



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF24-21-705

Type: AXIAL FLOW

Synch speed: 720 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 705 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

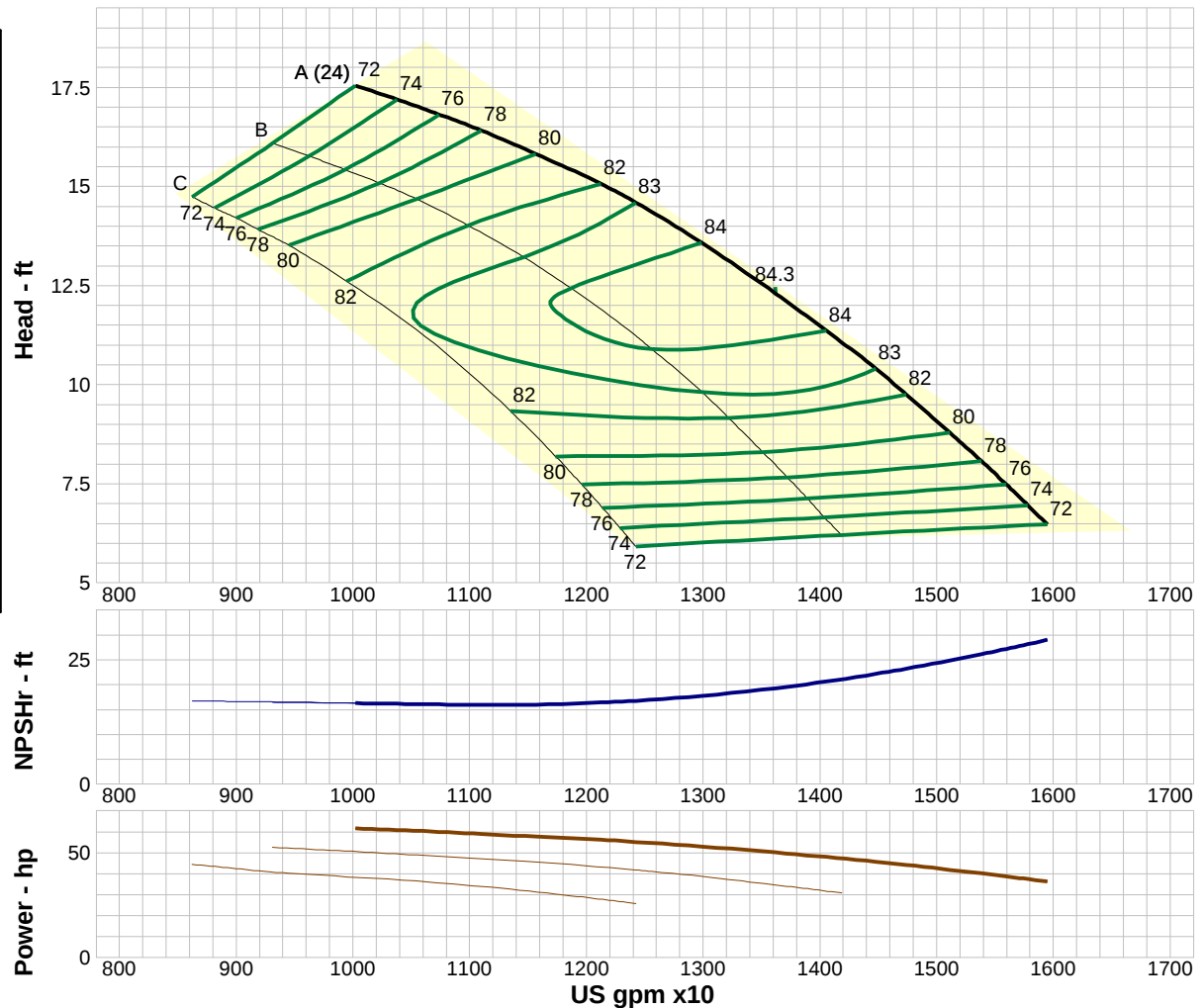
Pressure: --- psi g

Sphere size: --- in

Power: --- hp

Eye area: --- in²

---- Data Point ----	
Flow:	13619 US gpm
Head:	12.3 ft
Eff:	84.3%
Power:	50.2 hp
NPSHr:	19.3 ft
---- Design Curve ----	
Shutoff head:	16.8 ft
Shutoff dP:	7.27 psi
Min flow:	--- US gpm
BEP:	84.3% @ 13619 US gpm
NOL power:	61.6 hp @ 10014 US gpm
-- Max Curve --	
Max power:	61.6 hp @ 10014 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
15305	705	8.27	78.5	40.7	25.8
12754	705	14	83.6	53.9	17.4
10203	705	17.4	73.1	61.2	16.2
7652	705	---	---	---	---
5102	705	---	---	---	---