

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 14"5821
Type: 5800-HSC
Synch speed: 900 rpm
Curve: 211408A
Specific Speeds:
Dimensions:
Speed: 885 rpm
Dia: 14.5 in
Impeller: D14C1A
Ns: 4010
Nss: 9706
Suction: 16 in
Discharge: 14 in

Pump Limits:

Temperature: 160 °F
Pressure: 125 psi g
Sphere size: 1.25 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

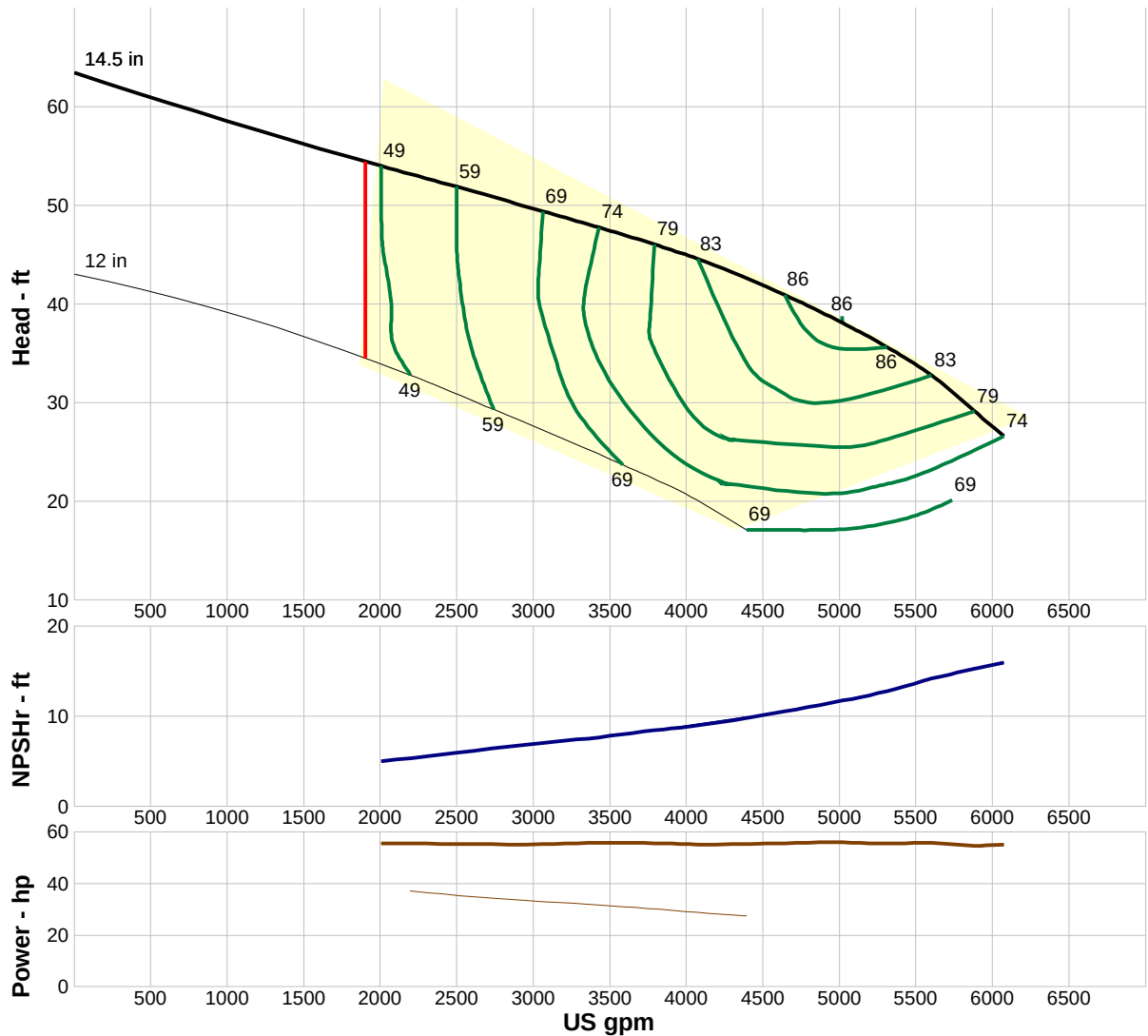
Fluid:

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: 60 hp
Speed: 900
Frame: 405T

---- Data Point ----	
Flow:	5017 US gpm
Head:	38.1 ft
Eff:	86%
Power:	56 hp
NPSHr:	11.8 ft
---- Design Curve ----	
Shutoff head:	63.4 ft
Shutoff dP:	27.4 psi
Min flow:	1900 US gpm
BEP:	86% @ 5017 US gpm
NOL power:	56 hp @ 5017 US gpm
-- Max Curve --	
Max power:	56 hp @ 5017 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
5830	885	29.8	80	54.9	15.1
4858	885	39.3	86	55.9	11.3
3886	885	45.5	80	55.5	8.65
2915	885	50	66	55.3	6.78
1943	885	54.3	48	55.7	4.88