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## Purge Settings

Apply power to the AccuPurge. Note the PURGE INTERVAL CHART, indicating a "Program Number" for selected purge intervals and a corresponding purge interval time to the right. Press the SET button until the desired program number appears.



To set the purge duration, see the PURGE DURATION CHART and note the "Program Letter" for selected purge durations and a corresponding purge duration time to the right.

1. Press the SET and TEST buttons simultaneously.
2. Press the SET button until the desired letter appears.
3. Press TEST to confirm the selection.
4. Press and hold down TEST until valve opens. Valve should open for the desired time (NOTE: Purge duration time is the cumulative time for the valve to open, remain open and close.)

### Purge Interval Chart

| Program No. | Interval Time |
|-------------|---------------|
| 0           | 4 min.        |
| 1           | 8 min.        |
| 2           | 15 min.       |
| 3           | 30 min.       |
| 4           | 1 hr.         |
| 5           | 2 hrs.        |
| 6           | 4 hrs.        |
| 7           | 8 hrs.        |
| 8           | 16 hrs.       |
| 9           | 24 hrs.       |

### Purge Duration Chart

| Program | Purge Duration Chart                         |
|---------|--|
| D       | 20 second rotation (valve stays open 13 s)   |
| E       | 25 second rotation (valve stays open 18 s)   |
| F       | 30 second rotation (valve stays open 23 s)   |
| H       | 45 second rotation (valve stays open 38 s)   |
| L       | 1 minute rotation (valve stays open 53 s)    |
| P       | 5 minute rotation (valve stays open 4m 53 s) |

## Specifications:

**Model:** AP-75-MBV

**Connection Size:** 3/4-inch, female, NPT

**Product Weight:** 1.5 lbs.

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

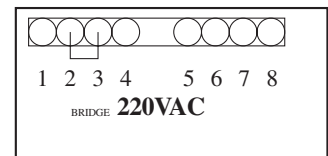
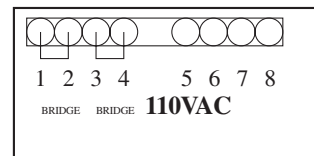
**Housing:** Weatherproof, IP65 rating

**Valve Type:** Nickel-plated brass, stainless steel ball

**Maximum Pressure:** 150 psi (10.3 bar)

## 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.

**LAKOS**  
Separators and Filtration Solutions

1365 N. Clovis Avenue • Fresno, California 93727 USA  
Telephone: (559) 255-1601 • Fax: (559) 255-8093  
www.lakos.com • info@lakos.com