# Fisher® Valves and Services for the Nuclear Industry

## Giving you world class nuclear support for the life of your plant!

### **Unequaled Nuclear Experience**

For over 35 years, Fisher® nuclear valves and associated services have supported nuclear facilities, worldwide. Thousands of ASME Section III N-Stamped and RCCM process control valves have been shipped around the globe. In fact, Fisher valves are installed in over 90% of the world's nuclear facilties. The manufacturing plant in Marshalltown, Iowa, United States was the first in the automatic control valve industry to receive the N-Stamp certification in 1971. And with over 4,500 employees, we're the largest control valve and regulator manufacturer in the world!

#### **Unrivaled Nuclear Expertise**

With over 250 dedicated nuclear employees located across the globe, we possess unique and unrivaled understanding in designing and providing the valve best suited for your nuclear application. Many Emerson nuclear application experts are active participants in the development of international industry standards. They can provide unrivaled expertise in safety, licensing and regulatory requirements.

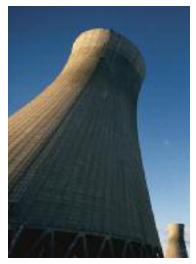
# Unmatched Nuclear Service and Support

Today, Emerson engineers can provide you with services designed to reduce maintenance and operating costs, while increasing plant efficiency:

**Engineering Services** — For every valve built, we maintain original drawings, code design reports, and seismic and qualification reports. We can provide extensive engineering services for your control valve programs:

- Application and process review
- Seismic analysis
- Design modification evaluation
- Weak link analysis
- Environmental qualification
- Spare parts support
- Seat load requirements
- Maintenance manual preparation and upgrades

**Global and Local Support** — We have the most extensive global network of field specialists anywhere. Whether it's diagnostic services, valve repair or parts, Emerson understands the relationship between its prompt service and support and your profitability. With facilities at strategic locations around the world, Emerson valve service centers give you fast turnaround of emergency and routine valve repairs. These services free up your maintenance personnel for other activities, while proving to be timesaving and cost-effective.





#### **Unparalleled Nuclear Products**

**Next Generation Technology** — Fisher nuclear products meet next generation seismic and EQ requirements. When you pair Fisher valves with FIELDVUE® digital valve controllers, your plant's overall throughput and availability can increase dramatically.

**Sliding-Stem Control Valves** — A broad range of sliding-stem control valves provide a variety of construction materials, flow characteristics and end connections. Complementary actuators and accessories are also available. A popular sliding-stem valve product line is the Fisher easy-e® used with ENVIRO-SEAL® packing systems.

**Rotary Control Valves** — When capacity and performance are the requirements, Fisher rotary valves are the answer. Popular rotary products include the Vee-Ball®, ēpluq, ēdisc, and POSI-SEAL®.

**Nuclear Grade Instruments** — A wide selection of Fisher digital, pneumatic and electronic instruments regulate valve position and variables such as level, pressure and temperature. They incorporate the use of EPDM (or EPT) elastomers, including O-rings, gaskets, and EPDM/Nomex® diaphragms. To meet 10CFR21 requirements, these are "commercial grade dedicated" under our 10CFR50, Appendix B, Q.A. Program. These instruments include the FIELDVUE DVC6000 digital valve controller, 3582NS positioner, 2625NS booster, and the 546NS I/P transducer (qualified to IEEE 323 and 344).

**Commercial Grade Dedication** — Emerson supplies a broad range of Fisher products as "commercial grade dedicated" under the 10CFR50, Appendix B, Q.A. Program. This greatly increases the range of our products that can be used in safety-related applications.







### **Unsurpassed Nuclear Capacity**

**Manufacturing** — Wherever your nuclear plant is located and anywhere you need to be, Fisher control valves are fully supported! Our manufacturing and assembly plants are equipped with sophisticated manufacturing technology and are fully accredited to meet stringent international quality standards.

**Testing** — We use strong theoretical and empirical data in developing application solutions and product design. Our global capabilities for validating control valve performance are unmatched in the industry. Current product testing capabilities include:

- Simulation and analysis
- Materials
- PlantWeb dynamic performance
- High temperature steam
- Dynamic performance
- Experimental stress
- Instrumentation development and software
- Flow
- Acoustics
- Cycle life
- Cryogenic
- Vibration
- VIDIGEOII

Emerson valve and instrument research and engineering capabilities extend worldwide with technology centers in North America, Europe, and Asia. And because we're invested in your future, a new technical development facility with even greater testing capabilities is currently being constructed in Marshalltown, Iowa, United States and will be fully operational in 2010.

**Quality Assurance Programs** — Quality permeates everything Emerson does. Our global quality assurance programs, endorsed at all levels of operation, include:

- 10CFR50 Appendix B
- B51
- PED
- NR Stamp
- TÜV
- N-285

- ISO9000
- N Stamp
- NPT Stamp
- RCCM
- Z299

Put our nuclear experience, expertise, and technology to work. To contact your local sales office, visit www.emersonprocess.com/Fisher

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