



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF16-14-1180

Type: AXIAL FLOW
Synch speed: 1200 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 1180 rpm
Line: A (16)

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: 1200
Frame: 364T

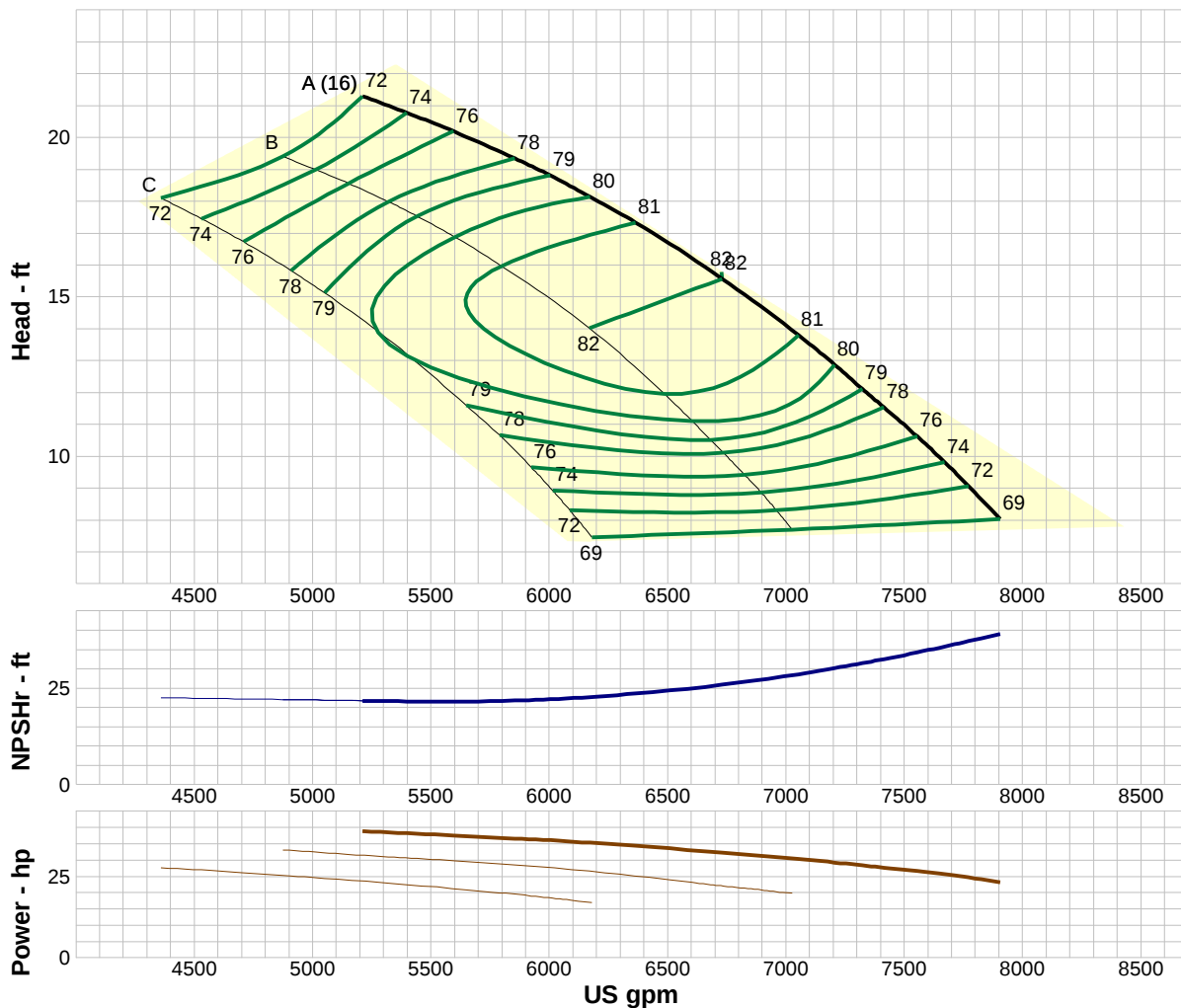
Sizing criteria: Max Power on Design Curve

Pump Limits:

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

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	6728 US gpm
Head:	15.6 ft
Eff:	82%
Power:	32.3 hp
NPSHr:	25.9 ft
---- Design Curve ----	
Shutoff head:	21 ft
Shutoff dP:	9.08 psi
Min flow:	--- US gpm
BEP:	82% @ 6728 US gpm
NOL power:	38.9 hp @ 5209 US gpm
-- Max Curve --	
Max power:	38.9 hp @ 5209 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
7586	1180	10.4	75.4	26.4	34.7
6322	1180	17.5	80.8	34.6	23.4
5058	1180	---	---	---	---
3793	1180	---	---	---	---
2529	1180	---	---	---	---