

**Enhance your plant reliability,
production, and safety.**



Lifecycle Services for Valves, Actuators & Regulators
Industry-leading services and support that enables Top Quartile performance.



You can't afford to halt operations due to unreliable equipment, overloaded staff, or safety concerns.

You're in charge of avoiding unplanned shutdowns, while balancing aging equipment with higher production goals. With hundreds, or thousands, of assets in your plant and a stretched workforce, your maintenance plan has become reactive. You don't have the bandwidth to assess declining process performers or to predict future replacements or repairs. You're left addressing maintenance issues—one after another.

“The significant investment in valves within any industrial process plant must be safeguarded with efforts to sustain high quality and reliable performance. Exacting factory design, manufacturing, testing and certification of industrial valves must not be compromised later through ill-advised maintenance practice.”

– Valve Magazine



“Reactive work is routinely reported to cost two to five times more than planned work.”

– Ron Moore, The RM Group



Approximately one trillion dollars in company value is lost every year due to sub-optimal operating performance.

– CapIQ, IHS Markit, Multiple Benchmarking Firms, Emerson Analysis



“Today's occupational fatality data show a tragic trend with the third consecutive increase in worker fatalities in 2016—the highest since 2008. America's workers deserve better.”

– Loren Sweatt, Deputy Assistant Secretary for OSHA





Instead of relying on reactive maintenance methods to address issues, what if you could keep your plant running safely and reliably—all while meeting business goals?

Lifecycle Services for Your Final Control Assets—Valves, Actuators & Regulators



Emerson leads the way with industry-defining end-to-end digital service experiences, helping you achieve superior outcomes through our maintenance, reliability and performance offerings. The tools we've developed support the digital transformation of the process industry, providing the confidence to extract the maximum value from your service and technology investments. Our teams partner with you across the globe to help you maintain safe operation, improve reliability, and optimize plant performance.

Imagine how smoothly your operations would run if you could delegate all of your maintenance challenges to an expert you trust. Let us define the scope of work and help you plan effectively.





We leverage robust technology and have it available for you wherever your operations are. Our local experts will help you address your biggest challenges and work towards achieving Top Quartile performance.

Stay ahead of or quickly address day-to-day plant maintenance.

“Emerson’s local repair team and the parts they expedited helped us avoid a costly outage. The application expertise and service Emerson technicians provided improved the reliability of a critical valve.”

– Automation & Electrical Category Manager,
Texas Refinery

Maintenance ► p6

Eliminate the unknowns with digital tools and solutions.

“The thorough planning leading up to the turnaround made for much smoother execution and minimized surprises. We like to avoid turnaround surprises.”

– Instrumentation Team Member, Texas Chemical Plant

Reliability ► p8

Don’t let inefficiencies hold back your plant performance.

Improve your plant operations by getting the most out of your equipment. We can help simplify your process automation and identify possible gaps to help you gain a competitive edge.

Performance ► p10

Zero compromises on plant and personnel safety.

Just like you, we are passionate about zero safety incidents. We consistently measure health and safety performance to assure continuous improvement and high standards while working in your facility.

Safety ► p12



Work towards optimizing MAINTENANCE solutions with improved efficiency and uptime.

You are expected to keep your plant running continuously and safely, without negatively impacting your production goals. But, when faced with persistent changes in technology, degrading assets, and a shrinking workforce, you're forced to utilize a reactive maintenance plan. You need consistent, ongoing care of every asset.

What's your challenge?



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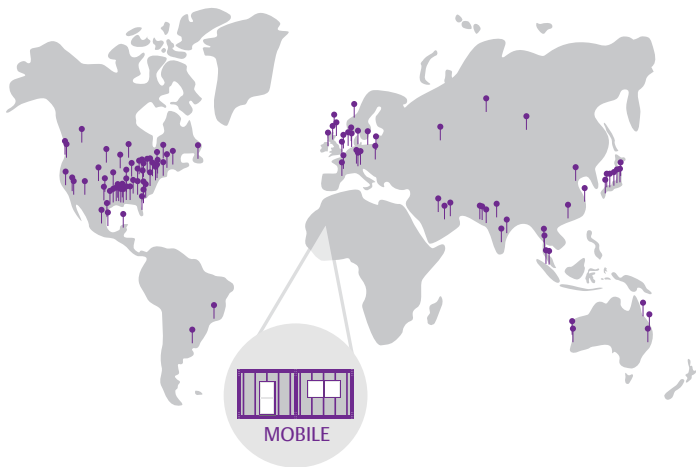
– Valve Magazine

What's your opportunity?

