

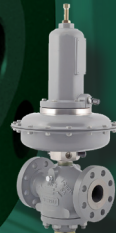


SPARTAN
CONTROLS



VALVES & ACTUATION SOLUTIONS

CONTROL • ISOLATE • REGULATE • PROTECT



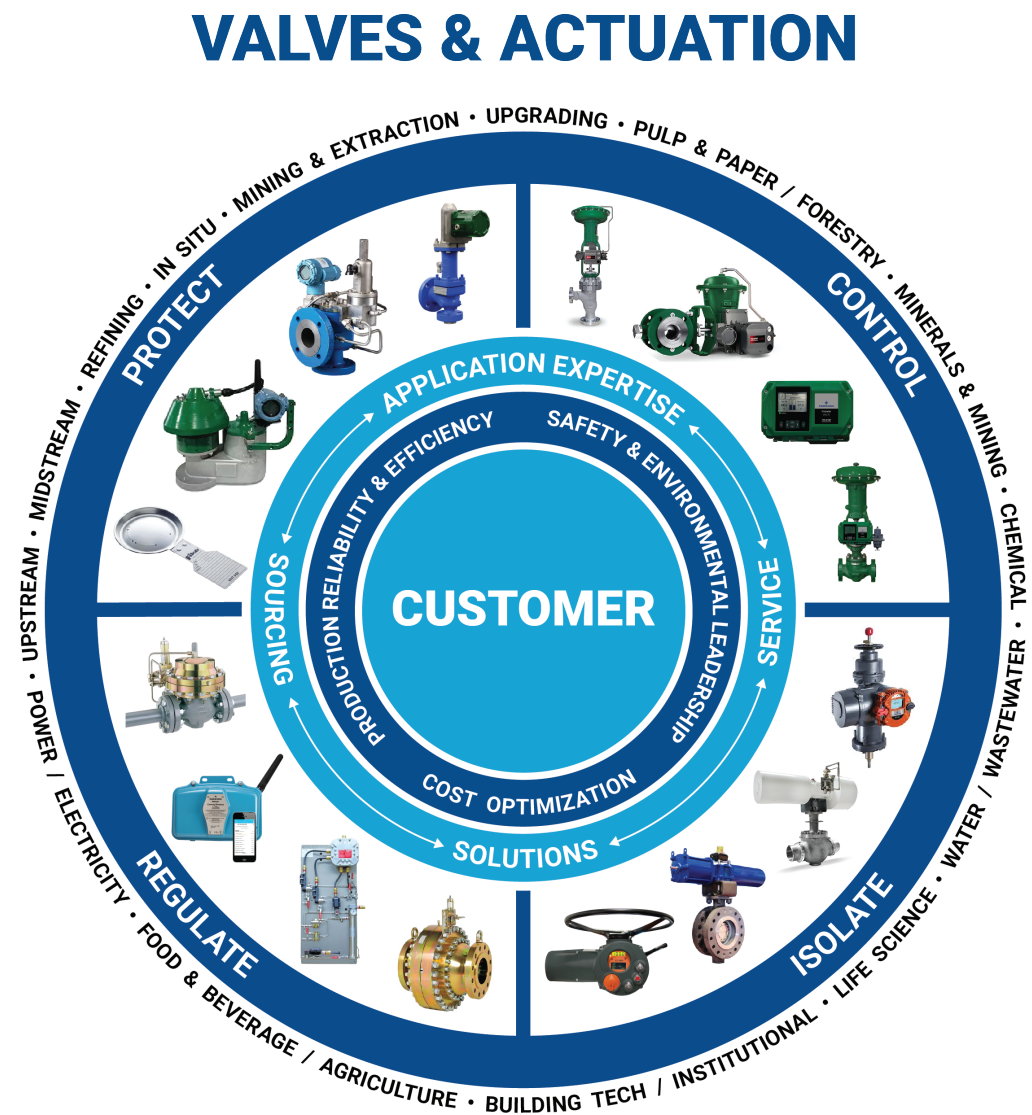
WHY SPARTAN CONTROLS?

At Spartan Controls, we help customers select, source, automate, and maintain valve and actuation equipment to reduce risk, improve execution, and lower lifecycle costs.

WHAT YOU GET?

