Rod-Style Electric Actuators Feature Higher Forces up to 500 lbs.

Tolomatic has added a new size to its line of ERD rod-style electric actuators [1] to provide higher forces and longer stroke lengths to serve more application requirements. The new ERD20 is designed with a larger diameter ball screw and a stroke length of up to 24 inches (609.6 mm). With this line extension, ERD rod-style electric actuators now deliver forces up to 500 pounds (2224 N). ERD actuators are stroke configurable and ship within five days from order entry at the factory. The products are suitable for a wide variety of applications, including product change-overs, pick-and-place, sorting and diverting, pressing and more.

"With higher forces and longer stroke lengths, the affordable ERD rod-style electric actuators can now replace pneumatic actuators in a wider range of applications," says Aaron Dietrich, electric products manager, Tolomatic [2]. "In addition to greater force and stroke, the ERD20 is available with ball screws for extended and predictable service life."

The ERD family of rod-style electric actuators is available in body sizes that are equivalent to non-repairable pneumatic cylinder bore sizes of 5/8-inch (15.88-mm), 1-inch (25.4-mm), 1.5-inch (38.1-mm) and 2-inch (50.8-mm). Strokes are available in lengths up to 8 inches (203.2 mm) for the ERD06, 10 inches (254 mm) for the ERD10, and 24 inches (609.6 mm). for the ERD15 and 20 sizes, Forces range up to 20 pounds (89 N) for the smallest size, and to 500 pounds (2224 N) for the ERD20. The actuators accept a wide variety of NEMA and metric stepper and servo motors. In addition, all four sizes of the ERD product family are offered with 300 series stainless steel options and IP67 options for harsh environments, such as the food and beverage industry.

Dietrich adds that the ERD actuator comes standard with a metric-threaded rod end that is compatible with a wide variety of commercially available accessories and makes the conversion from pneumatic to electric even more convenient.

Like most pneumatic actuators in this performance class, electric ERD products are round bodied. They feature an oversized main bearing to accommodate high thrust loads and provide long life. The main tube and thrust tube are made of stainless steel for high rigidity and corrosion resistance, while the metric-threaded nose mount accepts a jam nut that provides convenient mounting for many applications. Mounting options include a rear trunnion mount, foot mounts or a front flange mount.

The ERD actuators can accommodate six different sensing or switching choices: reed, solid-state PNP (sourcing), solid-state NPN (sinking), normally open, flying leads or quick-disconnect. The switches are activated by a standard internal magnet located inside the thrust tube. Commonly used for end-of-stroke positioning, these switches allow clamp-on installation anywhere along the actuator tube. All switches are CE rated and are RoHS compliant for environmental compatibility.

For more than 50 years, Tolomatic has been a leading supplier of electric linear actuators, pneumatic actuators and power transmission products for factory automation. Its extensive product line also includes servo-driven high-thrust actuators, servomotors and stepper motors, stepper drives and configured linear-motion systems.

Tolomatic’s electric linear and pneumatic actuators are used in a variety of industries, including the packaging, material handling, medical, food processing, automotive, semiconductor and general automation industries. For more information about the new ERD rod-style electric actuators, contact Tolomatic, 3800 County Road 116, Hamel, MN 55340. Phone: 763-478-8000 or 800-328-2174. Web site: www.tolomatic.com [2].

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