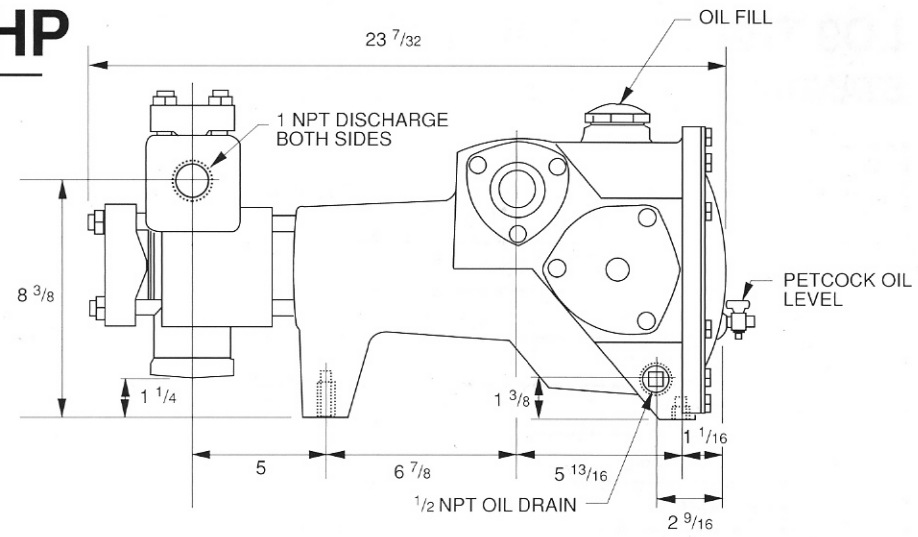
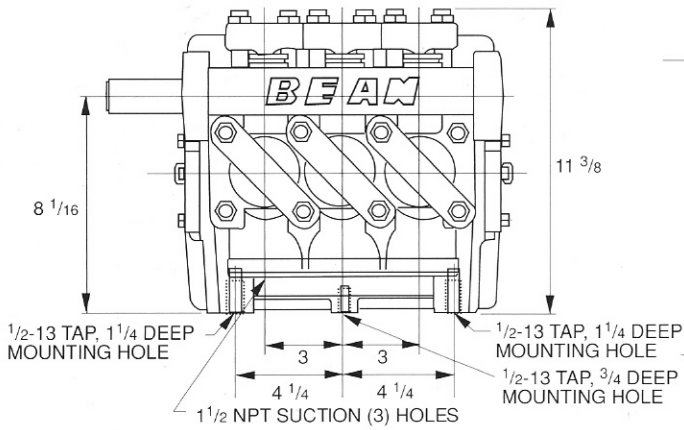
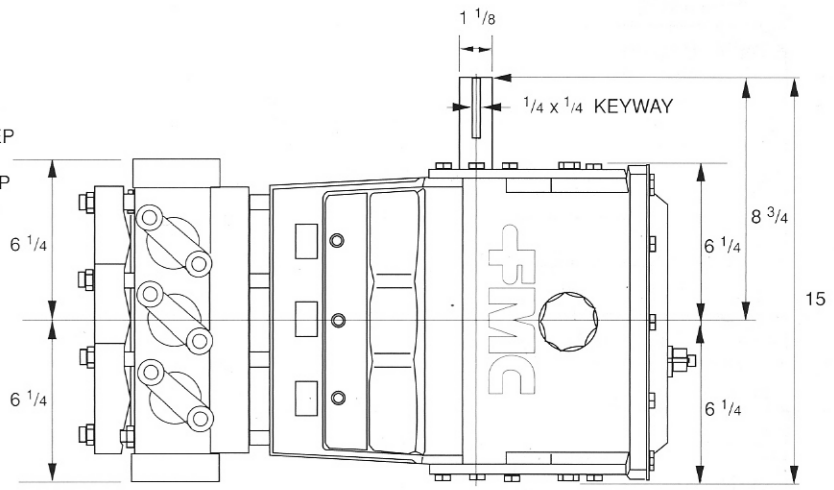
Pump data 14 BHP
Model LO9
Piston Pump







Pump type: Triplex piston

Drive-end specifications

Stroke — 2 1/4"
Internal Gear Reduction Ratio — 3.6:1
Oil Type — SAE 30
Direction of Rotation — Top of shaft away from head
Shipping Weight — 200 lbs
Maximum Speed — SEE BACK
Minimum Speed — SEE BACK
No. of Pistons — 3
Crankcase Material — Cast Iron
Oil Capacity — 3 quarts
Shaft Extension — Standard Shown,
RH shaft and double-ended shaft optional

LO9 TRIPLEX POWER PUMP

2 1/4" , (57.2 mm) STROKE 2785 lb. (12400N) 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
A 913	1.625	41.3	.0168	.064	1200	82.8	.97" (24.6 mm)	.442 IN² (2859 mm²)	21	1 1/2 NPT	1 NPT
B 914	1.75	44.5	.0195	.074	1000	69.0	97" (24.6 mm)	.442 IN² (285 mm²)	18	1 1/2 NPT	1 NPT
918	2.25	57.2	.0323	.122	700	48.0			11		

Displacement based on input RPM

LO9 TRIPLEX POWER PUMP

STANDARD MATERIAL OF CONSTRUCTION

REF#	DESCRIPTION	MATERIAL	
	FLUID END	**DI**	**DI/AI**
	Fluid Cylinder (valve chamber)	A48 Class 30 Cast Iron	
	Liners (cylinders)	Solid Ceramic	
	Packing Holder	C360 Brass	303 Stn Stl
	Packing Nut	C360 Brass	303 Stn Stl
	Valve Disc (Ball)	440 Stn Stl	
	Valve Seat	440 Stn Stl	
	Valve Spring	17-7 Ph Stn Stl	
	Valve Retainer	416 Stn Stl	
	Valve Cover	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	A48 Class 30 Cast Iron	
	Crosshead Extension (pony rod)	416 Stn Stl	
	Pinion Shaft	AISI 4140 Alloy Steel	

Brake Horsepower Required For Specific Applications

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

Internal Gear Reduction Ratio= 3.6:1

Example: $\frac{870\ RPM}{3.6}$ = 241 Crank RPM

	Input RPM		
	Minimum	Maximum	Max PSI
L0913B	360	620	1200
L0914B	360	620	1000
L0914D	360	875	1000
L0918B	360	625	700
L0918D	360	870	700

Technical Notes

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

FMC Corporation Fluid Control Division. P.O. Box 1377, Stephenville, Texas 76401, Phone: 817/968-2181, Fax: 817/968-5709