

Electric Motor HP Required To Drive A Pump

GPM	Pressure (PSI)													
	100	200	250	300	400	500	750	1000	1250	1500	2000	2500	3000	4000
0.5	.04	.07	.09	.11	.14	.18	.26	.35	.44	.53	.70	.88	1.10	1.40
1.0	.07	.14	.18	.21	.28	.35	.52	.70	.88	1.05	1.40	1.76	1.92	2.80
1.5	.10	.21	.26	.31	.41	.52	.77	1.03	1.29	1.55	2.06	2.58	3.09	4.12
2.0	.14	.28	.35	.42	.56	.70	1.04	1.40	1.76	2.10	2.80	3.53	4.20	5.60
2.5	.17	.34	.43	.51	.69	.86	1.29	1.72	2.15	2.58	3.44	4.30	5.14	6.88
3.0	.21	.42	.53	.63	.84	1.05	1.56	2.10	2.64	3.15	4.20	5.28	6.30	8.40
3.5	.24	.48	.60	.72	.96	1.20	1.80	2.40	3.00	3.60	4.80	6.00	7.20	9.60
4.0	.28	.56	.70	.84	1.12	1.40	2.08	2.80	3.52	4.20	5.60	7.04	8.40	11.20
5.0	.35	.70	.88	1.05	1.40	1.75	2.60	3.50	4.40	5.25	7.00	8.80	10.50	14.00
6.0	.42	.84	1.05	1.26	1.68	2.10	3.12	4.20	5.28	6.30	8.40	10.56	12.60	16.50
7.0	.49	.98	1.23	1.47	1.96	2.45	3.64	4.90	6.16	7.35	9.80	12.32	14.70	19.60
8.0	.56	1.12	1.40	1.68	2.24	2.80	4.16	5.60	7.04	8.40	11.20	14.08	16.80	22.40
9.0	.62	1.24	1.55	1.86	2.48	3.10	4.65	6.18	7.73	9.28	12.40	15.56	18.58	24.80
10.0	.70	1.40	1.75	2.10	2.80	3.50	5.20	7.00	8.80	10.50	14.00	17.60	21.00	28.00
11.0	.77	1.54	1.93	2.31	3.08	3.85	5.72	7.70	9.68	11.50	15.40	19.36	23.10	30.50
12.0	.84	1.68	2.10	2.52	3.36	4.20	6.24	8.40	10.50	12.60	16.80	21.00	25.20	33.60
13.0	.89	1.78	2.23	2.67	3.56	4.45	6.68	8.92	11.20	13.40	17.80	22.40	26.72	35.60
14.0	.96	1.92	2.40	2.88	3.84	4.80	7.20	9.60	12.00	14.40	19.20	24.00	28.80	38.40
15.0	1.05	2.10	2.63	3.15	4.20	5.25	7.80	10.50	13.20	15.70	21.00	26.40	31.50	42.00
16.0	1.10	2.20	2.75	3.30	4.40	5.50	8.25	11.00	13.80	16.50	22.00	27.60	33.00	44.00
17.0	1.17	2.34	2.93	3.51	4.68	5.85	8.78	11.70	14.60	17.60	23.40	29.20	35.10	46.80
18.0	1.26	2.52	3.15	3.78	5.04	6.30	9.35	12.60	15.80	18.90	25.20	31.60	37.80	50.40
19.0	1.30	2.60	3.25	3.90	5.20	6.50	9.75	13.00	16.30	19.50	26.00	32.60	39.00	52.00
20.0	1.40	2.80	3.50	4.20	5.60	7.00	10.40	14.00	17.60	21.00	28.00	35.20	42.00	56.00
25.0	1.75	3.50	4.38	5.25	7.00	8.75	13.10	17.50	21.90	26.20	35.00	43.80	52.50	70.00
30.0	2.10	4.20	5.25	6.30	8.40	10.50	15.60	21.00	26.40	31.50	42.00	52.80	63.00	84.00
35.0	2.45	4.90	6.13	7.35	9.80	12.20	18.40	24.50	30.60	36.70	49.00	61.20	73.50	98.00
40.0	2.80	5.60	7.00	8.40	11.20	14.00	20.80	28.00	35.20	42.00	56.00	70.40	84.00	112.00
45.0	3.15	6.30	7.87	9.45	12.60	15.80	23.60	31.50	39.40	47.30	63.00	78.80	94.50	126.00
50.0	3.50	7.00	8.75	10.50	14.00	17.50	26.00	35.00	44.00	52.50	70.00	88.00	105.00	140.00

* For gasoline horsepower add 50% to electric horsepower figure.

Pulley Selection Guide (1725 RPM Motor)

Recommended Motor Pulley Guide

To Transmit: Horse Power	"A" Section Belt		"B" Section Belt		"C" Section Belt
	1 Belt Single Groove Pulley	2 Belts Double Groove Pulley	1 Belt Single Groove Pulley	2 Belts Double Groove Pulley	1 Belt Single Groove Pulley
1	2-1/2" dia.	-	-	-	-
1-1/2	3" dia.	-	-	-	-
2	3-1/4" dia.	-	-	-	-
3	3-3/4" dia.	3" dia.	4-1/4" dia.	3-1/2" dia.	-
5	5-1/4" dia.	3-1/2" dia.	5" dia.	5" dia.	-
7-1/2	-	4-1/2" dia.	6" dia.	5" dia.	-
10	-	5-1/4" dia.	8" dia.	5" dia.	8" dia.
15	-	7" dia.	10" dia.	6" dia.	9" dia.
20	-	9" dia.	-	7" dia.	10" dia.