ABLE INSTRUMENTS & CONTROLS

BARKSDALE

POWERFUL AND DEPENDABLE FLUID CONTROL:
BARKSDALE VALVES BUILT FOR HEAVY-DUTY PERFORMANCE

Barksdale®
CONTROL PRODUCTS

A COMPLETE FAMILY OF VALVE SOLUTIONS

- Heavy-duty construction for industrial service
- Precision flow and pressure control performance
- Wide operating pressure and temperature ranges (model dependent)
- Supports hydraulic, pneumatic, and process media
- Multiple actuation methods available (manual/mechanical/pneumatic/solenoid)
- Standard and optional port configurations for integration flexibility
- Leak-tight design and reliable sealing characteristics
- Serviceable components to support extended lifecycle
- Configurable options for application-specific requirements
- Meets common industrial compliance requirements (series dependent)

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A COMPREHENSIVE VALVE RANGE FROM A SINGLE SOURCE

Able's renowned partner Barksdale is recognised as a market leader in precision control valves and mechanical/pneumatic components for fluid power and process control.

Industrial valve technology is evolving as systems run at higher pressures, faster cycle rates, and tighter packaging. Plant engineers increasingly require valves that offer low leakage, long service life, and reduced maintenance burden. In response, manufacturers are moving beyond traditional commodity designs toward precision control technologies that improve reliability and total cost of ownership.

Barksdale's latest valve developments, including shear-seal technology, reflect this shift. Shear-seal valves deliver exceptional sealing performance, high contamination tolerance, and long cycle life in compact form factors. Their wear-resistant sealing interface supports continuous duty applications and helps minimize downtime. By integrating advanced sealing and control functionality, Barksdale provides modern valve solutions that align with today's performance and lifecycle expectations for hydraulic, pneumatic, and process control environments.

Supplied in the UK and Ireland by Able Instruments, **Barksdale valves** are trusted for use in harsh and safety-critical environments.

HOW BARKSDALE'S VALVE DESIGNS REFLECT THE SHIFT IN MODERN VALVE TECHNOLOGY

- **High-pressure performance in compact form factors**: Our design supports higher operating pressures within smaller geometries, enabling greater system densification and helping OEMs reduce overall equipment size without sacrificing power or capability.
- **Precision sealing technology for ultra-low leakage**: Advanced sealing geometries significantly reduce internal bypass and leakage losses. The result is improved system efficiency, enhanced control stability, and less energy waste over the product's full-service life.
- **Engineered for high contamination tolerance**: Built to withstand particle-laden hydraulic environments, the valve maintains functional integrity even when filtration conditions are less than ideal. This reduces wear-related failure modes and supports uptime targets in harsh industrial settings.
- **Proven reliability in continuous-duty applications**: Designed for high utilization and demanding duty cycles, the valve delivers consistent, repeatable performance over long operating periods. This reliability is critical for plants and equipment that must run without interruption.
- **Reduced maintenance requirements and minimal downtime**: Longer service intervals, fewer unscheduled interventions, and simplified upkeep translate directly into higher equipment productivity. Operators benefit from improved operational continuity and fewer maintenance-related shutdowns.

APPLICATION DIVERSITY MEETS BARKSDALE RELIABILITY

Series 140, 200, 920, 5620

Applications

- *Land-based and offshore drilling equipment*
- *Steel mills*
- *Nitrogen charging panels*
- *Refineries and chemical processing plants*
- *Power generation facilities*

HEAVY DUTY VALVES

Series 140, 200, 920, 5620

Barksdale's Heavy-Duty Valve provides superior directional control for fluids and gasses up to 6,000 psi in the toughest industrial applications. Using Barksdale's Shear-Seal® technology, the Heavy-Duty Valve products offer dependable performance and long life even when the media being controlled is contaminated with debris that would ruin ordinary valves. Featuring rugged ball bearing construction, hardened stainless steel seals, and durable bronze and iron cast housings these valves will provide trouble free performance for your critical application in the harshest environments.

Series II Heavy-Duty Valves

Applications

- *Land-based & offshore oil drilling controls BOP control units*
- *Refineries and chemical processing plants*
- *Shipboard hydraulic control systems*
- *Steel mills*

SERIES II – ACTUATED HEAVY-DUTY VALVES

Series II

Barksdale's patented Series II valve delivers unmatched performance by combining the proven durability of our heavy-duty Shear-Seal® valves with the consistent control of a rack-and-pinion pilot actuator – all in one integrated solution. Engineered to handle high-velocity flow at pressures up to 6000 psi and withstand contaminated media, the Series II is built for mission-critical environments where failure isn't an option.

Barksdale®
CONTROL PRODUCTS

Series 4140

Applications

– Offshore drilling equipment
– Refineries and chemical processing plants
– Gas compression systems
– Marine umbilical reels

HIGH PRESSUE VALVES

Series 4140

Barksdale's High Pressure 4140 Series 4-way valves deliver precise control of fluids up to 15,000 psi (1,035 bar), even in the most demanding industrial environments. Powered by our proven Shear-Seal® technology, these valves maintain reliable performance and long service life – even when handling debris-laden media that can destroy conventional valve designs. With rugged ball bearing construction, hardened stainless steel seals, and fully machined stainless-steel bodies and housings, the 4140 Series ensures trouble-free operation for mission-critical applications in the harshest conditions.

Series 8020

Applications

– Pump system safety
– Hydraulic power units
– Tank protection
– Accumulator systems

PRESSURE RELIEF VALVE

Series 8020

The new Series 8020 delivers ultra-high flow performance with a maximum flow rate of 80 GPM, providing reliable protection for demanding hydraulic systems. Built on decades of Barksdale engineering expertise, the 8020 carries forward our reputation for quality, durability, and proven reliability in industrial environments.

This 3/4" NPT relief valve features stainless steel internal components and a corrosion-resistant, powder-coated housing, ensuring long service life even in harsh and contaminated conditions. Designed for heavy-duty hydraulic applications, the Series 8020 is the ideal choice when high-flow capability and rugged performance are required.

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Series 9000, 9020

SHEAR-SEAL® MANUAL DIRECTIONAL CONTROL AIR VALVE

Series 9000, 9020

Barksdale's Series 9000 Valves provide reliable control of hydraulic fluids and gasses up to 350 psi. Built around Barksdale's proven Shear-Seal® technology, the Series 9000 delivers exceptional sealing performance, low internal leakage, and long service life – making it a trusted solution for manual control in demanding commercial and industrial applications.

A versatile platform allows the Series 9000 to be configured to match a wide range of installation and operating requirements, ensuring a precise fit for your system without compromise.

Applications

- *Pilot valve for pneumatic valve actuators*
- *Gas manifold controls*
- *Manual control of 2-position cylinder*

BARKSDALE: ENGINEERED TO PERFORM, BUILT TO LAST

Barksdale valves are engineered to deliver **consistent performance** in demanding environments where reliability, safety, and uptime matter most. With proven designs, rigorous quality control, and application-specific configuration options, Barksdale provides solutions that **integrate seamlessly** into industrial systems and reduce operational risk. Whether supporting new equipment, modernizing existing infrastructure, or scaling production, our valves offer **measurable value throughout the lifecycle** of your system.

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