



THE LEADING FORCE behind liquids™ since 1857

Rotary Positive Displacement Pumps

External Gear

3600 Series



General purpose pumps for transferring, mixing, blending and recirculating. Efficiently handles heavy, viscous materials such as: asphalt, molasses, chocolate, roofing compounds, and printing inks. Also suitable for fuel oil, gasoline, and similar thin liquids.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
8	360 GPM 81.8 M3/hr	125 PSI 8.6 Bar	Up to 55,000 cSt Up to 250,000 SSU	212°/450° F* 100°/232° C*	2" - 3" NPT 2" - 4" Flg	Cast Iron

Z Series



Easy maintenance, two-piece backplate for flexible sealing options (single, double or cartridge seals). Designed around our 3600 series pump with a more advanced seal chamber and optional ANSI flanges. Ideal for chemical and petroleum applications.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
7	360 GPM 81.8 M3/hr	125 PSI 8.6 Bar	Up to 55,000 cSt Up to 250,000 SSU	212°/450° F* 100°/232° C*	2" - 3" NPT 2" - 4" Flg	Cast Iron

3800 Series



Sealed outboard ball bearing pump created for harsh oilfield environments where internal bushings wear out prematurely. Commonly used on light and heavy crude oil transfer, dirty condensate, sludges and spent waste fluids.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
4	540 GPM 122.6 M3/hr	125 PSI 8.6 Bar	Up to 55,000 cSt Up to 250,000 SSU	250°/350° F* 121/176° C*	3" & 4" Flg	Cast Iron with sealed ball bearings

9600 Series



Heavy duty corrosion resistant stainless steel pump for chemical transfer. Typically used for corrosive liquids, polymers and petro-chemicals.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
1	165 GPM 37.5 M3/hr	100 PSI 7 Bar	Up to 55,000 cSt Up to 250,000 SSU	350° F 176° C	3" Flg	316/17-4 PH Stainless Steel

BULK HANDLING Series



High capacity transfer pumps designed for a wide variety of bulk liquids in loading and unloading applications: barges, railway tank cars and transport tankers.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
2	1045 GPM 237 M3/hr	125 PSI 8.6 Bar	Up to 55,000 cSt Up to 250,000 SSU	250°/500° F* 121°/260° C*	8" Flg	Ductile Iron, Cast Iron

5600 Series



Rubber gear pump specifically designed for handling liquids with high solid content and abrasives. Often used for oilfield service, hydro-seeding, waste oils, tallow and sludges.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
1	232 GPM 52.7 M3/hr	100 PSI 7 Bar	Up to 2,200 cSt Up to 10,000 SSU	160° F 71° C	3" Flg	Cast Iron NITRILE covered rotors

*with high temperature options.

A Series



General purpose pumps for pressure lubrications, hydraulic service, fuel supply and general transfer. Capable of operating at standard motor speeds. Pressures up to 300 PSI

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
12	75.6 GPM 17.2 M3/hr	150/300 PSI** 10/20 Bar**	Up to 2,200 cSt Up to 10,000 SSU	212°/500°F* 100°/260°C*	3/8" - 2" NPT	Ductile Iron, Cast Iron

2835 Series



High viscosity pump designed to run at standard motor speeds with liquid viscosities up to 100,000 SSU. Commonly used for pumping molasses, feed supplements and roofing compounds.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
1	11.3 GPM 2.57 M3/hr	75 PSI 5.2 Bar	Up to 22,000 cSt Up to 100,000 SSU	200°/450°F* 93°/232°C*	1 1/2" NPT	Cast Iron

ROC® Series



Heavy duty stainless steel pumps for the chemical and pharmaceutical industries. Used for dosing and transferring of acids and solvents. Available with magnetic drive on small sizes.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
8	32.4 GPM 7.36 M3/hr	300 PSI 20 Bar	Up to 55,000 cSt Up to 250,000 SSU	350° F 176° C	1/2" - 2" NPT	316/17-4 Stainless Steel