- Factory-trained specialists across major valve types and applications
- Largest inventory of process control equipment, with many items available for same-day/next-day shipping
- Local repair services + mobile field support for faster turnaround and fewer shutdown impacts
- Actionable diagnostics and analytics utilizing modern digital valve controllers and Valve Intelligence (™) which improves reliability and availability

OUR PORTFOLIO



INDUSTRIES WE SERVE

Our automation solutions power industries like pipeline and municipal, driving sustainability and exceptional customer experiences through expertise and collaboration. With a focus on measurement accuracy and reliability, our products are trusted across all sectors we serve.



VALVES & ACTUATION

At Spartan Controls, we deliver a comprehensive portfolio of valve and actuation technologies designed to control, isolate, regulate, and protect your process systems.

We help customers streamline selection, sourcing, and servicing, reducing costs, improving execution, and minimizing risk.

Our factory-trained technical specialists and service technicians provide expert support across all major valve types. With the largest inventory of process control equipment in Canada, many products are available for same-day or next-day shipping. We also offer local repair services and mobile field support, ensuring fast, reliable solutions wherever you operate.

From smart digital controllers and advanced diagnostics to severe-service trims and wireless valve monitoring, Spartan Controls equips your operations with the tools needed for performance and reliability in demanding environments.



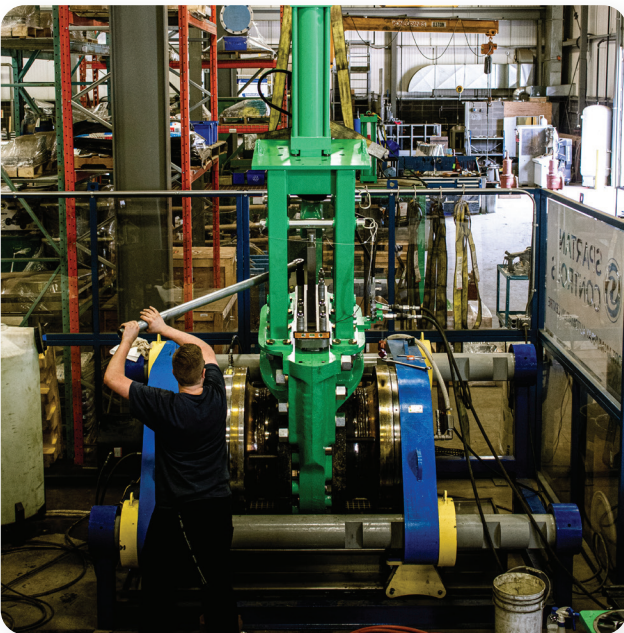
SLIDING STEM (GLOBE, ANGLE, AND 3-WAY)

- **Best for:** precise throttling, high-pressure drop, critical control loops
- **Value:** stable control, reduced variability, and extended valve life
- Wide range of Fisher sliding stem designs for liquid, gas, and high-temperature applications
- Compatible with advanced actuation and FIELDVUE™ digital valve controllers



HIGH PERFORMANCE BUTTERFLY VALVES

- **Best for:** compact installations requiring tight shutoff and throttling
- **Value:** lower torque, reduced footprint, and simplified installation
- Tight sealing and low-torque operation for both control and isolation duties
- Multiple body, disc, and seat materials for corrosive and high-temperature service
- Easily automated with pneumatic, electric, or hydraulic actuators



Valve Repair at Fort McMurray Automation Centre



SEGMENTED BALL (FISHER VEE-BALL™)

- **Best for:** wide turndown, dirty service, and combined control and isolation
- **Value:** flexible application coverage, lower maintenance costs
- Excellent throttling and on/off performance across a broad operating range
- Robust sealing options for abrasive, corrosive, and high-pressure service
- Long service life with easy trim access for maintenance



ECCENTRIC PLUG VALVES

- **Best for:** slurries, suspended solids, and challenging fluids
- **Value:** reduced wear, longer run time between maintenance
- Eccentric plug design minimizes seat wear and operating torque
- Reliable throttling and shutoff in severe service applications
- Available with manual, pneumatic, or electric actuation



