

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"5876
Type: 5800-HSC
Synch speed: 3600 rpm
Curve: 760402A
Specific Speeds:
Dimensions:
Speed: 3565 rpm
Dia: 9.88 in
Impeller: G4B1A
Ns: 1492
Nss: 15156
Suction: 6 in
Discharge: 4 in

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

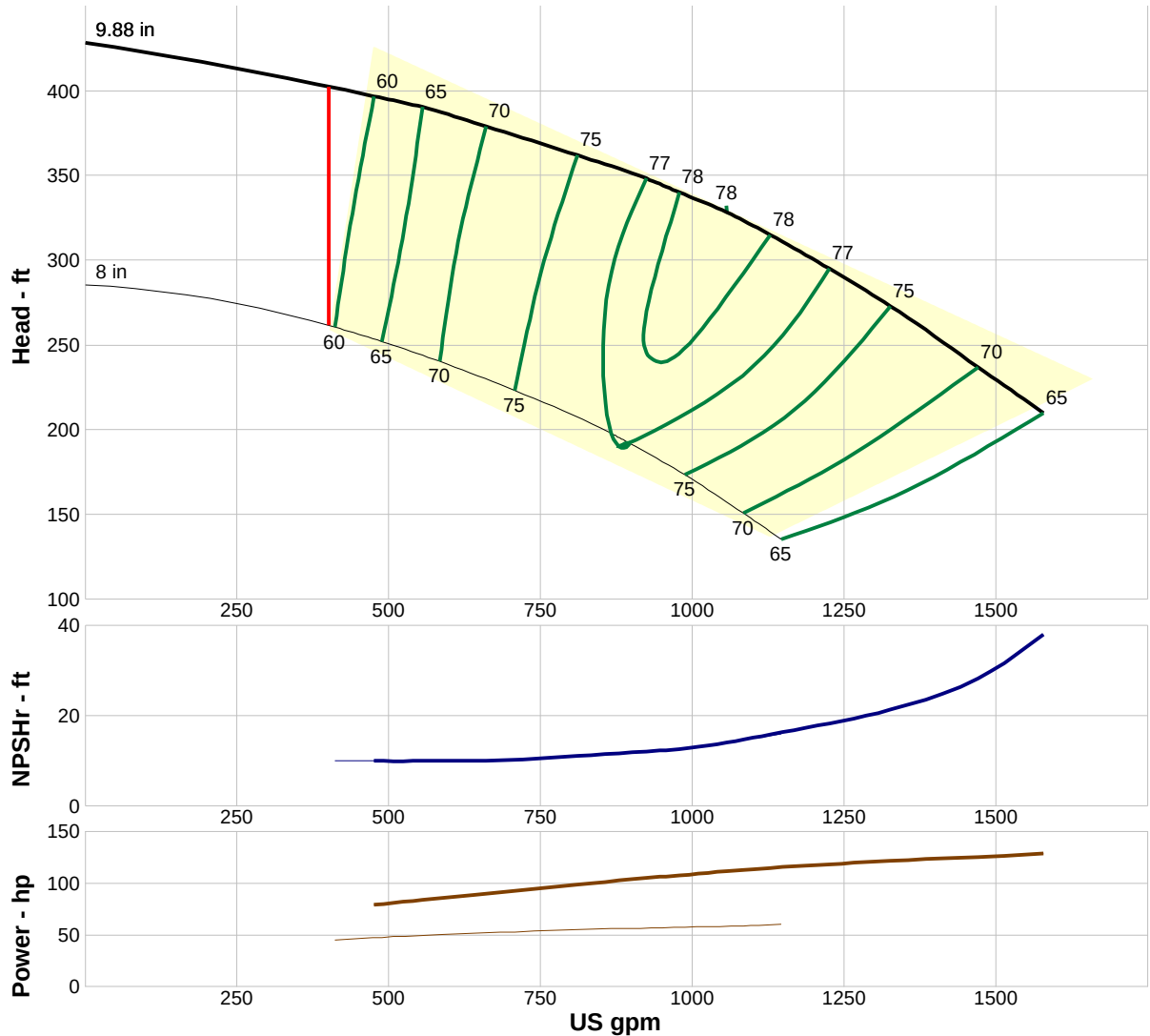
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 150 hp
Speed: 3600
Frame: 445TS

Pump Limits:

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

---- Data Point ----	
Flow:	1056 US gpm
Head:	328 ft
Eff:	78%
Power:	112 hp
NPSHr:	14.1 ft
---- Design Curve ----	
Shutoff head:	428 ft
Shutoff dP:	185 psi
Min flow:	400 US gpm
BEP:	78% @ 1056 US gpm
NOL power:	129 hp @ 1578 US gpm
-- Max Curve --	
Max power:	129 hp @ 1578 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1514	3565	226	68	127	32.3
1262	3565	287	76	120	19.5
1010	3565	335	78	109	13.2
757	3565	368	73	95.7	10.7
505	3565	394	62	81.1	10