

EBVF Series Battery Maintenance

Plast-O-Matic EBVF actuators may include a failsafe battery unit, allowing the actuator to fail open or fail close in the event of power loss. This document is for assessing the battery in the field and should be part of a scheduled maintenance plan.

The failsafe battery requires 28 hours to fully charge, which allows for the battery to complete 10 cycles without recharging.

PRIOR TO USE: EBVF actuators equipped with a failsafe battery are NOT CHARGED prior to shipment, and must be charged fully before use.

AFTER POWER LOSS: It is recommended to let the battery recharge for 15 minutes (48 minutes for EBVF-3, EBVF-4, TEBVF-7, and TEBVF-8 actuators) after every power cycle.

Power cycle the battery 5 times without recharging to start the maintenance procedure. To power cycle the battery:

1) For fail-closed actuators, place the actuator in the open position. For fail-open actuators, place the actuator in the closed position.

NOTE: Make sure that the valve is not jammed and is able to move freely when performing maintenance.

2) Remove the Power from the actuator.

3) Wait for the actuator to complete its cycle with the battery. Watch the LED indicator light for status, referring to the LED patterns shown below. The Battery will keep the unit powered for 3 minutes until it will shut itself down to conserve power.

Actuator without power, working with the NO system. Max.3 min., led off	
Actuator without power, working with the NC system. Max.3 min., led off	
Battery protection. Danger, the battery needs recharging. Fail Safe blocked	

4) If the Battery Protection light goes off, please fully recharge the battery and try the maintenance procedure again.

5) Repeat steps 1-3 until 5 cycles are complete. If the actuator is able to completely turn the valve without issue, the battery is fully functioning. If the battery is unable to turn completely, recharge the battery fully and try again. If the battery is unable to turn the valve 90°, the failsafe battery unit must be replaced; please contact your distributor.

For further assistance, please contact the Plast-O-Matic Technical Group at +1 973-256-3000

