

F Series

Roper Pumps' "F" Series gives you eight great ways to deliver under pressure.



Power Under Pressure

Applications

- Hydraulic power for positioning devices, lifts, machine actuation, fuel burners and blenders
- General transfer applications for oil and petroleum fluids

Features

- High pressure external gear pump
- Capable of handling pressures to 300 PSI in standard construction
- 500 PSI with bearing modifications
- Front pullout design, maintenance without disturbing piping
- Flanged sleeve bushings with grooves to allow for lubrication

Options

- Four-port design allows 8 optional piping arrangements to reduce installation cost
- Integral relief valve

F Series

Pump Model	Theoretical Capacity	Maximum Speed	Maximum Flow at Maximum Speed (0 Discharge Pressure)	Maximum Pressure	Port Connection
F1	.00086 GPR (3.3 CC/REV)	3600 RPM	3.1 GPM (.70 M3/HR)	300 PSI (20 Bar)	1/2" NPT
F3	.002 GPR (7.7 CC/REV)	3600 RPM	7.3 GPM (1.7 M3/HR)	300 PSI (20 Bar)	1/2" NPT

Pump Model	Theoretical Capacity	Maximum Speed	Maximum Flow at Maximum Speed (0 Discharge Pressure)	Maximum Pressure	Port Connection
F5	.003 GPR (13.0 CC/REV)	3600 RPM	12.4 GPM (2.8 M3/HR)	300 PSI (20 Bar)	1/2" NPT
F10	.007 GPR (24.9 CC/REV)	3600 RPM	23.7 GPM (5.4 M3/HR)	300 PSI (20 Bar)	3/4" NPT
F15	.0103 GPR (39.0 CC/REV)	3600 RPM	37.1 GPM (8.4 M3/HR)	300 PSI (20 Bar)	1-1/4" NPT
F20	.0124 GPR (46.9 CC/REV)	3600 RPM	44.6 GPM (10.1 M3/HR)	300 PSI (20 Bar)	1-1/4" NPT
F35	.034 GPR (126.8 CC/REV)	1800 RPM	60.3 GPM (13.7 M3/HR)	300 PSI (20 Bar)	1-1/2" NPT
F50	.050 GPR (190.0 CC/REV)	1200 RPM	60.2 GPM (13.7 M3/HR)	300 PSI (20 Bar)	2" NPT
F75	.075 GPR (284.3 CC/REV)	1200 RPM	90.1 GPM (20.5 M3/HR)	300 PSI (20 Bar)	2-1/2" NPT*
F100	.107 GPR (405.8 CC/REV)	1200 RPM	128.6 GPM (29.2 M3/HR)	300 PSI (20 Bar)	2-1/2" NPT*
F150	.186 GPR (704.1 CC/REV)	1200 RPM	223.2 GPM (51.0 M3/HR)	300 PSI (20 Bar)	3" NPT
F200	.232 GPR (878.2 CC/REV)	900 RPM	208.6 GPM (47.4 M3/HR)	300 PSI (20 Bar)	3" NPT
F300	.448 GPR 1695.9 CC/REV)	800 RPM	403.2 GPM (91.6 M3/HR)	300 PSI (20 Bar)	4" NPT

Materials of Construction

	Housing	Gears	Bearings	Shaft	O-rings
	Cast Iron	Steel	Bronze	Steel	Buna
OPTIONAL					Viton®
OPTIONAL					Teflon®

Key Features

Standard

- Rugged Housing
- Easy maintenance without disturbing piping
- Tight tolerance with efficiency in mind
- Standard outboard bearing protects against radial/thrust loads
- Pressure up to 500 PSI
- 8 piping arrangements
- Helical gears for quiet operation

Optional

- Internal relief valve (except F300)

F Series Performance Range

Capacity 0 - 91.6 m³/hr 0 - 403 GPM

Pressure 0 - 20 Bar 0 - 300 PSI

Viscosity 1 - 55,000 cSt 28 - 250,000 SSU

Temperature 176° C 350° F