Fisher Controls Flow Lab

TRIPLE OFFSET BUTTERFLY VALVES

- **Best for:** zero-leakage, metal-to-metal shutoff
- Triple offset geometry lowers torque and reduces seat wear
- High-pressure, high-temperature, and severe service capability (steam, hydrocarbons, corrosive media, mole-sieve)
- Bidirectional tight shutoff and fire-safe performance options
- Range of sizes, classes, and materials



BALL VALVES

- **Best for:** reliable shutoff + automation-ready operation
- Full-and reduced-bore options to match flow and pressure-drop requirements
- Robust construction and sealing technologies for long service life
- Multiple sizes, pressure ratings, and materials for corrosive and abrasive media
- Manual, pneumatic, or electric actuation options
- Severe service metal seated trunnion options for high temperature service (up to 350°)



GENERAL SERVICE BUTTERFLY VALVES

- **Best for:** water, air, and light industrial
- Manual (lever/gear) or automated actuation options
- Resilient seat designs for tight shutoff and extended service life
- Broad range of sizes, materials, and pressure ratings
- Simple installation and low-maintenance operation



C-BALL VALVES (AEV)

- **Best for:** severe service, slurry handling, and cryogenic LNG
- C-shaped ball design supports precise control and reliable shutoff
- Tight sealing and low-torque operation for control and isolation
- Strong fit for high-pressure and high-temperature service, suspended solids, fibrous media, and cryogenic applications
- High flow capacity with minimal pressure drop
- Manual, pneumatic, and electric automation options



KNIFE GATE VALVES

- **Best for:** slurry, pulp, and bulk solids
- Heavy-duty designs for tough applications with tight sealing
- Resilient seat options for abrasive/corrosive service
- Unobstructed flow path reduces pressure drop and clogging risk
- Maintenance features including replaceable seats and accessible packing



GATES & GLOBE VALVES (INCLUDING YARWAY, SEMPELL, DEWRANCE, FASANI)

- **Best for:** high-integrity isolation in critical services
- Proved gate and globe designs for reliable sealing and safe operation
- Forged/cast construction from leading brands (Sempell, Dewrance, Fasani)
- Optimized flow geometry for low-pressure drop and stable operation
- Specialized configurations (Yarway) for drains, vents, blowdown, and rapid-response isolation
- Broad range of pressure classes, materials, and end connections
- Yarway steam traps support efficient condensate removal and steam system protection



SCOTCH YOKE

- Scotch yoke actuators deliver high torque output for quarter-turn valve automation, ideal for ball, butterfly, and plug valves.
- Available in pneumatic and hydraulic configurations to suit a wide range of process requirements.
- Compact design and robust construction ensure long service life and minimal maintenance in harsh environments.
- Adjustable travel stops and position feedback options support precise valve control and integration with plant automation systems.



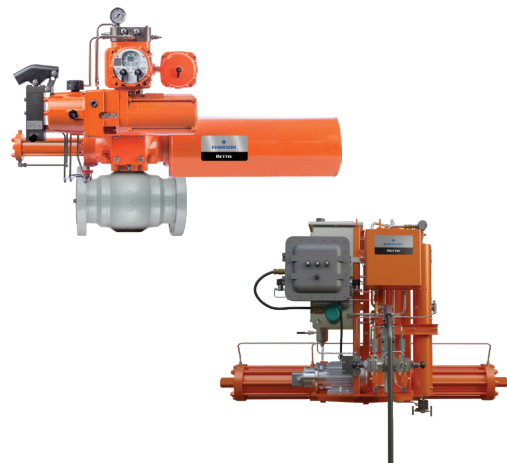
RACK & PINION

- Symmetrical torque output supports consistent open/close performance.
- Lightweight, modular design simplifies installation and maintenance.
- Adjustable travel stops and feedback options for automation integration.



SPECIALTY HYDRAULICS

- Designed for reliable, critical shutdown applications in remote locations for fail-safe operation
- Options to be operated by electric grid power or gas-powered from pipeline to minimize emissions to meet environmental standards
- Self-contained design allows minimized footprint and simplicity of controls
- Smart design allows insight into the equipment health to make safe operational decisions.



