

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"5874
 Type: 5800-HSC
 Synch speed: 3600 rpm
 Curve: 740402A
 Specific Speeds:
 Dimensions:
 Speed: 3550 rpm
 Dia: 9 in
 Impeller: G4A1A
 Ns: 1411
 Nss: 11690
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.5 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

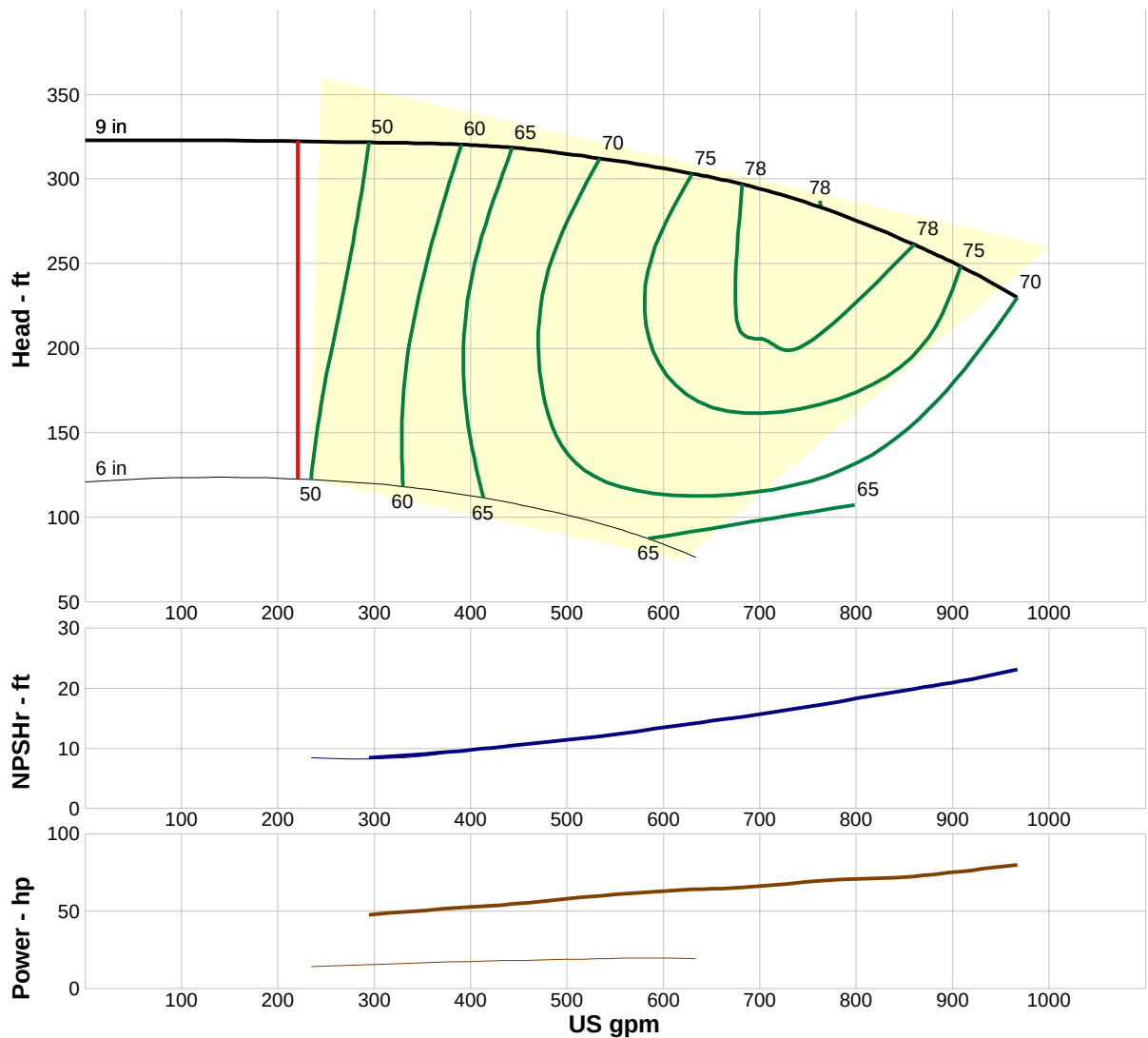
Fluid:

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: 100 hp
 Speed: 3600
 Frame: 405TS

---- Data Point ----	
Flow:	762 US gpm
Head:	283 ft
Eff:	78%
Power:	69.8 hp
NPSHr:	17.3 ft
---- Design Curve ----	
Shutoff head:	323 ft
Shutoff dP:	140 psi
Min flow:	220 US gpm
BEP:	78% @ 762 US gpm
NOL power:	80.2 hp @ 967 US gpm
-- Max Curve --	
Max power:	80.2 hp @ 967 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
928	3550	242	73	77.4	21.9
773	3550	281	78	70.1	17.6
618	3550	304	74	63.8	13.9
464	3550	317	66	56	10.8
309	3550	321	52	48.5	8.67