

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H14P (1 stage)
 Type: AxialFlow
 Synch speed: 880 rpm
 Curve: H14P
 Specific Speeds:
 Dimensions:
 Speed: 880 rpm
 Dia: 5 in
 Impeller:
 Ns: 880
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 2 in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

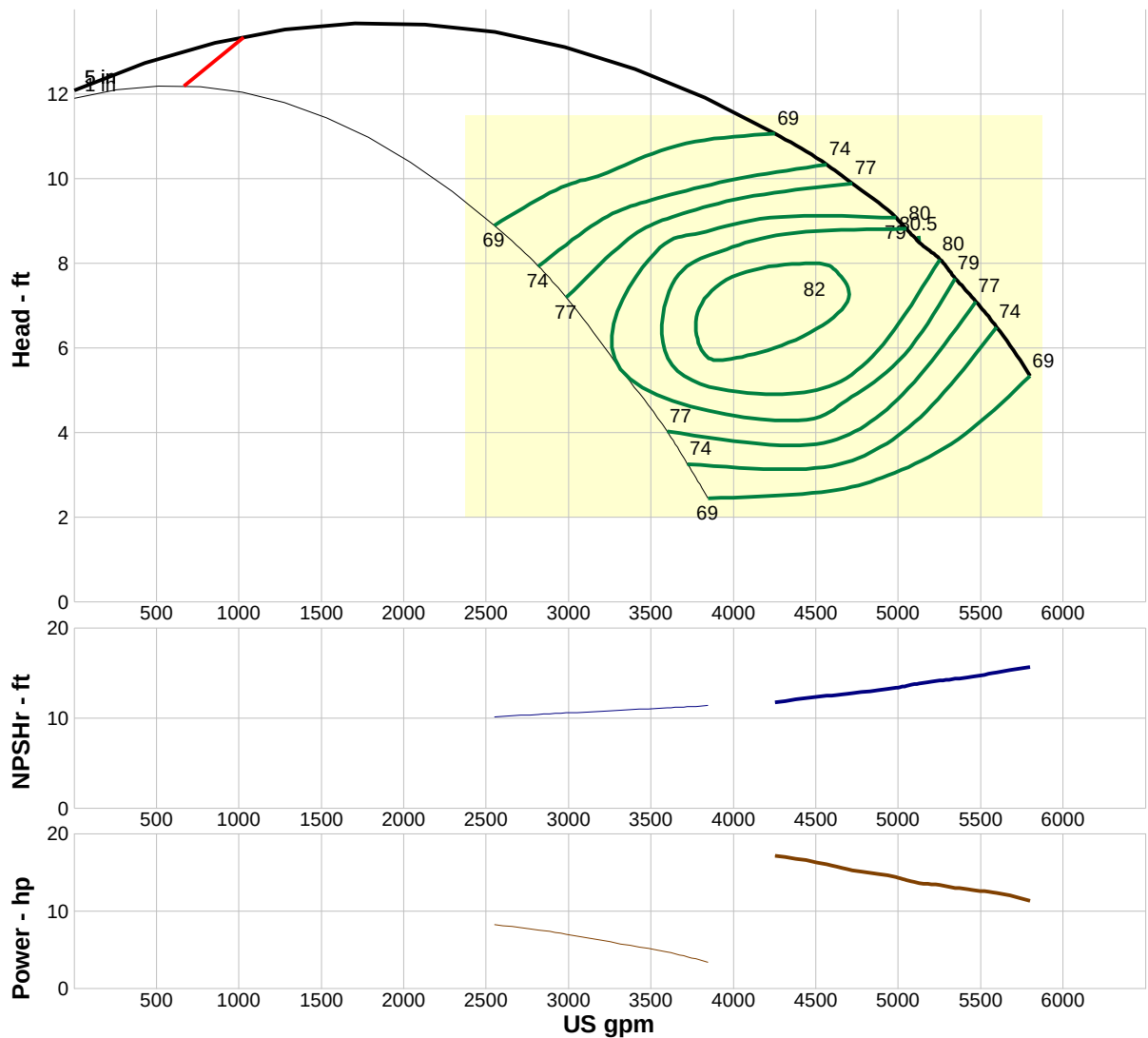
Fluid:

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:	5125 US gpm
Head:	8.5 ft
Eff:	80.5%
Power:	13.7 hp
NPSHr:	13.9 ft
---- Design Curve ----	
Shutoff head:	12.1 ft
Shutoff dP:	5.23 psi
Min flow:	1025 US gpm
BEP:	80.5% @ 5125 US gpm
NOL power:	28.7 hp @ 1025 US gpm
-- Max Curve --	
Max power:	28.7 hp @ 1025 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
5566	880	6.63	74.7	12.5	15
4638	880	10.1	75.4	15.7	12.6
3710	880	11.2	60.4	19.1	10.6
2783	880	11.4	45.6	22.5	8.52
1855	880	11.7	30.7	25.8	6.44