ZENITH PUMPS
PRECISE, PULSE-FREE METERING GEAR PUMPS
ZENITH PUMPS
PRODUCT PERFORMANCE YOU CAN RELY ON

Precision gear pumps are an integral part of many manufacturing processes requiring metering, mixing, dispensing, coating, and extruding, where accuracy and uniformity of flow are critical. That’s why manufacturers in industries from manmade fibers and polymers to food and medical devices have relied on Zenith gear pumps from CIRCOR since 1926. With high metering accuracy, pulse-free flow, and long wear life across a wide range of fluid and pressure conditions, the Zenith Pumps brand is synonymous with high performance and reliability.

In addition to standard product offerings, Zenith can provide custom-engineered pumps for demanding services, such as submersible, flushable, and sanitary applications. Backed by the resources of CIRCOR Engineered Systems group, Zenith Pumps can provide a complete custom-engineered system along with the pump, from the tank to the controls, letting you focus on your core competency while we develop a fluid handling, mixing, or metering system aimed at providing the highest precision and reliability possible.

INDUSTRIAL SOLUTIONS

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<th>APPLICATION</th>
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| Dosing      | General Industry, Two Component Urethanes, Pharmaceutical, Chemical Process, Pulp and Paper, Food and Beverage, Semiconductor and Electronics, Medical | • B Series  
• H Series  
• 9000 Series |
| Fill        | General Industry, Food and Beverage, Chemical Process       | • B Series  
• 9000 Series |
| Injection   | Oil and Gas, Power Generation, General Industry, Fiber, Plastic Extrusion, Chemical Process, Pulp and Paper | • PEP II  
• 9000 Series  
• B Series  
• H Series |
| Coating     | General Industry, Pharmaceutical, Food and Beverage, Chemical Process, Semiconductor and Electronics | • 9000 Series  
• B Series  
• H Series |
| Extrusion   | Profile, Sheet, Cast, and Blown Film | • PEP II  
• 9000 Series  
• H Series |
| Spraying    | General Industry, Fiber, Chemical Process, Paints, Semiconductor and Electronics, Medical | • B Series  
• Planetary  
• Spin |
9000 SERIES

For chemical and polymer fluid metering applications.  
**Available Flowrate Range:** 0.3 to 27,000 cc/min  
**Max Pressure:** 1,000 – 2,500 psi depending on Materials of Construction  
**Max Temperature:** 350°F to 950°F depending on Materials of Construction, Shaft Seal, and Fasteners  
**Shaft Seal:** Mechanical Seal, Tandem Lip Seal, Graphoil Packing Seal, or Seal-less Magnetic Coupling Drive

B SERIES

For chemical and polymer fluid metering applications.  B-Series pumps have an “outer drive gear” design that allows pumps to be driven by a common pinion gear or multiple pinion gears on a line shaft.  
**Available Flowrate Range:** 0.4 to 36,000 cc/min  
**Max Pressure:** 3,000 psi  
**Max Temperature:** 300°F  
**Shaft Seal:** Single Lip Seal, Double Lip Seal with Barrier Fluid, or Universal Coupling Seal

FLUSHABLE SERIES

For paint and coating fluid applications requiring precise flow control and rapid pump solvent flushing between fluid changes.  
**Available Flowrate Range:** 20 to 1,800 cc/min  
**Max Pressure:** 1,000 psi  
**Max Temperature:** 300°F  
**Shaft Seal:** Lip Seal

B SERIES

For chemical and polymer fluid metering applications.  B-Series pumps have an “outer drive gear” design that allows pumps to be driven by a common pinion gear or multiple pinion gears on a line shaft.  
**Available Flowrate Range:** 0.4 to 36,000 cc/min  
**Max Pressure:** 3,000 psi  
**Max Temperature:** 300°F  
**Shaft Seal:** Single Lip Seal, Double Lip Seal with Barrier Fluid, or Universal Coupling Seal

H SERIES

For polymer fluid applications at high temperatures, pressures and viscosities as well as for abrasive fluids.  
**Available Flowrate Range:** 1.0 to 24,000 cc/min  
**Max Pressure:** 4,000 psi  
**Max Temperature:** 950°F with high temperature fasteners  
**Shaft Seal:** Graphoil Packing Seal or Universal Coupling Seal

PEP II & BB PEP SERIES

For polymer extrusion applications where product uniformity is critical.  BB PEP Series pumps are specifically designed for medical tubing applications where high precision and ease of disassembly and cleaning are desired.  
**Available Capacity Range:** 1.0 to 75,000 cc/min  
**Max Pressure:** 10,000 psi  
**Max Temperature:** 950°F with high temperature fasteners  
**Shaft Seal:** Reverse Screw Rheoseal with Lip Seal backup or Graphoil Packing Seal

SPIN FINISH

For applications requiring precise multi-stream metering of low viscosity fluids.  Commonly used to meter spin finish solutions onto synthetic fiber threadlines.  
**Available Flowrate Range:** 0.2 to 100 cc/min/stream  
**Available Metered Streams:** 2, 4, 6, 8, 10, and 12 streams  
**Max Pressure:** 100 psi  
**Max Temperature:** 212°F  
**Shaft Seal:** Lip Seal

PLANETARY

For applications requiring multi-stream, multiple identical flows such as inks, adhesives, and melt fiber production.  Planetary pumps are designed to maximize yield and run time.  
**Available Flowrate Range:** 2.0 – 1,000 cc/min/stream  
**Available Metered Streams:** 3 to 32 streams  
**Max Pressure:** 7,200 psi  
**Max Temperature:** 300°F to 950°F depending on materials of construction  
**Shaft Seal:** Graphoil Packing Seal, Universal Coupling Seal, Lip Seal, and Reverse Screw Rheoseal