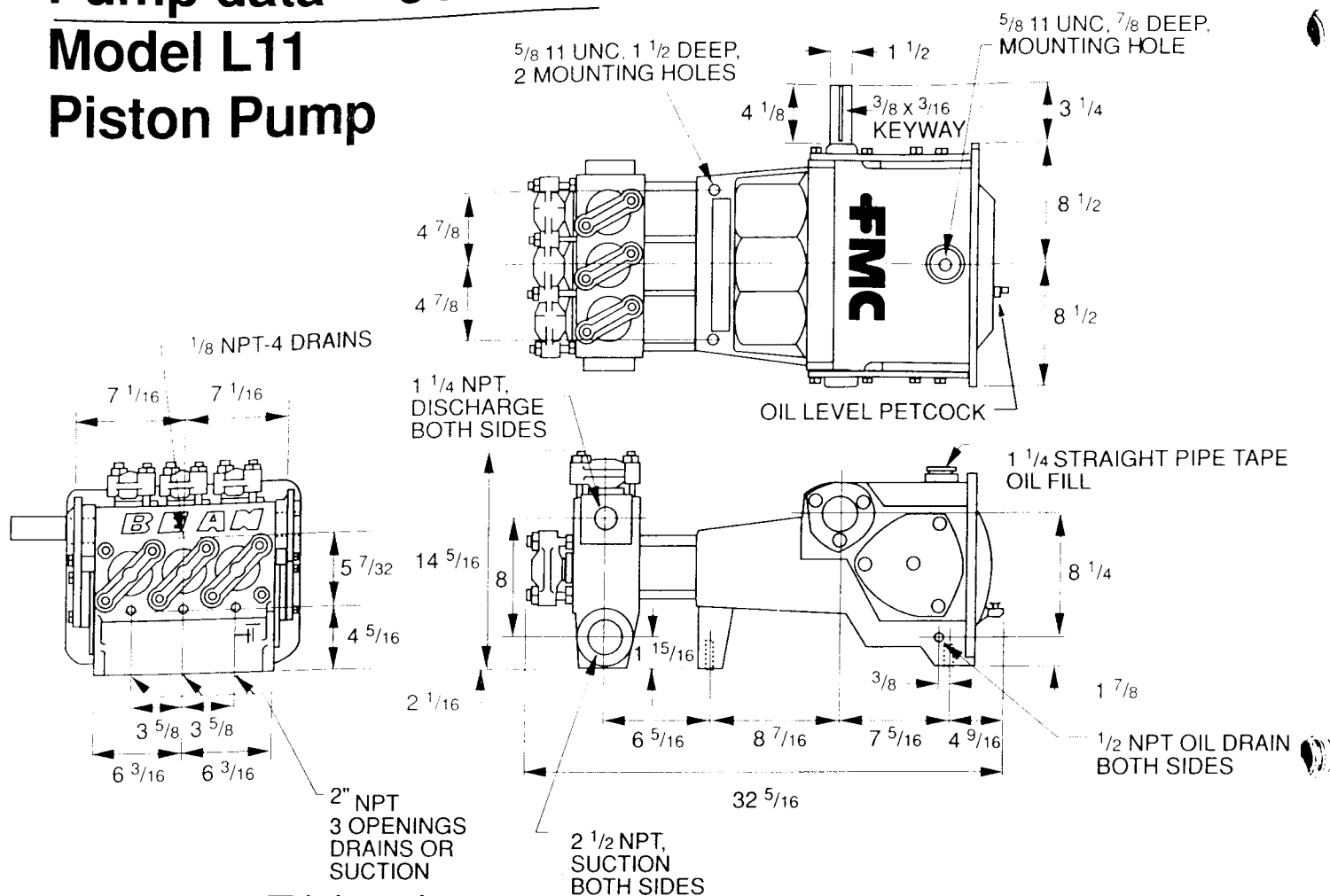


Pump data 51.7 BHP

Model L11 Piston Pump



Pump type: Triplex piston

Drive-end specifications

Stroke 2 3/4"

Internal Gear Reduction Ratio — 3.6:1

Oil Type — SAE 30

Direction of Rotation — Top of shaft away from fluid end

Shipping Weight — 460 lbs

Maximum Speed — SEE TABLE

Minimum Speed — SEE TABLE

No. of Pistons — 3

Crankcase Material — Cast Iron

Oil Capacity — 1 gallon

Shaft Extension — LH Standard

RH shaft and double-ended shaft optional

L11 TRIPLEX POWER PUMP

2 3/4", (69.9 mm) STROKE 6000 lb. (26700N) FRAME (PLUNGER) LOAD

	PISTON DIAMETER		Displacement		Maximum Discharge Pressure		STD VALVE DATA			CYLINDER CONNECTIONS	
	INCH	MM	GAL/REV	L/REV	PSIG	BAR	DISC. DIAMETER	SEAT HOLE AREA	% Area	SUCTION	DISCHARGE
1118	2.25	57.15	.0394	.149	1200	82.8	1.450" (36.8 mm)	1.21 IN ² (779 mm ²)	30	2 1/2 NPT	1 1/4" NPT
1122	2.75	69.85	.0589	.223	1000	69.0			20		

Displacement based on input RPM

L11 TRIPLEX POWER PUMP

STANDARD MATERIAL OF CONSTRUCTION

REF#	DESCRIPTION	MATERIAL		
	FLUID END	STD	AB	DI/AI
	Fluid Cylinder (valve chamber)	A536 GR 80-55-06 Ductile Iron	CDA 958 Alum Bronze	A536 GR 80-55-06 Ductile Iron
	Liners (cylinders)	Solid Ceramic		
	Packing Holder	C360 Brass	316 Stn Stl	303 Stn Stl
	Packing Nut	C360 Brass	316 Stn Stl	303 Stn Stl
	Valve Disc (Ball)	440 Stn Stl	450(15-6 Mo) Stn Stl	
	Valve Seat	440 Stn Stl	450(15-6 Mo) Stn Stl	
	Valve Spring	17-7 Ph Stn Stl	Inconel 600	
	Valve Retainer	304 Stn Stl		
	Valve Cover	Carbon Steel	316 Stn Stl	Carbon Steel
	Cylinder Gasket	Kevlar/Nitrile		
	Valve Cover O-Ring	Buna-N		
POWER END				
	Power Frame (pump case)	A48 Class 30 Cast Iron		
	Crankshaft	A536 GR 100-70-03 Ductile Iron		
	Main Bearings	Steel-Tapered Roller Type		
	Connecting Rod	A536 GR 80-55-06 Ductile Iron		
	Crosshead	416 Stn Stl	17-4 Ph	
	Crosshead Extension (pony rod)	AISI 4140 Alloy Steel		

Brake Horsepower Required For Specific Applications

$$= \frac{(\text{GPM}) (\text{PSI})}{1450}$$

Internal Gear Reduction Ratio= 3.6:1
Example: $\frac{1275 \text{ RPM}}{3.6} = 354 \text{ Crank RPM}$

	Input		Max PSI
	Minimum	Maximum	
L1118B	350	690	1200
L1118D	350	1270	1200
L1122B	350	680	1000
L1122D	350	1275	1000

Technical Notes

- Volumes indicated are based on 100% Volumetric Efficiency.
Horsepower required based on 85% Mechanical Efficiency.
- Ratings are nominal speeds and pressures and may vary on FMC written approval.
- FMC Corporation**