

SEDIMENT FILTRATION



AUTOMATIC FLUSH VALVE



Specifications

Adjustable Cycle Time	1 minute to 14 days
Non-Adjustable Flush Time	7 seconds
Flush Volume	3.1 gal/cycle @ 80 psi
Working Pressure	200 psig
Ambient Temperature	35°F to 165°F
Voltage	12 VDC
Current	0.83 amps
Enclosure	Nema 4
Valve Construction	Lead-free brass NSF/ANSI 372
Seals	Reinforced Teflon
Full-Port Ball Valve	1/2 inch NPT
Power Adapter	120 VAC, 20 ft cord

Order Information

Part Number	Description
UR-AFV	Automatic Flush Valve
UR-AFV-HOSE KIT	AFV Hose Kit — includes (2) 1/2 inch barb x 1/2 inch MNPT hose fittings; (2) SAE size 8 stainless steel worm drive clamps; (1) 24 inch length of 1/2 inch braid reinforced flexible PVC tubing (rated at 215 psi)
UR-AFV-VLV	Replacement brass valve only

The Automatic Flush Valve (AFV) is designed for use with SWT's Inline Centrifugal Sediment Filters when manual flushing is inconvenient, impractical, or undesirable. The AFV makes sediment filter maintenance easy and automatic. Simply attach the AFV to the centrifugal filter's purge valve, program a cycle time, and the filter will automatically flush at the selected time interval.

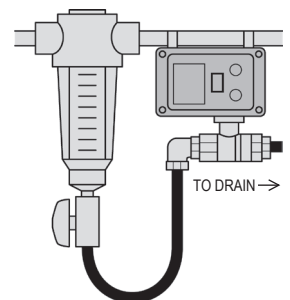
Installation

The automatic flush valve must be mounted to a supportive base. DO NOT suspend the AFV directly from the inline centrifugal sediment filter. The automatic flush valve has six holes on the back of the unit. The four larger holes are used for securing the faceplate to the unit. The two smaller holes are used to mount the unit directly to a supportive base. Remove the faceplate to mount the unit to a base.

This unit may be mounted horizontally or vertically. Vertical installation is recommended for optimum performance. All necessary connections and tubing are provided in the AFV Hose Kit (P/N UR-AFV-HOSE KIT). If purchasing from another source, please make sure that 1/2 inch braid reinforced flexible PVC tubing with a 215 psi rating is used.

1. Wrap thread seal tape around threads of barb fitting male end before threading into pvc and brass ball valves.
2. Secure flexible tubing to barb fittings at hose end with clamps.

WARNING: Do not apply electrical power to the unit unless the unit is fully assembled and mounted. Always disconnect power source before working on this unit. The valve is under pressure. Discharge of fluids will occur during any cycling of the valve when unit is installed.



Suggested Installation

Operation

Plug the cord set into a proper power source. The automatic flush valve will cycle and the timing sequence will begin. To change the timing sequence, simply change the code setting (0-9) 1 minute to 14 days, and the timer will reset. The purge button may be used to cycle the unit at any time. Flush time is 7 seconds and cannot be adjusted.

Maintenance

Periodic maintenance is recommended to ensure long, dependable service from the automatic flush valve. Check power cord for breaks in the outer jacket or damage to the plug. The valve should be checked for leakage at the downstream side and all connections from the valve to the filter.

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Troubleshooting

Symptom	Possible Causes	Corrective Actions
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.

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 the power source and depressurize the system before working on the unit. Failure to do so could result in personal injury. The 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.

CAUTIONS

- 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 be used to prevent damage to the AFV.