Head pressure	55.8 ft fluid	16.4 m fluid
Fluid pressure	18.3 ft fluid	4.3 m fluid
Friction loss	2.8 ft fluid	0.9 m fluid
Net Suction Pressure	62.3 ft fluid	19.3
Discharge		
Head pressure	55.8 ft fluid	16.4 m fluid
Fluid pressure	27.3 ft fluid	7.5 m fluid
Friction loss	4.5 ft fluid	1.4 m fluid
Net Discharge Pressure	88.2 ft fluid	27.7 m fluid
Differential Pressure (TDH)	25.82 ft fluid	8.00 m fluid

To construct a system curve, calculate the TDH at a number of flow rates then plot on a Scatter Chart
This can be done by replicating the column of inputs and calculations in Columns D (or Columns H) several times, each
Or, a simple macro can perform the task, shown below

This is the same calculation, but with the equivalent length of the pump reduced to 25% to take out the contingency

Flow Rate kg/h	TDH m fluid
1 000	1
2 000	3
3 000	4
4 000	5
5 000	7
6 000	9
7 000	12
8 000	15
9 000	18
10 000	22
11 000	26
12 000	30
13 000	35
14 000	40
15 000	45

Flow Rate l/h	TDH m fluid	TDH reduced L/eq	Flow Rate gpm
1 000	1	1	4
2 000	3	3	9
3 000	4	4	13
4 000	5	5	18
5 000	7	7	22
6 000	9	9	26
7 000	12	11	31
8 000	15	14	35
9 000	18	17	40
10 000	22	20	44
11 000	26	24	48
12 000	30	28	53
13 000	35	32	57
14 000	40	37	62
15 000	45	42	66

Goulds Pumps Model 3196, Size 3x4 H in 1770 rpm

Impeller	6	7	8	9	9.57	10
gpm	TDH					
0	37	51.5	70.5	91	106.1875	114.2
50	36	51	70	90.5	105.75	114.0
100	34	49.5	69	89.5	104.725	113.0
150	30.5	48.5	68	87.7	102.3625	111
200	26	47	67	85.5	99.9375	108.5
250	20	43	65	83.5	98.0375	106.5
300	13	38	62	79	94	103
350	10.5	31	58	73.5	87.8125	97
400		24	53	68.5	84.8125	94
450			46	62	77.6875	88.2
475				58	71.825	82.4
500				54	73.05	80.4
525					68	74.8
550						74.4

Efficiency

70%		60%		65%		60%	
gpm	TDH	gpm	TDH	gpm	TDH	gpm	TDH
		234	118	215	175	196	
		238	116	218	168	191	
		240	115	220	165	175	
276	110	241	113	220	161	168	
270	108	239	111	219	157	163	
259	106	236	109	216	153	156	
250	104	233	107	213	149	150	
240	101	230	104	210	145	142	
230	98	226	101	206	141	135	
220	95	222	98	202	137	128	
210	92	218	95	198	133	120	
200	89	214	91	194	129	113	
190	86	210	88	190	125	105	
180	83	205	84	186	121	98	
170	80	201	81	182	117	90	
160	77	196	77	178	113	83	
150	74	192	74	174	109	75	
140	71	187	70	170	105	68	
130	68	183	67	166	101	60	
120	65	178	63	162	97	53	
110	62	174	60	158	93	45	
100	59	169	56	154	89	38	
90	56	165	53	150	85	30	
80	53	161	49	146	81	23	
70	50	156	46	142	77	15	
60	47	152	42	138	73	8	
50	44	147	39	134	69		
40	41	143	35	130	65		
30	38	139	32	126	61		
20	35	134	28	122	57		
10	32	130	25	118	53		
0	29	125	21	114	49		

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web nov 14 2011 got home having had about 20 temporary power losses and plugged in my diagnostic tool and find map is only reading about 70kpa with engine off atmospheric pressure is 101kpa and only about 90kpa revving it so it looks like my map is u s could this be the cause of p2002 code currently looking for replacement map or anyone

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web apr 2 2009 i had the dealer look at the car who then did a diagnostic check and the fault code p2002 was brought up the dealers states eml p2002 particulate trap effeciency below threshold does anyone know what this means exactly the dealership has reset the ecu i presume and no more lights show and the car drives perfect any ideas anyone

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