



## BIFFI MORIN C SERIES PNEUMATIC ACTUATOR

### SUGGESTED SPECIFICATION

---

#### STANDARD SPECIFICATION

---

- Actuator shall be of scotch yoke design and utilize linear travel stops that are field adjustable for a minimum of 8° angular rotation at both ends of stroke ( $\pm 4^\circ$  each end).
- Cylinder to be constructed from carbon steel and have Xylan® coated interior.
- Piston bearing shall be standard to fully support the piston and shall be PTFE.
- All moving parts are to be supported by replaceable bearings.
- Scotch yoke shall be of 17-4PH or ductile iron material, bearings and thrust pin used to convert linear to rotary motion shall be 440C stainless.
- Scotch yoke to be available in standard symmetrical design and canted design to better fit the torque curve of the valve.
- Power head (scotch yoke section), cylinder heads, adapters, and piston to be constructed from ductile iron (A395).
- Power cylinder is to be isolated from power head (scotch yoke section) by seals.
- It is not acceptable to have the power head included as part of the power cylinder pressure chamber.
- SIL 3 qualified.

#### OPTIONAL SPECIFICATION CAN INCLUDE:

---

- Actuator to be provided with full stroke adjustment, open and/or closed position.
- Actuator to be provided with manual jackscrew override.
- Actuator to be provided with hydraulic override which shall include speed controls.
- Actuator to be provided with integral lock out / tag out device that allows the adjustment of locking position based on the adjustment of the integral travel stop.
- Actuator to accept NAMUR top mount accessories with only support bracket, no coupling is allowed.
- Actuator to be provided integral (PSTD) Partial Stroke Test Device.
- Actuator is to be ABS (American Bureau of Shipping) approved.
- Actuator is to meet AWWA 540 Specifications (American Water Works Assoc.).