ELECTRIC

- **Best for:** accurate positioning in on/off and modulating service
- Works across valve types including linear and rotary valves
- Fail-safe or fail-last configurations available
- Multiple torque ratings, voltages, and enclosure options
- Control features include local/remote operations, feedback, and diagnostics



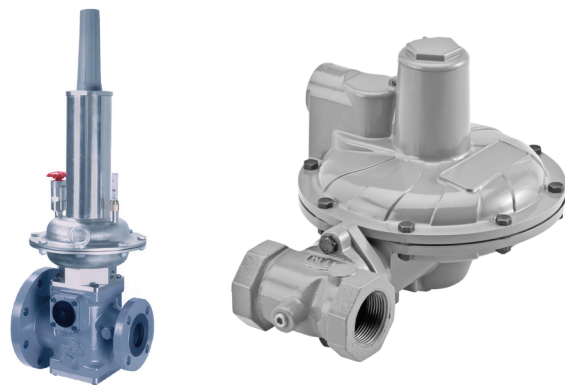
ELECTRIC ACTUATOR DIAGNOSTICS

- Real-time monitoring of torque, travel, motor current, temperature, and status
- Early identification of excessive load, mechanical issues, and electrical anomalies
- In service monitoring reduces downtime and improves reliability
- Certified repair and maintenance services (in-house or on-site) for multiple actuator brands



SELF OPERATED REGULATORS

- Self-operated regulators provide reliable pressure and flow control without the need for external power sources.
- Designed for simplicity and durability, with minimal moving parts for long service life and low maintenance requirements.
- Suitable for gas, steam, and liquid service in industrial, municipal, and commercial environments.
- Fast response to changing process conditions ensures stable operation and protects downstream equipment.



PILOT OPERATED REGULATORS

- Pilot-operated regulators deliver precise pressure control for demanding process and utility applications with bubble-tight shut-off.
- Designed for stable operation under varying flow and inlet pressure conditions, ensuring consistent downstream pressure.
- Suitable for high-capacity and high-pressure applications where self-operated regulators may not provide adequate performance.
- Hydrogen-ready low minimum pressure differential applications with high capacity for your most difficult applications.
- Modular design allows for easy top-entry maintenance and customization with a variety of pilots and accessories.
- No atmospheric bleed with large capacity to eliminate wasteful gas emissions in a completely self-contained device for accurate pressure control.
- Integral over-pressure protection with integrated slam-shut capability, designed to standard EN 14382.



PRESSURE RELIEF / BACK PRESSURE

- Pressure relief and backpressure regulators are designed to maintain safe system pressures by automatically venting excess pressure or controlling upstream pressure.
- Suitable for protecting equipment, pipelines, and vessels in gas, steam, and liquid service.
- Available in a range of sizes, pressure ratings, and materials to meet diverse process and safety requirements.
- Fast response to pressure changes ensures reliable overpressure protection and stable upstream control.
- Engineered for durability and minimal maintenance, with robust construction and accessible components.



TANK BLANKETING

- Protect tanks using self-operated or pilot-operated technologies
- Accurate setpoints and balanced designs reduce inlet sensitivity
- Reduce blanket gas consumption and support emissions reduction
- Monitoring options reduce the need for manual tank climbing



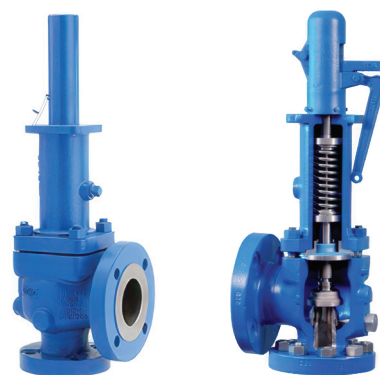
FISHER ARMOR (MONITORING)

- Real-time diagnostics and analytics for both pressure and travel
- Mobile access and configurable polling balance data needs and battery life
- Delivered as a complete hardware/software/service package for integration and support



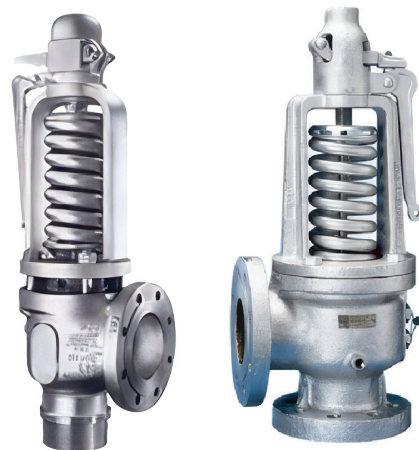
DIRECT OPERATED RELIEF VALVES

- Crosby J-Series PRVs for air, gas, steam, liquid, and two-phase media
- Conventional and balanced designs, API 526 compliant coverage across large size/pressure range
- Kunkle safety/relief products for industrial and commercial applications



