



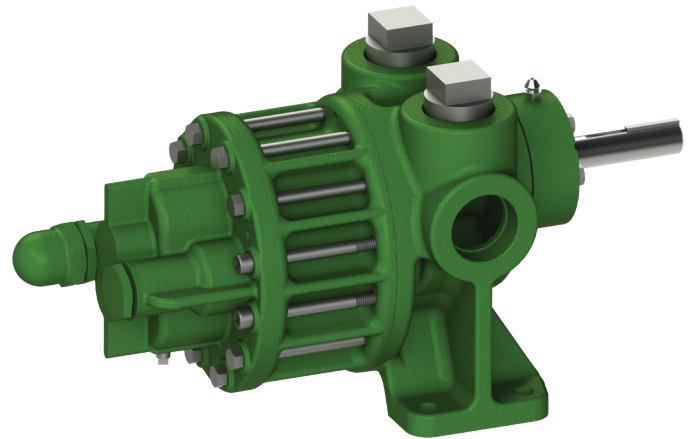
THE LEADING FORCE behind liquids™ since 1857

F Series

GEAR PUMPS

Compact, versatile, high-pressure gear pumps. Precision machining allows for minimum clearances, providing efficient, trouble-free service.

Roper Pump's F-series has firmly established itself as a premier compact, versatile, and high-pressure gear pump due to its exceptional engineering and durable design. This heavy-duty pump is meticulously crafted to deliver outstanding performance in a wide range of applications, making it a top choice for industries requiring robust and efficient pumping solutions. Its compact size allows for easy integration into limited spaces, making it ideal for various installations. Notably, its ability to maintain high-pressure capabilities ensures reliable and consistent operation even under demanding conditions. Through a perfect balance of compactness, versatility, and high-pressure capabilities, Roper Pump's F-series has solidified its position as the go-to gear pump for industries seeking uncompromising quality and performance.



12

SIZES AVAILABLE

0.5-2.5"

NPT PORT

12

NPT PORTS

3"

FLANGED PORT

234

GPM (UP TO)

425*

PSI (UP TO)

Materials of Construction

- Cast iron housings
- Hardened steel gears
- Precision ground steel shafts
- Flanged, bronze journal bearings
- Graphite-impregnated Teflon packing

Key Features

- Easy maintenance
- High efficiency
- 8 piping arrangements
- Quiet running helical gears
- Standard outboard bearing protects against radial/thrust loads

* Pressure above 300 PSI requires needle roller bearings.

Typical Applications

- Oil Filtration Carts
- Pipeline Pressure Booster
- Fuel Burner Supply
- Bearing Lube

Configuration Options

- C-face or foot-mounted motor driven assemblies
- Integral pressure relief valve
- Mechanical seal
- Many unique, application-specific materials of construction available
- Packing available

MODEL	THEORETICAL CAPACITY	MAX SPEED	MAX FLOW AT MAX SPEED	MAX PRESS.	PORT CONNECTION
F1	.00086 GPR (3.2 CC/REV)	3600 RPM	3.1 GPM (.70 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
F3	.002 GPR (7.6 CC/REV)	3600 RPM	7.2 GPM (1.6 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
F5	.003 GPR (11.4 CC/REV)	3600 RPM	10.8 GPM (2.5 M ³ /HR)	300 PSI (20 Bar)	1/2"NPT
F10	.007 GPR (26.5 CC/REV)	3600 RPM	25.2 GPM (5.7 M ³ /HR)	300 PSI (20 Bar)	3/4"NPT
F15	.0103 GPR (39.0 CC/REV)	3600 RPM	37.1 GPM (8.4 M ³ /HR)	300 PSI (20 Bar)	1 1/4"NPT
F20	.0124 GPR (46.9 CC/REV)	3600 RPM	44.6 GPM (10.1 M ³ /HR)	300 PSI (20 Bar)	1 1/4"NPT
F35	.034 GPR (128.7 CC/REV)	1800 RPM	61.2 GPM (13.9 M ³ /HR)	300 PSI (20 Bar)	1 1/2"NPT
F50	.050 GPR (189.3 CC/REV)	1200 RPM	60.0 GPM (13.6 M ³ /HR)	300 PSI (20 Bar)	2"NPT
F75	.075 GPR (283.9 CC/REV)	1200 RPM	90.0 GPM (20.5 M ³ /HR)	300 PSI (20 Bar)	2 1/2"NPT
F100	.0107 GPR (405.0 CC/REV)	1200 RPM	128.4 GPM (29.2 M ³ /HR)	300 PSI (20 Bar)	2 1/2"NPT
F150	.186 GPR (704.1 CC/REV)	1200 RPM	223.2 GPM (50.7 M ³ /HR)	300 PSI (20 Bar)	3" Flanged
F200	.232 GPR (878.2 CC/REV)	900 RPM	208.8 GPM (47.4 M ³ /HR)	300 PSI (20 Bar)	3" Flanged

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).