

Valve Sales Inc. Addendum: 2-27-19
Asahi Actuator with DHC-400 and Lifter – Calibration Instructions

1. Attach power supply. Positive (+) to wire block position #1, Negative (-) to position #2.
2. The middle fault light will be flashing, this is normal. Ensure cams behind card are located up away from the switches. Move if needed.
3. 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.
4. Using the down arrow button, move the valve to its closed position. You will hear the motor strain as the stem presses on the seat, **immediately release the button**.
5. Verify that the travel indicator next to the stem is showing closed, adjust if necessary.
6. Use the up arrow button to travel the valve to the midpoint of its travel, referencing the indicator next to the stem of the valve.
7. 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.
8. **READ THIS STEP FULLY BEFORE PROCEEDING!**

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 **immediately**. Then, use the down arrow button to close the valve. You will hear the motor strain as the stem presses into the seat, **immediately release the button**.
9. Press the mode button to move from 'close 'to 'open 'position on the card. Use either arrow button to stop the travel when the stem indicator has traveled to the open position. Press the up arrow button to increase the travel if needed.
10. 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)
11. 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.
12. 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.
13. 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)
14. 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.