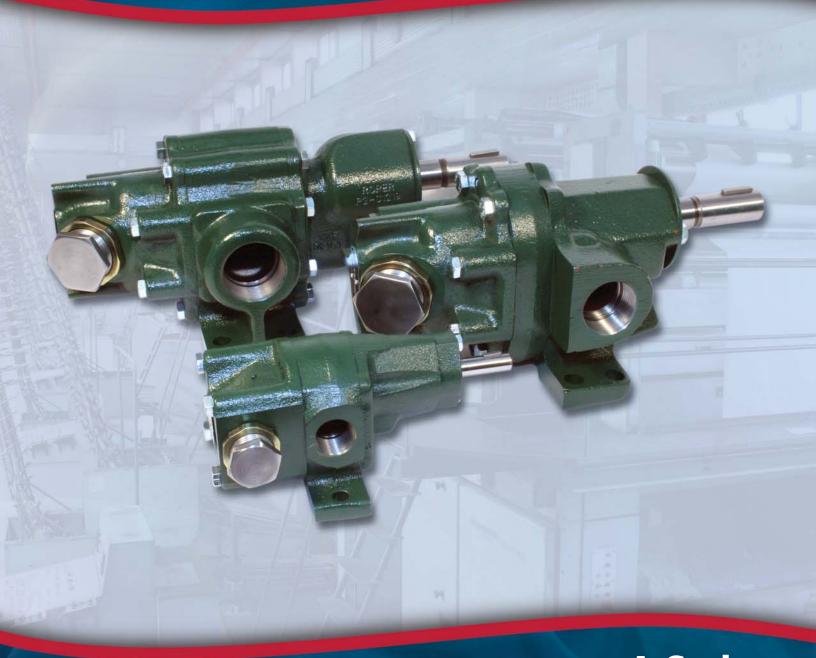


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THE LEADING FORCE behind liquids[™] since 1857



A Series General Purpose Pumps

General Purpose Pumps for Pressure Lubrication, Hydraulic Service, Fuel Supply and General Transfer

The Roper Pump Family of Gear Pumps

Typical Applications Primary Features Image: Second Sec
 Many parts interchangeable with 3600 Series Direct drive or built-on gear reducers Bi-directional rotation* Configurations available for close coupled drive and close coupled hydraulic drive Oilfields including light & heavy crude oil Oilfields including light & heavy crude oil Kerosene mixtures, condensates and hot oils Fuels, solvents, petrochemicals Fuels, solvents, petrochemicals Large ports (6" and 8" available) allow more efficient transfer of fluids Transme hydrause plustes in the protect ending
 Oilfields including light & heavy crude oil Oilfields including light & heavy crude oil Kerosene mixtures, condensates and hot oils Helical gears for quiet operation Bi-directional rotation*
Residual fuel oils, molasses, resins Thru port design allows for
Iankers, barges, process plants, remenes lower inlet and outlet losses
Image: Second
 Pressure lubrication Hydraulic service General transfer applications Operates at motor speeds Bi-directional rotation* Close coupled capability
KeyRoofing Compounds Molasses Feed SupplementsOperates at standard motor speeds Large ports allow easier fluid entry
 Hazardous liquid transfer "Zero leakage" applications due to environmental concerns Chemical and petroleum applications Mag-drive, sealless design eliminates seal repair costs and down time C-face mount eliminates misalignment Bi-directional rotation and self-priming
 Hydraulic power for lifts, machine actuation, fuel burners, and blenders General transfer of oil and petroleum fluids Interpretation Interpretatio
Chemical processing Pharmaceutical industry Injection or transfer of acids & solvents Chemical processing Mag-drive, sealless option (X5-03 only)
Chemical and transport applications Corrosive liquid transfer
 Viscous, abrasive and solids-containing liquids Transfer of wastewater sludge, polymers, grouts, paints and adhesives Pulsation free pumping High suction lift capabilities Ideal for shear sensitive liquids



A Series General Purpose Pumps

General Purpose Pumps for Pressure Lubrication, Hydraulic Service, Fuel Supply and General <u>Transfer</u>

Up to 59 GPM • Up to 300 PSI

Roper A Series pumps are adaptable to a wide range of applications pumping clean fluids, such as pressure lubrication, hydraulic service, fuel supply or general liquid transfer.

