



*Actuators and Fieldbus Networks
for the Valve and Damper Industry*





This portable drilling tower in the North Sea uses EIM electric actuators to control flooding and emptying of ballast water tanks in the tower legs.

Ever since the very first actuator built by EIM was installed on a Saudi Arabian pipeline in 1949, the EIM name has been found on valve actuators worldwide. Those actuators are at work in every climate found on the planet, setting standards for endurance and reliability that have yet to be surpassed.



The first actuator built by EIM was installed on this pipeline in Saudi Arabia in 1949. It continues to give reliable service today—despite metal temperatures that frequently reach 170°F (77°C).

Throughout EIM's history, the company's emphasis on innovation has been reflected in numerous patents. But more importantly, EIM's emphasis on quality is reflected in the thousands of actuators still in service after decades of operation.

Today, EIM remains a specialist in valve actuation and control ... without involvement in unrelated fields, and without reliance upon parent or sister companies. The product line has grown to encompass electric and non-intrusive actuators for both quarter-turn and multi-turn applications, as well as full process-control capability.



You'll find EIM wherever the going is tough. EIM actuators open and close sluice gates in this water project near Los Angeles.



EIM actuators on the Trans-Mountain Pipeline, Canada, withstand temperatures of -40° F (-4° C)!

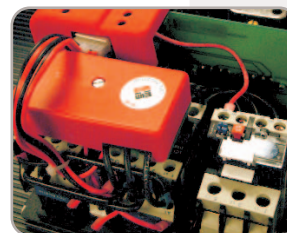
The company's half-century history has included many logical innovations, starting with the earliest "E-Series" actuators:



The very first **EIM type "E"** actuators were introduced with features that set new standards for the field, such as reversing starters and opening-direction torque switches.



In the 1960's, EIM developed the exclusive **Modular Control Package (MCP)**, a compact assembly that could easily be removed from the actuator for fast, simple upgrades and servicing. Later, this was redesigned to become the M2CP, which enabled new options such as modulating service (with EIM's Futronic package).



EIM introduced **Controlinc®**, the actuator industry's first digital control system, in the 1980's.



With **TEC2000®**, EIM entered the field of non-intrusive "smart" actuators, by enhancing the proven Series 2000 actuator with a package of common-sense features designed to deliver both Total Electronic Control and extreme reliability.

MARKETS SERVED

During the past 50 years, EIM has served an extremely broad cross-section of industries with diverse applications, including:

- Oil & Gas Pipelines
- Metering Skids
- Water Filter Plants
- Desalination Plants
- Steelworks
- Dam/Reservoir Control
- Refineries
- Gas Gathering Plants
- Wastewater Treatment Plants
- Hydroelectric Installations
- Pulp & Paper Mills
- Lock & Dry Dock Gates
- Tank Farms & Distribution
- Offshore Platforms
- Power Plants
- Marine
- Coker Plants
- Mining



EIM markets include marine installations, such as this cargo ship with the world's first onboard digital valve-control network.

END-USER & VENDOR APPROVALS

EIM's experience and capabilities have earned the company a whole array of approvals from very demanding end-users and vendors, among them:

- ExxonMobil
- Saudi Aramco
- TNB
- KNPC
- BP Aramco
- KOC
- Black & Veatch
- Equilon
- PetroEquador
- Shell
- Hitachi
- Flour Daniel
- PDO
- QP
- SCECO
- Chevron
- Texaco
- CFE
- Mitsubishi
- Bechtel
- Hyundai

CERTIFICATIONS & APPROVALS

EIM products also conform to the most stringent certifications and approvals in the industry, such as:

- ISO 9001 Quality Assurance
- U.S. Department of Defense (DOD) testing/approval to DOD-V-24657 (SH)
- Factory Mutual (FM) explosionproof certification
- American Bureau of Ships (ABS) submergence certification
- CENELEC explosionproof certification
- B.I.E. International, Inc., submergence certification
- Canadian Standards Association (CSA) explosionproof certification
- U.S. Navy shock/vibration qualification (MIL-S) to MIL-S-901C/167-1
- Australian Standards Association (SAA) explosionproof certification



Lab workers at McKinley Climatic Lab, Eglin Air Force Base, needed reliable actuators to operate dampers at temperatures as low as -100°F (-38°C). The only actuator that could do this was the rugged EIM Series 2000.

EIM PRODUCTS COVER THE GLOBE. SO DOES EIM SALES/SERVICE SUPPORT.



EIM distributors and representatives are strategically located across six continents for prompt response to customer needs. An Eastern Hemisphere Sales Office in the U.K. serves as a link to Europe, Asia, and the Middle East for EIM's North American headquarters.

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Northants, United Kingdom
Aberdeen, Scotland
Beograd, Yugoslavia

COMPANY RESOURCES & CAPABILITIES

EIM's headquarters houses more than 120,000 square feet (11,148m²) of engineering, manufacturing, and testing operations.

