

FMC Pump Specifications

0-52 HP

(52 to 240 HP next page)

Pump Selection Procedure

1. Determine your HP requirement using the following equation:

$$HP = \frac{GPM \times PSI}{1714 \times \text{Mechanical Efficiency}}$$

For preliminary sizing, use 85% for the mechanical efficiency, then adjust based on actual efficiency of pump selected.

2. Determine the duty cycle of your application. Intermittent duty applications may operate up to 8 hours a day. All other services should be considered continuous duty.

3. Find the Pump Series under the first column with a HP rating that meets or exceeds the conditions of your application. Continuous HP is listed first. Intermittent HP is listed second.

4. Scan down the Rated Pressure column in the Pump Series selected until you find a model whose maximum pressure rating exceeds the maximum pressure required by your application.

5. Check the appropriate capacity column (Continuous Duty Capacity or Intermittent Duty Capacity) to determine if the pump you selected meets the flow requirements of your application. If not, go to the next larger pump series and repeat Steps 4 and 5.

6. Determine the speed at which the pump will need to operate to produce the desired flow.

$$RPM = \frac{\text{Desired Flow (GPM)}}{\text{Displacement}}$$

Notes:

- Ratings are based on nominal speeds and pressures and may vary on FMC written approval.
- Capacities and speeds indicated are based on 100% volumetric efficiency.
- Intermittent duty is defined as 0-8 operational hours per day. Any service that falls outside of this range should use continuous duty ratings.
- Dimensions are approximate and based on standard pump models with cast fluid cylinders. Width is measured parallel to the axis of the drive shaft and does not include the shaft extension.