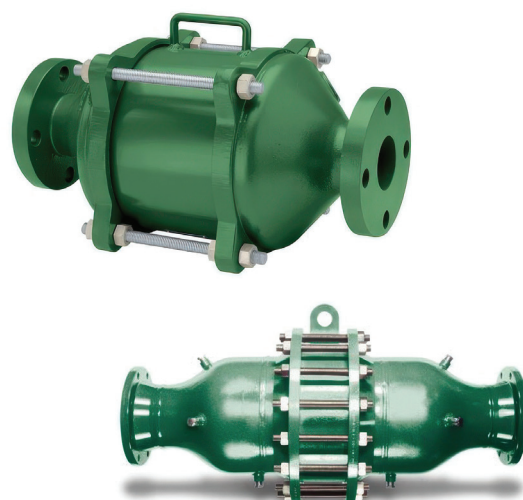
SECTION I / VIII SAFETY VALVES

- Crosby H-Series for steam safety applications (economizers, steam drums, superheaters, reheaters, and more)
- Kunkle products certified to ASME Section I, IV, VIII, XIII plus non-code options



FLASHBACK PREVENTION (FLAME ARRESTORS)

- Enardo Series 7 In-Line Flame Arrestors for confined low-pressure deflagrations near atmospheric systems
- Enardo detonation flame arrestors for long run-up piping and manifolded systems; bi-directional protection with cleanable designs



PILOT OPERATED RELIEF VALVES

- Premium performance solutions to maximize operation pressure and minimize emissions
- Suitable for higher set pressures than spring-loaded SRVs
- Snap-acting or modulating pilots to match the process
- Balanced against backpressure to support closed header systems



RUPTURE DISCS & PRESSURE ACTIVATED DEVICES (FIKE)

- Reverse-acting rupture discs engineered to burst precisely for reliable protection
- G2 manufacturing supports strong operating ratios, tolerances, and cycle life
- Pressure activated devices used downhole for tool initiation or process communication; replacements for shear pins with tight tolerances



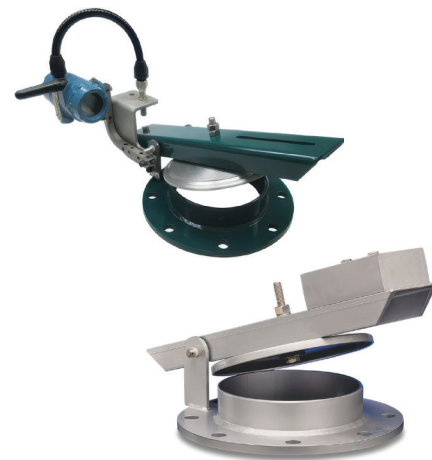
PRESSURE/VACUUM RELIEF PRODUCTS (TANK VENTING)

- Enardo Series 850/ 950 high-performance PRVs designed for cold ambient conditions and sticky services
- Enardo ES-665 hatch for ultra-tight sealing in sour crude/gas and stringent emissions environments



EMERGENCY RELIEF PRODUCTS

- Enardo™ Tank vents and hatches support ultra-tight sealing and reduced VOC emissions with flexible relief settings and integration with vapor recovery/tank blanketing
- Enardo Model 2000 Emergency Relief Vent supports emergency pressure relief capacity aligned with API 2000 / NFPA 30 / OSHA 29 CFR 1910.106 for fire exposure scenarios (pressure relief only)



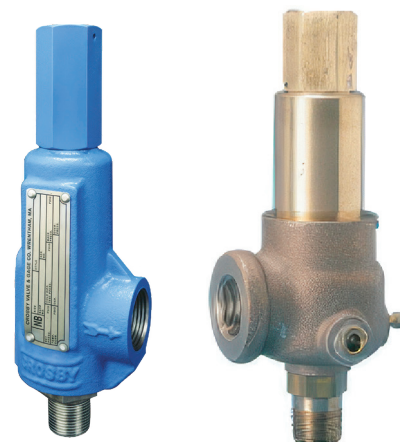
MONITORING SOLUTIONS FOR ANY APPLICATION

