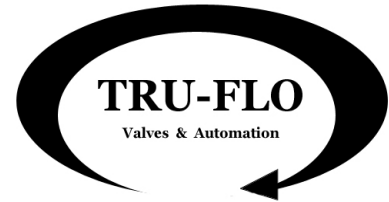




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## Competitive Analysis

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### Tru-Flo Provides Clear Superiority over 4-Piston Pneumatic Actuators!

- Inherent to the 4-piston design is twice as many moving parts as a conventional pneumatic actuator. More parts mean more wear, tear, and failure. With inadequate wear bearings, or none at all, dynamic high-cycle parts are not protected in the best possible manner.
- Utilization of two different types of end caps is required for the 4-piston design making field modifications due to last minute engineering changes very difficult. Tru-Flo utilizes the same end caps for both SR and DA actuators, thereby making quick changes a snap.
- When switching from SR to DA, the time required to perform such changes is compounded by the 4-piston design. There are at least twice as many parts to modify!
- The spring design of the Tru-Flo actuator is clearly superior as all units come standard with pre-compressed spring packs making end cap removal safe and efficient. There is no need for the springs to be compressed, thereby increasing safety for the technician during the reinstallation process of an end cap.
- Tru-Flo actuators come standard with interchangeable flanges, not only for ISO 5211 valves, but also many various types of butterfly and plug valves. The 4-piston models do not offer this highly flexible option.
- In addition to the interchangeable flanges, Tru-Flo offers a complete line of stem adapters to provide for quick and easy direct mount installation, thereby eliminating the need for highly expensive bracket and coupling kits.
- One of the most important and unique features is the patented dual travel stop adjustment capability of the UT series actuator. A full +/- 10° is provided on each unit, thereby allowing a possible 110° of full rotation. This is not possible on 4-piston units.
- Dual travel stops are located on one side of the Tru-Flo actuator, making adjustments very simple in tight space requirements.
- All 4 piston units require travel stops adjustment to occur against the pinion. The side loading forces associated with this type of design makes premature wear of the pinion and pistons a real possibility. Tru-Flo utilizes the natural piston movement by securing the stop against the piston itself and completely eliminating all side loading forces.
- Superior tooth design, in depth and length covering the entire piston rack, is engineered into each Tru-Flo actuator ensuring that no teeth are broken in the most demanding butterfly valve applications. A quick review of the 4-piston actuators will reveal a tooth design which is clearly inferior.
- Another highly beneficial aspect is that each Tru-Flo actuator can be easily modified to change the standard CCW rotation to CW rotation.
- In addition, Tru-Flo offers an entire range of 180° actuators in the same exact design as the standard units. This eliminates problems with significant changes in geometry for tight space applications.
- Each Tru-Flo unit comes standard with a high visibility beacon!

*Superior Quality*