

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"2824A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 240806A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 17.75 in
Impeller: J8L1A1
Ns: 1671
Nss: 16662
Suction: 12 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 1.12 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

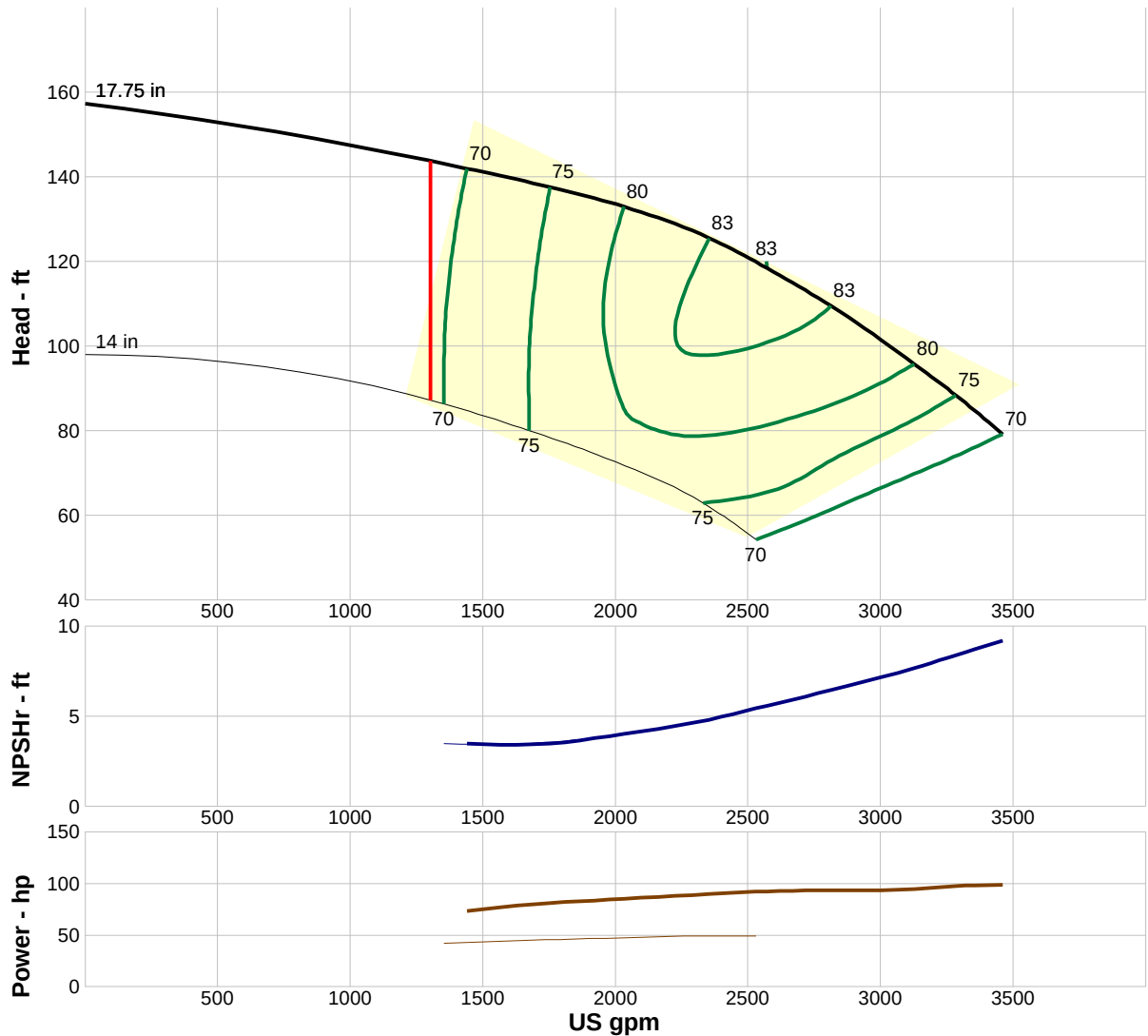
Fluid:

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: 100 hp
Speed: 1200
Frame: 444T

---- Data Point ----	
Flow:	2570 US gpm
Head:	118 ft
Eff:	83%
Power:	92.5 hp
NPSHr:	5.6 ft
---- Design Curve ----	
Shutoff head:	157 ft
Shutoff dP:	68 psi
Min flow:	1300 US gpm
BEP:	83% @ 2570 US gpm
NOL power:	98.9 hp @ 3459 US gpm
-- Max Curve --	
Max power:	98.9 hp @ 3459 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3320	1185	86.5	74	98	8.57
2767	1185	111	83	93.5	6.3
2214	1185	129	82	87.9	4.49
1660	1185	139	74	79	3.5
1107	1185	---	---	---	---