V Series



Magnetic drive, seal-less helical gear pump designed for ultra-safe transfer of hazardous or toxic liquids. Ideal for environmental concerns or where "zero leakage" is an issue.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
4	5.4 GPM 1.2 M3/hr	150 PSI 10 Bar	Up to 2,200 cSt Up to 10,000 SSU	225° F 107° C	1/2" - 3/4" NPT	Ductile Iron Cast Iron

F Series



A versatile high pressure pump commonly used to provide hydraulic power for positioning devices, lifts, and machine actuators. Well suited for liquid pressurization with fuel burners and blenders.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
13	403.2 GPM 91.6 M3/hr	425 PSI* 29 Bar*	Up to 22,000 cSt Up to 100,000 SSU	212°/250°F* 100°/121°C*	1/2" - 2 1/2" NPT 3" - 4" Flg	Cast Iron

2001 Type 10



This high pressure pump is rated at 1200 PSI while pumping 2-5 GPM. Used for low flow high pressure applications such as dosing injection and high pressure spray nozzles

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
1	2 GPM 0.5 M3/hr	1200 PSI 82.75 Bar	Up to 110,000 cSt Up to 500,000 SSU	350° F 176° C	3/4" - 3/8" NPT	Cast Iron

* with high temperature options
** for smaller sizes

Industry Pump Selection

This is a general guide and may not be relevant to your specific industry.

Review product selections and specific requirements with authorized Roper Pump representatives.

	Agriculture	Asphalt	Chemicals	Food & Beverage	Ink & Pigments	Marine	Mining	Oil & Gas	Personal Care	Pharmaceuticals	Power Generation	Pulp & Paper	Transportation	Wastewater
3600 Series	■	■		■	■			■			■	■	■	
Z Series	■	■		■	■			■			■	■		
3800 Series	■							■					■	
9600 Series	■		■							■		■	■	
Bulk Handling	■							■			■	■		
5600 Series	■							■					■	■
A Series	■				■			■			■			
2835 Series	■			■										
ROC® SERIES	■		■		■			■	■	■				
V Series								■						
F Series								■			■			
2001 Type 10				■										
Progressing Cavity	■		■		■		■	■	■			■		■
Triple Screw		■	■		■	■		■	■		■	■		
Custom Engineered Products	■	■	■	■	■	■	■	■	■	■	■	■	■	■

PRESSURE AND FLOW

HOUSING MATERIALS OF CONSTRUCTION

	Pressure (PSI)	Max Flow (GPM)
3600 Series	125	368
Z Series	125	165
3800 Series	125	540
9600 Series	100	165
Bulk Handling	125	1045
5600 Series	100	232
A Series	300	75
2835 Series	75	11
ROC® Series	300	32
V Series	150	5
F Series	425	403
2001 Type 10	1200	2
Progressing Cavity	750	1000
Triple Screw	928	1453
Custom Engineered Products	1500	1200

Cast Iron	Ductile	Steel	Stainless
ASTM A 48			
ASTM A 48			
ASTM A 48			
			CF-8M
ASTM A 48	ASTM A 395		
ASTM A 48			
ASTM A 48	ASTM A 395		
ASTM A 48			AISI 316
ASTM A 48	ASTM A 395		
ASTM A 48			
ASTM A 48			CF-8M
*		*	*
*	*	*	*
*	*	*	*

*Contact Factory for specific materials available

Performance Products

PROGRESSING CAVITY PC



Pulseless, low shear, solids handling pump for viscous and abrasive liquids. Commonly used in transferring wastewater sludge, polymers, grouts, paints and adhesives.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
15	1000 GPM 227 M3/hr	750 PSI 51.7 Bar	Up to 10 million CPS Up to 50 million SSU (approx.)	350° F 176° C	1" - 10" Flg plus hopper 3/4" NPT	Stainless Steel, Cast Iron Stator, Buna, Viton, EPDM, Nat. Rubber

