

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5825
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 251006A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 30.5 in
Impeller: D10E1A
Ns: 1141
Nss: 14932
Suction: 14 in
Discharge: 10 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 1.44 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

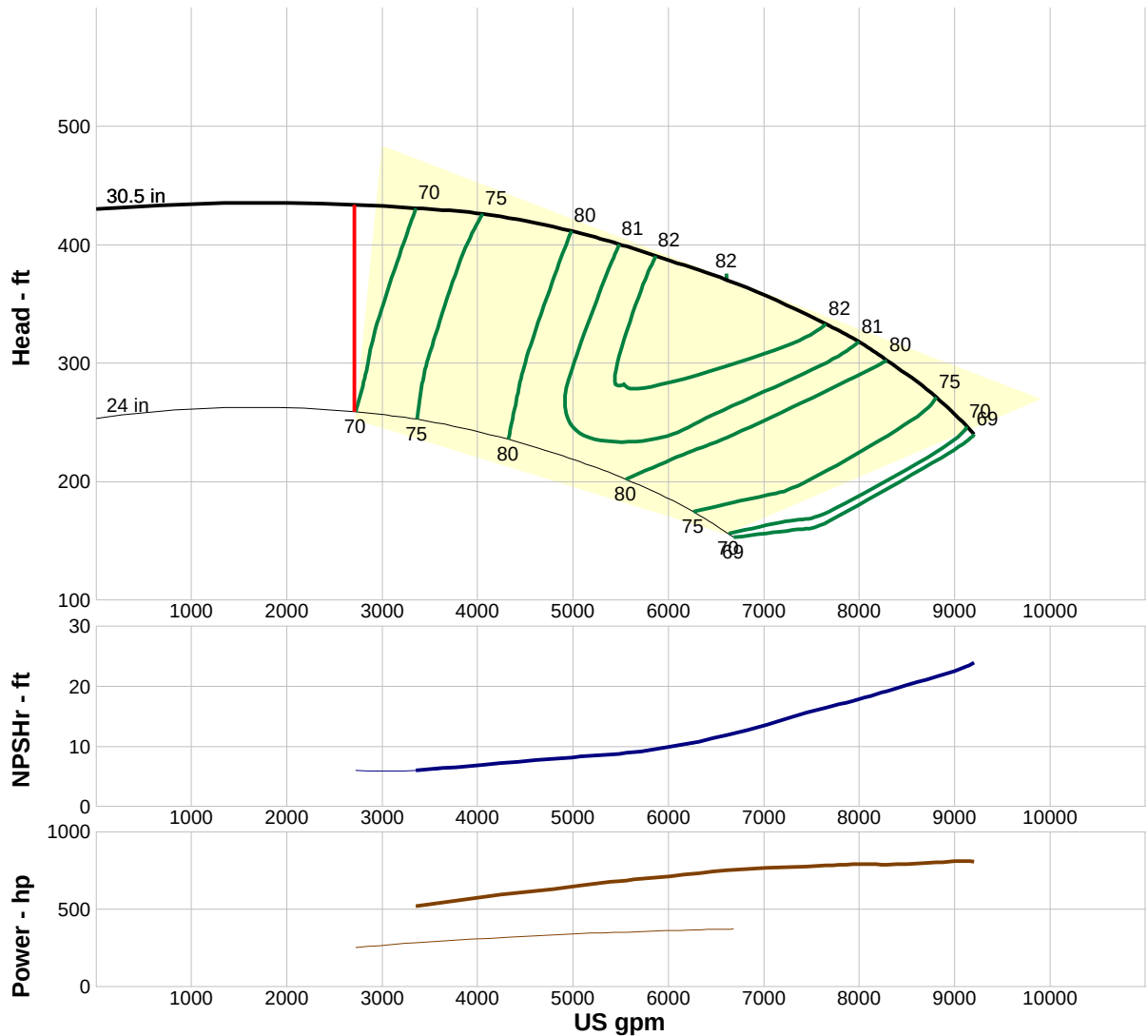
Fluid:

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
--- hp
Speed: ---
Frame: ---

---- Data Point ----	
Flow:	6610 US gpm
Head:	370 ft
Eff:	82%
Power:	753 hp
NPSHr:	11.9 ft
---- Design Curve ----	
Shutoff head:	430 ft
Shutoff dP:	186 psi
Min flow:	2700 US gpm
BEP:	82% @ 6610 US gpm
NOL power:	813 hp @ 9123 US gpm
-- Max Curve --	
Max power:	813 hp @ 9123 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
8832	1185	269	75	805	21.8
7360	1185	343	82	776	15.2
5888	1185	390	82	707	9.63
4416	1185	420	77	607	7.45
2944	1185	431	67	486	5.45