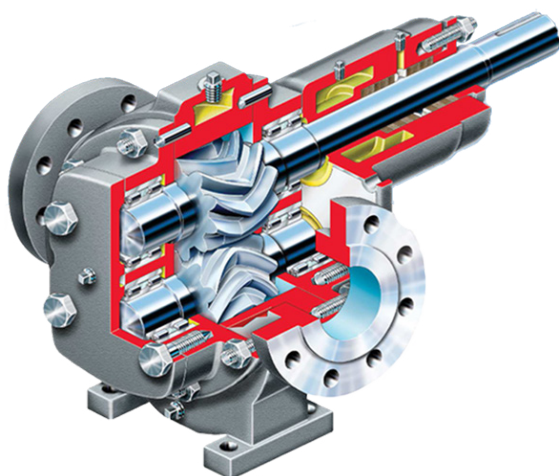


IMO GR SERIES HERRINGBONE GEAR PUMP

Reliable Performance Across Wide Flows and Pressures

GR Series between bearings, herringbone gear pumps have long been workhorses within a multitude of industrial markets due to their dependability, efficiency and low total lifecycle cost. GR Series pumps provide high-efficiency, pulse-free pumping, even under the most challenging conditions. They are designed to handle viscous fluids across a broad spectrum of flows and pressures.

Engineered for Lasting Value and Maximum Operational Efficiency



IMO GR SERIES

GR Series pumps are self-priming and available in standard sizes from 40 mm to 200 mm (1.5 in to 8 in) ports. Standard construction is cast iron and carbon steel. For oil and gas applications, an API 676, second edition compliant configuration is available. The GR pump is available in three basic gear widths and with multiple options. With its modular design, the GR can be customized to satisfy a wide range of applications.

- **GR:** Standard gear width
- **GRW:** Wide gears for higher capacities
- **GRH:** Narrow gears for higher pressures

OPERATING PARAMETERS

- Flows to 275 m³/h (1200 gpm)
- Pressures to 35 bar (500 psi)
- Temperatures to 350°C (650°F)
- Speeds to 1800 rpm
- Viscosities to 20000 cP

KEY FEATURES AND BENEFITS OF IMO GR SERIES PUMPS

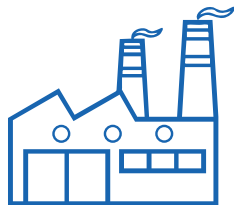
- **Two-piece doweled construction** on each side of the body ensures accurate alignment and facilitates maintenance by allowing faster access to pump internals without disturbing piping.
- **Full hydraulic balance due to herringbone gears** with dual stuffing boxes eliminates the need for specialized balancing devices or thrust bearings.
- **Between bearings gear design** minimizes shaft deflection and reduces bearing loads. High-pressure and high-speed capabilities are improved, extending pump life, improving reliability and lowering total lifecycle costs.
- **Convertible stuffing box** allows for greater flexibility in the use of packing or mechanical seals.
- **Large, unobstructed suction** and discharge passage keep entrance losses and turbulence to a minimum.
- **High-capacity, double-row roller** bearings are standard for long life. Carbon sleeve bushings may be used when handling liquids with poor lubricity or low viscosities. Also available in antimony impregnated carbon for high-temperature applications.
- **Shafts are fine grain, hot rolled medium** carbon steel and generously sized to minimize deflection.

INDUSTRIES:



Power

- Combined Cycle
- Concentrated (Solar Power CSP)
- Biomass & MSW



General Industries

- Pulp & Paper
- Food & Beverage
- Other Industries



Oil and Gas

- Midstream Transportation



Chemical

- Biofuels

AVAILABLE OPTIONS:

- Inboard bearing with mechanical seal for V-belt drive
- Jacketed pump body
- Integral safety relief valve (up to 3GR size)
- Mechanical seals (various materials available)
- Jacketed stuffing box
- Dual stuffing boxes with packing or mechanical seals
- INSUROCK® low friction wear plates

APPLICATIONS:

- Oil circulation
- Process industries
- Fire foam systems
- OEM
- Filtration equipment
- Asphalt and tars
- Petrochemical blending and transfer
- Food and beverage processing
- Grease



FOR ADDITIONAL INFORMATION VISIT:

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pumps.circor.com