

Valve Sales Inc. Addendum: 2-27-19

Asahi Actuator with DHC-400 and Multi-turn Valve – Calibration Instructions

1. With the valve and actuator separate, manually turn the valve to the middle of travel.
2. Using the mounting bracket and coupler, mount the actuator onto the valve.
3. Attach power supply. Positive (+) to wire block position #1, Negative (-) to #2.
4. The middle fault light will be flashing, this is normal.
5. Press the mode button once to switch the card to 'manual' mode. As you make changes, moving to the next mode will save your changes (your last position) in the previous mode.
6. Loosen the two screws that position the potentiometer. Pivot out and roll the wheel while monitoring the 'manual' mode indicator light. The light should go from slow blink to fast blink and then go solid as you roll the wheel. When the light is solid, pivot the wheel back in and tighten the potentiometer bracket screws to lock it into place.
7. Press the mode button to move from 'manual' to 'close' position on the card. The actuator will start moving clockwise, use either arrow button to stop the travel. Then, use the down arrow button to close the valve. When closed, you will hear the motor strain as it seats, **immediately release the button.**
8. Press the mode button to move from 'close' to 'open' position on the card. The actuator will start moving counter-clockwise, use either arrow button to stop the travel. Use the up arrow button and count the rotations of the stem of the actuator. Stop the travel when the stem has rotated the appropriate amount of turns.
9. Press the mode button to cycle through the 'auxiliary close' and 'auxiliary open' modes on the card. (Used only with optional 'Relay Option Module', OTR-101)
10. Press the mode button to move to 'command type' position on the card. Using the arrow buttons, select your command type referencing the upper light on the card.
11. Press the mode button to move to 'loss of command'. Using the arrow buttons, select close, open, or last (no light), referencing the upper light on the card.
12. Press the mode button to cycle through the 'position out cal' positions until you arrive back at 'auto'. (Used only with optional '4-20ma Feedback Module', OTX-101)
13. The actuator is now calibrated! Attach signal wires into wire block positions 4 & 5.

*If you have any questions or concerns during this calibration procedure please contact your VSI representative to avoid damage to the equipment.