



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF18-16-880

Type: AXIAL FLOW
Synch speed: 900 rpm

Curve:
Specific Speeds:

Dimensions:

Speed: 880 rpm
Line: A (18)

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: 40 hp
Speed: 900
Frame: 365T

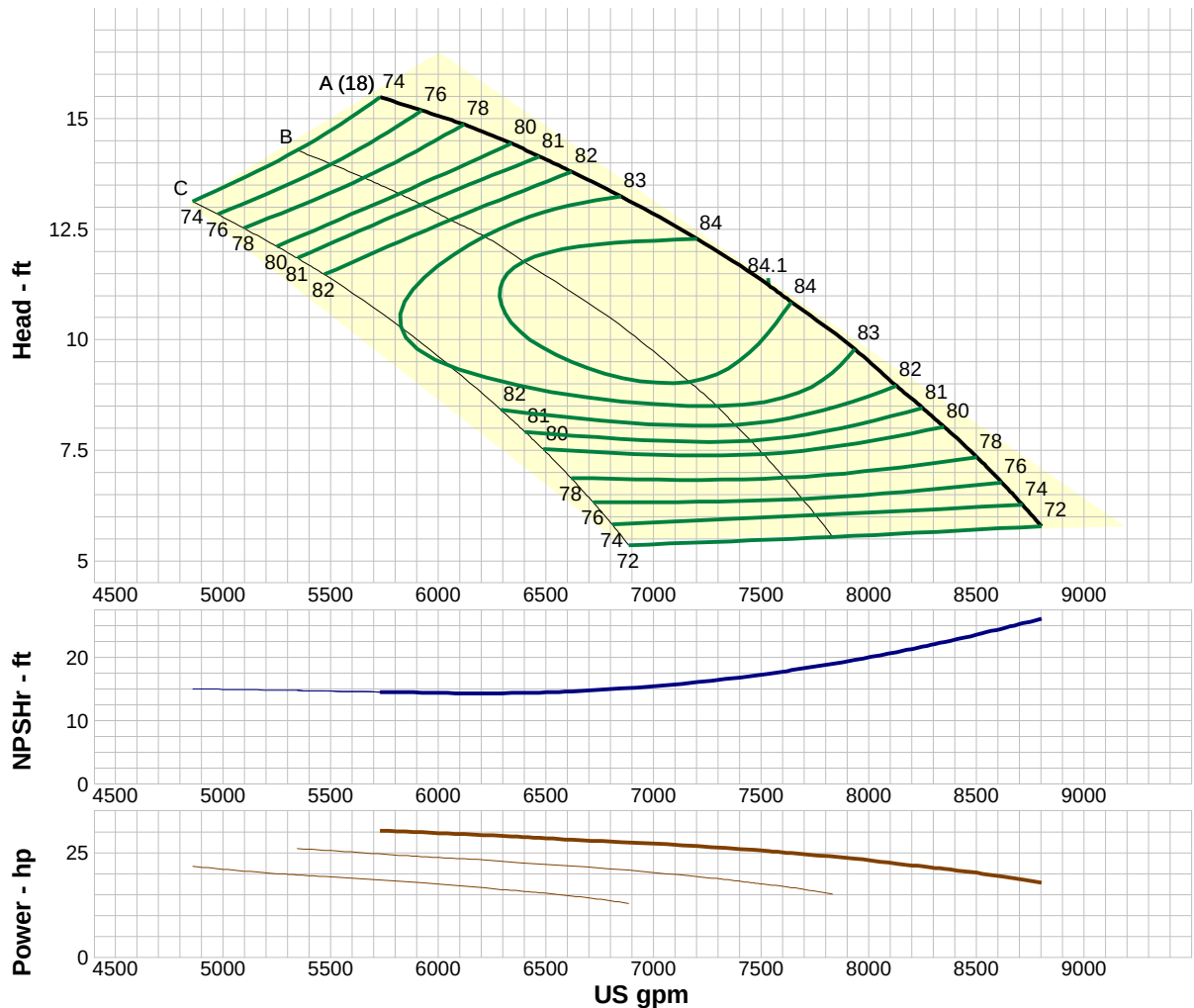
Sizing criteria: Max Power on Design Curve

Pump Limits:

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

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	7532 US gpm
Head:	11.2 ft
Eff:	84.1%
Power:	25.4 hp
NPSHr:	17.5 ft
---- Design Curve ----	
Shutoff head:	15.2 ft
Shutoff dP:	6.59 psi
Min flow:	--- US gpm
BEP:	84.1% @ 7532 US gpm
NOL power:	30.3 hp @ 5727 US gpm
-- Max Curve --	
Max power:	30.3 hp @ 5727 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
8448	880	7.58	78.7	20.5	23.2
7040	880	12.7	83.5	27	15.7
5632	880	---	---	---	---
4224	880	---	---	---	---
2816	880	---	---	---	---