



**Valve Condition Monitoring**

**Improve the Maintenance, Reliability,  
and Performance of Your Entire Process**



## Do You Know the Health of Your Valves?

Prioritizing your plant's maintenance, reliability, and performance is crucial. Your valves are critical elements to your process availability. Knowing when they need attention can mean the difference between millions in profit or unplanned downtime.

If your plant is like most these days, you're being asked to minimize downtime, reduce variability, and integrate your technology upgrades into your work practices — for a better return on investment. Updating work practices and completing upgrades is a luxury you don't have because of the increase in maintenance tickets resulting from ongoing production demands.

- You're unable to be proactive about maintenance because you're forced to deal with lower value priorities instead of focusing on reliability improvements.
- You're unable to add organizational capacity to develop expertise in-house, yet you need a broad range of expertise such as data interpretation to resolve issues and better prioritize maintenance.
- You lack the diagnostic data and insight needed to easily tell the health of your valves to help better discern maintenance criticality to ensure you're working on the right assets.
- You don't always have the on-site competencies to continually leverage your technology. This may be due to a retiring workforce and limited new talent prospects.
- You don't have the infrastructure for diagnostic data management from multiple, complex interfaces and data capture tools.





Don't settle for the status quo when it comes to valve maintenance. Meeting your increasing production demands and staying ahead of aggressive competition requires a more sustainable, streamlined, and proactive approach.



**\$20** **BILLION** annual production losses

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.

– ARC Advisory Group, 2011



A cross-industry survey indicated that most process industry professionals estimate that more than 60% of all safety incidents occur during reactive maintenance.

– Kihammar, Christer in IDCON Safety/Reactive Maintenance Survey, 2004

## Realize a Return On Investment You've Been Working Towards

Obtaining a better return on the smart technologies you've already invested in are the cornerstones Emerson builds upon when implementing Valve Condition Monitoring.

We'll work together to lay out a comprehensive plan with options for implementing Valve Condition Monitoring based on agreed upon objectives.

With the help of Emerson's certified product experts, we'll help you harness the power of the technologies you've deployed but not fully realized. And we'll add the hardware and software needed for a seamless, turnkey solution.

Best of all, you'll get a global network of analysts to efficiently gather, analyze, and interpret data from your valves and other assets — complete with actionable, data-driven recommendations that will enable you to improve your plant's maintenance, reliability, and performance. So you can focus on other business goals.

**MAINTENANCE COSTS FELL FROM 16% TO 10%**

Between 1991 and 2008, North American industrial plants increased preventive and predictive maintenance from 45 percent of maintenance activities to 66 percent. At the same time, maintenance costs fell from 16 percent to 10 percent of machinery and equipment spending.

- Blache, K.M. "North American Maintenance & Reliability Benchmarks," University of Tennessee Reliability and Maintainability Center, 2008.

**10%**



With Emerson's local network of subject matter experts and factory-certified technicians using your perceptive technologies, we can help improve the safety, reliability, and profitability of your operations.

## Spend Less Time Focusing On Your Valves

As energy prices, feedstocks and even labor rates become more globally uniform, your plant uptime becomes the ultimate weapon to compete. Plants with the greatest uptime will enjoy the highest output and lowest cost.

Regardless of whether you perform repairs reactively, preventively, or predictively, Emerson's Valve Condition Monitoring helps you uncover issues before they impact your plant. You'll also be able to take full advantage of our broad range of expertise, technology, capabilities, consistent tools, and proven processes that will help move your organization to a proactive maintenance approach that maximizes your uptime.

Using next generation network technology, asset management, and perceptive technologies, we'll remotely gather and aggregate diagnostic data from your process control equipment on a regular schedule. Emerson's factory trained and certified analysts will leverage the data to look for patterns of systemic degradation.

Based on analysis, you'll receive data-powered insights into the health of your valves and direct recommendations on maintenance that will:



Optimize your outage schedule with prioritizing which valves need maintenance as well as having the right spare parts on hand.



Improve your plant sustainability by reducing energy consumption and fugitive emissions from your valves.



Allow you to spend less time focusing on your valves.

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***Want to ease into a predictive maintenance strategy?  
Then augment your staff's skill sets with an Emerson valve expert.***



## Improve the Maintenance, Reliability and Performance of Your Operation

With Valve Condition Monitoring, you can rely on your Emerson expert to improve your plant's uptime by having a watchful eye on your critical valves.

Regardless of your current conditions, regardless of your starting point, Emerson can work with you to develop monitoring plans that support your operational goals.

Contact your local Emerson sales office to learn more about Valve Condition Monitoring and request an asset criticality assessment to take the next step in improving the performance of your entire process.



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