



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF20-18-880

Type: AXIAL FLOW

Synch speed: 900 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 880 rpm

Line: A (20)

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: 60 hp

Speed: 900

Frame: 405T

Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F

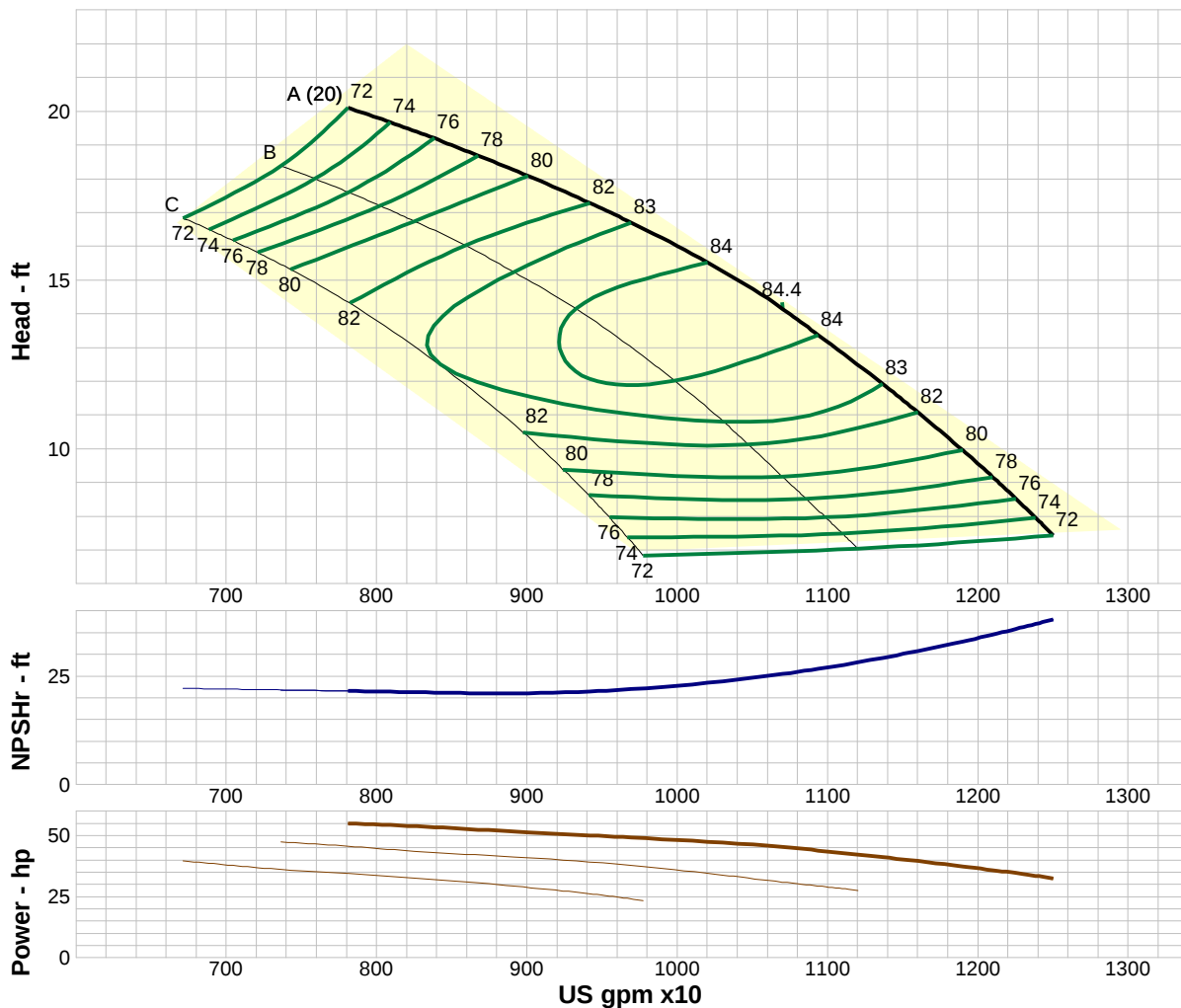
Pressure: --- psi g

Sphere size: --- in

Power: --- hp

Eye area: --- in²

---- Data Point ----	
Flow:	10700 US gpm
Head:	14.1 ft
Eff:	84.4%
Power:	45.3 hp
NPSHr:	25.5 ft
---- Design Curve ----	
Shutoff head:	19.1 ft
Shutoff dP:	8.26 psi
Min flow:	--- US gpm
BEP:	84.4% @ 10700 US gpm
NOL power:	55 hp @ 7804 US gpm
-- Max Curve --	
Max power:	55 hp @ 7804 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
12000	880	9.54	79	36.6	33.8
10000	880	16	83.6	48.2	22.9
8000	880	19.8	73.4	54.5	21.4
6000	880	---	---	---	---
4000	880	---	---	---	---