



Installation, Operation & Maintenance Instructions

Spring to Centre Actuator – Quarter Turn Size 03-14

1) Description.

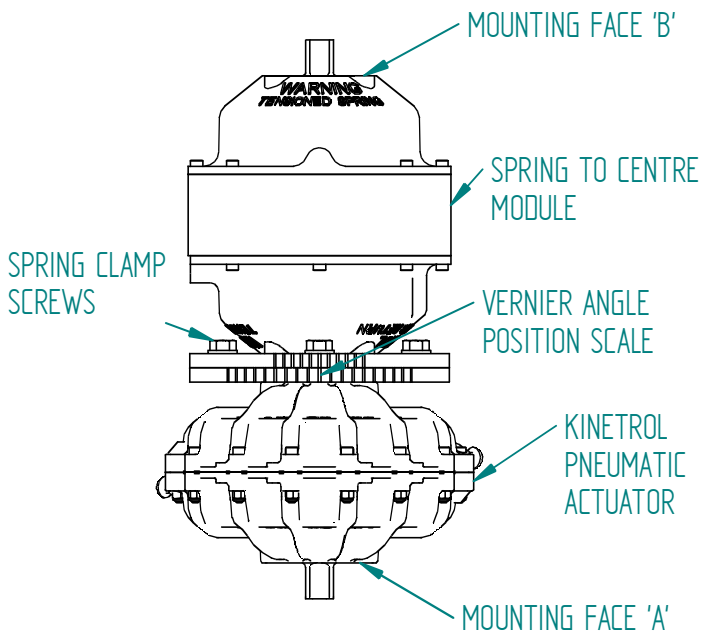
This is a quarter turn spring failsafe actuating device which, on loss of air supply, will move under spring torque to a preset adjustable position between 0-100 degrees.

2) Installation.

The spring to centre actuator can be mounted from either the pneumatic actuator face A or the spring housing face B.

Mounting from face A will allow an adjustable centre position with fixed end positions but will inherently have more angular 'hysteresis' than mounting from face B. Mounting from face B will provide a fixed centre position with adjustable end points but will exhibit less hysteresis.

Mounting configuration details are the same as a Kinetrol spring return actuator (refer to Kinetrol instructions TD 129 for details).



3) Operation.

Refer to Kinetrol Actuator operating instructions (TD 129) for correct actuator operation.

Before adjustment of centre position, ensure that the air supply is isolated and there is no external load applied that can cause sudden movement of the actuator during adjustment.

Loosen the 3 spring clamp screws. Make note of the position of the 'Vernier' scale which is marked on the outer surface of the two clamp plates. Each of the five marks from centre on the upper plate will allow a resolution of one degree in the spring adjustment. The lower plate is marked in 5 degree increments to a maximum of 45 degrees from centre. The spring unit will allow up to a maximum of 50 degrees movement from the central point.

Adjust the centre position to the desired angle before retightening the clamp screws (apply an anaerobic thread lock in areas subject to vibration).

4) Maintenance.

The spring to centre module can be removed safely from the actuator in one part. The tension of the springs are retained by the spring to centre module.

As before, ensure that the air supply is isolated and that there is no external load applied to the actuator.

Support the actuator in a vice or a well supported bracket.

Remove the spring clamp screws and washers. Lift the spring to centre module from its engagement on the actuator output shaft.

The spring to centre module contains tensioned clock springs and requires special equipment for safe dismantling. If the unit is not controlling the central position correctly it should be returned to Kinetrol for repair or a replacement unit fitted.

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