

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2874C
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 740402C
Specific Speeds:
Dimensions:
Speed: 3570 rpm
Dia: 9 in
Impeller: J3C1A1
Ns: 1968
Nss: 10786
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

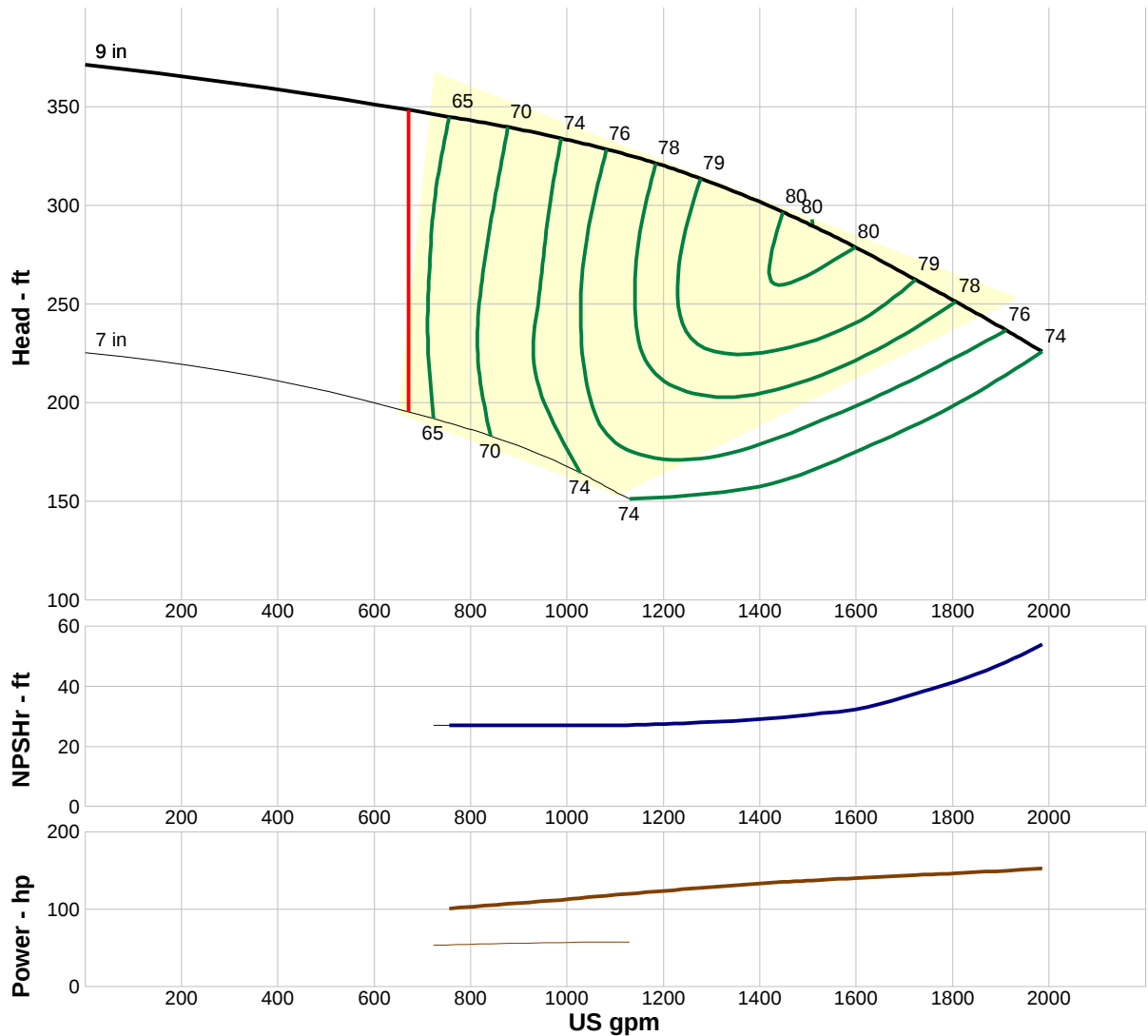
Fluid:

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: 200 hp
Speed: 3600
Frame: 447TS

---- Data Point ----	
Flow:	1509 US gpm
Head:	290 ft
Eff:	80%
Power:	138 hp
NPSHr:	30.8 ft
---- Design Curve ----	
Shutoff head:	371 ft
Shutoff dP:	161 psi
Min flow:	670 US gpm
BEP:	80% @ 1509 US gpm
NOL power:	153 hp @ 1985 US gpm
-- Max Curve --	
Max power:	153 hp @ 1985 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1906	3570	237	76	150	47.9
1588	3570	280	80	140	32.1
1270	3570	314	79	128	28
953	3570	336	73	111	27
635	3570	---	---	---	---