

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5822
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 220804R
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 12.5 in
Impeller: D8B1R
Ns: 2247
Nss: 14735
Suction: 10 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.94 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

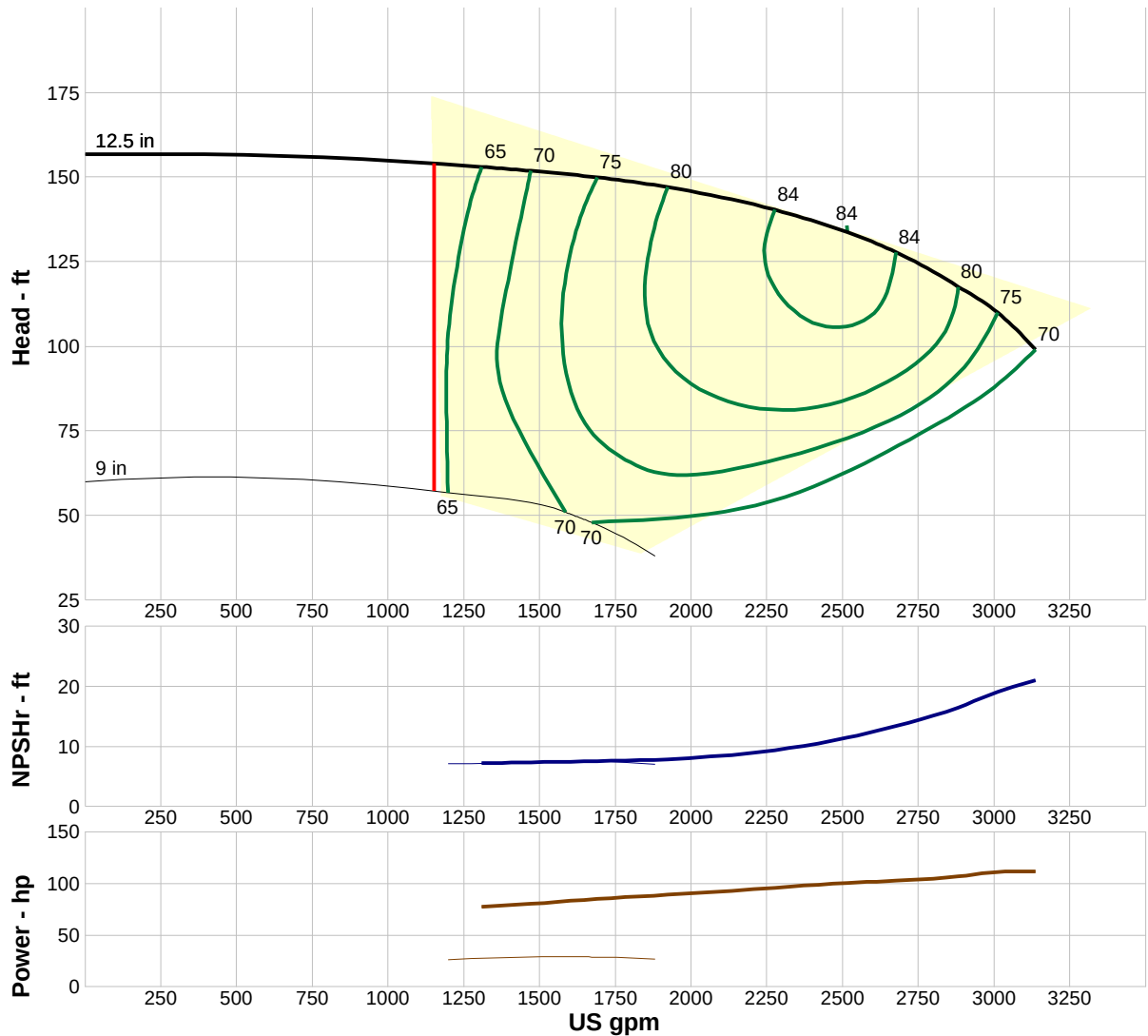
Fluid:

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:	2514 US gpm
Head:	134 ft
Eff:	84%
Power:	101 hp
NPSHr:	11.5 ft
---- Design Curve ----	
Shutoff head:	157 ft
Shutoff dP:	67.7 psi
Min flow:	1150 US gpm
BEP:	84% @ 2514 US gpm
NOL power:	112 hp @ 3135 US gpm
-- Max Curve --	
Max power:	112 hp @ 3135 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3010	1780	110	75	111	19.1
2508	1780	134	84	101	11.4
2006	1780	145	81	90.8	8.25
1505	1780	151	71	81.2	7.4
1003	1780	---	---	---	---