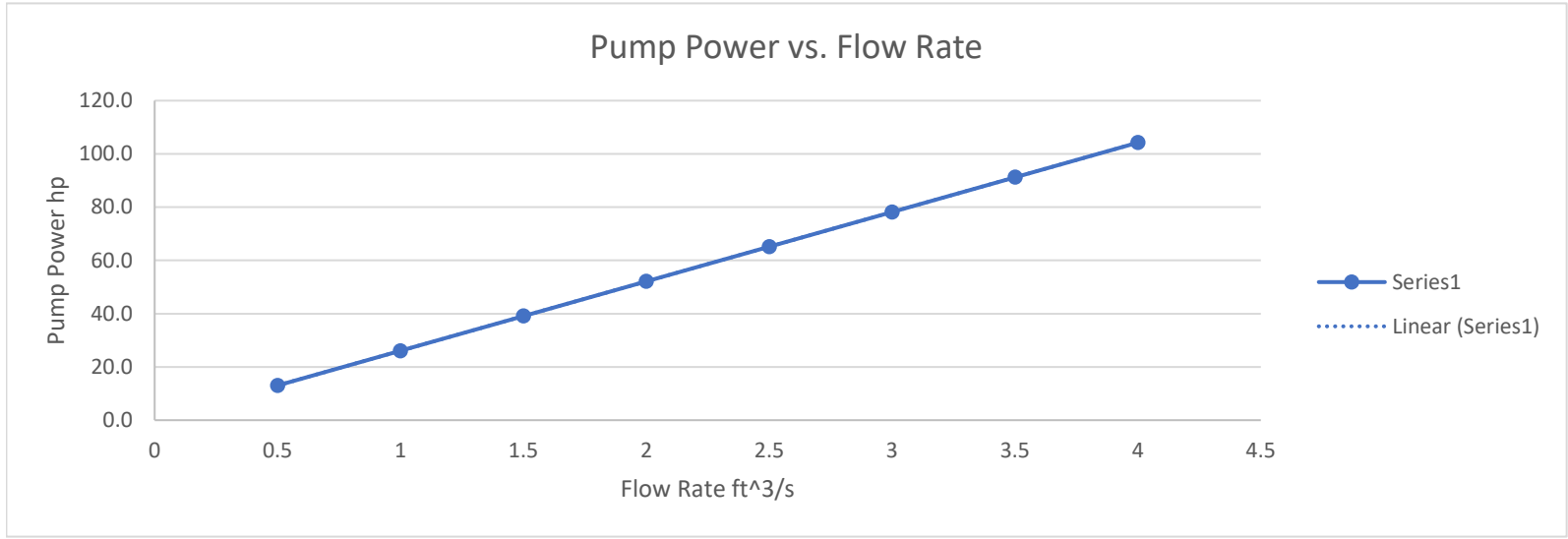


v		g	z1	z2	z3	z4	suction	discharge	90 Ell K	Valve K	8" friction	v^2/2g	Diameter 8"	Pump Eff.	gamma water	gamma Mercury	8" Flow Area
		32.2	0	10	10	50	11	2500	0.42	5.3	0.014	1.477696	0.6651	0.6	62.4	844.896	0.3472

Velocity		9.7552	1.4401	2.8802	4.3203	5.7604	7.2005	8.6406	10.0806	11.5207
Flow Rates ft^3/s		3.387	0.5	1	1.5	2	2.5	3	3.5	4
hl Ell	0.62									
hl Valve	7.83									
hl Pipe Suction	0.34									
hl Discharge	77.76									

Pump hp	88.3	13.0	26.1	39.1	52.1	65.1	78.2	91.2	104.2
Delta P	488.7	10.7	42.6	95.9	170.4	266.3	383.4	521.9	681.6
Manometer Reading	-8.6	-1.6	-2.1	-2.8	-3.0	-5.3	-6.9	-8.9	-11.2



Pump Power at half the flow rate would be about 1.5 ft^3/s

Manometer would read about -2.8in. At half Pump Power calculated

