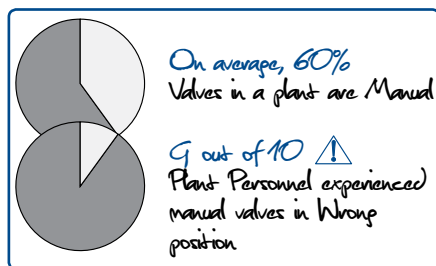


“Out of the Box” Wireless Automated Valve Package

Seamless Implementation from the Box to the Line

Industry Challenge

Wireless is a key enabler to valve automation when sourcing and implementation are too complex and costly



Manual valves left in the wrong position due to human error may lead to poor production and safety issues



Coordinating specifications between numerous valve actuator and control box supplier is a time-consuming process



Time and cost of provisioning spare I/O into the host system, running wires to the field, and constructing the valve assembly prevent many manual valves from being automated

Monitoring and Controlling Discrete Valves

Have manual valves in the wrong position led to a bad batch, harmful environmental release, or unsafe incident? How about discrete valves automated with a solenoid with no position feedback?

What if you could reliably control the valves and have accurate position feedback without the implementation barriers and costs of wired automation?

What if you could have a single reliable solution provider for the Valve, Actuator, Mounting Accessories, and Wireless controller?

Where “Blind Valves” Needs Your Attention

- Fill** Increase reliability and eliminate sources of variability caused by inconsistent switch feedback from mechanical switches
- Flush** Eliminate spills caused from flush valves left open by operations, or misalignments from mechanical switch feedback
- Drain** Reduce impact on resources and delays in processing waiting on human resource availability
- Transfer** Eliminate unwanted variables in the process caused by a lack of automation feedback and mechanical switch issues

“Out of the Box” Solution

Emerson is positioned as a technology solutions provider to offer an easy to implement wireless automated valve package in standard valve sizes and configuration suited to your plant’s needs.

Emerson’s Smart Wireless Solution delivers these benefits easily and cost effectively using IEC approved WirelessHART™ technology.



Actuation Technologies Solution: Out of the Box Wireless AVP



TOPWORX™

TopWorx 4310 Wireless On/Off Controller executes commands from the host system to change valve position and transmits valve position for confirmation of change in the host system. www.emerson.com/en-us/automation/topworx

Local Beacon Indicator and Manual Override

Local beacon allows the operator to visually identify valve position from a distance and the manual override enables valve position to be changed in the field.

BETTIS™

D-Series reliable pneumatic rack and pinion actuators. Designed for operation of plug, butterfly, ball valves, and other 90° turn devices. They are compact and lightweight, making them suitable for installation within areas of tight piping connections..

For more detailed technical information see our online documentation at www.emerson.com/bettis

Quarter Turn Valve

Stainless steel valve with threaded ends, blowout-proof stem design and investment cast components, RPTFE seats, stuffing box ring. Meets NACE MR-01-75. Sizes 1/2" to 1 1/2".

Benefits of Emerson's "Out of the Box" Wireless Solution

Wireless Improves Worker Efficiency

- Less time moving valves means more time to attend to scheduled tasks
- Wireless allows you to automate process startup, shut down and switch over procedures

Wireless Improves Production Efficiency And Reduce Lost Batches

- Faster valve alignment means more time producing
- Closed loop control means no human error to prevent bad batches due to errors in the process
- Eliminate sources of process variability with automation of manually-operated steps

Wireless Reduces Unwanted Emissions

- Automating manual valves reduce the chance of a manual valve being the root cause of an environmental spill
- Fill or transfer valves can be sources of excessive level, temperature and pressure processes that cause trips and downtime

Wireless Improves Worker Safety

- Wireless control reduces worker exposure to hazardous environments, inclement weather, and mistake-prone infrastructure like slippery ladders and stairs
- Reduced operating time will give your experienced workforce more time to train new workers and potentially reduce mistakes

Wireless Out of the Box Reduces Complexity

- Convenience and Confidence in a Single Source Provider
- Whether is it a Valve Operating System (Actuator, NAMUR Mounting Kit and Wireless Switch) or Automated Valve Package (Valve, Actuator, NAMUR Mounting Kit and Wireless Switch), no major modification or field work is required. No additional payment for bracket design modifications

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