

SERIES EBV / EBVA CHANGEOVER

How to change the wiring from the older EBV65 or EBV104 Ball valve actuator to the new EBVA type ball valve actuator.

NOTE: This does not cover the modulating EBVA actuator (4-20 mA or 0-10 VDC), and applies only to the replacement of the old EBV unit with the new EBVA unit.

If you are simply replacing an EBV65 or EBV104 actuator with the new EBVA type actuator on a ball valve, following these instructions will lead to a successful change-out.

- If you do not have remote open/close sensing; i.e. there are no wires going to terminals 5 and 6 on the old EBV, **follow part A** instructions.
- If you do have remote indication **follow part A, and then part B.**

The new EBVA actuator comes with connectors known as DIN connectors. They meet the European specification DIN 42650. To gain access to the terminals inside the connector, you need a small screwdriver. Looking at the face of the connector you'll see a small rectangular slot on one edge. Remove the metal screw that secures the connector to the actuator and insert the screwdriver blade into the slot and twist and the inside part of the connector will pop out.

Part A

On the old EBV unit there are (4) wires entering the unit. Terminal 1 is the neutral wire, Terminal 2 is the hot wire, terminal 3 comes from the "open" contact of your switch, and terminal 4 comes from the "closed" contact of your switch.

On the new EBVA your power wires will be wired into the larger of the two DIN connectors. Upon disassembling the DIN connector look for the numbers 1 through 3 on the DIN connector. Wire your neutral wire to terminal 1 of the DIN. There is no longer a hot wire going directly into your DIN connector. Your hot wire goes to your switch only. The "open" terminal coming from your switch is connected to terminal 3 on the DIN, and the "close" terminal coming from your switch is connected to terminal 2 on the DIN. There is also provision in the DIN connector for a ground wire. Connect your ground to this terminal.

Notice you have a hot wire left over (it was connected to terminal 2 on the old EBV unit). This is no longer used and must be disabled in accordance with all electrical codes. **Do not leave it unconnected because it is still hot!!**

PART B

If you were using terminals 5 and 6 on the old EBV for remote open/close signal, and you wish to continue to have open/close remote signal, then wire the smaller DIN connector as follows: Connect the hot wire you are supplying, to terminal 1 on the DIN connector. Connect your "close" indicator to terminal 2 on the DIN connector, and connect your "open" indicator to terminal 3 on the DIN connector.