These pumps are designed to operate at standard motor speeds, with provisions for flange or foot mounting. The internal bearings are lubricated by the fluid being pumped. With only two moving parts, the pumps run quietly.

They are manufactured and assembled with close tolerances, and regularly tested to insure dependable performance. Factory assembled for clockwise rotation (facing the pump drive shaft end), most may be reassembled for operation with equal efficiency in a counter-clockwise rotation.

MATERIALS OF CONSTRUCTION

Standard Fitted

Housing	Cast Iron		
Gears	Ductile Iron* Hardened Steel**		
Bearings	Bronze		
Idler Shafts	Ductile Iron* Steel**		
Drive Shafts	Hardened Steel		

Optional Materials

Housing	Ductile Iron***
Bearings	Iron, Carbon

*06 and larger sizes. **03 and smaller sizes. ***In 005, 01 and 02 sizes

FEATURES

- Designed to operate at standard motor speeds
- Bi-directional rotation

Quiet-Running Helical Gears

Accurate machining insures:

- proper meshing
- reduced friction and vibration
- quiet, efficient operation
- Iong life

Long-Lasting Bearing Surfaces

- Bearings are special wear-resistant, high-lead bronze. (Iron and carbon bearings are available.)
- Four heavy duty sleeve bearings give positive support to pumping gears and insure long, efficient service.

Precise, Rugged, Maintenance-Friendly Design

- All castings are cast iron.
- Precise manufacturing tolerances provide minimum clearances for maximum pumping efficiency.
- Large, hardened steel dowel pins insure positive alignment between the faceplate, case, and backplate.

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Capacities & Nomenclature

A SERIES NOMENCLATURE

	1 - Foot Mounted	25 - Baseplate Mounted			
Model	2 - Foot Mounted with Relief Valve	26 - Baseplate Mounted with Relief Valve			
Model	17 - Flange Mounted	33 - Close Coupled			
	18 - Flange Mounted with Relief Valve	34 - Close Coupled with Relief Valve			
	AL - Lip Seal				
Seal	AM - Mechanical Seal				
Option	AP - Packed Box				
	AE - Mechanical Seal (AE Series Only)				
	005 - 0.05 Gal/100 Rev [0.19 L/100 Rev]	12 - 1.3 Gal/100 Rev [4.92 L/100 Rev]			
	005 - 0.05 Gal /100 Rev [0.19 L /100 Rev] O1 - 0.1 Gal /100 Rev [0.38 L /100 Rev] O1 O1 Gal /100 Rev [0.38 L /100 Rev] O1 O1 Gal /100 Rev [0.38 L /100 Rev] O1 O1 Gal /100 Rev [0.38 L /100 Rev] O1 O1 Gal /100 Rev [0.38 L /100 Rev] O1 O	12 - 1.3 Gal/100 Rev [4.92 L/100 Rev] 16 - 1.7 Gal/100 Rev [6.44 L/100 Rev]			
Size*					
Size* [AL, AM, AP]	01 - 0.1 Gal /100 Rev [0.38 L /100 Rev]	16 - 1.7 Gal/100 Rev [6.44 L/100 Rev]			
[AL, AM,	01 - 0.1 Gal /100 Rev [0.38 L /100 Rev] 02 - 0.2 Gal /100 Rev [0.76 L /100 Rev]	16 - 1.7 Gal/100 Rev [6.44 L/100 Rev] 21 - 2.2 Gal/100 Rev [8.33 L/100 Rev]			
[AL, AM,	01 - 0.1 Gal /100 Rev [0.38 L/100 Rev] 02 - 0.2 Gal /100 Rev [0.76 L/100 Rev] 03 - 0.3 Gal /100 Rev [1.14 L/100 Rev]	16 - 1.7 Gal/100 Rev [6.44 L/100 Rev] 21 - 2.2 Gal/100 Rev [8.33 L/100 Rev] 27 - 2.7 Gal/100 Rev [10.22 L/100 Rev]			
[AL, AM,	01 - 0.1 Gal /100 Rev [0.38 L/100 Rev] 02 - 0.2 Gal /100 Rev [0.76 L/100 Rev] 03 - 0.3 Gal /100 Rev [1.14 L/100 Rev] 06 - 0.6 Gal /100 Rev [2.27 L/100 Rev]	16 - 1.7 Gal/100 Rev [6.44 L/100 Rev] 21 - 2.2 Gal/100 Rev [8.33 L/100 Rev] 27 - 2.7 Gal/100 Rev [10.22 L/100 Rev] 32 - 3.3 Gal/100 Rev [12.49 L/100 Rev]			