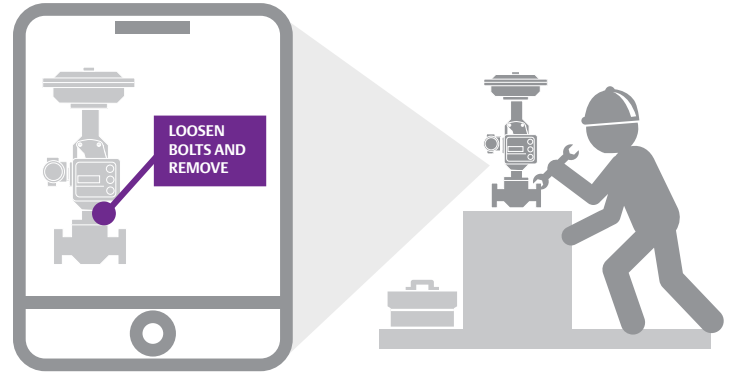


Our technicians are trained to maintain Emerson valves, actuators, and regulators—and can assist with non-Emerson products. They can help you get your operations back up and running.

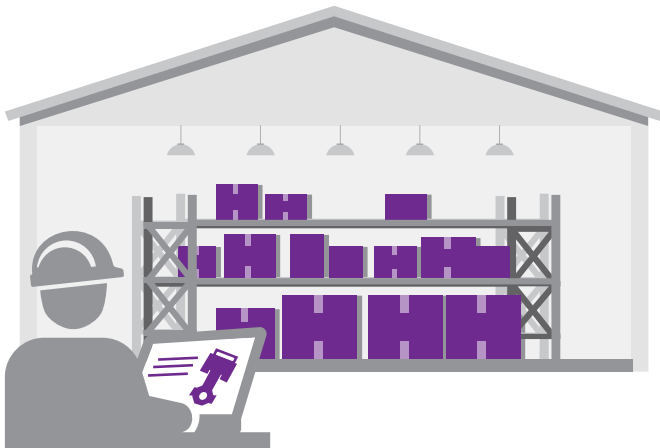
Expertise to optimize safety and minimize costs



Local Support. With over 100 regional service centers, we offer unmatched local support around the world. Not close to one of our service centers? No problem! We have a fleet of mobile service centers that are configurable to your project and placed at your site along with onsite expertise. No matter where you are located, we make ourselves available to help you implement changes during normal operations or prepare for planned outages without diverting your manpower from other important duties. [See Locations](#) ► p14



Remote Technical Support. Whether it's startup services, comprehensive maintenance, or on-demand troubleshooting, our knowledgeable, results-oriented experts will help keep you operating at peak efficiency 24 hours a day, 365 days a year. We're dedicated to delivering technical support at any time and place you might need it. For example, our Remote Assistance service utilizes augmented reality to connect with technical support to guide you through maintenance tasks remotely and at your convenience. [► Watch Video](#)



Installed Base and Spares Planning. When critical parts fail, you need replacement hardware components quickly to minimize costly disruption to plant operations. Let us help you achieve the right level of spares needed to support your plant, whether they're shipped to you or managed onsite.



QuickShip Program. This world-class delivery program allows for fast shipment of standard and specialized parts and products to maximize speed and responsiveness for you. Our global infrastructure, local presence, and commitment to service enable you to avoid downtime, stay on schedule, respond to the unexpected, and control costs in increasingly challenging environments. [► Learn More](#)





Strategic maintenance can help improve plant **RELIABILITY** and preserve your investments.

Your productivity can vary depending on changing media characteristics, equipment wear, incorrect calibration, and environmental fluctuations. Even with an effective maintenance strategy, determining how these changing operating conditions affect your output poses a significant challenge. You need better support in prioritizing what matters most.

What's your challenge?



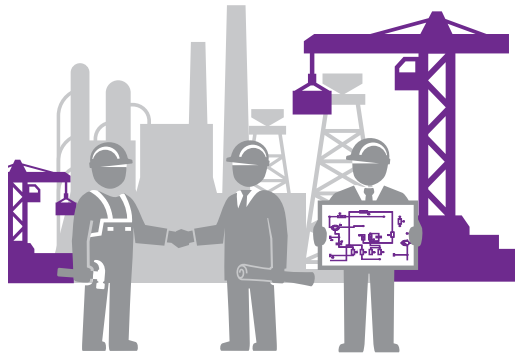
"Reactive work is routinely reported to cost two to five times more than planned work."
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What's your opportunity?



Leveraging the latest in digital technology tools and systems for services, our specialists can analyze your process and provide insights on taking advantage of opportunities for increasing efficiency, maximizing uptime, and reducing risk.

