



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF24-21-505

Type: AXIAL FLOW
Synch speed: 515 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 505 rpm
Line: A (24)

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: ---

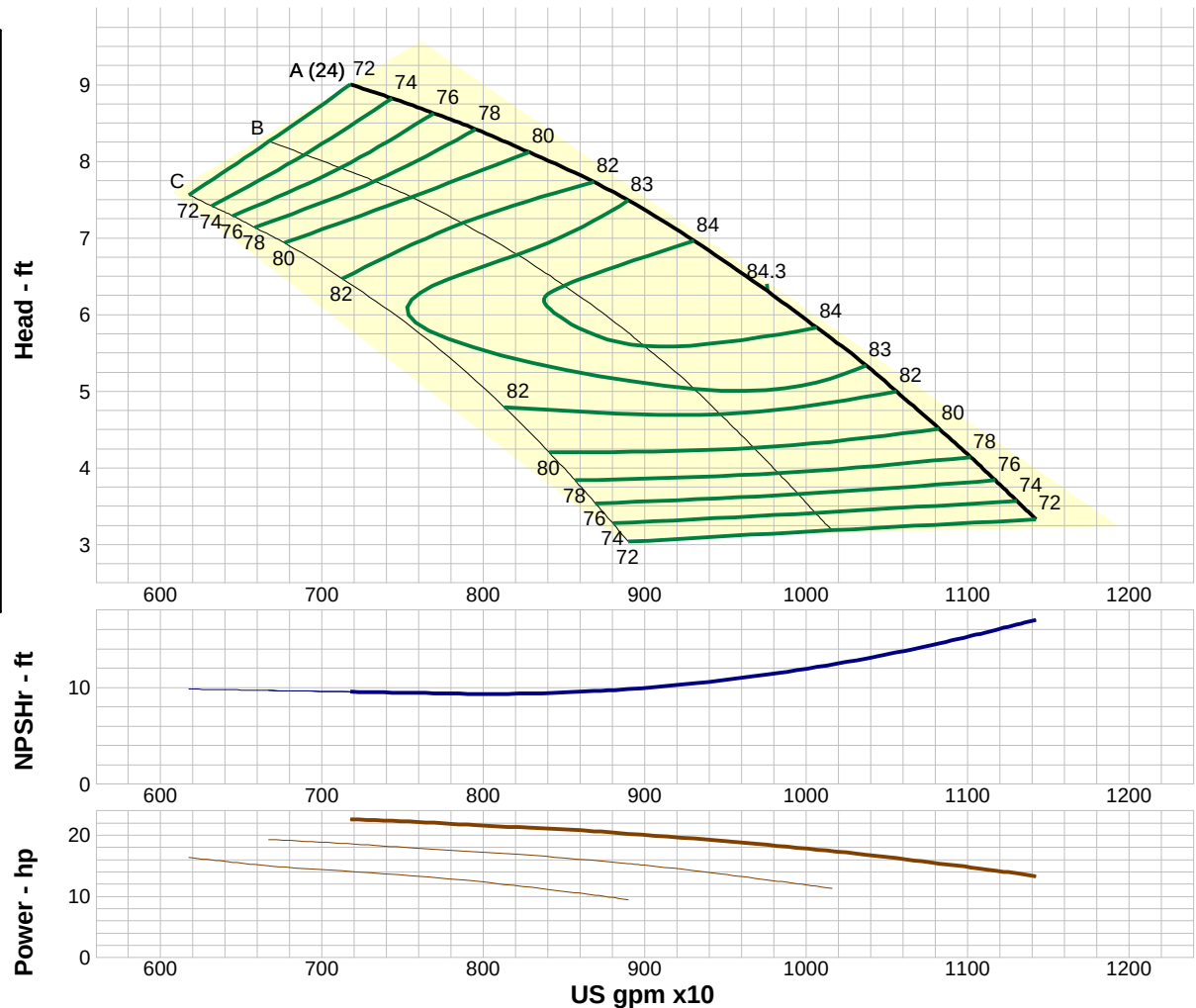
Sizing criteria: Max Power on Design Curve

Pump Limits:

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

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	9756 US gpm
Head:	6.31 ft
Eff:	84.3%
Power:	18.4 hp
NPSHr:	11.3 ft
---- Design Curve ----	
Shutoff head:	8.63 ft
Shutoff dP:	3.73 psi
Min flow:	--- US gpm
BEP:	84.3% @ 9756 US gpm
NOL power:	22.7 hp @ 7173 US gpm
-- Max Curve --	
Max power:	22.7 hp @ 7173 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
10963	505	4.24	78.5	14.9	15.1
9136	505	7.18	83.6	19.8	10.2
7309	505	8.91	73.1	22.5	9.52
5482	505	---	---	---	---
3654	505	---	---	---	---