TRIPLE SCREW D Series



Cartridge-type pumps for pulseless, low shear and high viscosity applications. Used on thick clean liquids requiring high pressure discharge. Commonly used with lube & seal oil, hydraulic elevators, fuel oil transfer.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
34	1453 GPM 330 M3/hr	928 PSI 64 Bar	Up to 100,000 cSt Up to 500,000 SSU	500° F 260° C	1" - 10" Flg	Cast Iron, Steel

CUSTOM ENGINEERED PRODUCTS



With over 150 years of experience we have designed and developed numerous custom pumps for unique and demanding applications. Let us know what you need and our Engineers will design a pump specifically for you.

No. of Sizes	Theoretical Max Capacity	Differential Pressure	Viscosity	Max Temp.	Port Sizes	Housing Materials of Construction
-	1200 GPM 272.5 M3/hr	1500 PSI 103 Bar	Up to 100,000 cSt Up to 455,000 SSU	500° F 260° C	Various	Various

LIQUID FUEL FLOW DIVIDERS



Corrosion-Resistant Flow Dividers

Flow dividers for most sizes of liquid fuel fired gas turbines. Available in standard cast iron or stainless steel and bronze DuraFlow™ versions.

- DuraFlow™ Corrosion-Resistant Flow Dividers resist corrosion during standby, for reliable start-up of liquid fuel systems.
- DuraFlow™ resists problems caused by fuel-borne particulate contamination.
- DuraFlow™ offers dramatic savings on operation and maintenance.
- DuraFlow™ is available new or retrofit, for most heavy industrial gas turbine makes and models.

DuraFlow™

MUD MOTOR POWER SECTIONS



Available in a range of sizes, torque values, speed and materials to match your application.

Our optional DragonSlayer™ high performance elastomer has been field tested to 425°F (218°C) and goes deeper, runs at higher temperatures and lasts longer in hazardous environments.

Applications:

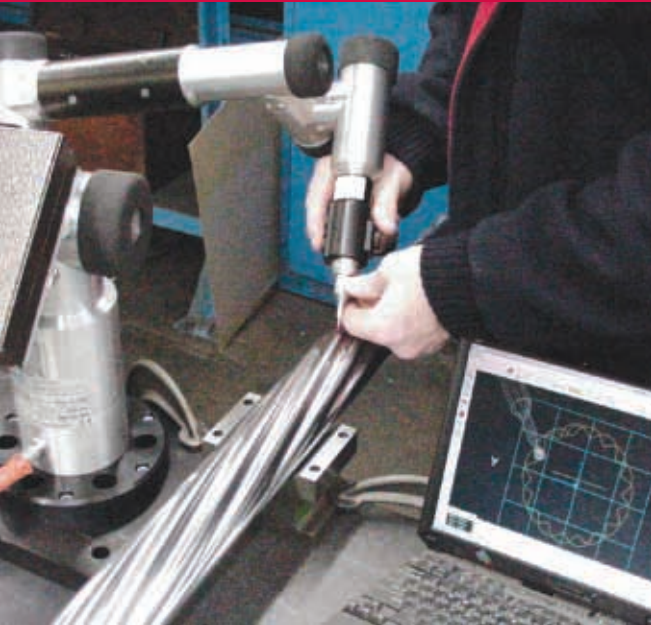
- Directional horizontal and vertical drilling
- Coiled tubing
- Snubbing
- Utilities
- River crossing

DRAGONSLAYER™
HIGH PERFORMANCE POWER SECTIONS

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Roper Pump Company as to the effects of such use or results to be obtained. Roper Pump Company assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



THE LEADING FORCE behind liquids™ since 1857



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, progressing cavity pumps and triple screw 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 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'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 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 fuel pumps, lube pumps and liquid fuel flow dividers.



OIL & GAS

Roper 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.

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DOC# PB-IND-E-R1