

Instructions for Changing the Orientation of a Diaphragm Actuator

The orientation of the Actuator with respect to the valve can be changed without the need to uncouple the valve and actuator stems, or remove the actuator from the valve. A competent technician should carry out the work after reading the following procedure:

1. Prior to commencing ensure that the valve has been fully isolated from the process fluid and is completely depressurised.
2. Isolate the actuator from the air and electrical supplies as appropriate, and remove the piping and conduit connecting the air and electrical supplies to the actuator.
3. The valve plug should be in the open position when the actuator orientation is changed. If the actuator is a fail closed design, this can be achieved by using the handwheel where available, or by applying sufficient air to actuator to raise the stem slightly. (Reconnect the actuator to the air supply using a suitable length of flexible pipe.)
4. With the valve plug off its seat, use a hammer and drift to loosen the castellated locking nut (25) that secures the actuator to the valve bonnet. Alternatively, loosen and remove the bolts if the valve has a flange mounted actuator.
5. Rotate the actuator to the desired position, and retighten the locking ring or replace and tighten the bolts.
6. Return the valve plug to the closed position, and reconnect the air and electrical supplies as appropriate.

