

Civil Engineering - Fluid Mechanics I
Piston Pump Design Project
Fall 2001

Additional design constraints:

The cylinder bore (diameter) will be 1.5 inches.

You can select a motor from the following:

RPM	Torque, in-lb		Gear Ratio	Full-load amps
	Start	Running		
1	50	50	3300:1	0.4
3	50	50	1100:1	0.4
5	50	50	660:1	0.4
10	40	50	330:1	0.4
20	40	50	167:1	1.0
35	20	30	95:1	1.0
50	15	20	66:1	1.0
75	15	20	44:1	1.0
100	7	11	33:1	1.6
125	6	6	27:1	1.6
150	5	4	22:1	1.6
200	4	3	17:1	1.6