

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"5824
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 240404B
 Specific Speeds:
 Dimensions:
 Speed: 1780 rpm
 Dia: 17.5 in
 Impeller: D4D1B
 Ns: 1072
 Nss: 8014
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.38 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm
 Head: --- ft

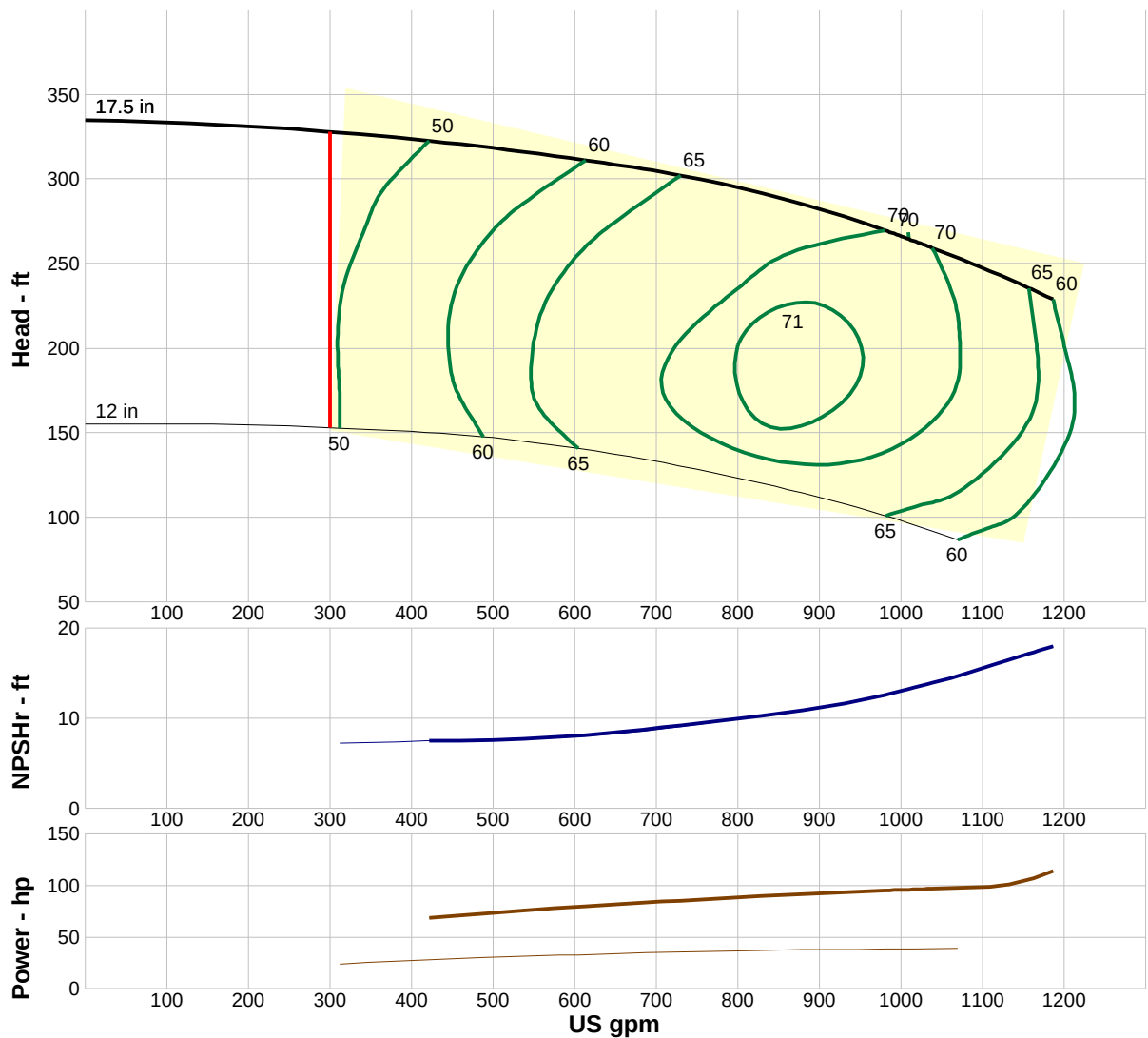
Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 125 hp
 Speed: 1800
 Frame: 444T

---- Data Point ----	
Flow:	1009 US gpm
Head:	265 ft
Eff:	70%
Power:	96.1 hp
NPSHr:	13.3 ft
---- Design Curve ----	
Shutoff head:	335 ft
Shutoff dP:	145 psi
Min flow:	300 US gpm
BEP:	70% @ 1009 US gpm
NOL power:	114 hp @ 1186 US gpm
-- Max Curve --	
Max power:	114 hp @ 1186 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1139	1780	239	66	105	16.7
949	1780	274	69	94.1	12.2
759	1780	298	66	86.8	9.63
569	1780	314	58	77.6	8.02
380	1780	324	48	66.1	7.4