WESTLOCK CONTROLS

QUANTUM® CONTROL MONITORS

INTEGRATED VALVE MONITORING & CONTROL

www.westlockcontrols.com

WESTLOCK® CONTROLS

Welcome to Westlock Controls, the global leader in valve monitoring and control solutions. For over four decades, we've been dedicated to engineering products that stand the test of time and provide our customers with the diagnostic tools needed for optimal operational performance.

WESTLOCK® QUANTUM SERIES

The Quantum® Series represents a new era of valve automation—one where monitoring and control are no longer separate functions, but a unified, intelligent system designed for speed, accuracy, and operational clarity. By integrating advanced position sensing with low-power solenoid control in a single compact platform, Quantum streamlines the entire valve operation workflow. The result is faster commissioning, simplified maintenance, and more reliable performance across every stage of the process.

Supporting the platform is the Falcon Series: a robust lineup of pre-wired solenoid valves engineered to enhance flexibility and accelerate setup. With multiple material options, coil voltages, and configurations, Falcon adapts seamlessly to a wide range of applications. Its built-in spool position indicator provides instant visual diagnostics, empowering technicians with the insight they need to keep systems running smoothly.

Together, Quantum and Falcon deliver a powerful, integrated approach to valve automation—combining intelligence, efficiency, and field-proven reliability to elevate plant performance and reduce operational complexity.

KEY FEATURES

- Integrated monitoring + control by combining position sensing and low-power solenoid actuation in one compact unit, reducing components and simplifying system design
- Fast commissioning with pre-wired solenoid valves and built-in diagnostics to accelerate setup and minimize installation time in the field
- Versatile valve compatability for rotary actuators and adaptable to linear valves with explosionproof housings and hermetically sealed switches
- Global approvals, suitable for general-purpose to hazardous locations, ensuring reliable performance across diverse industrial applications
- Efficient, all-in-one architecture to streamline valve automation, lower energy consumption, and reduce maintenance complexity for long-term operational savings

QUANTUM® SERIES Built for Maximum Performance

CONFIDENCE IN EVERY CYCLE

The Quantum Series is engineered for environments where reliability isn't optional—it's mission-critical. Paired with Falcon solenoid valves, Quantum delivers unwavering performance across the harshest conditions, ensuring valves respond accurately and consistently every single cycle. Its integrated design minimizes failure points and strengthens long-term reliability, giving operators confidence in critical applications where uptime and safety matter most.

CLEAN AIRFLOW FOR CONSISTENT PERFORMANCE

Falcon's innovative exhaust port design directs airflow to the side, preventing contamination from water, dust, pollen, and other debris that commonly disrupt conventional solenoid valves. By keeping the airflow path clean and unobstructed, Falcon maintains stable operation and reduces maintenance needs.

The rugged, protected spool indicator further enhances reliability by shielding critical components from incidental damage, ensuring the entire assembly performs consistently over time.

ENGINEERED FOR HARSH ENVIRONMENTS

Quantum is built to perform where other systems fail. Its anodized aluminum construction and 316 stainless steel wetted parts withstand corrosive atmospheres, outdoor exposure, vibration, and demanding process conditions. Whether installed in wet, dry, or chemically aggressive environments, Quantum delivers stable, dependable performance.

SAFETY INTEGRITY YOU CAN TRUST

Designed to meet SIL 3 requirements, Quantum provides exceptional safety integrity for hazardous and safety-instrumented applications. Its robust architecture ensures reliable actuation and monitoring during emergency shutdown scenarios, giving operators confidence that valves will respond precisely when safety depends on it.

PERFORMANCE ACROSS EXTREME CONDITIONS

Quantum stays online and responsive across extreme temperatures—from –40°C in freezing pipeline environments to +85°C in scorching refinery conditions, depending on model.

FALCONV HIGHLIGHTS

FalconV solenoid valves are purpose-built to maximize Quantum's performance.

With low-power operation, a machined aluminum spool, strong return spring, U-cup piston seal, bubble-tight performance, and long-life Krytox® lubrication, FalconV delivers exceptional reliability and a 10-year service rating.

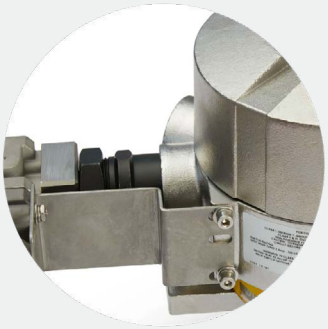
QUANTUM® SERIES Integration Savings

UNIFIED MONITORING + CONTROL

Quantum combines valve monitoring and solenoid control into one compact, intelligent unit, eliminating the need for separate devices, extra wiring, and multiple mounting steps. This unified architecture immediately reduces complexity and creates a cleaner, more efficient valve automation package. By consolidating components, plants gain faster installation, fewer potential failure points, and a more cost-effective path to reliable operation.

FASTER, CLEANER INSTALLATION

Because the solenoid valve is factory-wired directly to the terminal strip, Quantum arrives ready for immediate integration. Technicians no longer need to mount and wire multiple certified devices, which significantly cuts installation labor and reduces wiring errors. This streamlined approach delivers up to 20% savings in upfront installation costs, giving plants measurable financial benefit from day one while accelerating project timelines.



SINGLE-POINT WIRING

Quantum's pre-assembled design enables true single-point wiring, allowing the entire monitoring and control system to be connected through one terminal interface. Commissioning becomes faster, more consistent, and far less error-prone—especially in hazardous locations where wiring multiple devices adds cost, risk, and time. This simplicity shortens startup windows and ensures repeatable, reliable installations across technicians and shifts.

