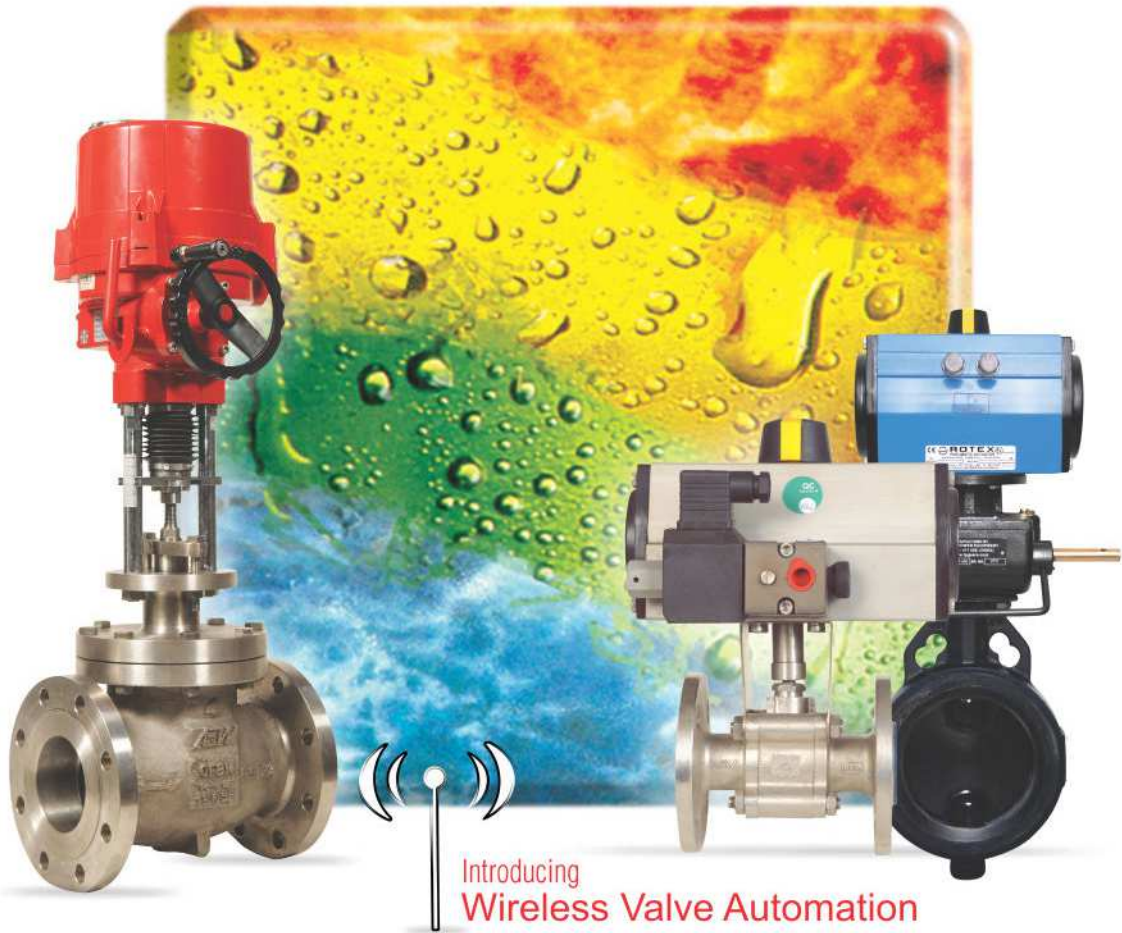


AUTOMATED VALVES



Introducing
Wireless Valve Automation

AEW

Commitment To Quality



AUTOMATION VALVES

Overview

Automation is the use of machines to optimize productivity. The correct incentive for applying automation is to increase productivity, and/or quality beyond that possible with current human labor so as to realize economies of scale and predictable quality levels. In the scope of industrialisation, automation is a step beyond mechanisation. Whereas mechanisation provides human operators with machines to assist them with the muscular requirements of work, automation greatly decreases the need for human sensory and mental requirements while increasing load capacity, speed, and repeatability.

Valve Automation

A automated on/off valve is the ideal replacement for a valve currently actuated by a human operator. The controller eliminates the potential for human error and allows work practices to be automated into interlocks and safety checks. A typical valve automation assembly contains:

1. Valve
2. Automation (pneumatic or electric actuator)
3. Solenoid valve
4. Limit switch

Operation

A wireless automated valve is operated in the same way as a solenoid and limit switches. When the right logic conditions exist or action is executed from the control system, the valve moves and reports back the position to the control system for confirmation of the change.

Wireless Control

The simplicity of wireless control ensures that a digital set point for open and close can be sent from the Distributed Control System (DCS) or Programmable Logic Control (PLC) and can receive position feedback from the same field instrument. A wireless controller is connected to a wireless network through GSM / GPRS modem in an arrangement similar to traditionally wired I/O; however, the set point and position feedback are wireless.



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The Take Away

Wireless has been used for years for monitoring applications to extend the benefits of automation beyond process control. The technology has proven itself, and on/off automation can eliminate traditional cost and engineering barriers. Whether it is for a fill, feed, flush, bypass or other type of valve application, Wireless automation can improve process efficiency, reduce costly mistakes, and improve worker safety and productivity.

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