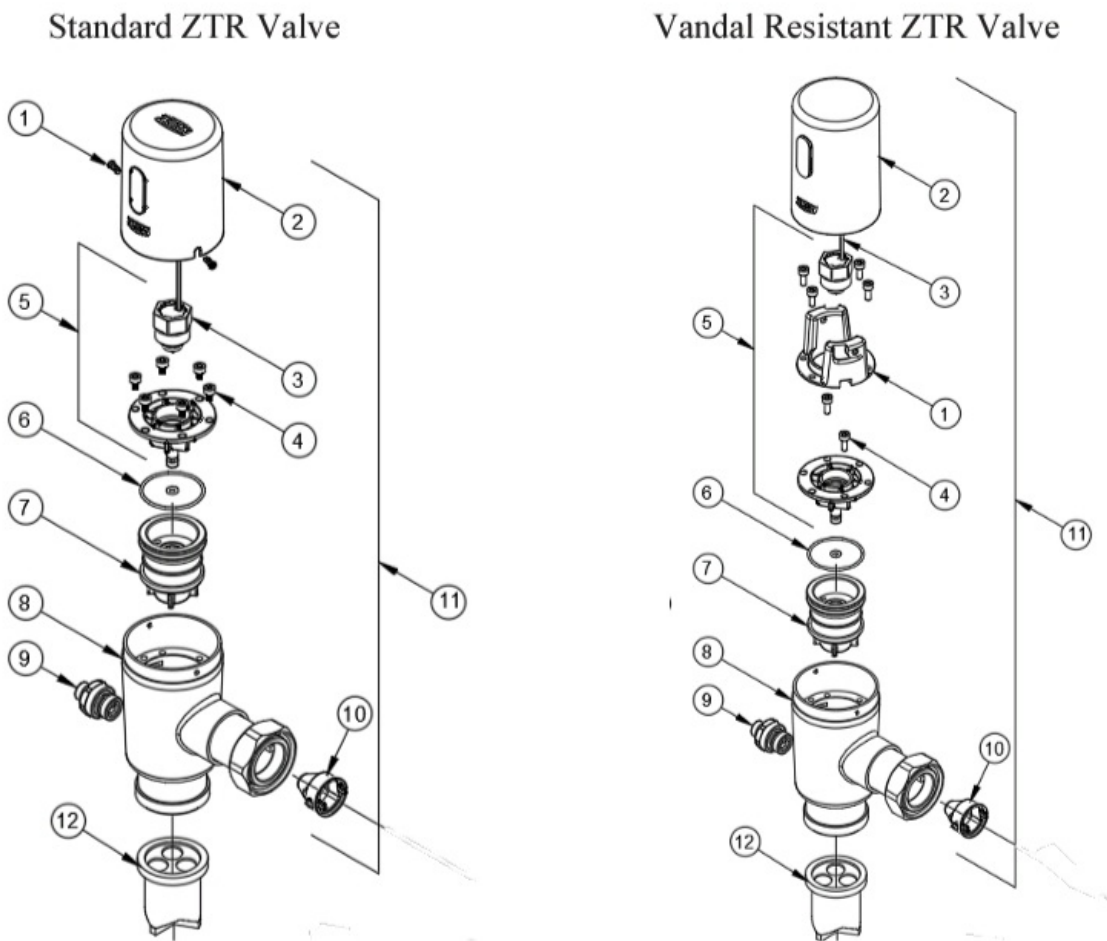


ZTR Valve Exploded View and Parts List



PARTS IDENTIFICATION

1.	Cover Screw	Pending
2.	Valve Cap/Sensor Assembly	99442577
3.	Solenoid	99442578
4.	Piston Cover Screws	99720935
5.	Solenoid Kit	99442578
6.	Flange O-Rings	99720934
7.	Piston Kit	99442579
8.	Valve Housing	99720932
9.	Manual Override Button	99442580
10.	Filter	99590840
11.	Valve Assembly	Pending
12.	Vacuum Breaker	99310239, 99888483

PARTS IDENTIFICATION

1.	Cover Screw	Pending
2.	Valve Cap/Sensor Assembly	99865123
3.	Solenoid	99442578
4.	Piston Cover Screws	Pending
5.	Solenoid Kit	99442528
6.	Flange O-Rings	99720934
7.	Piston Kit	99442579
8.	Valve Housing	99720932
9.	Manual Override Button	99442580
10.	Filter	99590840
11.	Valve Assembly	Pending
12.	Vacuum Breaker	99310239, 99888483

Note: Determine which valve you have by the number of cap screws. The standard ZTR cap has 2 cap screws, one on each side of the sensor lens. The Vandal Resistant ZTR cap only has 1 cap screw to the left of the sensor lens.

Refer to parts list above for part identification during cleaning process.

TROUBLE SHOOTING GUIDE

PROBLEM	INDICATOR	POTENTIAL CAUSE	SOLUTION
Valve does not flush	No lights on sensor board	Batteries not making contact Batteries reversed polarity	Remove and reinstall batteries correctly - See step 5A for reference
	Sensor flashes (red) every 10 seconds	Low battery voltage indication	Replace batteries - see Step 5A for reference
	Sensor flashes (red) every 30 seconds	Continuous target detection of object within sensor range	#1 Inspect and clean lens
			#2 Identify and remove any target from sensor field
			#3 Reduce sensor range distance (see page 8 for Sensor Range Adjustment instructions).
	Sensor detects user but fails to flush upon exiting sensor range	Batter power level too low to activate full flush - sensor board automatically shuts down to avoid open flush	Replace batteries See Step 5A for reference
		Dirty sensor lens	Clean lens until free of debris
	No target detected	Loose or damaged solenoid connection	Inspect connection between solenoid and sensor for proper insertion - step 4
Install environment may require adjustment of the sensor range from the factory settings		Re-calibrate sensor range - see Sensor Range Adjustment (Figure 28) page 11	
Valve does not shut off water (continuous flow)	Normal target detection	Water pressure either too high or too low	Adjust water pressure to recommended range: 35 to 80 psi running water pressure
		Piston and / or solenoid plugged or damaged	Remove Piston and / or Solenoid to examine for damage or plugging. Clean piston / solenoid orifice if plugged. Replace solenoid kit if solenoid diaphragm is damaged.
		Low or no power allowing solenoid to move to open position but not enough power to return to closed position.	Replace batteries or restore power if hardwired.
		MOB (mechanical override button) sticking in open position	Replace MOB.
Valve flows low (short flushing)	Valve does not evacuate fixture	Tailpiece filter is clogged with debris	#1 Turn stop off #2 Remove valve from stop and fixture #3 Inspect/clean filter (see parts breakdown - Part number 10)
		Piston orifice is enlarged	Replace piston
		Flush valve rating does not match fixture flush rating	Replace flush valve to match fixture flush rating
Ghost flushing	Flush valve activates without target present.	Highly reflective environment Sensor range set too far, picking up other objects.	Re-calibrate sensor range - see Sensor Range Adjustment
Continuous flushing	Valve flushes every 30 seconds.	Magnet stored in sensor cap.	Remove magnet from sensor cap. Do not store magnet in flush valve.
Electronic Control Board	Cannot adjust sensor range	Processor latched	Reset electronics module by removing cap, disconnect power connector and shorting terminals together. Reconnect power, allowing 30 seconds to complete power up sequence.
	DIP switch settings	Configuration changes to DIP switches	Remove cap from valve and disconnect power. Move DIP switch to desired position. Reconnect power, allowing 30 seconds to complete power up sequence.