- Lift monitoring supports more accurate event reporting (0-100% lift)
- Fisher™ FIELFVUE™ 4400 alerts and HART diagnostics help detect chatter/instability
- Anderson Greenwood™ pilot-operated relief monitoring via differential pressure measurement (dome vs inlet) supports proactive maintenance and emissions reduction



PORTABLE / COMPACT PROTECTION OPTIONS

- Crosby OMNI Series and Anderson Greenwood™ 8- Series provide economical, compact overpressure protection options
- Crosby OMNI-Trim supports air, gas, liquid, and steam ASME XIII applications
- Anderson Greenwood™ 80 Series delivers repeatable bubble-tight performance before/after relief cycles
- Kunkle supports wide application range with global code certifications (ASME, PED, CRN, TU, Chinese)



SEVERE SERVICE & APPLICATION EXPERTISE

Protects assets, extend valve life, reduce emissions, improve safety

CAVITATION / FLASHING

- Engineering support and specialized Fisher solutions help reduce erosion, vibration, and premature wear
- Technology options include Cavitrol, NotchFlo, DST, and Vee-Ball designs



NOISE ABATEMENT

- Fisher solutions support noise reduction in high-pressure/high-flow services
- Technology options include Whisper Trim, WhisperFlo, and Vee-Ball designs



STEAM CONDITIONING AND DESUPERHEATING

- Integrated pressure reduction + desuperheating solutions support precise pressure/temperature delivery and protect downstream equipment
- Benefits include compact design, high turndown, uniform atomization, and severe-service durability

Key Technologies and Benefits

- Integrated pressure-reducing valves and desuperheaters for compact, efficient design
- High turndown capability for wide operating ranges
- Precise water atomization for uniform cooling and temperature accuracy
- Engineered for severe service to reduce thermal stress and extend equipment life



DIGITAL VALVE CONTROLLER (FISHER FIELDVUE™ DVC)

- Industry-standard digital valve control with advanced diagnostics and ODV capabilities
- Real-time visibility and valve health, position, and performance to support predictive maintenance
- Compatible across valve types and actuation methods for on/off and modulating service



CONTROL VALVE DIAGNOSTICS (AMS VALVELINK® + FIELDVUE™ DVC)

- Real-time performance monitoring using device and sensor data (pressure, temperature, travel, internal readings)
- Identifies friction, calibration drift, air restrictions, and instrument air quality issues early
- In-service diagnostics reduce downtime and improve reliability



POSITIONERS & TRANSDUCERS

- Improved accuracy, responsiveness, and stable control across applications
- I/P (I2P) transducer solutions for low-bleed signal conversion and pneumatic stability



LOW BLEED SOLUTIONS

- Low-bleed digital and pneumatic options help reduce instrument air use and support sustainability targets
- Fisher C1 controller designed for ultra-low air consumption
- Compatible with Fisher valves and actuators for new and retrofit applications



LEVEL SENSORS & CONTROLLERS

Fisher level instruments provide reliable and accurate liquid level measurement and control for a wide range of industrial process applications.

- Fisher displacer based level technologies including the 249 Series mechanical level controllers, 2500 Series digital level controllers, and DLC3010 digital level controller
- Proven displacer designs for continuous level, interface, and density measurement
- Suitable for difficult services including flashing, high temperature, corrosive, and vacuum applications
- Mechanical and digital options support local control or integration with control systems
- Accurate and repeatable measurement, with mechanical options operating independent of external power



ACCESSORIES

- A range of accessories is available to support reliable, efficient operation of valves and actuators.
- ASCO Solenoid Valves: Provide reliable, fast-acting flow control for a wide range of process applications..
- TopWORX Switchboxes: Durable position feedback and monitoring for a wide variety of environments.
- Pressure Gauges: Clear and accurate pressure indication for operation and maintenance.
- Trip Valves: Provide protective fail-action capability for critical applications.
- Volume Boosters: Enhance actuator speed and responsiveness where faster control is required.



