

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 14"5821
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 211406A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 14.5 in
Impeller: D14C1A
Ns: 3978
Nss: 9814
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

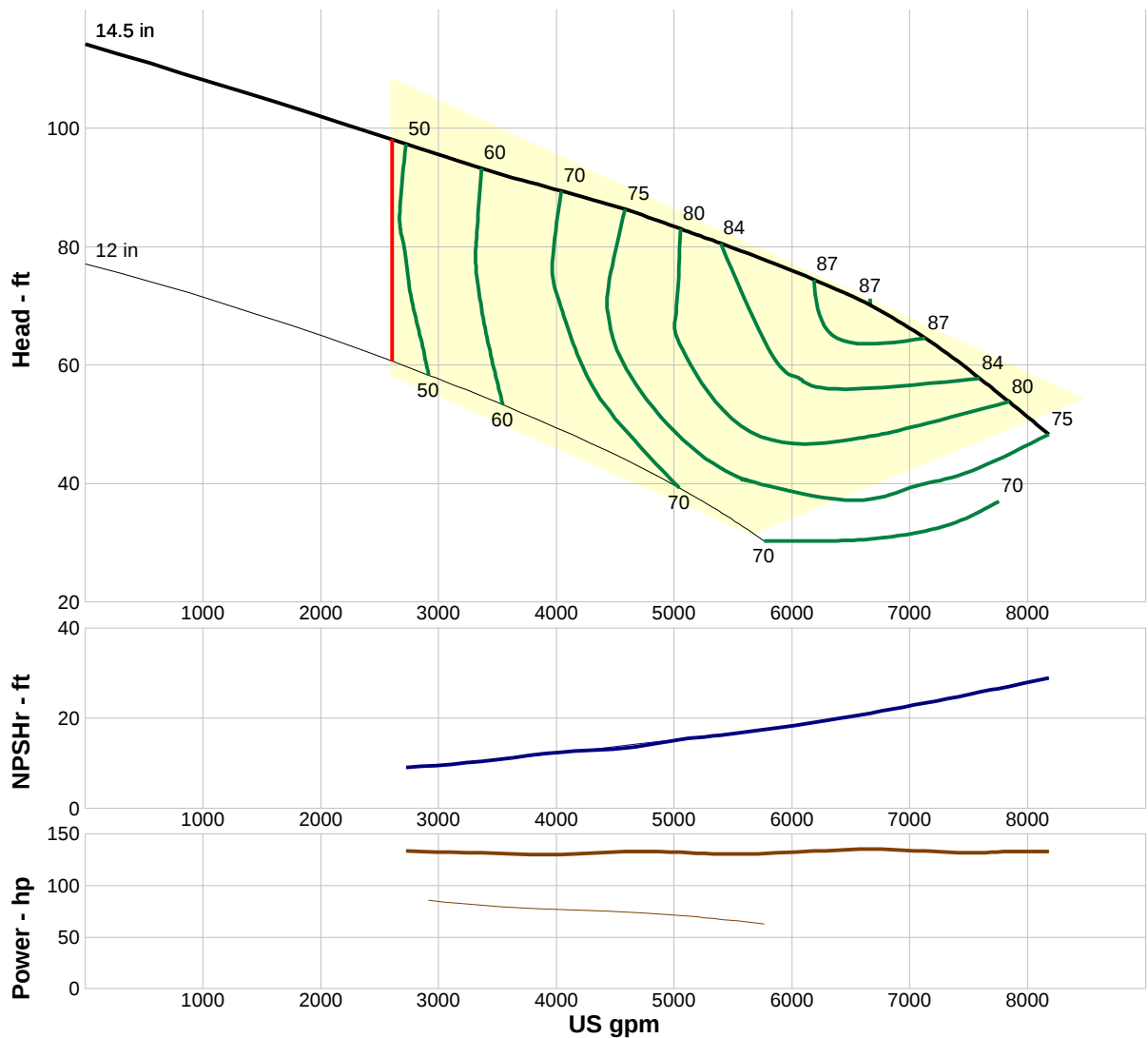
Fluid:

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: 150 hp
Speed: 1200
Frame: 447T

---- Data Point ----	
Flow:	6664 US gpm
Head:	70.1 ft
Eff:	87%
Power:	135 hp
NPSHr:	21.2 ft
---- Design Curve ----	
Shutoff head:	114 ft
Shutoff dP:	49.4 psi
Min flow:	2600 US gpm
BEP:	87% @ 6664 US gpm
NOL power:	135 hp @ 6664 US gpm
-- Max Curve --	
Max power:	135 hp @ 6664 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7848	1185	53.6	80	133	27.2
6540	1185	71.2	87	135	20.7
5232	1185	81.7	82	131	15.9
3924	1185	90	68	130	12.2
2616	1185	98	48	134	8.89