



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF12-11-880

Type: AXIAL FLOW
Synch speed: 900 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 880 rpm
Line: A (12)

Impeller:

Ns: ---
Nss: ---

Suction: --- in
Discharge: --- in

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

Size: 5 hp
Speed: 900
Frame: 254T

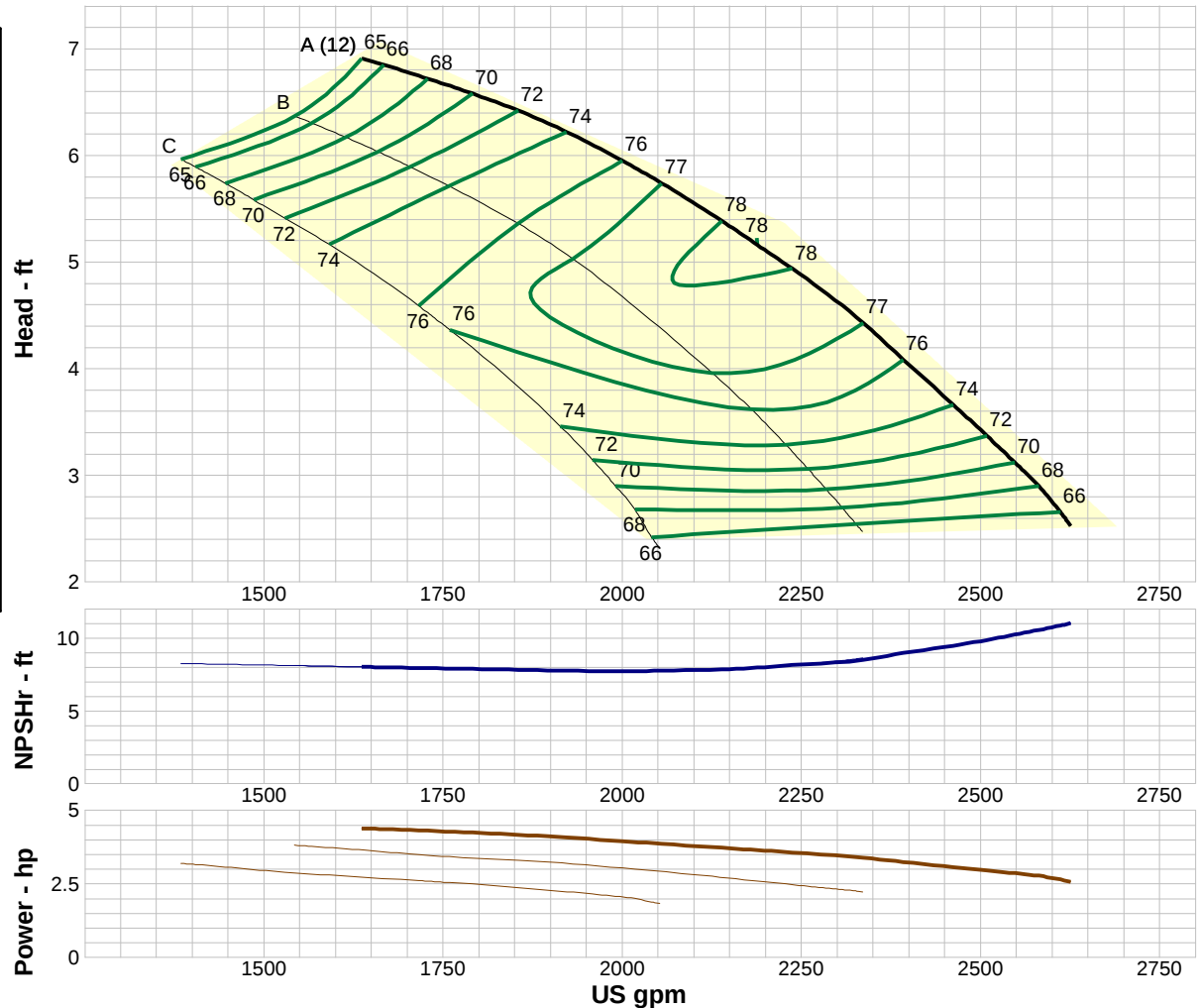
Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F
Pressure: --- psi g
Sphere size: --- in

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	2188 US gpm
Head:	5.16 ft
Eff:	78%
Power:	3.65 hp
NPSHr:	7.99 ft
---- Design Curve ----	
Shutoff head:	6.68 ft
Shutoff dP:	2.89 psi
Min flow:	--- US gpm
BEP:	78% @ 2188 US gpm
NOL power:	4.39 hp @ 1636 US gpm
-- Max Curve --	
Max power:	4.39 hp @ 1636 US gpm



The performance is guaranteed for the design point only when pumping clean water at 85 degrees F. Consult factory for certified performance curve.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2520	880	3.3	71.4	2.94	10
2100	880	5.55	77.5	3.79	7.83
1680	880	6.82	66.4	4.35	8
1260	880	---	---	---	---
840	880	---	---	---	---