Flotronics

BENEFITS OF SWITCHING FROM HYDRAULIC TO ELECTRIC ACTUATORS



Hydraulic Cylinder



Electric Rod Actuator

Discover the Advantages of Switching From Hydraulic To Electric.

Flotronics Automation is an Authorized Distributor for Tolomatic, Thomson and Oriental Motor. Our knowledgeable staff can offer you a beneficial Electric Actuator option for your hydraulic application.

Colomatic



Oriental motor

Why Cross From Hydraulic to Electric?



With an electric actuator, force is generated at once. A hydraulic actuator must wait for pressure to build until force is achieved, thus slowing response. Or the actuator must store pressure (energy) constantly which creates inefficiency.

An electric actuator with servo drive/ motor offers infinite control over position, velocity, acceleration/ deceleration, output force and more. The above chart gives an example of the precision and control an Electric Actuator can offer.

2 Heat



A hydraulic cylinder offers a compact footprint at the work point, but the hydraulic power unit (HPU), which regulates oil pressure and flow, requires a lot of floor space.

An electric actuator may have a little larger footprint at the work point but has a smaller overall system footprint, normally a fraction of that of a hydraulic cylinder plus HPU.

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Temperature Tolerance





Hydraulic cylinders can be temperature-sensitive. Cold results in sluggish and inconsistent hydraulic actuator performance. In higher temperatures, oil degrades and seals fail.

Electric actuators can be selected to run at a desired temperature for the given amount of work required. They can be specified with optional extreme temperature grease for fast response in the cold.



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System Footprint



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Why Cross From Hydraulic to Electric? (continued)



Did you know Flotronics Automation offers pressure switches, gauges and other pressure sensors? Contact us for a quote today!