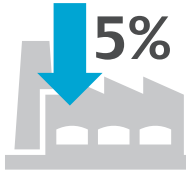


Valve Condition Monitoring

What's your challenge?



ARC Advisory Group estimates that global process industries lose \$20 billion, or 5% of annual production as the result of unscheduled downtime. It is estimated that nearly 80% of these losses are preventable. ⁽¹⁾

Valves are critical elements of your plant operations, as they play a key role in your overall profitability. Production demands and never-ending reactive maintenance often receive high priority—even when there a strong preference to move towards a predictive maintenance philosophy. You need to reduce variability, minimize downtime, and integrate technology upgrades into your work practices for a more significant business impact.

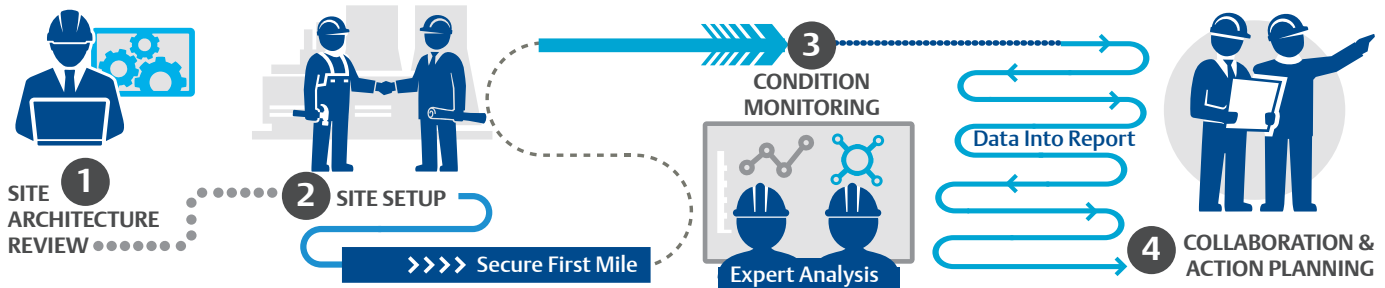


What's your opportunity?



The earlier you can identify poorly behaving valves, the better. Plant reliability and a well-planned shutdown, turnaround, or outage depend on it. Obtaining a better return on the smart technologies you've already invested in are the cornerstones Emerson builds upon when implementing Valve Condition Monitoring. Within our Connected Services portfolio, a core component of the Plantweb™ digital ecosystem, Valve Condition Monitoring enables you to focus on your strategic priorities rather than spending scarce or valuable resources developing in-house analytic expertise.

With the help of Emerson's certified experts, we'll help you harness the power of the technologies you've deployed, but yet not fully utilized. Plus, we can design a data communication infrastructure to securely transmit your data from your plant network to our cloud environment. Best of all, you'll get a global network of analysts to efficiently gather, analyze, and interpret data from your valves and other assets. Actionable, data-driven recommendations enable you to deploy a more predictive maintenance approach to minimize cost and process variability while improving plant reliability.



(1) ARC Advisory Group, 2011

LIFECYCLE SERVICES
Valves, Actuators & Regulators



Use actionable information to address valve issues before they impact plant reliability.

Regardless of your maintenance strategy, implementing Valve Condition Monitoring can help you uncover issues before they impact your plant's variability or reliability. You'll also be able to take full advantage of our broad range of expertise, capabilities, digital tools, and proven processes to help adjust your maintenance approach to maximize your uptime.

Site Architecture Review



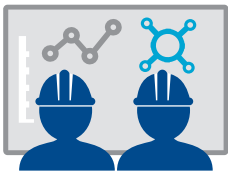
- Emerson cybersecurity experts review site specifications with your IT/OT team
- Final data communication architecture is agreed upon by all parties

Site Setup



- Detailed instrument configuration is performed
- Diagnostic tests are scheduled
- Secure First Mile™ data transfer methods installed and validated

Condition Monitoring



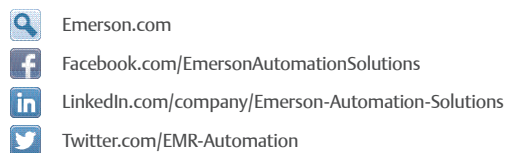
- Time-series analysis of valve data is interpreted
- Automated analytics process the data
- Data is reviewed weekly and urgent issues are communicated
- Formal reports are created monthly summarizing condition of valve assets
- Emerson conducts peer review for technical accuracy and consistency

Collaboration & Action Planning



- Emerson shares monthly report of data findings
- Monthly collaboration session is scheduled with your account manager and your service analyst to discuss solutions to identified conditions
- Service analysts are available to discuss valve repair strategies

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