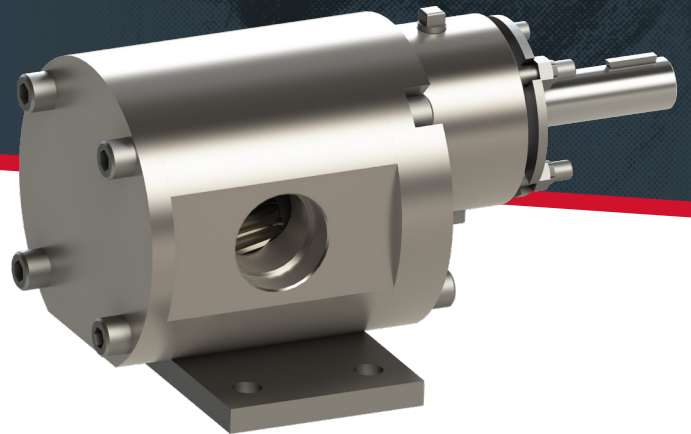




THE LEADING FORCE behind liquids™ since 1857

ROC Series

GEAR PUMPS



The helical gear design of the ROC makes it the most solid pump on the market for chemical processing.

The ROC Series features heavy duty stainless steel gear pumps for optimum chemical capability for non-pulsing, high-pressure chemical dosing, metering, circulation, injection and transfer needs. The back pull-out design allows for easy maintenance without disturbing any piping.

The one-piece “D” style bushings eliminate the need for wear plates and provide positive alignment and gear support. These gear pumps are capable of operating at nominal motor speeds and capable up to 300 PSI differential pressures.

8

SIZES AVAILABLE

1/2" - 2"

NPT PORT

32.4

GPM (UP TO)

300

PSI (UP TO)

Materials of Construction

- 316 SST ASTM A743 Housings
- 17-4pH SST ASTM A564 Type 630 Gears/Shafts
- Carbon Graphite Bearings (STANDARD)
- Silicon Carbide Bearings (OPTIONAL)
- PTFE O-Rings

Key Features

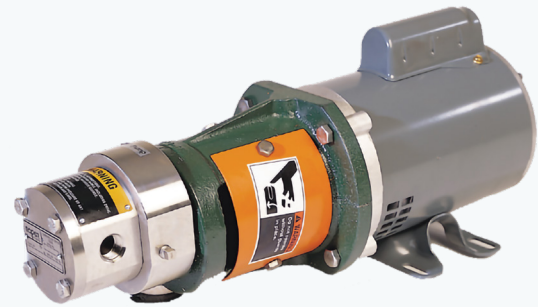
- Helical Gears for Smooth and Quiet Operation
- Bi-directional Rotation for Quick Reversing of Flow for Loading/Unloading Operations
- Only Two Moving Parts for Less Wear and Reduced Maintenance
- Close Coupled Mount (Sizes 03 and Below) for Smaller Footprint and Easier Alignment with Motor
- Foot Mount Design For Easier Installation (Sizes 07-18)
- Magnetic Drive Arrangement (Sizes X2.5-03) for Sealless Design

Typical Applications

- Chemical Processing
- Chemical Transfer
- Pharmaceutical Industries
- Injection & Transfer of Acids & Solvents
- Polymers (High & Low Viscosity)
- Low Viscosity Fluid Transfers, Such As:
 - Nitric Acid
 - Phosphoric Acid
 - Potassium Hydroxide
 - Sodium Chloride
 - Fatty Acids

Configuration Options

- PEEK Idler Available for Viscosities Under 100 SSUs (Sizes 01 & Above)
- Magnetic Drive Arrangement (Sizes X2.5-03)
- Close-Coupled Bracket Arrangement (Sizes X2.5-03) *Pictured Below*



MODEL	THEORETICAL CAPACITY	MAX SPEED	MAX FLOW AT MAX SPEED (0 Discharge Press.)	MAX PRESS.	PORT CONNECTION
X2.5	.00025 GPR (.946 CC/REV)	3600 RPM	.9 GPM (.204 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
X5	.0005 GPR (1.89 CC/REV)	3600 RPM	1.8 GPM (.41 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
01	.001 GPR (3.79 CC/REV)	3600 RPM	3.6 GPM (.82 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
02	.002 GPR (7.57 CC/REV)	3600 RPM	7.2 GPM (1.64 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
03	.003 GPR (11.36 CC/REV)	3600 RPM	10.8 GPM (2.45 M ³ /HR)	300 PSI (20 Bar)	3/4"NPT
07	.007 GPR (26.5 CC/REV)	1800 RPM	12.6 GPM (2.86 M ³ /HR)	300 PSI (20 Bar)	1-1/2"NPT
12	.012 GPR (45.42 CC/REV)	1800 RPM	21.6 GPM (4.91 M ³ /HR)	300 PSI (20 Bar)	1-1/2"NPT
18	.018 GPR (68.14 CC/REV)	1800 RPM	32.4 GPM (7.36 M ³ /HR)	300 PSI (20 Bar)	2"NPT

Note: Maximum Speed and flow can only be achievable under the correct inlet (suction) and liquid conditions. Liquid viscosity and discharge pressure, plus pumping conditions will determine actual flow (ie. - theoretical minus slip).