Eliminate the unknowns with prognostics and planning



Startup & Commissioning. Getting a facility or process up and running under a tight timeline can be challenging, especially as you integrate complex technologies that require specialized skillsets to support. With proven, streamlined startup and commissioning services implemented by certified technicians, you'll be able to address potential regulatory, operational, and project risks early to help ensure a safe, timely startup. ► [Learn More](#)



Site Evaluation & Walkdown. Utilizing our Walkdown App, we will identify your assets and their current condition and document all serial numbers and valve data. We will determine spare parts for each assembly, old or obsolete equipment, and potential issues that may cause problems later on. When the audit is complete, you're able to use a report to properly plan and execute your next shutdown, turnaround, or outage. ► [Learn More](#)



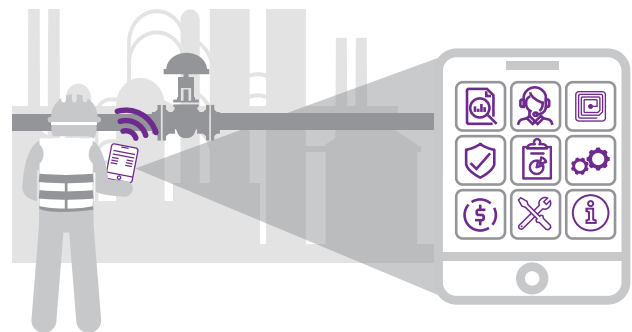
Valve Condition Monitoring. Our subject matter experts remotely monitor your asset condition, interpret the results, and provide an actionable summary supported by information from your plant floor. You can make informed decisions that are aligned with maintenance and operational objectives to improve the reliability of your existing assets, systems, and applications. ► [Learn More](#)



Onsite Diagnostics. Combine online and offline diagnostics to indicate which valves need your attention before problems occur. Diagnostics data is used to optimize and preserve your asset reliability to possibly shorten shutdowns, cut the timeline for startups, and result in higher production with less variability.



Shutdowns, Turnarounds & Outages. Properly planned shutdowns, turnarounds, and outages can be ideal opportunities to align maintenance with your business goals and implement long-term reliability strategies. Using our proven process for scheduling and prioritizing ongoing maintenance, we can evaluate key performance indicators and asset health to develop a maintenance plan that can maximize your return on investment and reduces risk. ► [Learn More](#)



Digital Tools Portfolio. Lessen human error and better prioritize maintenance by automating your business processes. Our digital tools and apps help you improve communication, data-gathering accuracy, and worker efficiency. By streamlining plant walkdowns, asset inventory, repair reporting, and plant monitoring, we can help you deliver projects on time and on budget.





A trusted technology and service partner can help you reach Top Quartile PERFORMANCE.

Plant disruptions, unplanned repairs, and inefficient work processes can hinder you from achieving Top Quartile performance. You're under pressure to hit your financial goals with your existing assets, but managing safety, reliability, production, and energy reduction often becomes overwhelming. You need a better way to ensure safety and bring peace of mind to your production and service strategy.

What's your challenge?



Approximately one trillion dollars in company value is lost every year to sub-optimal operating performance.

–CapIQ, IHS Markit, Multiple Benchmarking Firms, Emerson Analysis



What's your opportunity?

The pathway to Top Quartile performance starts with choosing Emerson as your strategic services partner. Let us help you come in under budget, stay on schedule, and maintain full compliance.

Dedicated support can help improve your return on investment



Resident Engineer. Place a pre-qualified, trained engineer at your facility under an extended contract. Benefit from field support, project management, and consulting expertise you need for success without the hassle and expense of hiring new permanent personnel. Also, we can set up a mobile service center to save you time and money with maintenance tasks.



Asset Management Strategy. Let us manage all of your final control assets—valves, actuators, regulators, and associated instrumentation. We'll leverage our OEM access to improve your return on investment by maintaining assets or making necessary product upgrades. We'll start by taking inventory with our Asset Management Tag, allowing you to track your assets with an RFID tag to digitally obtain critical information to make smarter repair or replacement decisions.

► [Learn More](#)

Supplement work with long-term service agreements

	100	200	300	400
On-Demand Maintenance Support Emergency Shutdowns	✓	✓	✓	✓
Scheduled Preventive Maintenance Shutdowns, Turnarounds & Outages Onsite Diagnostics		✓	✓	✓
Predictive Maintenance Connected Services Optimization & Upgrades			✓	✓
Fully-Managed Services				✓

Service Support Agreements. You can choose which services we perform for you for an extended period of time. The progressive tiers provide flexibility to decide how much to involve Emerson in taking care of your plant maintenance, reliability, and performance needs. From on-demand support to fully-managed support, we will always provide OEM certified technicians and engineering expertise when delivering our services.