UNIFIED HAZARDOUS-AREA CERTIFICATION

Traditional valve automation requires separate hazardous-area approvals for the switchbox, solenoid valve, and auxiliary devices.

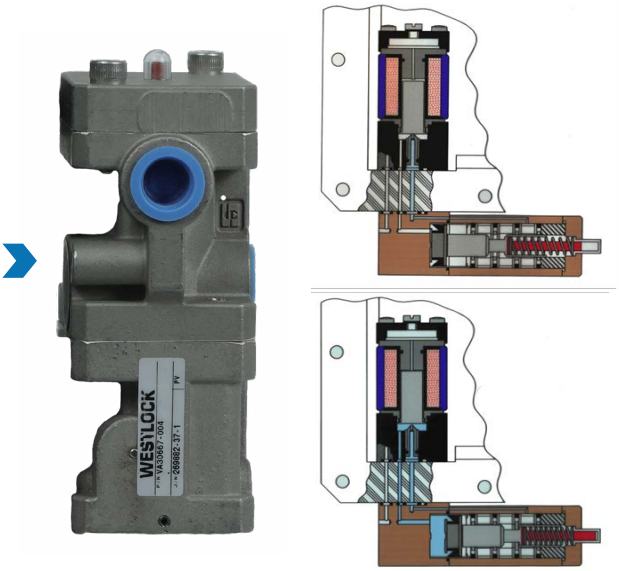
Quantum eliminates this burden with one unified certification that covers both monitoring and control. Engineering teams spend less time managing documentation, compliance reviews move faster, and project approvals become more predictable. This consolidated certification structure directly reduces administrative overhead and accelerates deployment.

QUANTUM® SERIES Real-time Field Diagnostics

TROUBLESHOOTING & MAINTENANCE

In an industry where downtime is costly and diagnostics are often limited, Quantum gives operators something they rarely get: instant clarity. Designed to eliminate guesswork, Quantum transforms troubleshooting from a reactive chore into a fast, intuitive process that keeps your plant running at peak efficiency.

At the heart of this advantage is the Falcon solenoid's high-visibility red spool indicator, engineered to provide immediate insight into valve and solenoid status. With a single glance, technicians can pinpoint issues, verify actuation, and confirm system health—no tools, no disassembly, no wasted time. This level of visibility empowers teams to act quickly, reducing unplanned downtime and accelerating recovery when issues arise.



Quantum's modular, field-friendly design makes maintenance just as seamless. Components can be replaced quickly and safely, enabling proactive upkeep without disrupting operations. The system's rugged construction and smart layout minimize wear points, extend service life, and simplify routine checks, giving maintenance teams more control with less effort.

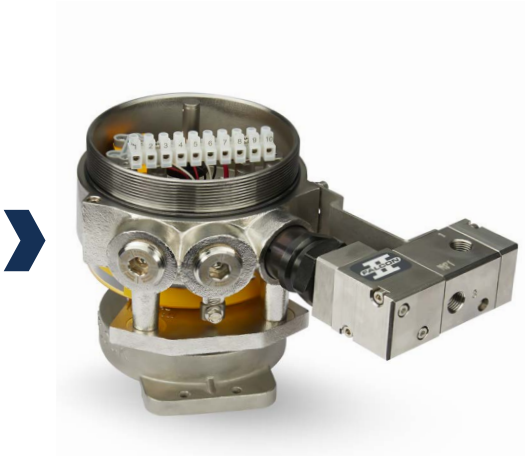
For plants under pressure to do more with fewer resources, Quantum delivers a decisive edge: faster diagnostics, easier maintenance, and a system that stays online when it matters most.

POWER THAT ADAPTS TO YOUR PROCESS

Quantum delivers the kind of performance today's plants demand—fast, efficient, and ready for anything. With enhanced flow capacity (Cv) ranging from 1.4 to 4.3 on aluminum models and 1.4 to 3.5 on stainless steel, Quantum automates a wider range of actuators with ease. That means fewer product variations to stock, fewer configuration headaches, and more flexibility across your entire operation.

Its reduced pilot-pressure coil unlocks efficient performance even at lower supply pressures—no external pilot required. This smart design optimizes air usage, boosts energy efficiency, and gives you more freedom to adapt to different system conditions without compromising control.

Quantum also brings unmatched versatility in actuation. With single- and dual-coil options, plus fail-center designs for fail-safe applications, the platform adapts to the exact control strategy your process requires. Stand-alone versions cover a broad range of materials, while manual and locking overrides provide added control and assurance during commissioning, maintenance, or emergency situations.



Built for high-cycle, high-demand environments, Quantum delivers consistent, dependable performance where it counts. Whether it's rapid actuation, continuous operation, or tough industrial conditions, Quantum is engineered to keep pace with your process—day after day, cycle after cycle.

INTEGRATED MONITORING + CONTROL

The Westlock Quantum® Series redefines what valve monitoring and control should be. Its fully integrated, all-in-one architecture eliminates the inefficiencies of traditional multi-component setups, reducing installation time and upfront costs while delivering a cleaner, more reliable automation package. With pre-wired solenoid valves, built-in position sensing, and a compact unified design, Quantum streamlines deployment and ensures consistent performance from day one.

Engineered for the toughest environments, Quantum combines rugged materials, wide temperature capabilities, and proven component durability to deliver maximum reliability in mission-critical applications. Its increased flow capacity and flexible configurations support a broad range of process requirements, while onboard diagnostics simplify troubleshooting and help minimize downtime.

Quantum elevates operational efficiency, reduces lifecycle costs, and provides a smarter, more dependable path to valve automation — making it the clear choice for plants seeking long-term performance, reliability, and integration simplicity.

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