



# HPS Basic Design

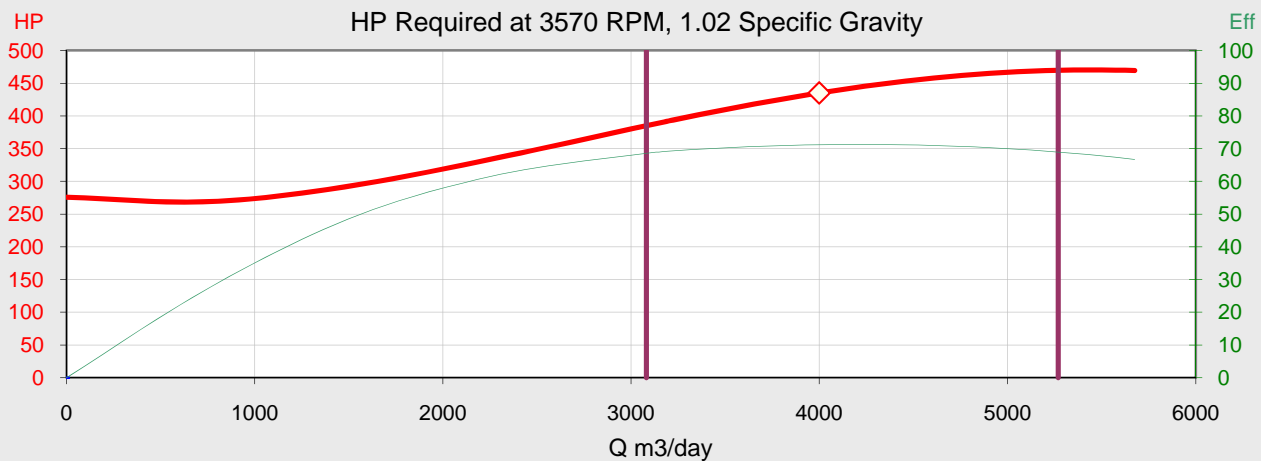
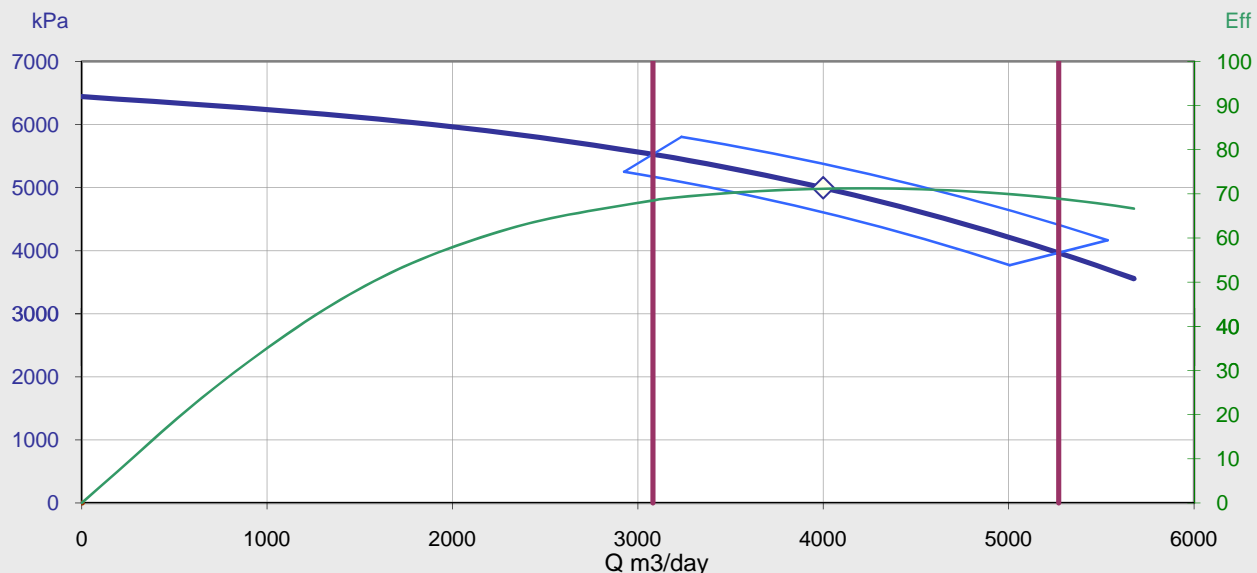
Customer	CNRL c/o Upside
Field	01-36-80-22 W4M
Application	Injection pump
Quotation Number	CH-110513-MH

Delta Head Required in kPa	4827	
Desired Flow in m3/day	4000	
Speed in RPM	3570	60 Hz
Liquid Average Specific Gravity	1.02	