Pump Series Continuous HP/ Intermittent HP	Model	Rated Pressure (psi)	Continuous Duty Capacity	Intermittent Duty Capacity	Displacement (gal./rev)	Seal Diameter (in)	Number of Cylinders	Stroke Length (in)	Mechanical Efficiency	Pump Type	Overall Dimensions				Fluid End Material Options					
											Length (in)	Width (in)	Height (in)	Weight (lbs)	Ductile Iron	Aluminum Bronze	Stainless Steel	HP Carbon Steel	HP Stainless Steel	API Carbon Steel
A04 2.6/3.2 HP	A0410	850	4.2 GPM @ 400 RPM	5.3 GPM @ 500 RPM	0.0106	1.250	2	1.00	90%	Piston	7.0	8.0	20.5	43	◆	◆				
	A0411	700	5.2 GPM @ 400 RPM	6.5 GPM @ 500 RPM	0.0129	1.375	2	1.00	90%	Piston	7.0	8.0	20.5	43	◆	◆				
	A0413	550	7.2 GPM @ 400 RPM	9.0 GPM @ 500 RPM	0.0180	1.625	2	1.00	90%	Piston	7.0	8.0	20.5	43	◆	◆				
I04 2.6/3.2 HP	I0410	850	4.2 GPM @ 400 RPM	5.3 GPM @ 500 RPM	0.0106	1.250	2	1.00	90%	Piston	16.5	8.0	7.0	43	◆	◆				
	I0411	700	5.2 GPM @ 400 RPM	6.5 GPM @ 500 RPM	0.0129	1.375	2	1.00	90%	Piston	16.5	8.0	7.0	43	◆	◆				
	I0413	550	7.2 GPM @ 400 RPM	9.0 GPM @ 500 RPM	0.0180	1.625	2	1.00	90%	Piston	16.5	8.0	7.0	43	◆	◆				
M04 2.8/4.2 HP	M0405	1,750	2.4 GPM @ 600 RPM	3.6 GPM @ 900 RPM	0.0040	0.625	3	1.00	90%	Plunger	16.0	7.5	6.5	43			◆	◆		
	M0406	1,250	3.4 GPM @ 600 RPM	5.1 GPM @ 900 RPM	0.0057	0.750	3	1.00	90%	Plunger	16.0	7.5	6.5	43	◆	◆	◆	◆		
E04 6.1/7.0 HP	E0410	850	9.5 GPM @ 450 RPM	10.9 GPM @ 515 RPM	0.0212	1.250	4	1.00	85%	Piston	10.0	6.0	18.0	80	◆	◆				
	E0411	700	11.6 GPM @ 450 RPM	13.2 GPM @ 515 RPM	0.0257	1.375	4	1.00	85%	Piston	10.0	6.0	18.0	80	◆	◆				
	E0413	550	16.2 GPM @ 450 RPM	18.5 GPM @ 515 RPM	0.0359	1.625	4	1.00	85%	Piston	10.0	6.0	18.0	80	◆	◆				
L09 12/14 HP	L0913	1,200	12.6 GPM @ 750 RPM	15.0 GPM @ 890 RPM	0.0168	1.625	3	2.25	85%	Piston	23.5	12.5	11.5	200	◆					
	L0914	1,000	14.6 GPM @ 750 RPM	17.4 GPM @ 890 RPM	0.0195	1.750	3	2.25	85%	Piston	23.5	12.5	11.5	200	◆					
	L0918	700	24.2 GPM @ 750 RPM	28.7 GPM @ 890 RPM	0.0323	2.250	3	2.25	85%	Piston	23.5	12.5	11.5	200	◆					
L06 12/18 HP	L0614	1,000	16.4 GPM @ 350 RPM	23.5 GPM @ 500 RPM	0.0469	1.750	3	1.50	90%	Piston	24.0	12.5	12.5	175	◆	◆				
	L0618	700	27.1 GPM @ 350 RPM	38.8 GPM @ 500 RPM	0.0775	2.250	3	1.50	90%	Piston	24.0	12.5	12.5	175	◆	◆				
L06-HV 15/21 HP	L0614-HV	1,200	18.8 GPM @ 400 RPM	25.8 GPM @ 550 RPM	0.0469	1.750	3	1.50	90%	Piston	27.5	12.5	12.5	225	◆	◆	◆			
	L0618-HV	750	31.0 GPM @ 400 RPM	42.6 GPM @ 550 RPM	0.0775	2.250	3	1.50	90%	Piston	27.5	12.5	12.5	225	◆	◆	◆			
M06 17/21 HP	M0604	10,000	1.8 GPM @ 475 RPM	2.3 GPM @ 600 RPM	0.0038	0.500	3	1.50	90%	Plunger	27.5	12.5	12.5	245			◆	◆	◆	◆
	M0605	8,800	2.8 GPM @ 475 RPM	3.6 GPM @ 600 RPM	0.0060	0.625	3	1.50	90%	Plunger	27.5	12.5	12.5	245			◆	◆	◆	◆
