

**BORETS**

HPS Design

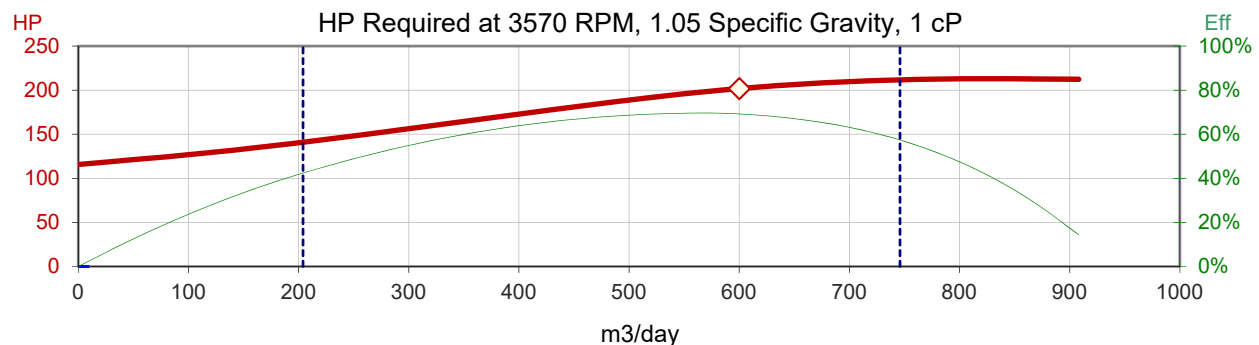
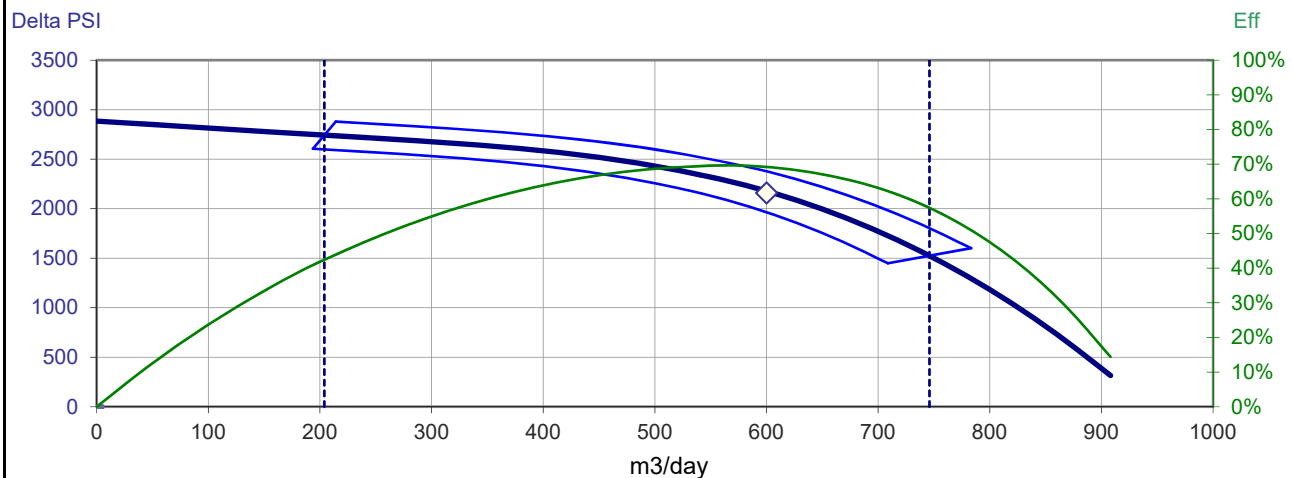
Client	Tundra Oil & Gas
Contact	Andrew Brigden
Field	9-32
Application	Injection Pump
Quotation Number	
Application Engineer	Jerry Evans

Intake PSI	50	60 Hz Fresh Water = 1.00
Discharge PSI	2210	
Desired Flow in m3/day	600	
Speed in RPM	3570	
Liquid Average Specific Gravity	1.05	
Average Viscosity in cP	1	
Pump Delta Head	2177	PSI