*Size: approximate theoretical flow rate [not including slip]

EXAMPLE: 17AM32	17	AM	32	Type 1
	Model	Seal Option	Size	Internal Construction
EXAMPLE: 2AE54	2	AE	54	Type 1
	Model	Seal Option	Size	Internal Construction



MECHANICAL SEAL (STANDARD)

Mechanical seals are for those applications where product leakage is unacceptable. The mechanical seal uses less power than the packed box and, under proper conditions, has a longer service life. It does not require adjustment. Our standard mechanical seal is an elastomeric bellows type seal, with a temperature limit of 212°F (100°C). Special fitting is available for higher temperature applications.



MECHANICAL SEAL (POSITIVE DRIVEN)

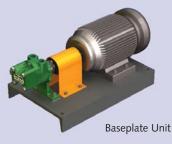
These are positive driven seals with a PTFE wedge, for use where corrosive and/or viscous liquids are being processed. Wedge construction of the secondary sealing element virtually eliminates leakage. These seals have a temperature limit of 450°F (232°C). Special fitting is available for higher temperature applications.

SIZE 005 THROUGH 02



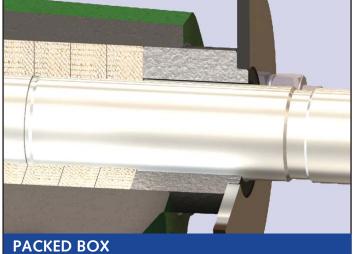
Flange Mounted

With Mounting Bracket

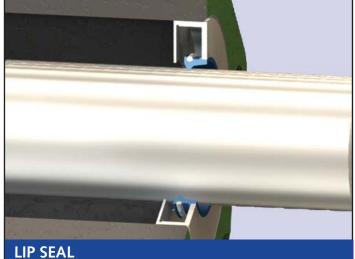


Pump Seals





The packed box seal is suited for general purpose applications. The standard packing has a temperature limit of 250°F (121°C), with special fitting available for higher temperature applications. The gland should be adjusted to allow slight seepage.



The lip seal is suitable for low pressure sealing of lubricating fluids. The standard seal has a temperature limit of 212° F (100°C). Special fitting is available for higher temperature applications. Available in CW rotation only and 100 psi maximum discharge.



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Roper Pump Company is a global supplier of high quality positive displacement pumps, designed to handle a broad range of industrial applications. In addition to helical gear pumps and progressing cavity pumps, we design and develop numerous custom pumps for customers with unique and demanding applications.

From a small pump company founded in 1857, Roper Pump Company has grown into a technological leader. With a large installed base, we have both the knowledge and experience to help you solve your most challenging pumping problems...and our strong global distribution network ensures that your needs are met on time, every time.

Our Markets



INDUSTRIAL

Roper Pump Company's rugged and dependable range of positive displacement pumps provides versatile pumping solutions for even the most challenging industrial applications.



TRANSPORT

With over a century of experience in liquid cargo transfer, Roper Pump Company has always been trusted to load and unload your tankers quickly and safely.



POWER GENERATION For reliable operation of engines, compressors and turbines, thousands of customers depend on Roper Pump Company fuel pumps, lube pumps and liquid fuel flow dividers.



OIL & GAS Roper Pump Company has numerous pumping solutions from the well to the refinery. Our industry leading DragonSlayer® Power Sections allow mud motors to run longer at unprecedented temperatures and depths.

Roper Pump Company PO Box 269, 3475 Old Maysville Road Commerce, GA 30529 USA

Customer Service: 706-336-3359 Technical Support: 706-336-3334 Fax: 706-335-5490

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