



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF42-36-355

Type: AXIAL FLOW
Synch speed: 360 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 355 rpm
Line: A (42)

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: ---

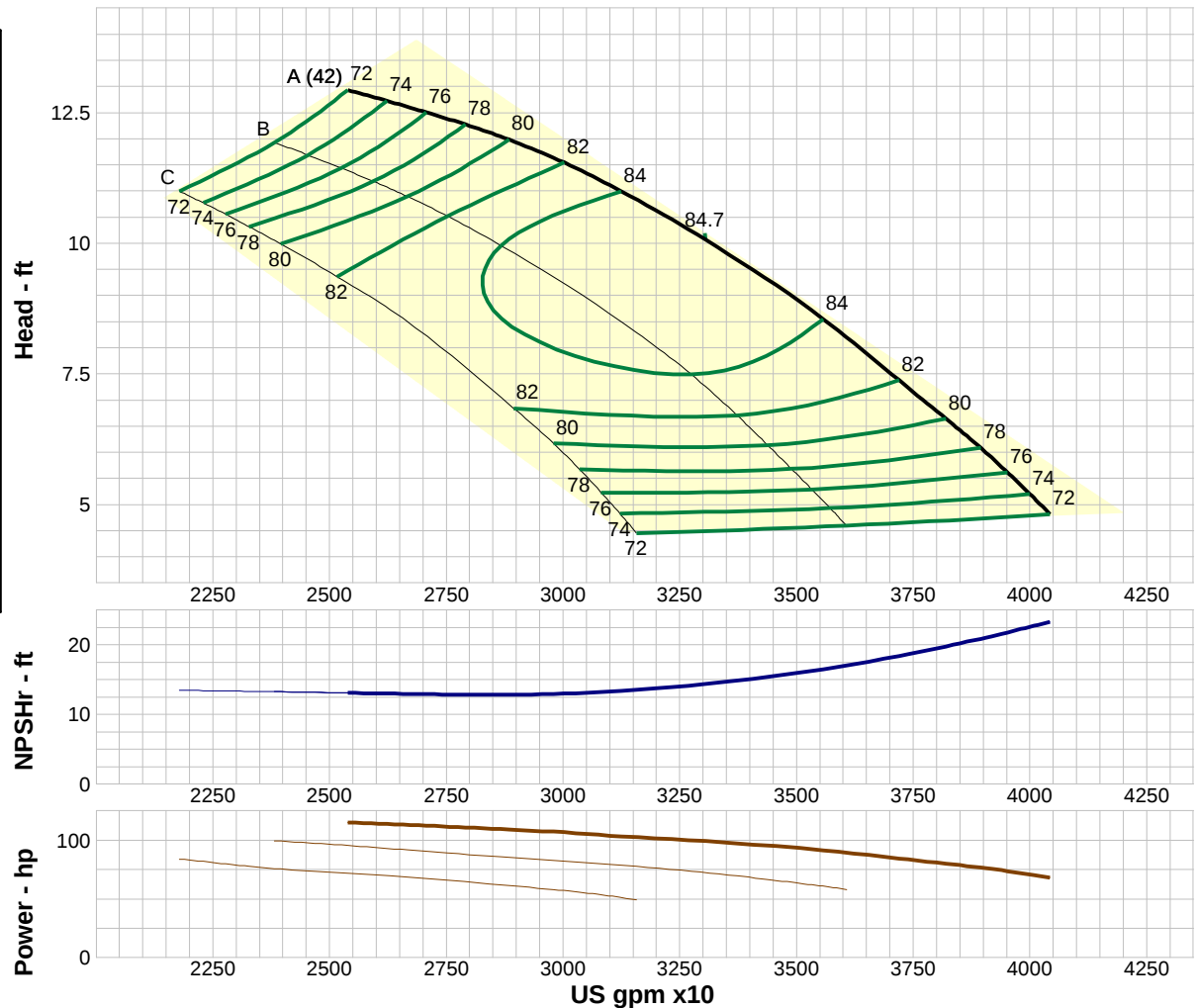
Sizing criteria: Max Power on Design Curve

Pump Limits:

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

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	33040 US gpm
Head:	10.1 ft
Eff:	84.7%
Power:	99.2 hp
NPSHr:	14.4 ft
---- Design Curve ----	
Shutoff head:	12.5 ft
Shutoff dP:	5.4 psi
Min flow:	--- US gpm
BEP:	84.7% @ 33040 US gpm
NOL power:	115 hp @ 25377 US gpm
-- Max Curve --	
Max power:	115 hp @ 25377 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
38804	355	6.18	78.3	77.3	20.7
32337	355	10.4	84.4	101	14
25870	355	12.8	73.2	114	13.1
19402	355	---	---	---	---
12935	355	---	---	---	---