	M0606	6,100	4.1 GPM @ 475 RPM	5.2 GPM @ 600 RPM	0.0086	0.750	3	1.50	90%	Plunger	27.5	12.5	12.5	245			◆	◆	◆	◆
	M0608	3,400	7.3 GPM @ 475 RPM	9.2 GPM @ 600 RPM	0.0153	1.000	3	1.50	90%	Plunger	27.5	12.5	12.5	245	◆	◆	◆	◆	◆	◆
	M0610	2,200	11.4 GPM @ 475 RPM	14.3 GPM @ 600 RPM	0.0239	1.250	3	1.50	90%	Plunger	27.5	12.5	12.5	245	◆	◆	◆	◆	◆	◆
	M0612	1,500	16.3 GPM @ 475 RPM	20.6 GPM @ 600 RPM	0.0344	1.500	3	1.50	90%	Plunger	27.5	12.5	12.5	245	◆	◆	◆	◆	◆	◆
L09-HV 23/27 HP	L0913-HV	1,500	22.7 GPM @ 375 RPM	27.3 GPM @ 450 RPM	0.0606	1.625	3	2.25	90%	Piston	30.0	14.0	12.5	325	◆	◆	◆			
	L0914-HV	1,300	26.4 GPM @ 375 RPM	31.6 GPM @ 450 RPM	0.0703	1.750	3	2.25	90%	Piston	30.0	14.0	12.5	325	◆	◆	◆			
	L0918-HV	800	43.6 GPM @ 375 RPM	52.3 GPM @ 450 RPM	0.1162	2.250	3	2.25	90%	Piston	30.0	14.0	12.5	325	◆	◆	◆			
M09 26/33 HP	M0905	10,000	3.8 GPM @ 425 RPM	5.0 GPM @ 550 RPM	0.0090	0.625	3	2.25	90%	Plunger	30.0	14.0	12.5	350			◆	◆	◆	◆
	M0906	6,900	5.5 GPM @ 425 RPM	7.1 GPM @ 550 RPM	0.0129	0.750	3	2.25	90%	Plunger	30.0	14.0	12.5	350			◆	◆	◆	◆
	M0908	3,900	9.7 GPM @ 425 RPM	12.6 GPM @ 550 RPM	0.0229	1.000	3	2.25	90%	Plunger	30.0	14.0	12.5	350	◆	◆	◆	◆	◆	◆
	M0910	2,500	15.3 GPM @ 425 RPM	19.7 GPM @ 550 RPM	0.0359	1.250	3	2.25	90%	Plunger	30.0	14.0	12.5	350	◆	◆	◆	◆	◆	◆
	M0912	1,750	21.9 GPM @ 425 RPM	28.4 GPM @ 550 RPM	0.0516	1.500	3	2.25	90%	Plunger	30.0	14.0	12.5	350	◆	◆	◆	◆	◆	◆
	M0915	1,150	34.3 GPM @ 425 RPM	44.4 GPM @ 550 RPM	0.0807	1.875	3	2.25	90%	Plunger	30.0	14.0	12.5	350	◆	◆	◆	◆	◆	◆
M08 34/45 HP	M0806	10,000	5.2 GPM @ 450 RPM	6.9 GPM @ 600 RPM	0.0115	0.750	3	2.00	90%	Plunger	33.0	17.0	17.0	550			◆	◆	◆	◆
	M0807	7,400	7.0 GPM @ 450 RPM	9.4 GPM @ 600 RPM	0.0156	0.875	3	2.00	90%	Plunger	33.0	17.0	17.0	550			◆	◆	◆	◆
	M0808	5,650	9.2 GPM @ 450 RPM	12.2 GPM @ 600 RPM	0.0204	1.000	3	2.00	90%	Plunger	33.0	17.0	17.0	550			◆	◆	◆	◆
	M0810	3,620	14.4 GPM @ 450 RPM	19.1 GPM @ 600 RPM	0.0319	1.250	3	2.00	90%	Plunger	33.0	17.0	17.0	550	◆	◆	◆	◆	◆	◆
	M0812	2,520	20.7 GPM @ 450 RPM	27.5 GPM @ 600 RPM	0.0459	1.500	3	2.00	90%	Plunger	33.0	17.0	17.0	550	◆	◆	◆	◆	◆	◆
	M0814	1,850	28.1 GPM @ 450 RPM	37.5 GPM @ 600 RPM	0.0625	1.750	3	2.00	90%	Plunger	33.0	17.0	17.0	550	◆	◆	◆	◆	◆	◆
	M0816	1,420	36.7 GPM @ 450 RPM	49.0 GPM @ 600 RPM	0.0816	2.000	3	2.00	90%	Plunger	33.0	17.0	17.0	550	◆	◆	◆	◆	◆	◆
	M0818	1,120	46.5 GPM @ 450 RPM	62.0 GPM @ 600 RPM	0.1033	2.250	3	2.00	90%	Plunger	33.0	17.0	17.0	550	◆	◆	◆	◆	◆	◆
L11 37/52 HP	L1114	2,500	21.5 GPM @ 900 RPM	30.5 GPM @ 1275 RPM	0.0239	1.750	3	2.75	85%	Piston	32.5	17.0	14.5	460			◆	◆		
	L1118	1,500	35.5 GPM @ 900 RPM	50.2 GPM @ 1275 RPM	0.0394	2.250	3	2.75	85%	Piston	32.5	17.0	14.5	460	◆	◆	◆	◆		
	L1122	1,000	53.0 GPM @ 900 RPM	75.1 GPM @ 1275 RPM	0.0589	2.750	3	2.75	85%	Piston	32.5	17.0	14.5	460	◆	◆	◆	◆		