

## OPERATING INSTRUCTIONS & PARTS MANUAL

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described, protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for further reference.

### AUTOMATIC FLUSH VALVE

#### DESCRIPTION

Automatic Flush Valves are motorized ball valves used to automatically drain water and small debris from filters.

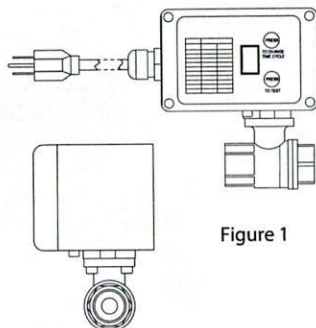


Figure 1

#### SPECIFICATIONS

Adjustable cycle time . . . . .	1 min – 14 days
Max. working pressure . . . . .	200 PSIG
Ambient temperature . . . . .	35°F to 165°F
Enclosure . . . . .	NEMA 4
Voltage . . . . .	12VDC
Current . . . . .	0.83 Amps
Valve construction . . . . .	Lead Free brass NSF/ANSI 372
Seals . . . . .	Reinforced Teflon
Discharge volume . . . . .	3.1 (gal. per cycle @ 80 PSI)
Power adaptor . . . . .	120V AC 20'
Full-Port ball valve . . . . .	1/2" NPT
Discharge time . . . . .	.7 seconds non-adjustable

### GENERAL SAFETY INFORMATION

Do not apply electrical power to the unit unless the unit is fully assembled and mounted. Failure to do so could result in personal injury and/or damage to the unit. Disconnect power source and depressurize the system before working on the unit. Failure to do so could result in personal injury. The downstream or discharge side of the ball valve must be directed to a safe area for collecting water and debris.

#### WARNING

The motorized drive unit case is not capable of supporting any loads. Do not attempt to use the unit as a step. This will cause damage to the unit and could cause personal injury. Do not use in hazardous locations.

#### CAUTION

It is recommended that eye protection be worn while servicing the system. Failure to do so could result in personal injury.

Do not use the case as leverage when mounting this unit or tightening fittings. Use the wrenching flats on the valve body.

It is highly recommended that a surge protector is used to prevent damage to the AFV.

#### WARNING

Always disconnect power source before working on this unit. Failure to do so could result in personal injury. The valve is under pressure. Discharge of pressurized water will occur during any cycling of the ball valve when unit is installed in the piping system. Eye protection is recommended.

#### INSTALLATION

The Automatic Flush Valve must be mounted to a supportive base. DO NOT suspend the unit directly from the water filter. The AFV has 6 holes on the back of the unit. The four larger holes are used for securing the faceplate to the unit. The 2 smaller holes are used to mount the unit directly to a supportive base. (Remove the faceplate to mount unit to base)

This unit may be mounted in either direction (Horizontal/Vertical). Vertical installation is recommended for optimum performance. All necessary connections and tubing are provided in our optional AFV-KIT. If purchasing from another source, please make sure that 1/2" braid reinforced flexible pvc tubing with a 215 psi rating is used.

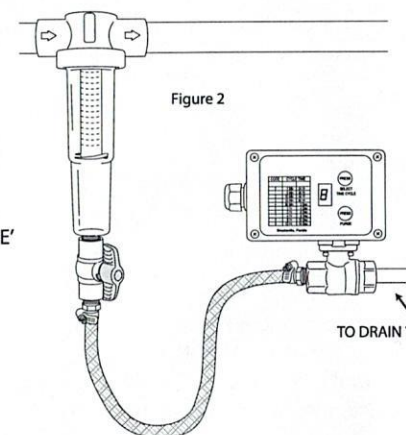
AFV-KIT includes:

- (2) 1/2" Barb x 1/2" NPT Male Hose Fittings
- (2) SAE Size 8 Stainless Steel Worm Drive Clamps
- (24") 1/2" Braid Reinforced Flexible PVC Tubing (215psi)
- (1) Roll of Thread Seal Tape

Figure 2 shows typical installation of the flush valve.\* It is recommended that the motorized drive be removed from the valve before piping the valve into your system. Then reinstall the motorized drive unit to the valve. This can be done using quick release clip holding the valve to the case.

\*Note: This unit may be mounted in any position with the flow in either direction.

1. Depressurize the system for safety.
2. Install the automatic flush valve after the filter purge valve.
3. Pipe the opposite end of the automatic flush valve to the discharge area.
4. Open filter purge valve.
5. Pressurize the system.
6. Connect power to the Automatic Flush Valve.
7. Test the Automatic Flush Valve using the 'PURGE' button.
8. Choose timer settings using the 'SELECT TIME CYCLE' button.





## OPERATION

Plug the power adapter into a proper power source. The unit will initiate a discharge cycle and the timing sequence will begin. The 'PURGE' button may be used to cycle the valve at any time, without disrupting the timing sequence.

## TO CHANGE THE TIMING SEQUENCE

The face of the unit has a chart with two columns for selecting the timing sequence. The activated column is designated by the lighted arrow at the top. To change the timing sequence, choose the required frequency of operation from the chart on the face label. Then, scroll to the required timing sequence by using the "SELECT TIME CYCLE" button until the code number and activated column match your required setting. Once the required setting is set, the new time cycle will begin.

## MAINTENANCE

Periodic maintenance is recommended to ensure long, dependable service from your AFV. Check power cord for breaks in the outer jacket or damage to the plug. The case should be kept clean so that label instructions are legible. The ball valve should be checked for leakage at the downstream side.

TROUBLESHOOTING CHART

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Valve does not cycle	Proper power is not reaching unit Timer set improperly	Check that power cord is plugged into the proper power source. Check power source. Push purge button. Reset timer.
Ball valve leaks at discharge side	Excessive seat damage from debris	Push purge button to flush valve. Replace ball valve.
Unit cycles but does not discharge water	No pressure upstream Valve or line clogged with debris	Check that system is pressurized. Disconnect power. Remove ball valve and check for blockage in the valve and the line.
Immediate purge required	On-demand purge needed	Press 'purge' button once. Cycle time is not disrupted.

## WARRANTY INFORMATION

Removal of power cord or plug voids warranty. Warranty is also void if unit is returned without all original parts. Warranty does not apply to product failure resulting from wear from ordinary use, misuse, abuse, accident, neglect or mishandling of the product. See product literature for complete warranty description.

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