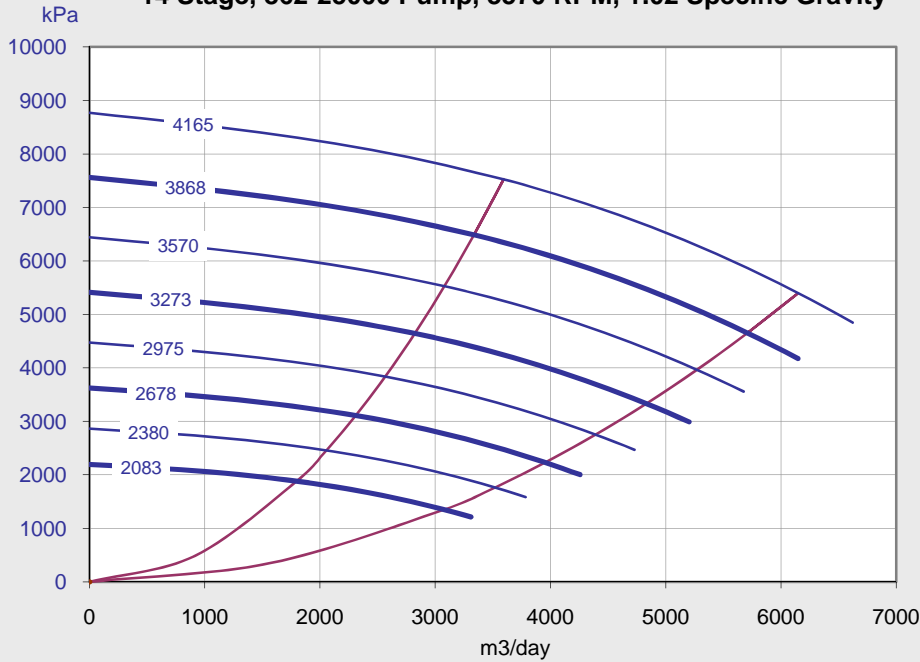
Pump	Weatherford, 862-25000
Construction	Compression
Head Units	kPa
Flow Units	m3/day

Number of Stages Selected	14	
Number of Stages Required	14	
Operating HP	435	at 3570 RPM
Operating Thrust	3956	Lbs

## 14 Stage, 862-25000 Pump, 3570 RPM, 1.02 Specific Gravity

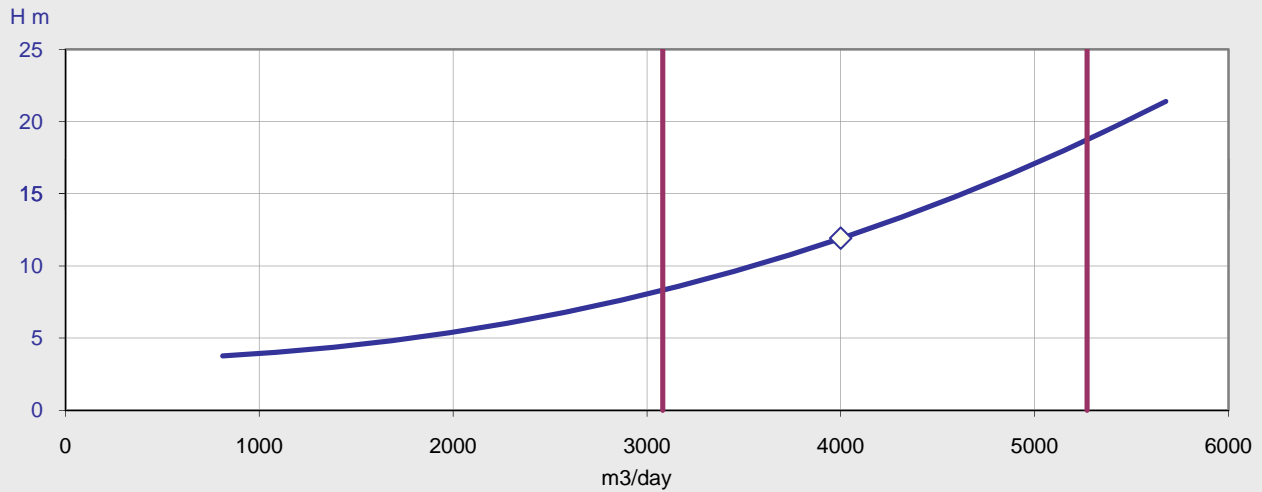


**14 Stage, 862-25000 Pump, 3570 RPM, 1.02 Specific Gravity**



Power		
Speed in RPM	Max BHP Within ROR	Motor HP Rating @ 60Hz
2083	93	160
2380	139	209
2678	198	264
2975	272	326
3273	362	395
3570	470	470
3868	597	551
4165	746	639

**NPSHR at 3570 RPM**



Speed in RPM	Hz	Operating HP	Max HP within ROR	Monel Shaft HP Rating	Inconel Shaft HP Rating	Shut-in Pressure in PSI	Shut-in Thrust Load in Pounds	T/C Bearing Required
2083	35.0	86	93	616	618	318	1668	2 Brg
2380	40.0	129	139	704	707	415	2179	2 Brg
2678	45.0	183	198	792	795	526	2758	2 Brg
2975	50.0	252	272	880	883	649	3405	2 Brg
3273	55.0	335	362	968	972	785	4120	2 Brg
3570	60.0	435	470	1056	1060	934	4903	2 Brg
3868	65.0	553	597	1144	1149	1097	5754	3 Brg
4165	70.0	691	746	1232	1237	1272	6673	3 Brg