**Calibration**

* Install the valve to be calibrated onto the calibration fixture. (Measure between the support plate and the JT valve 2arc slider. Take a measurement near each rod to ensure the JT valve 2arc slider is level.)
* Connect control unit to valve assembly
* Move the valve in the open direction while listening to the change in pitch of the motor
* Repeat to be sure of the when the change in pitch begins
* Adjust the open limit switch to actuate at this position. (note that the open limit switch is the on the bottom)
* Back off the closed limit switch adjustment screw so that there is enough room for the valve to open and close freely. (note that the closed limit switch is the one on the top)
* Install the force gauge and adjust it to where it just makes contact with the valve mechanism by using spacers and the adjustment bolt threaded into the bottom of the actuator
* Close valve to where there is a 1/16inch gap between the spring clip and the bottom of the JT valve 2arc wide motor mount
* Tighten the spring adjustment nuts equally until the force gauge reads 200 pounds and there is still a 1/16inch gap between the spring clip and the bottom of the JT valve 2arc wide motor mount bushing.
* Ensure that the gaps are equal on both sides
* Adjust the closed limit switch to actuate in this position
* Open valve to where there is no pressure on the force gauge. Then close the valve to where the closed limit switch stops it.
* The closed limit switch should stop the valve at 200 pounds on the force gauge every time the valve is closed. (note that there may be a need to adjustment the closed limit adjustment screw) if there are any adjustment to the closed limit switch screw then repeat opening and closing the valve