

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H16MFA (1 stage)
 Type: MixFlow
 Synch speed: 1160 rpm
 Curve: H16MFA
 Specific Speeds:
 Dimensions:
 Speed: 1160 rpm
 Dia: 3 in
 Impeller:
 Ns: 1160
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 2.5 in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

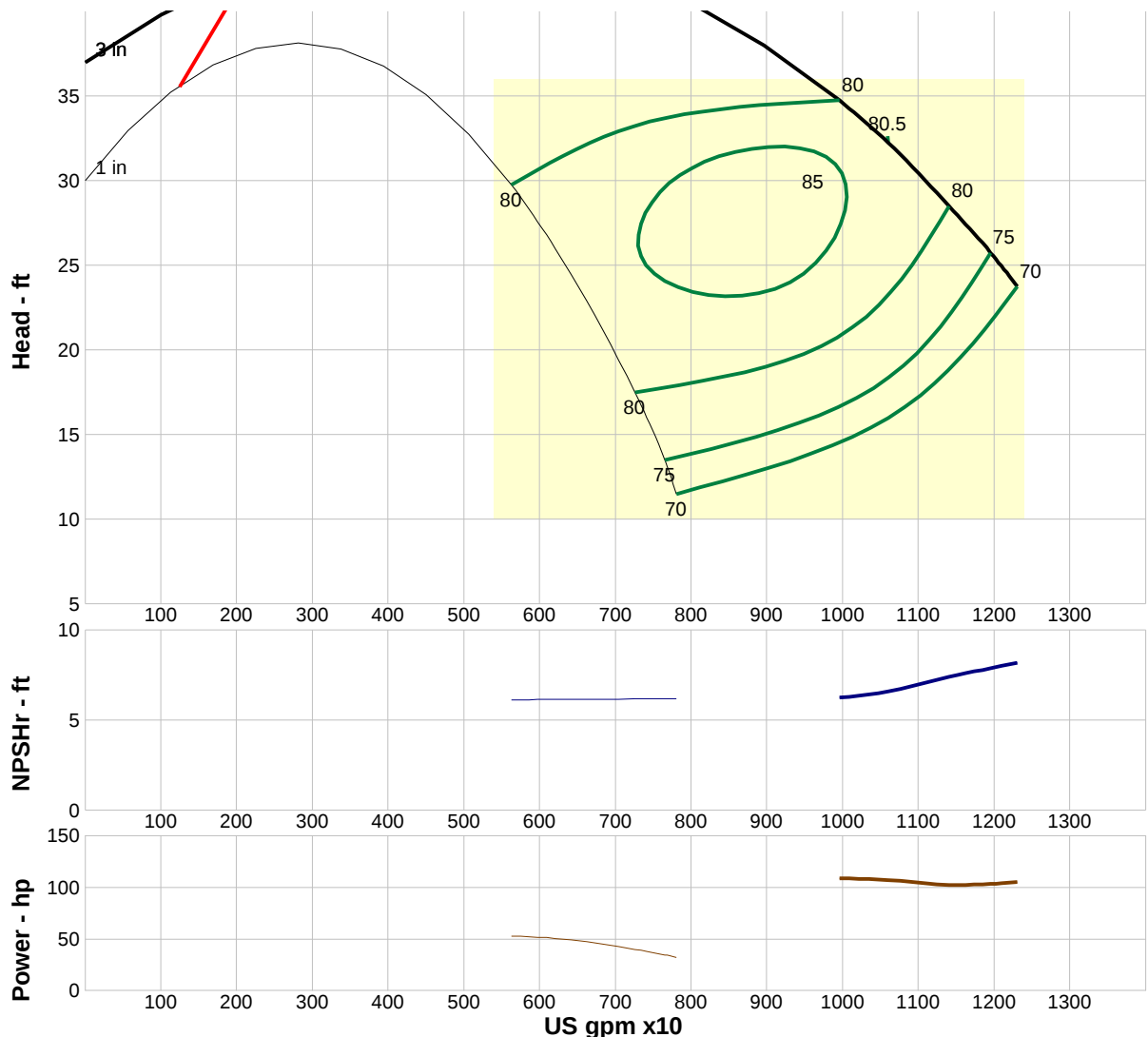
Fluid:

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:	10600 US gpm
Head:	32.3 ft
Eff:	80.5%
Power:	107 hp
NPSHr:	6.6 ft
---- Design Curve ----	
Shutoff head:	37 ft
Shutoff dP:	16 psi
Min flow:	2120 US gpm
BEP:	80.5% @ 10600 US gpm
NOL power:	132 hp @ 2120 US gpm
-- Max Curve --	
Max power:	132 hp @ 2120 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
11808	1160	26.5	76.3	103	7.77
9840	1160	34.8	79.9	109	6.19
7872	1160	35.2	78.4	115	5.13
5904	1160	35.7	76.9	121	4.07
3936	1160	36.1	75.4	127	3.01