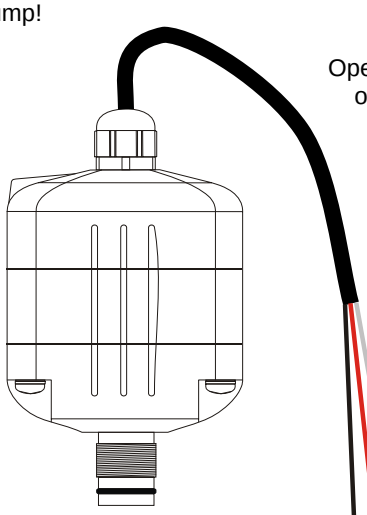
Wiring of an Automatic Back-Up Pump using EW Metering Pumps and a PosiFlow Sensor



Worried about your pump losing prime? Why not add a 2nd pump to your system to ensure that chemical injection will not be interrupted? Using two Walchem EW Series pumps and a PosiFlow sensor, it is easy to implement a back-up pump system.

Using an EW-Y pump as the primary pump, mount a PosiFlow directly into the pump's manual air vent valve (or in the discharge line with 31/36 sizes) and connect it straight into the PosiFlow input connection on the EW-Y control module. In the User Program Menu, the FL.CHK option will need to be changed from OFF to either A, B, or C modes.

The 2nd pump can be any pump that fits the application, but will be an EW-F pump for this example. Wiring from the OUTPUT 1 terminals of the primary pump (EW-Y) should be wired into terminals #1 and #4 of the EW-F pump connector 2 (STOP INPUT). Any two-wire cable (18AWG or lower) can be used. The programming of the EW-F pump will have to be changed so that the N.O. condition of the STOP input is reversed to N.C. (see instruction manual for details). Set the back-up pump to run via an EXT digital signal (not shown) or in manual operation at the desired setting. Plumb and prime the liquid end, and this pump is now your back-up pump!

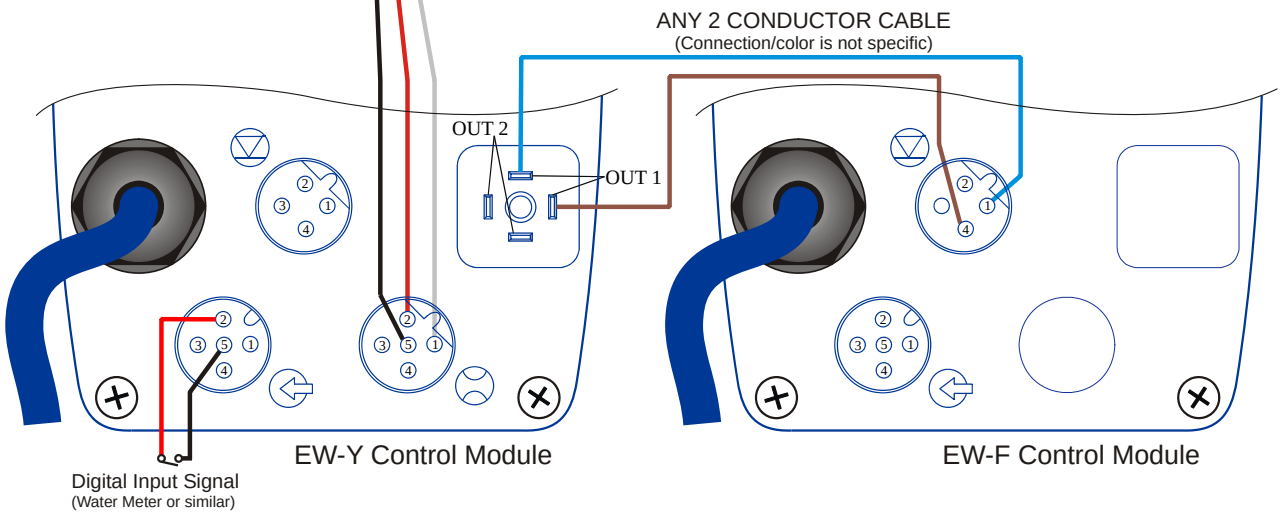


PosiFlow Sensor

Operate the primary pump in any configuration – multiplying or dividing signals from a digital output, analog control, or manual control. When the pump detects no flow from the PosiFlow, it will stop the pump and trigger the OUT 1 relay, which will un-STOP and start pump operation of the back-up pump. The back-up pump can be operated in either manual mode or via the same external signal running the primary pump. Consult your distributor for further wiring details. Once the primary pump is reset and back operational, the back-up pump will once again go automatically into standby mode.

Materials Required: EW-Y pump, EW-F pump, PosiFlow Sensor, (1) E90496, (1) E90497 & (1) E90495 connectors, 2-conductor cable.

Additional Options: Use the STOP Input on the primary pump from a level sensor to detect an empty tank and have the back-up pump pull from its own source. Program and use OUT 2 as an alarm indicator that the main tank is empty. The back-up pump will take care of dispensing until someone can get to the site to refill the main source tank. (1) E90494 connector required for Stop Input.



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