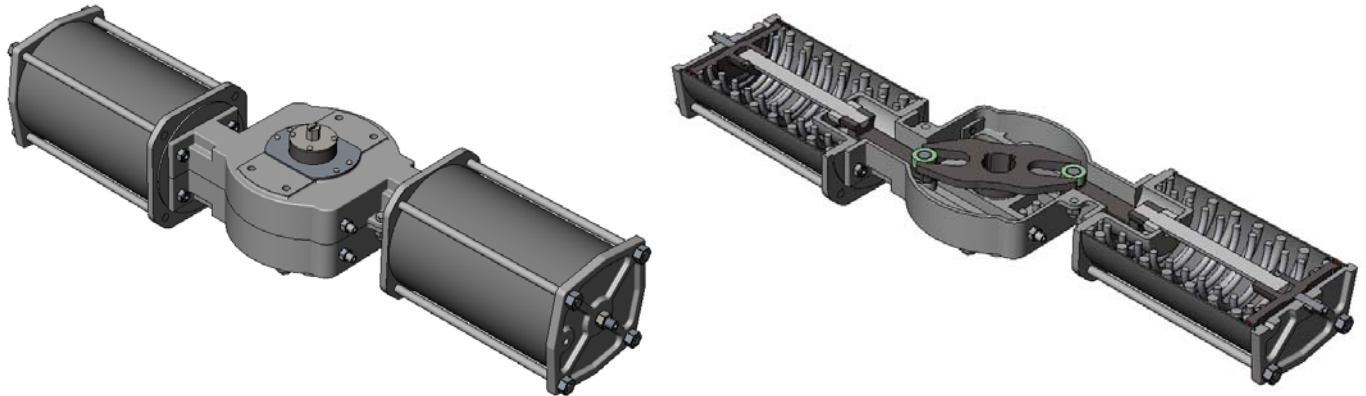


FLAT YOKE ACTUATORS

Suggested Specifications
SS070609-01



Suggested specifications:

- Actuator center of gravity shall be located at the mid point of the shaft axis.
- Piston seals shall be replaceable while the actuator and accessories remain mounted on the valve and, if spring return, the springs must maintain the valve in the failure position during seal replacement.
- Accessories shall not require recalibration following piston seal replacement.
- Spring return models shall have no pressured seals inward of the pistons.
- Bi-directional, adjustable travel stops shall be provided and must be fully accessible and they must act directly in line with the piston axis to eliminate added stress on the yoke arms as with yoke stop designs.
- To reduce friction losses and wear, there shall be no side loading forces acting upon the actuator shaft or bushings, regardless of torque output.
- Actuator shall be capable of action reversal by turning the top side down, with no modifications to the actuator assembly.
- Springs shall be accessible for replacement, shall be captured and shall remain captured at all times.
- Cylinders shall be Amalgon composite material - or - Cylinders shall be 316 stainless steel.
- Other than fastening the force modules to the body module flanges, no mechanical attachments may be employed to assemble these modules to one another.
- Springs shall be located inward of the pistons, thereby assuring minimal air consumption and ready access to the piston o-ring seals.
- Spring stress shall not exceed 120,000 psi at full stroke compression.
- Piston rods shall be supported and aligned only by the piston and internally slotted bodies and shall not extend past the yoke arm slot.
- Other than the piston seals / cylinder bore, no parts shall be in sliding contact with one another.

