



Complete Valve Automation and Control Solutions

Valve Automation Division: Bettis,
Dantorque, El-O-Matic, Hytork, Shafer



EMERSON. CONSIDER IT SOLVED.



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Providing a single focus

The Valve Automation Division of Emerson Process Management combines the strengths of five world-recognized brands – Bettis

■ Dantorque ■ El-O-Matic ■ Hytork

■ Shafer – into a single unit. We capitalize on more than 100 years of combined experience dedicated to only one thing – controlling and automating valve operation.

No one else can offer the breadth of product or the scope of service. You'll find us wherever valves need to be operated automatically. We have experienced, factory-trained representatives and service technicians available to provide a solution to your requirements.

As the world's leader in valve automation, we are constantly innovating and improving on the quality of our products. And, we augment our resources with those of our colleagues in the Emerson organization.

PNEUMATIC

Rack & Pinion

Using new generation materials and designs, these actuators reliably and efficiently operate quarter-turn mechanisms including ball, butterfly and plug valves. Our rack & pinion actuators work in a broad range of applications including those with extreme temperatures, corrosion and high-cycles. Integrated control options can be readily added for improved functionality and positioning.

- Output torques range to 60,623 lb-in (6,850 Nm) for double-acting models and 17,333 lb-in (1,958 Nm) spring-end for spring-return models.
- Standard operating temperatures range from -40° F to +180° F (-40° C to +82° C) with optional high temperature trims available.
- Operating pressures to 120 psig (8 Bar)



Scotch Yoke

We offer a broad range of new generation pneumatic actuators with torques sufficient for virtually any application – large or small. The G-Series adds features not found anywhere else. Guaranteed output torques, water ingress protection, corrosion resistance, NAMUR standardization, close coupling, overrides and modular components are standard on most of our pneumatic actuators.

- Output torques to 6,000,000 lb-in (678,000 Nm) for double-acting models and 3,000,000 lb-in (339,000 Nm) for spring-return models
- Standard operating pressures to 200 psig (14 Bar)
- Standard operating temperatures -20° F to +200° F (-29° C to +93° C), with optional high and low temperature trims available.



ELECTRIC

Our electric actuators are designed to provide optimum performance under the most demanding on/off and modulating conditions. Our compact models are adaptable for trouble-free operation with small, medium or large valves. We offer maximum duty cycles to 100%, with none lower than 30%, in all available motor voltages. We have a range of hazardous and non-hazardous housings, including CSA-certified enclosures, and “plug-in” options suitable for a wide range of control functions.

- Output torques to 10,000 lb-in (1,130 Nm)
- Standard operating temperatures -40° F to +158° F (-40° C to +70° C)
- Smart electric models supporting bus communication protocols



HYDRAULIC

We offer a wide variety of configurations for our hydraulically-powered actuators including scotch yoke, linear and helical spline. These powerful, yet efficient actuators are used in double-acting or fail-safe spring-return designs for either onshore or offshore applications, including demanding subsea service and marine applications.

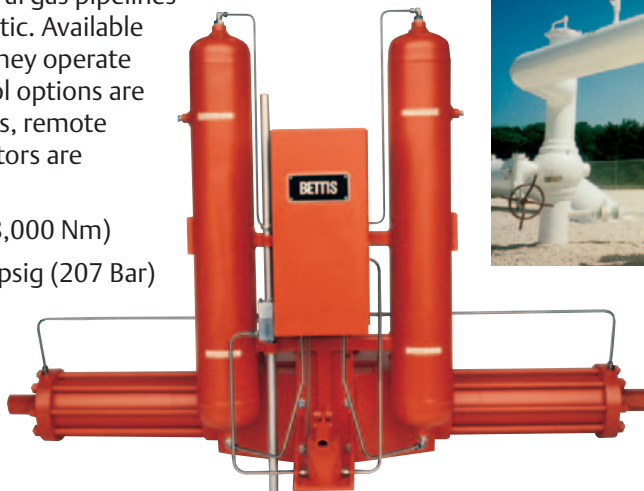
- Output torques to 6,000,000 lb-in (678,000 Nm) in double-acting models and 3,000,000 lb-in (339,000 Nm) in spring-return models
- Standard operating pressures to 5000 psig (345 Bar)
- Standard operating temperatures -20° F to +200° F (-29° C to +93° C) with optional high and low temperature trims available

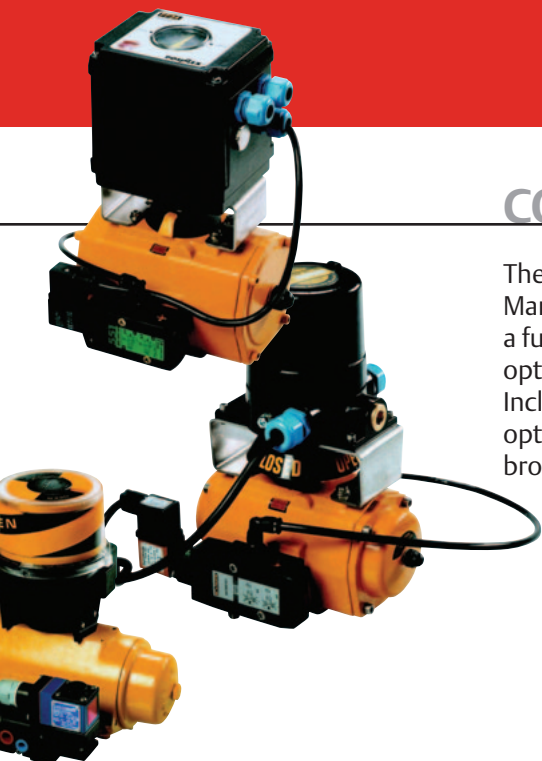


GAS HYDRAULIC

Our gas hydraulic actuators are found on natural gas pipelines around the world – from the Sahara to the Arctic. Available in scotch-yoke, rotary vane or linear designs, they operate efficiently using line gas pressure. Many control options are available including linebreak detection systems, remote control and high/low shutoff. Direct gas actuators are also available.

- Output torques to 6,000,000 lb-in (678,000 Nm)
- Standard operating pressures to 3,000 psig (207 Bar)
- Standard operating temperatures -50° F to +250° F (-46° C to +121° C)





CONTROLS & OPTIONS

The companies comprising Emerson Process Management's Valve Automation Division provide a full complement of controls and systems to assure optimum performance of its valve actuators. Included are advanced electronic bus-compatible options available as plug-in modules. Among our broad offering are:

- Fieldbus Communication Devices
- Switch Boxes
- Solenoids
- Limit Switches
- Positioners
- Digital Valve Controllers
- ESD Systems
- Manual Override Gear Operators
- Hydraulic Power Units (HPU)



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Important: Due to Emerson's continuing commitment to engineered product advancement, data presented herein is subject to change.

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