For more information, visit [Emerson.com/FinalControl](https://www.emerson.com/FinalControl)



Protect the SAFETY of your people and your production facility.

You are passionate about achieving and maintaining zero safety incidents in your production facility. In order to meet your performance goals, you bring in support to help you with asset efficiency and plant assessments. However, you cannot risk the welfare of your employees and security of your facilities by doing business with support teams who don't take safety seriously. You need a trusted service partner who values and promotes a strong safety culture—just like you.

What's your challenge?



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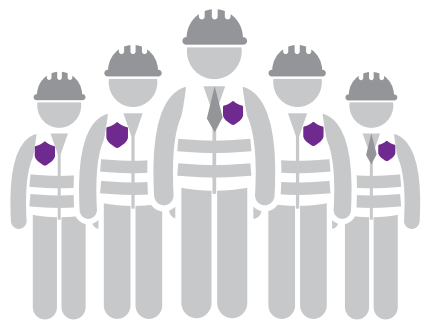
What's your opportunity?

Employee safety and health is a core business value and we are committed to continuous improvement. We are conscious of safe behaviors on our sites and more importantly, at yours.

Safety & Quality

We are unwavering in our commitment to the highest standards of safety and quality for ourselves and our customers.

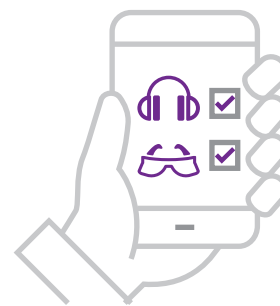
Core Value. At Emerson, safety isn't just an initiative, it's a core value. We demonstrate a personal commitment to following and encouraging safe behaviors. We've established clear responsibilities and processes for monitoring work and measuring results.



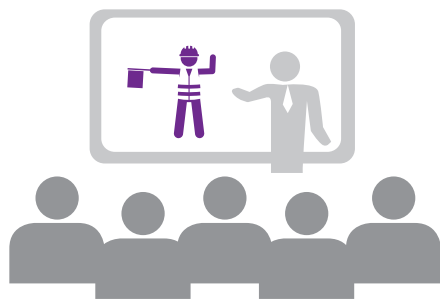
Safety Council and Local Committees. Employee engagement drives our safety culture. We include a variety of people at all levels of the organization. Their mission is to develop and promote a safe and healthy environment by sharing lessons learned, best practices, and future initiatives for the sole purpose of protecting our employees and helping to ensure their safety in your facility.



Continuous Improvement. Just like you, we are committed to zero injuries of our personnel. Our employees are our most important asset, so we are motivated to ensure their safety at our site and when working at yours. Our ongoing improvement projects have resulted in keeping our employees safer today than yesterday.



Job Safety Assessment App. This digital application streamlines the safety checklist procedure. Photos of identified risks and digital signatures assist with speeding up the process. Upon conclusion of the safety check, our technicians deliver a consistent, easy-to-use safety report.



Safety Moment. At the start of every meeting, large or small, office or factory setting, the organizer shares a tip regarding safe behavior while at home or on the job. Our culture is deeply embedded in careful work practices so our employees can return home to those that matter most.



Lifesaving Behaviors. We've introduced the 12 Lifesaving Behaviors initiative to strengthen each person's understanding of critical behaviors that can keep us safe every day—whether we're in an office, in a factory or shop, at a customer site, or even at home.



Ongoing Training. We ensure that our personnel have the proper training and skills to deliver the quality services and support you expect. Services employees participate in monthly trainings that cover topics from prevention tactics to hazard recognition and proper communication.