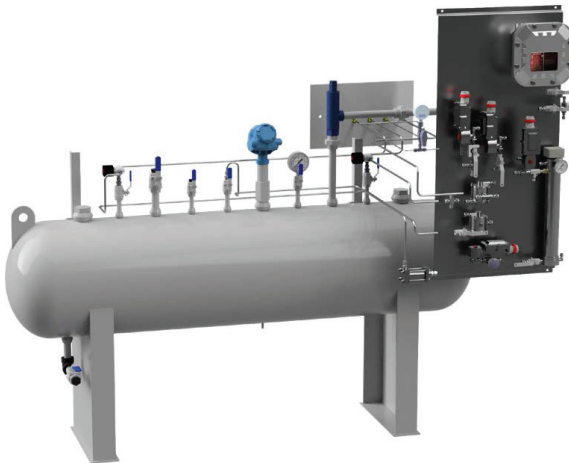
ODORIZATION SOLUTIONS (OdrPRO™)

- Odorization systems support safe, compliant natural gas operations with precision injection, automation, and safety features
- Designed for small distribution networks through large-scale pipeline operations
- Backed by expert engineering and service support



Key Capabilities

- Accurate odorant injection to meet regulatory requirements
- Automation and remote monitoring to reduce manual intervention
- Flexible configurations and comprehensive lifecycle support



HIGH INTEGRITY PROTECTION SYSTEMS (HIPPS) SOLUTIONS

- HIPPS adds a critical safety layer for high-pressure applications and supports compliance with international standards
- Rapid isolation design combining valve technology, logic solvers, and robust system engineering



Key Benefits

- Prevents overpressure events to protect people and equipment
- Reduces environmental impact versus traditional relief approaches
- Lowers operating costs via reduced manual testing and improved safety integrity automation
- Optimizes capital by reducing flare/relief infrastructure sizing
- Improves uptime with extended proof test intervals and reduced downtime



STEAM SOLUTIONS

Spartan supports steam systems end-to-end – from generation to condensate recovery – helping improve efficiency, reliability, and safety



Products and Services:

- **Steam Traps:** Full range of mechanical, thermostatic, and thermodynamic steam traps, plus compact trap stations for efficient condensate removal.
- **Steam Audits:** Onsite steam system audits and trap surveys to pinpoint energy losses, leaks, and reliability risks.
- **Steam Valves:** Control valves, actuated isolation valves, pressure regulators, and safety relief valves designed for steam service.
- **Boilers & Boiler Controls:** Solutions for boiler blowdown, feedwater pumps, level indicators, and advanced combustion controls.
- **Condensate Management:** Condensate pumps, return systems, and heat recovery solutions to protect equipment and recover energy.
- **Field Services:** 24/7 emergency support, startup and commissioning, preventative maintenance, and valve condition monitoring.
- **Steam Consulting:** Application assessments, root cause analysis, and compliance support for CSA B149.3 and GHG reduction.
- **Digital Tools:** Remote monitoring, asset management platforms, and advanced analytics for real-time system insights.
- **Energy Management Information System (EMIS):** Track boiler efficiency, monitor energy consumption, and identify cost-saving opportunities with real-time and historical data.

Spartan's steam specialists work with you to solve problems like water hammer, erosion, and repeat trap failures. We offer hands-on training, shutdown planning, and modernization strategies to keep your steam system running safely and efficiently.



TANK SOLUTIONS

Spartan helps modernize tank systems for safety, reliability, and regulatory compliance – addressing emissions, inventory loss, and operational risk



Products and Services:

- **Tank Gauging & Level Measurement:** Accurate radar and pressure-based solutions for inventory management, overfill protection, and process control.
- **Tank Audits & Assessments:** Onsite system walkdowns and data reviews to identify risks, inefficiencies, and opportunities for improvement.
- **Tank Venting & Blanketing:** Emergency vent valves, pressure/vacuum relief valves, and nitrogen blanketing systems to protect tanks and minimize emissions.
- **Vapor Recovery & Emissions Control:** Solutions for methane and VOC capture, including vapor recovery units and flame arrestors.
- **Process Optimization:** Advanced analytics, remote monitoring, and asset management platforms for real-time insights and regulatory reporting.
- **Field Services:** 24/7 support, commissioning, preventative maintenance, and valve condition monitoring.
- **Tank Consulting:** Application assessments, compliance support (MSAPR, carbon credits), and modernization strategies for new and existing tanks.
- **Education & Training:** Tank University modules, onsite training, and access to case studies and best practices.





