

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H12P (1 stage)
 Type: AxialFlow
 Synch speed: 1760 rpm
 Curve: H12P
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 5 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 1.5 in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

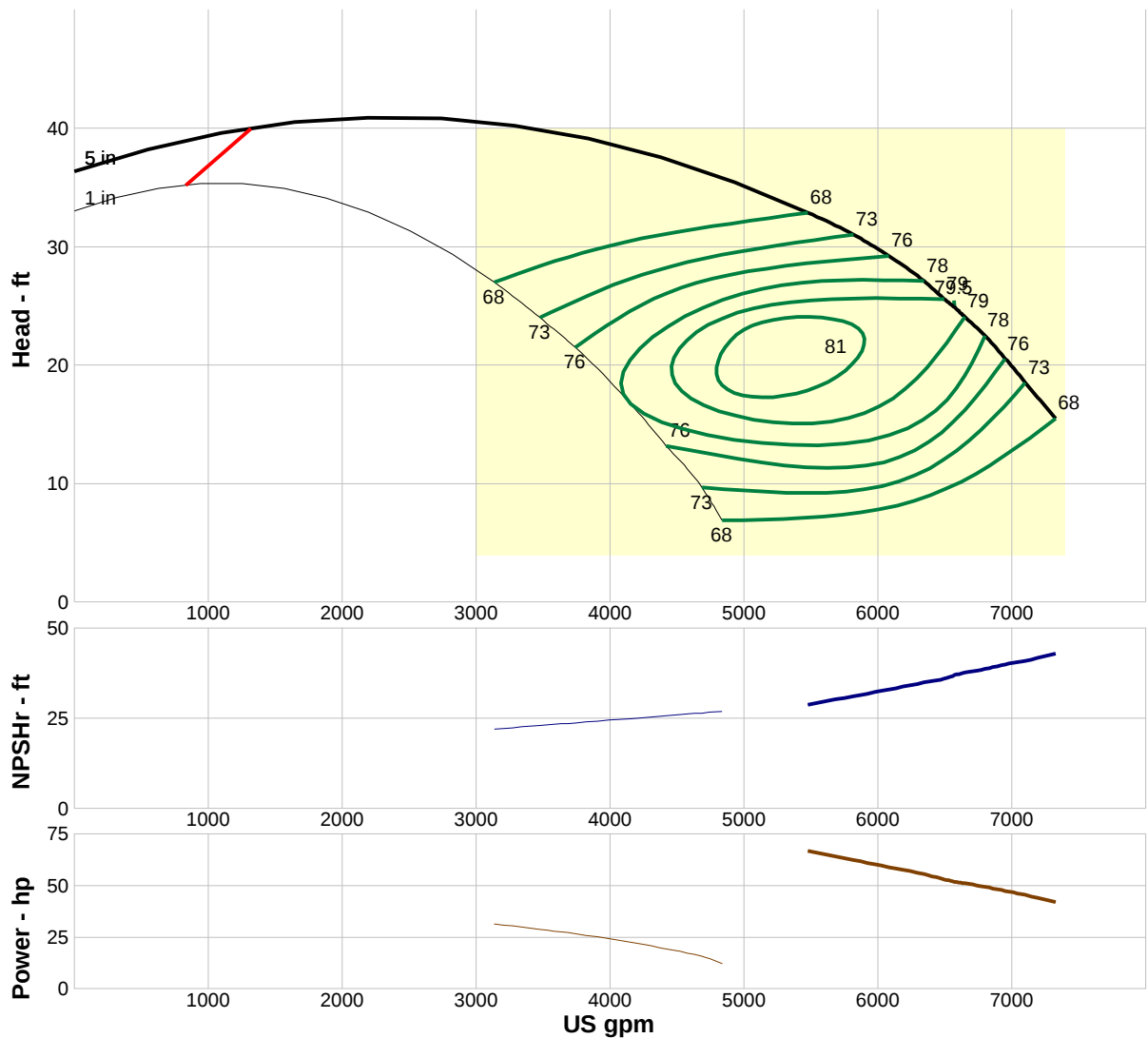
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	6571 US gpm
Head:	24.9 ft
Eff:	79.5%
Power:	51.9 hp
NPSHr:	37 ft
---- Design Curve ----	
Shutoff head:	36.3 ft
Shutoff dP:	15.7 psi
Min flow:	1314 US gpm
BEP:	79.5% @ 6571 US gpm
NOL power:	121 hp @ 1314 US gpm
-- Max Curve --	
Max power:	121 hp @ 1314 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7033	1760	19.4	74.3	46.4	40.6
5861	1760	30.7	73.5	61.8	31.5
4689	1760	33.4	56.4	77.1	23.2
3517	1760	34.1	39.2	92.4	15
2344	1760	34.9	21.9	108	6.69