

Valve Sales Inc. Addendum: 2-27-19  
Asahi Actuator with DHC-400 and Rotary Valve – 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 clockwise to its closed position. If the valve has internal stops, you will hear the motor strain as it seats, **immediately release the button**, otherwise monitor the travel, stopping when the valve is fully closed.
5. Use the up arrow button to travel the valve counter-clockwise to the midpoint of its travel. I.e., 45° rotation for a 90° valve, or 90° rotation for a 180° valve, etc...
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 **immediately**. Then, use the down arrow button to close the valve. If the valve has internal stops, you will hear the motor strain as it seats, **immediately release the button**, otherwise monitor the travel, stopping when the valve is fully closed.
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 **immediately**. Then, use the up arrow button to open the valve. If the valve has internal stops, you will hear the motor strain when fully open, **immediately release the button**, otherwise monitor the travel, stopping when the valve is fully open.
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.