LIFECYCLE SERVICES

- Supporting customer initiatives to improve Performance, Reliability, and Optimization

Performance

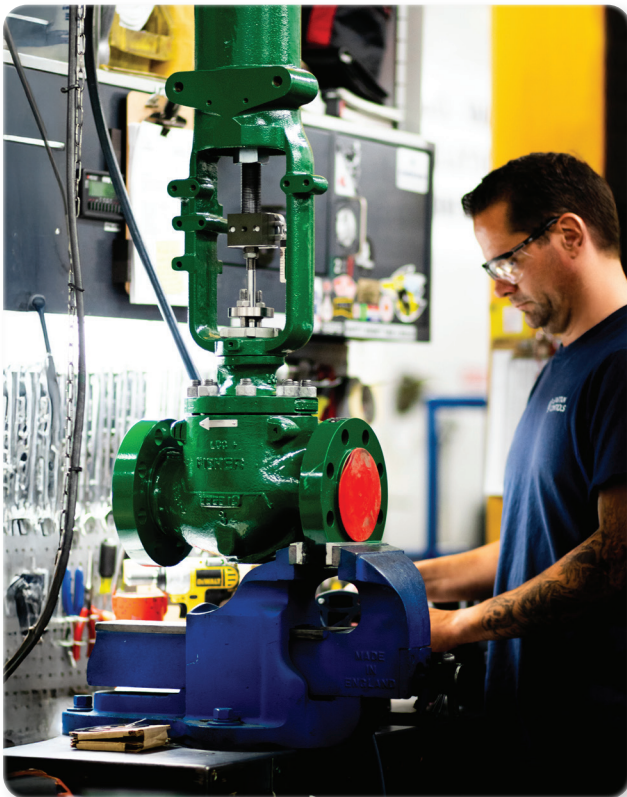
- On-demand service, shutdown turnaround, outage support, inventory management, calibration, preventative maintenance, education, site assessments, and software management

Reliability

- Condition-based monitoring, emissions surveys, regulatory compliance, asset data, and turnaround optimization
- Regulatory compliance support

Optimization

- Energy management, digital integration and data management, critical equipment performance, remote/empowered solutions, and decarbonization



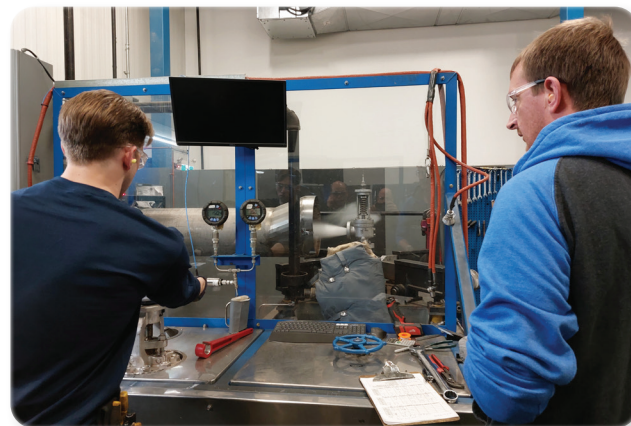
FIELD SERVICES

- Three provinces locally served
- Journeyman technicians, factory-trained, authorized, and equipped
- We strive to provide high-value, differentiated service and solutions for our customers' needs
- 24/7 Demand Service
- Commissioning and start-up services



DEPOT SERVICES

- Emerson-accredited service provider; Edmonton facility ISO 9001 certified with CSA-certified repair capabilities
- Factory certified, NIST traceable flow proving stand
- Specialized equipment and differentiated service deliverables



SAFETY & SUSTAINABILITY

- Integrated services and technologies to reduce CO₂e emissions and improve environmental outcomes
- ESG alignment; PIR program participation and COR certification for 20+ years
- Member of ISN, ComplyWorks, and Avetta





**SPARTAN
CONTROLS**



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