

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H20P (1 stage)
 Type: AxialFlow
 Synch speed: 720 rpm
 Curve: H20P
 Specific Speeds:
 Dimensions:
 Speed: 720 rpm
 Dia: 5 in
 Impeller:
 Ns: 720
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: 50 psi g
 Sphere size: 3 in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

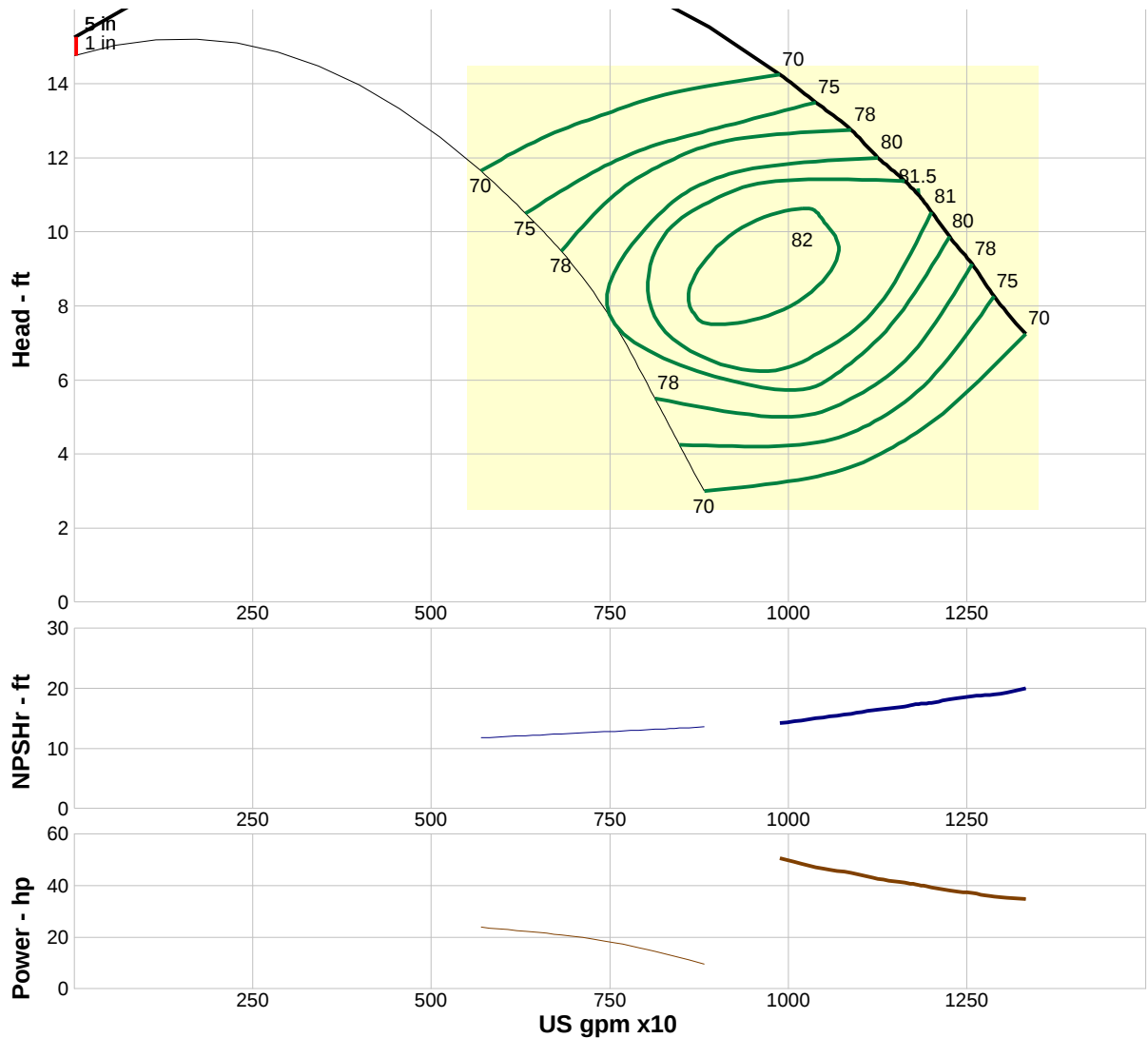
Fluid:

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:	11813 US gpm
Head:	11 ft
Eff:	81.5%
Power:	40.3 hp
NPSHr:	17.4 ft
---- Design Curve ----	
Shutoff head:	15.3 ft
Shutoff dP:	6.59 psi
Min flow:	20 US gpm
BEP:	81.5% @ 11813 US gpm
NOL power:	86.3 hp @ 4948 US gpm
-- Max Curve --	
Max power:	86.3 hp @ 4948 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
12780	720	8.52	75.9	36.2	18.9
10650	720	13.1	76.7	45.9	15.4
8520	720	14.4	56.5	60.5	12
6390	720	14.6	35.1	75.9	8.62
4260	720	14.8	13.9	91.3	5.22