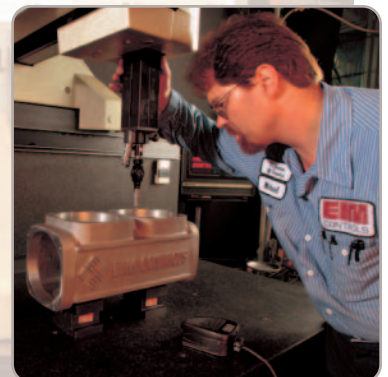
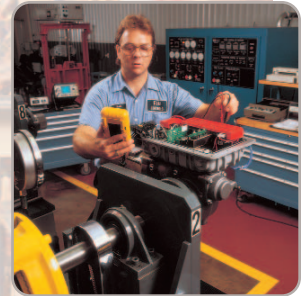
This extensive capacity enables the company to accommodate large orders—and to maintain one of the industry's leading records for meeting shipping deadlines.

All critical-tolerance internal components are manufactured on-site to ensure precision. Primary pieces of manufacturing equipment at the plant are dedicated to the production of specific parts for greatest efficiency.

Throughout the production process, thorough quality assurance systems verify product integrity and compliance with ISO 9001 standards. Test labs at the factory subject EIM products to a rigorous battery of dynamic, electronic, and thermal tests.

EIM also maintains a 6,000 square foot (557m²) training facility adjacent to the factory that enables customers to receive hands-on training in actuator maintenance under the guidance of factory instructors.

All this is accomplished within a privately held, independent company—a fact that has given EIM customers the advantage of having a consistent, reliable resource for more than half a century.



SERIES 2000 ELECTRIC



Series 2000 electric actuators have been setting industry standards for ruggedness and reliability for more than 50 years in installations around the globe. Multi-turn models deliver torque capacities up to 10,000 ft.-lbs. (13,560 Nm), thrust up to 350,000 lbs. (1,560 kN), and output speeds ranging from 3 to 240 rpm. Quarter-turn units handle up to 150,000 ft.-lbs. (203,400 Nm) of torque, and provide operating stroke times ranging from 5 seconds to 15 minutes.

SERIES 2000LP PNEUMATIC



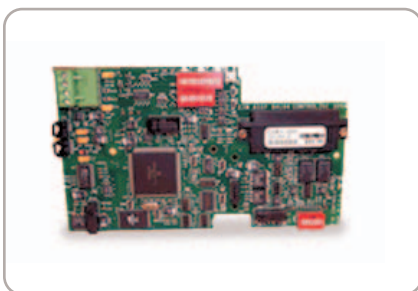
Designed for gate & globe type valves, these multi-turn pneumatic actuators achieve torque capacities of 1,200 ft.-lbs. (1,625 Nm), and thrust capabilities of 95,000 lbs. (425 Kn) using rotary vane air motors. For quarter-turn valves, a torque range exceeding 70,000 ft.-lbs. is achievable. Local handwheel manual override can be used when air pressure is lost—a major benefit. Control options range from local manual control to both single- and double-acting remote pneumatic or electric control. Remote valve position indication is optional.

MANUAL OPERATORS



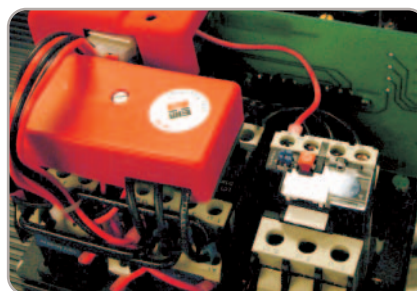
EIM's manual operators include units for both buried (WB) and above-ground service (WO). Both lines are manufactured with an emphasis on durability, as evidenced by the cast ductile iron main housing, the one-piece worm gear drive sleeves and the solid steel worm shafts. Self-locking worm gears prevent back-drive, and a removable spline bushing ensures an easy fit to valve. Units can be easily converted in the field to power actuation.

M2CP



This onboard control package is modular, allowing users to add specific capabilities to the actuator as needed. Individual plug-in modules include a limit switch module, modulating controls ... even modules that allow digital communication with the actuator. Each of these upgrades can be installed without removing the package from the actuator enclosure. The M2CP design allows not only easy expansion of control capability, but also simple field serviceability.

CONTROLINC[®]



EIM introduced Controlinc, the world's first valve actuator network controller, in 1985. Available network control options soon expanded even further with the introduction of Communication Adapter Modules to support multiple protocols and network topologies. By plugging in a CAM, any EIM valve actuator with the Controlinc Model 320A package can be upgraded to support such diverse protocols as Modbus RTU, Modbus Plus, Foundation Fieldbus, and Profibus DP.

TEC2000[®]



This new microprocessor-based variation of the Series 2000 offers Total Electronic Control. Building upon its predecessor's solid foundation and mechanical torque sensing, TEC2000 brings a whole array of new common-sense features to the world of intelligent valve actuators. Attributes include a choice of three setup methods, full-function remote control modules that can be mounted 4,000 feet (1,200 m) away, and the largest, easiest-to-read LCD in the industry.



MANUFACTURING



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