**Delivering global strength with local expertise
with service capabilities near you.**



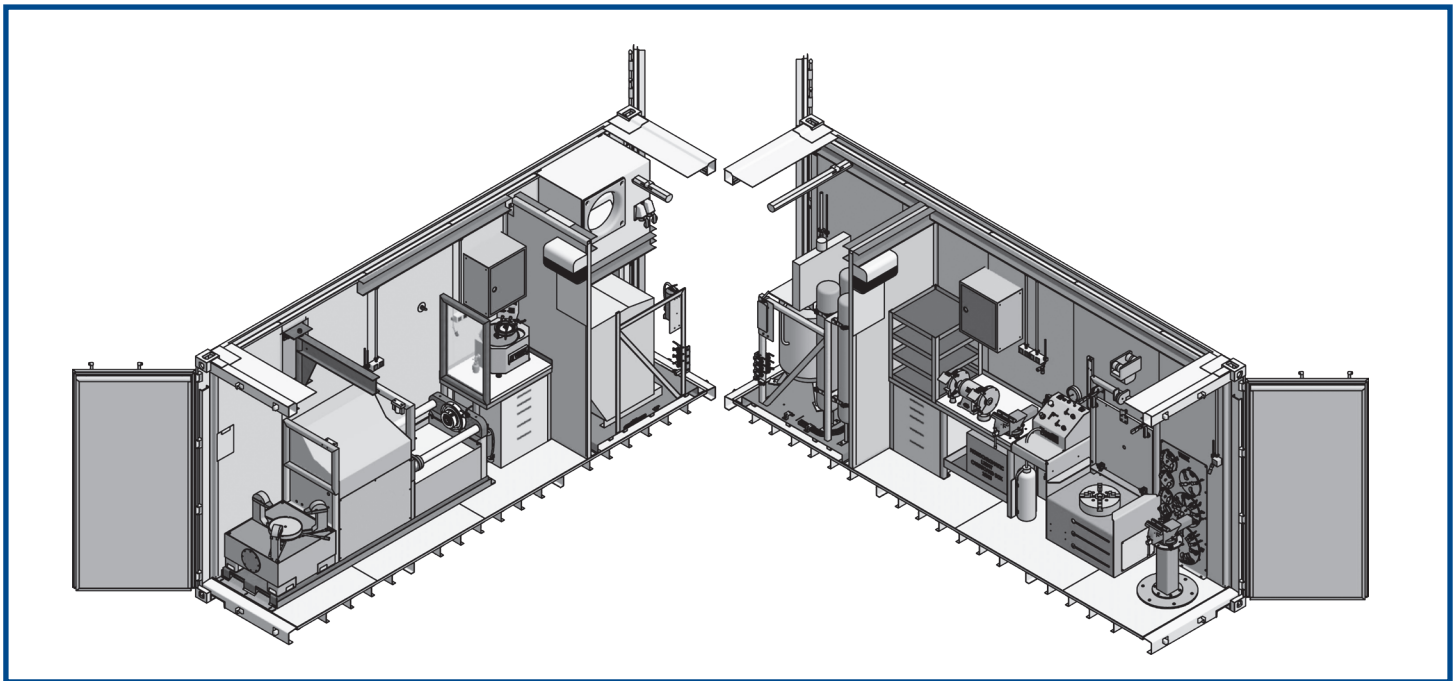
With over 200 regionally-located service centers worldwide, you can count on Emerson's service network to provide you local support. With 24/7/365 after hours service coverage and factory trained and certified technicians, Emerson is equipped to provide maintenance, reliability, and performance services to keep your plant up and running.

Regional and Mobile Service Center Benefits

- Reduces downtime with OEM onsite parts and spares
- Promotes safety through certified procedures
- Improves STO efficiency and responsiveness
- Save money with direct access to Emerson products
- Harmonized services for all valve assets
- Eases pain of discovery or emergent work
- Direct contact with Emerson experts
- Wi-Fi dedicated, secure network to support digital tools

Emerson sales offices and service centers are authorized to support and repair Fisher™, Bettis™, Keystone™, KTM™, Vanessa™, Anderson Greenwood™, Crosby™, Sempell™, Baumann™, Clarkson™, Enardo™, Tartarini™, EIM™, Shafer™, Yarway™, and other Emerson and non-Emerson products.

Mobile service centers for remote locations or long-term projects



Pressure Relief Valves Unit Features

- Software-controlled test benches for valve popping and tightness testing.
- Test certificates can be printed immediately.
- Complete overhauling capacity, including fully equipped workshop and lapping machine.
- Pressure relief valve test stand allows for re-certification and validation of valves to OEM standards.
- Easy adjustable work schedule and/or service rescheduling to meet last minute changes.
- Office area supports digital tools reporting to help you make data-driven decisions quicker to reduce downtime.
- Designed to be fully compliant with environmental, safety, and health regulations per country.

Combination Unit Features

- Field tooling to service any brand of control valves, pressure relief valves, and isolation valves.
- High-pressure air compressors for test stands and pneumatic tools.
- Seat leak and hydro testing of control valves and pressure relief valve test stand allows for re-certification and validation of valves to OEM standards.
- Machine shop units with lathe, milling machine, drill press, and sand blaster for machining in remote locations.
- Office area supports digital tools reporting to help you make data-driven decisions quicker to reduce downtime.
- Designed to be fully compliant with environmental, safety, and health regulations per country.

► Watch Video Tour







For more information, visit [Emerson.com/FinalControl](https://www.emerson.com/FinalControl)

With lifecycle support tailored to fit your specific needs, we can help you reach Top Quartile performance.



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