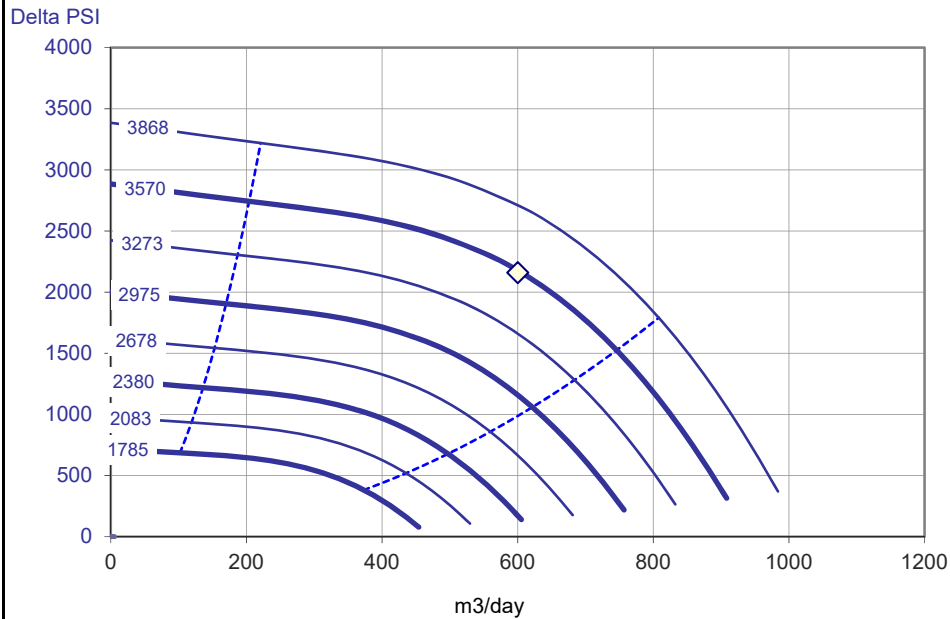
Pump	538-3600
Construction	Compression
Head Units	PSI
Flow Units	m3/day

Number of Stages Selected	96	at 3570 RPM Lbs
Number of Stages Required	96	
Operating HP	202	
Operating Thrust	5187	

96 Stage, 538-3600 Pump, 3570 RPM, 1.05 Specific Gravity, 1 cP

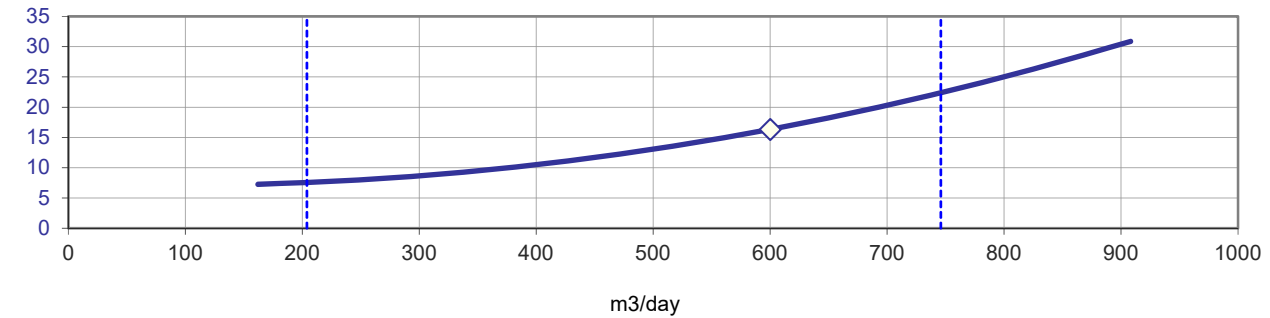


96 Stage, 538-3600 Pump, 3570 RPM, 1.05 Specific Gravity, 1 cP



Power		
Speed in RPM	Max BHP Within ROR	Motor HP Rating @ 60Hz
1785	26	53
2083	42	72
2380	63	94
2678	89	119
2975	123	147
3273	163	178
3570	212	212
3868	269	249

16.3 Ft NPSH Required at 3570 RPM - 600 m3/day



Speed in RPM	Hz	Operating HP	Max HP within ROR	Monel Shaft HP Rating	SS Shaft HP Rating	Inconel Shaft HP Rating	Shut-in Pressure in PSI	Shut-in Thrust Load in Pounds	T/C Bearing Required
1785	30.0	25	26	130	137	247	721	1652	2 Brg
2083	35.0	40	42	152	160	289	982	2249	2 Brg
2380	40.0	60	63	173	183	330	1282	2936	2 Brg
2678	45.0	85	89	195	206	371	1623	3718	2 Brg
2975	50.0	117	123	217	229	412	2003	4588	2 Brg
3273	55.0	155	163	238	252	454	2425	5553	2 Brg
3570	60.0	202	212	260	274	495	2885	6607	3 Brg
3868	65.0	257	269	282	297	536	3386	7756	3 Brg