

RSV Maintenance

The KMI RSV actuator was designed with the highest service reliability in mind. Actuators installed over 20 years ago are still operating reliably! Although minimal maintenance is required on the valve actuators, a few helpful guidelines will improve the product life and ensure the best performance.

- Make sure that before the lid is replaced, the actuator is clean and dry inside. One of the ways to keep the actuator clean is to avoid lubricating any components, except for a light coat of lithium / white / or molybdenum sulfide grease between the two mating surfaces of the Geneva wheel and sprocket wheel. (*See RSV Actuator Assembly instructions Form F-4002*) The reason the actuators do not require lubrication is that the mechanism rotates slowly and Teflon bearings are used on key interacting components to act as self-lubricating surfaces. The chain does not require lubrication as long as it is kept dry.
- MAKE SURE THE LID IS FASTENED TO THE ENCLOSURE ~25 lbf-in. TO COMPRESS THE ORING AROUND THE PERIMETER OF THE LID. OTHERWISE, EXTREME RAINFALL CAN CAUSE FLOODING OF THE ACTUATOR. It is necessary to seal the conduit connections to the actuator in order to prevent rain water from accumulating in overhead cable trays and filling the actuator with water.
- There are three sprockets connected to the chain drive and after 3-5 years of service, they can loosen. The remedy is to disconnect power and remove the motor, then tighten the setscrew connecting the 9-tooth sprocket to the motor drive shaft. Avoid over tightening the setscrew to prevent stripping the socket-head.
- The motors are historically reliable. However, if a motor makes any grinding, buzzing or similar noises during rotation, it probably requires replacement. If the motor is within the warranty period, request an RMA and send it in for a replacement.
- It is recommended to send the valve to the home position (no well test) and check the seal integrity at least every 6 months. Shut off the valve located between the rotary valve test port and the gauge test equipment. Slowly open the home port valve to atmosphere, allowing any gas and fluid to bleed off (1-2 minutes) into a bucket. The nozzle seal will normally hold pressure (not leak) between the group and atmosphere, otherwise the seal or valve may be failing and should be considered for replacement.

If you have any questions regarding the installation, operation or maintenance of the valve and actuator, please contact us so we can help. To ensure the fastest response, please email your technical questions/requests to support@keiser-mfg.com For further assistance, call 830-379-0721 and ask for a customer service representative.



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