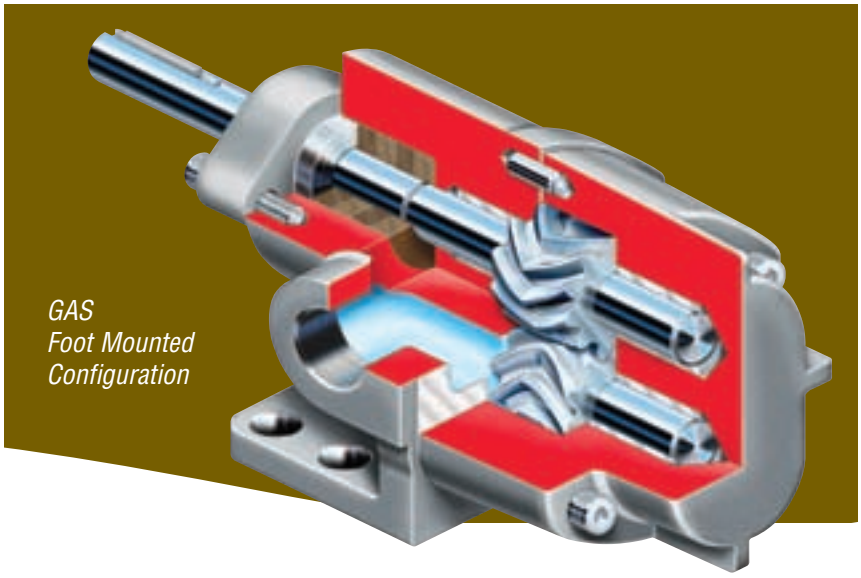
FLOWSERVE

GA Series

Rotary Gear Pumps



GAS
Foot Mounted
Configuration

Superior Engineering and Low Cost of Ownership

GA Series gear pumps have long been workhorses in highly viscous applications within a multitude of industries due to their dependability, efficiency and low total life cycle costs. Engineered to reliably pump viscous fluids over a broad range of flows and pressures, the GA Series superior between bearing, external herringbone gear design offers the benefits of pulse-free operation, dry-run capability and ease of maintenance.

The cast iron GA Series pumps are available in three mounting configurations. With its multiple options and modular design, GA Series pumps can be customized to satisfy a wide range of applications.

- **GAS:** Foot mounted
- **GAF:** Flange mounted
- **GAC:** Close coupled

Applications

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

Features and Benefits

Two-Piece Doweled Construction *ensures accurate alignment and facilitates maintenance by allowing faster access to pump internals without disturbing piping*

Stuffing Box *on long-coupled configuration allows for ample packing or mechanical seals for greater flexibility. To increase uptime and reduce maintenance costs, the stuffing box is exposed to suction pressure only*

Full Hydraulic Balance *with herringbone gears eliminates need for specialized balancing devices or thrust bearings*

Suction and Discharge *passages designed for free, even flow and greater suction lift capability*

Horizontal and Vertical Suction and Discharge Openings *on sizes 1-4 of the flange mounted and close coupled designs permit greater piping flexibility*

Standard Carbon Sleeve Bearings *are self-lubricating for handling low viscosity fluids. Bronze bearings are available for dirty fluid applications*

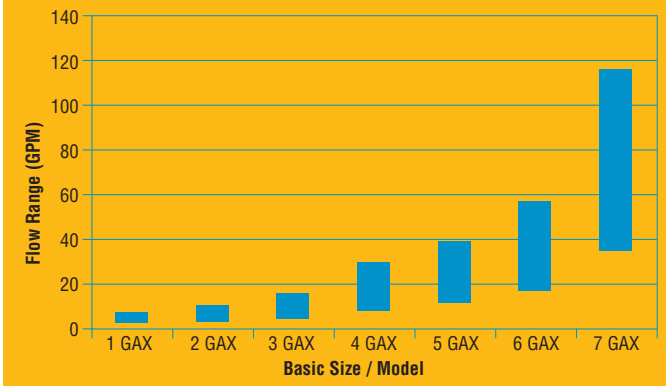
Precision Machined Teeth *engage gradually, preventing trapping of liquid and eliminating shock loading*

GA Series
Rotary Gear Pumps

Operating Parameters

- Flows to 27 m^3/h (120 gpm)
- Temperatures to 175°C (350°F)
- Pressures to 17 bar (250 psi)
- Speeds to 1800 rpm
- Viscosities to 50 000 ssu

GAX Series Quick Selection Chart*



* For a quick selection of the GAX pump model corresponding to the desired flow rate, refer to the chart above. The ranges shown are based on typical viscosities and speeds and assume a zero differential pressure. The chart's purpose is to direct the user to the appropriate performance curve, not to be a substitute for it.

Engineered for Low Cost of Ownership

Low Installation Costs
- Variety of mounting arrangements
- Horizontal and vertical suction discharge openings
- Stuffing box accommodates packing or mechanical seals

Low Maintenance Costs
- Minimal shaft deflection
- Reduced bearing loads
- Accurate alignment with two-piece doweled construction
- Reduced wear rates

Low Operating Costs
- Prolonged service life
- Efficient operation over a broad range of speeds, pressures and viscosities
- No speed reducers
- Only one coupling guard

Available Options

- Integral safety relief valve provides short-term emergency bypass
- Mechanical seal ensures positive sealing
- Mechanical seal with inboard shaft bearing for belt, chain or overhung gear drives
- Bronze sleeve bushings for dirty fluid applications

Bulletin PSS-60-4.1a (E/A4) Printed in USA. December 2008.

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