



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF36-30-440

Type: AXIAL FLOW
Synch speed: 450 rpm

Curve:
Specific Speeds:

Dimensions:

Speed: 440 rpm
Line: A (36)

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

--- hp
Speed: ---
Frame: ---

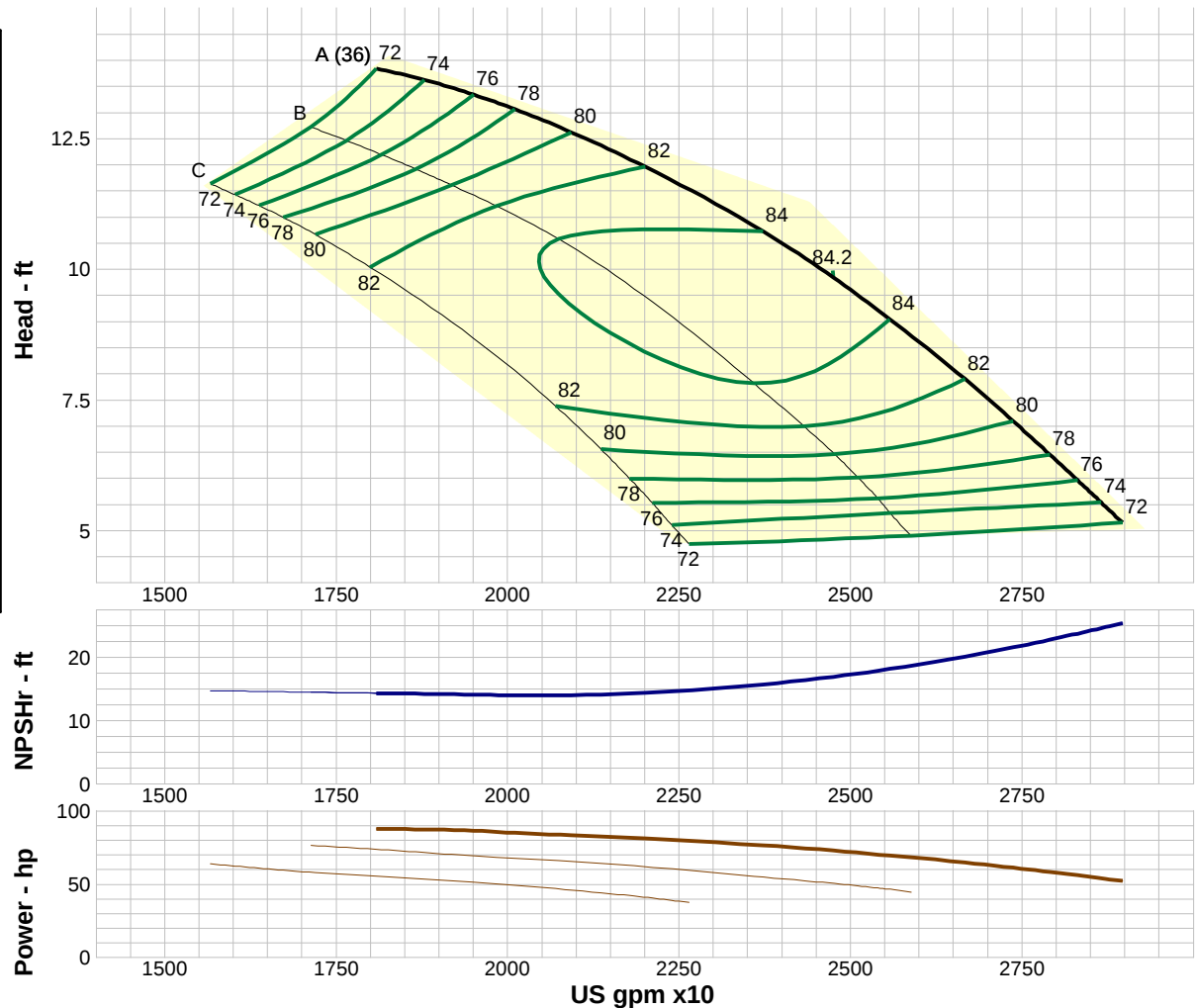
Sizing criteria: Max Power on Design Curve

Pump Limits:

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

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	24745 US gpm
Head:	9.84 ft
Eff:	84.2%
Power:	73.1 hp
NPSHr:	17 ft
---- Design Curve ----	
Shutoff head:	13.4 ft
Shutoff dP:	5.77 psi
Min flow:	--- US gpm
BEP:	84.2% @ 24745 US gpm
NOL power:	87.7 hp @ 18076 US gpm
-- Max Curve --	
Max power:	87.7 hp @ 18076 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
27799	440	6.58	78.4	58.9	22.6
23166	440	11.1	83.4	77.9	15.3
18533	440	13.7	73.3	87.5	14.3
13900	440	---	---	---	---
9266	440	---	---	---	---