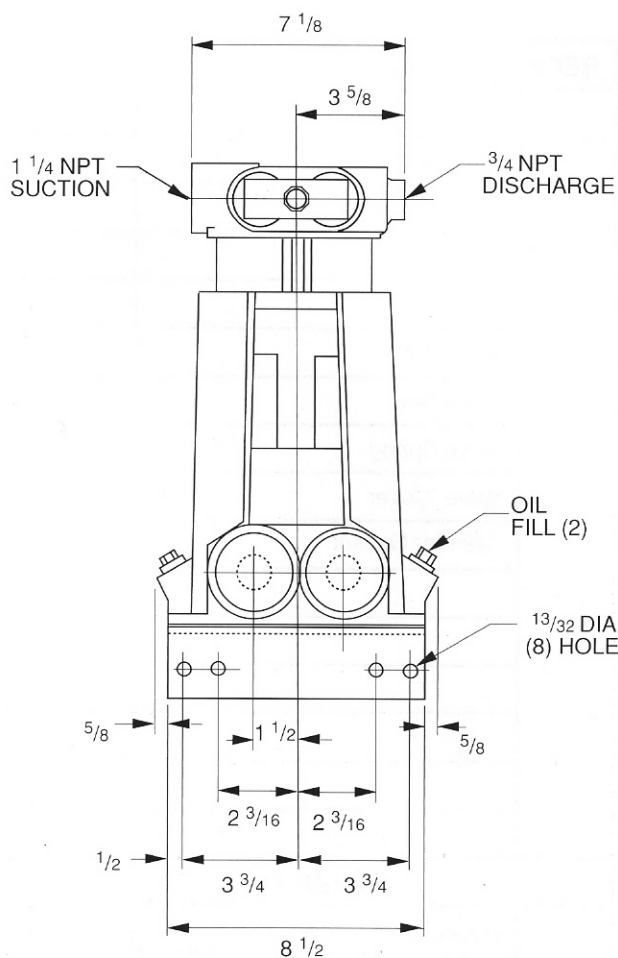
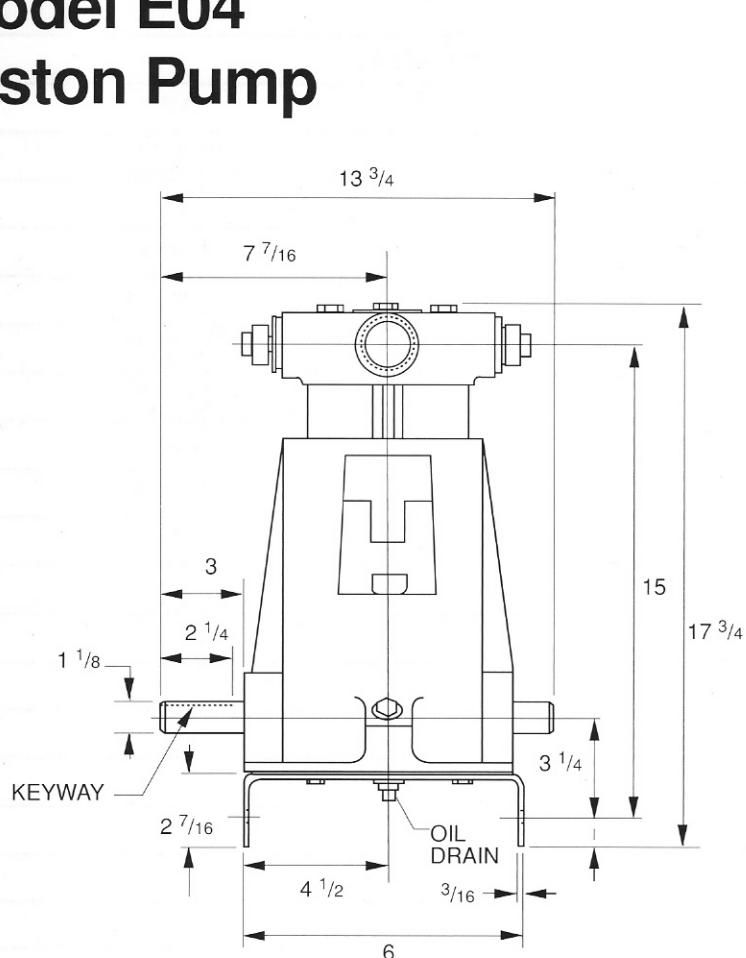


Pump data 7.7 BHP

Model E04

Piston Pump



Pump type: Quadruplex piston

Drive-end specifications

Stroke — 1"
 Oil Type — SAE 30
 Direction of Rotation — either
 Shipping Weight — 80 lbs

Maximum Speed — 575 RPM
 Minimum Speed — 390 RPM
 No. of Pistons — 4
 Crankcase Material — Cast Iron
 Oil Capacity — 1 quart
 Shaft Extension — Standard Shown

E04 QUADRUPLEX POWER PUMP

1", (25.4 mm) STROKE 1240 lb. (5518N) 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	410	1.25	31.8	.0212	.080	750	.97" (24.6 mm)	.442 IN ² (285 mm ²)	36	1 1/4 NPT	3/4 NPT
	411	1.375	34.9	.0257	.097	700			30		
	413	1.625	41.3	.0359	.136	600			21		

E04 QUADRUPLEX POWER PUMP

STANDARD MATERIAL OF CONSTRUCTION

REF#	DESCRIPTION	MATERIAL	
		STD	AB
	FLUID END		
	Fluid Cylinder (valve chamber)	A48 Class 30 Cast Iron	CDA 954 Alum Bronze
	Liners (cylinders)	Solid Ceramic	
	Packing Holder	C360 Brass	316 Stn Stl
	Packing Nut	304 Brass	316 Stn Stl
	Valve Disc	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 Cover	Carbon Steel	316 Stn Stl
	Cylinder Gasket	Kevlar/Nitrile	
	POWER END		
	Power Frame (pump case)	A48 Class 30 Cast Iron	
	Crankshaft	AISI 4140 Steel	
	Main Bearings	Steel-Ball Max Capacity	
	Connecting Rod	771.0 Aluminum Alloy	
	Crosshead	A48 Class 30 Cast Iron	
	Crosshead Extension (pony rod)	A48 Class 30 Cast Iron	

Horsepower

EO410C requires 5.6 HP @ 750 PSI; 10.9 GPM
 EO411C requires 6.4 HP @ 700 PSI; 13.3 GPM
 EO413C requires 7.7 HP @ 600 PSI; 18.5 GPM

Brake Horsepower Required For Specific Applications

$$= \frac{(\text{GPM}) (\text{PSI})}{1450} \text{ or } \frac{(\text{BPD}) (\text{PSI})}{49717}$$

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