



Hogge Precision Details Manufacturing Approach to Custom Manifolds

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Hogge Precision Parts Co., Inc., a precision machining manufacturer based in Hartsville, South Carolina, has outlined its manufacturing approach to custom manifolds, a core component in fluid and gas distribution systems used across multiple industries. The company produces manifolds for hydraulic, pneumatic, medical gas, plumbing, automotive, aerospace, construction, power transmission, and motion control applications. The announcement highlights how the company applies its precision machining capabilities, including CNC milling, CNC turning, Swiss machining, and screw machining, to manifold manufacturing for original equipment manufacturers and industrial customers.

A manifold is a fluid or gas distribution system that consolidates multiple valves or channels into a single unit. In hydraulic systems, manifolds are commonly used to mount valves that cannot be plumbed directly into the system, allowing fluid to travel through connected ports. Pneumatic systems rely on a similar configuration, in which manifolds mount directional valves that connect to supply and exhaust ports.

Hogge Precision manufactures manifolds for a range of sectors, including oil and gas, industrial equipment, agriculture, and food and beverage production. In oil and gas applications, manifolds support fluid and gas

distribution during exploration, extraction, and hydraulic fracturing operations. Industrial manifolds are used in equipment such as forklifts and manufacturing machinery, while agricultural manifolds support planters, tractors, and harvesters. In food and beverage production, manifolds regulate flow during bottle filling processes.

According to Hogge Precision, custom manifolds offer several manufacturing and operational advantages over alternative fluid distribution configurations. A consolidated manifold system reduces the overall footprint of a fluid or gas distribution network, shortening cycle times and decreasing liquid carry-over volume compared to more dispersed plumbing arrangements. The company noted that these efficiencies can be particularly relevant for customers seeking to reduce facility space requirements or improve throughput.

Cost-effectiveness is another factor the company associates with custom manifold design. Manifolds are engineered to reduce the frequency of maintenance and repair work, and when service is required, the systems are designed to allow for accessible repairs. Producing manifolds through a contract manufacturer such as Hogge Precision can also reduce production costs for original equipment manufacturers, since simplified assembly and installation save both time and expense.

Reliability was also cited as a defining characteristic of manifold systems. Because manifolds consist of relatively few components, they tend to perform predictably and consistently over time, which the company said helps eliminate variability that can occur in more complex fluid or gas distribution configurations. This consistency matters for customers in regulated industries such as medical gas and aerospace, where performance predictability is closely tied to safety and compliance requirements. Manifolds also contain potentially hazardous materials within a closed system and reduce the number of individual leak points compared to more fragmented plumbing networks, which can help prevent cross-contamination and support safer working environments.

"Custom manifolds allow us to take a complex network of valves and connections and simplify it into a single, reliable component," said Danny Hogge Jr, President of Hogge Precision. "Our customers are often working in industries where precision and consistency are not optional, so we build our manifold manufacturing process around tight tolerances and repeatable quality from the first part to the last."

Hogge Precision is an AS9100D and ISO 9001:2015 registered manufacturer, a distinction that reflects the company's adherence to quality management standards commonly required in aerospace, medical, and other precision-driven industries. The company reported meeting 99.8 percent of quality requirements and achieving a 95.8 percent on-time delivery rate in 2025, during which it completed more than 6,600 shipments.

Founded more than 35 years ago, Hogge Precision has built its manufacturing operations around a combination of CNC milling, CNC turning, Swiss machining, and precision multi-spindle screw machining.

These capabilities allow the company to produce custom manifolds and other precision-machined components to close tolerances for customers across the valve, power transmission, and pressure management sectors, among others.

"Manifold manufacturing requires a level of attention to detail that carries through every stage of production, from initial design review to final inspection," Hogge added. "We have invested in the equipment and quality systems needed to support customers who cannot afford variability in their fluid or gas distribution components."

The company's manifold manufacturing services are part of a broader set of application-specific machining capabilities that also include components for valves and pressure management systems, power generation and electrical equipment, and medical device manufacturing. Hogge Precision has positioned its inventory management services to support customers seeking a single source for design, machining, and delivery of custom manifolds and related precision parts.

Hogge Precision Parts Co., Inc. is headquartered at 3046 North Center Road in Hartsville, South Carolina. For more information about the company's custom manifold manufacturing services, visit www.hoggeprecision.com.

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Hogge Precision Parts Co, Inc.

Hogge Precision Parts Co., Inc. is a premier contract manufacturer delivering high-quality products at competitive prices using advanced CNC and screw machining equipment.

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