

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2873A
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 730402A
Specific Speeds:
Dimensions:
Speed: 3550 rpm
Dia: 8 in
Impeller: J4B1A1
Ns: 2024
Nss: 14912
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 200 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

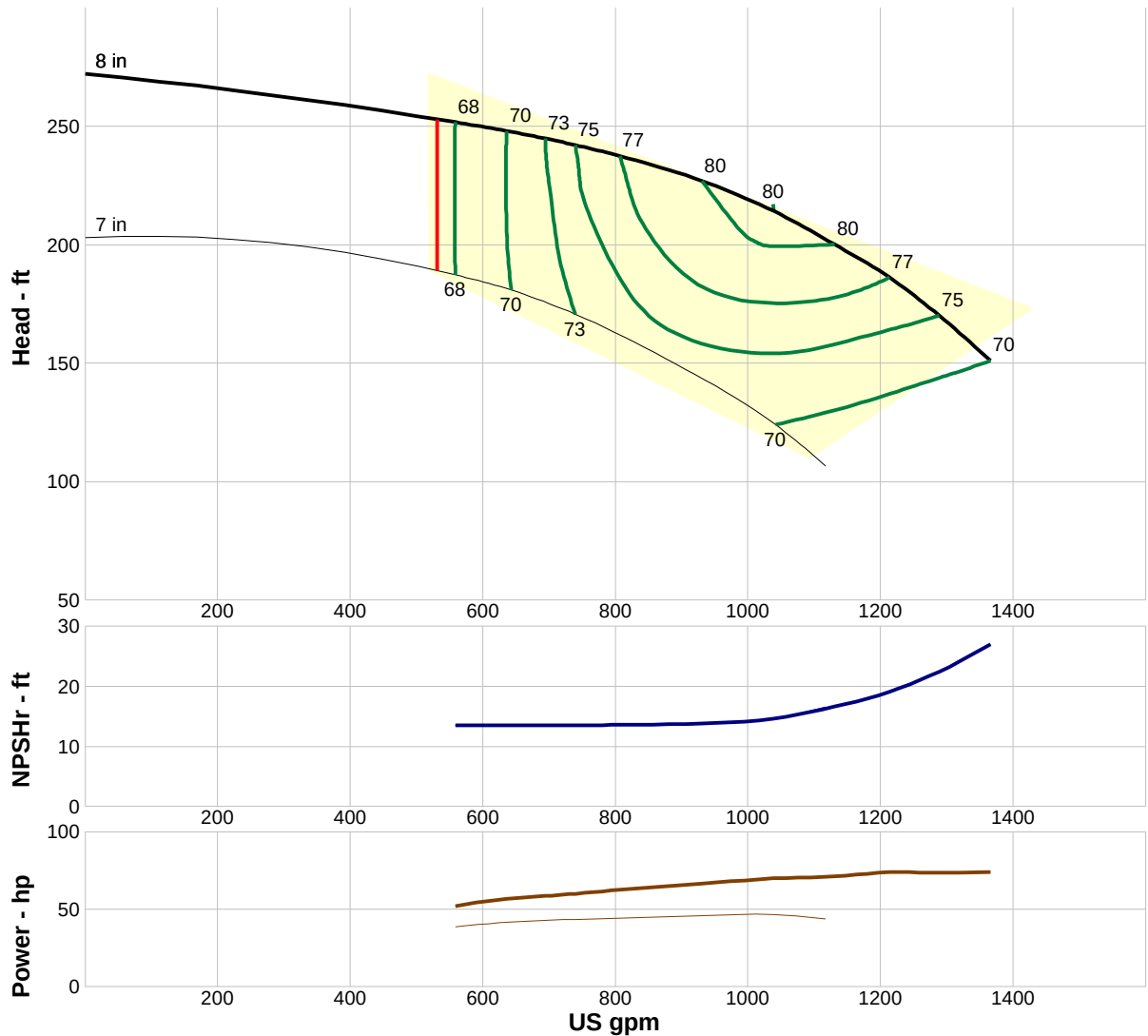
Fluid:

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: 75 hp
Speed: 3600
Frame: 365TS

---- Data Point ----	
Flow:	1038 US gpm
Head:	214 ft
Eff:	80%
Power:	70.1 hp
NPSHr:	14.6 ft
---- Design Curve ----	
Shutoff head:	272 ft
Shutoff dP:	118 psi
Min flow:	530 US gpm
BEP:	80% @ 1038 US gpm
NOL power:	74.4 hp @ 1365 US gpm
-- Max Curve --	
Max power:	74.4 hp @ 1365 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1310	3550	165	74	73.9	23.8
1092	3550	206	80	70.8	15.8
874	3550	232	79	64.9	13.7
655	3550	247	71	57.5	13.5
437	3550	---	---	---	---