

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2876A
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 760402A
Specific Speeds:
Dimensions:
Speed: 3565 rpm
Dia: 11.1 in
Impeller: J4E1A1
Ns: 1365
Nss: 11585
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

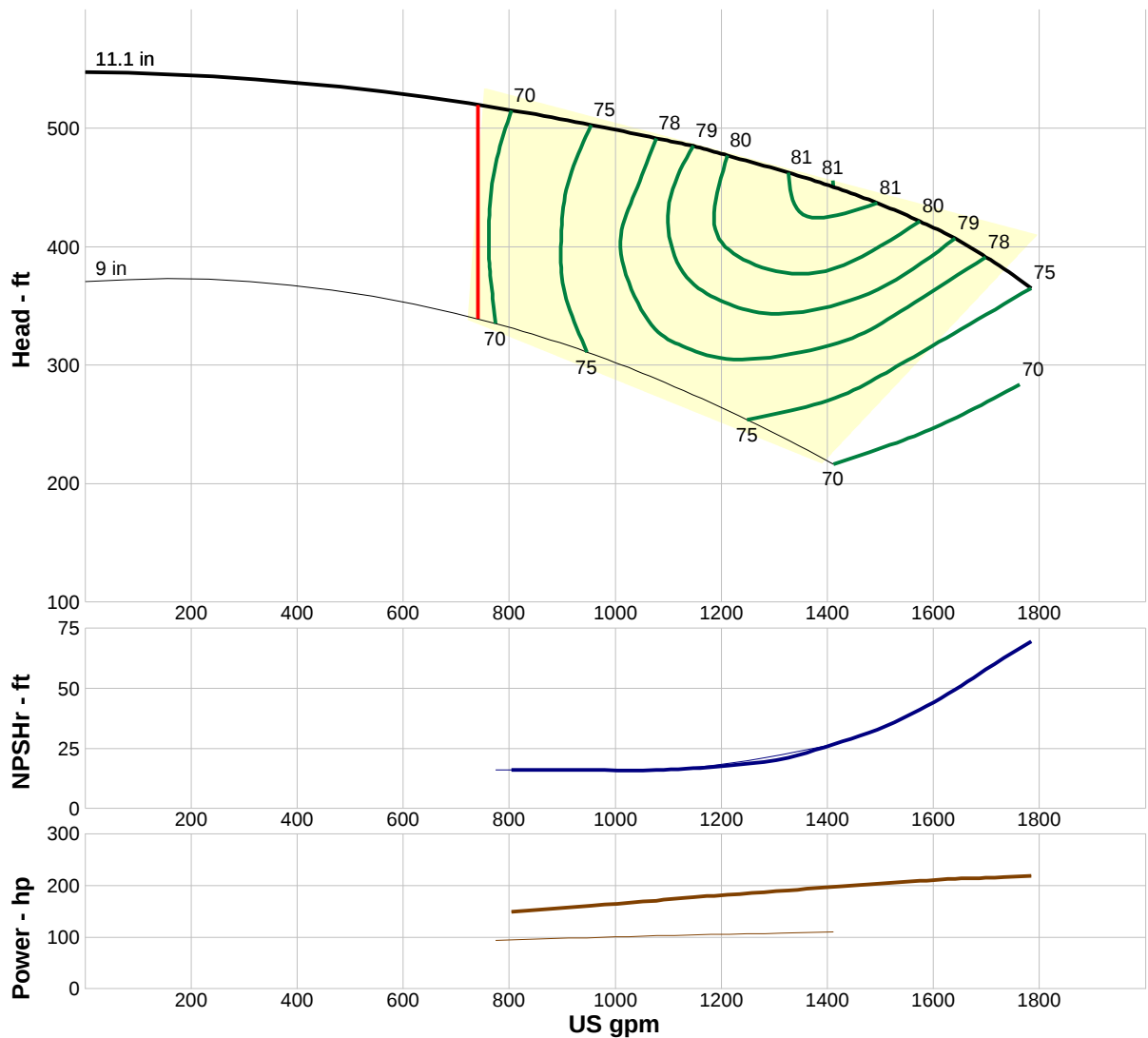
Fluid:

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: 250 hp
Speed: 3600
Frame: 449TS

---- Data Point ----	
Flow:	1411 US gpm
Head:	450 ft
Eff:	81%
Power:	198 hp
NPSHr:	26.8 ft
---- Design Curve ----	
Shutoff head:	548 ft
Shutoff dP:	237 psi
Min flow:	740 US gpm
BEP:	81% @ 1411 US gpm
NOL power:	219 hp @ 1784 US gpm
-- Max Curve --	
Max power:	219 hp @ 1784 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1712	3565	387	78	216	59.7
1427	3565	448	81	199	28
1142	3565	485	79	177	16.7
856	3565	511	72	154	16
571	3565	---	---	---	---