

RAP R60: Limit Switch Adjustment Procedure

Limit Switch-56805-T-8

05/09/11

Limit Switch (T-8) Adjustment Procedure

Limit Switch Adjustment Procedure

SERVICE

Shafer rotary position indicating switches are supplied with a maximum of 8 switches, adjustable through 360 angular degrees of shaft rotation. The enclosure is suitable for installation in Class I, Div. 1 Group C and D Hazardous Locations.

SETPPOINT ADJUSTMENT

WARNING: *Disconnect Electrical Power Supply Before Beginning Procedure*



1. Determine valve operator position, open or closed, by comparing arrows on the Position Indicator to name tags on operator.
2. Once position is determined, remove the Position Indicator by loosening the hex bolt in the side of the Position Indicator.
3. Carefully remove the rubber weather seal from the limit switch shaft. (See illustrations on Sheet 3.)
4. Unscrew and remove the limit switch Dome Cover.
5. Loosen the Clamping Nut, but do not remove. Loosen only until there is no longer tension on the Wavy Washer underneath.
6. The limit switch base has been stamped with the letters "O" and "C". These letters are stamped outside of the limit switches close to the base perimeter. The "O" and "C" designate which set of switches are at the end of the OPEN stroke "O" and which set are at the end of the CLOSE stroke "C".
7. Located on the actuator shaft are both Actuator Cams and Spacer Rings. The Spacer Rings have a smooth finish on the outer edge while the Actuator Cams have a serrated edge and an extended lobe on a portion of the edge to cam actuate the switch.
8. The Actuator Cams are spaced so that they will operate one limit switch only. The limit switches should be actuated from the Ramp Side of the actuating lever on the switch.
9. With the valve operator position determined, rotate the Actuator Cams so they trip the limit switches on the appropriate side. The Spacer Rings are keyed to the shaft. This allows one Actuator Cam to be adjusted without disturbing the Cam above or below.

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NOTE: *The operator will rotate in a clockwise direction to close and counter-clockwise to open the valve.*

10. With one set of cams positioned, partially tighten the Clamping Nut and rotate the valve operator to the end of the opposite stroke.
11. Loosen the Clamping Nut and repeat step #9.
12. With both sets of Cams positioned properly, tighten the Clamping Nut until the Wavy Washer is flat.
13. Before reassembling the Limit switch assembly, rotate the valve operator open and closed to verify proper switch settings.
14. If the switch settings are found to be proper, reinstall the limit switch Dome Cover, Weather Seal and Position Indicator.
15. Should the switch settings not be correct, loosen the Clamping Nut and readjust accordingly.

If any further information is required, please feel free to contact:

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