



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF8-8-1750

Type: AXIAL FLOW

Synch speed: 1800 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 1750 rpm

Line: A

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: 10 hp

Speed: 1800

Frame: 215T

Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F

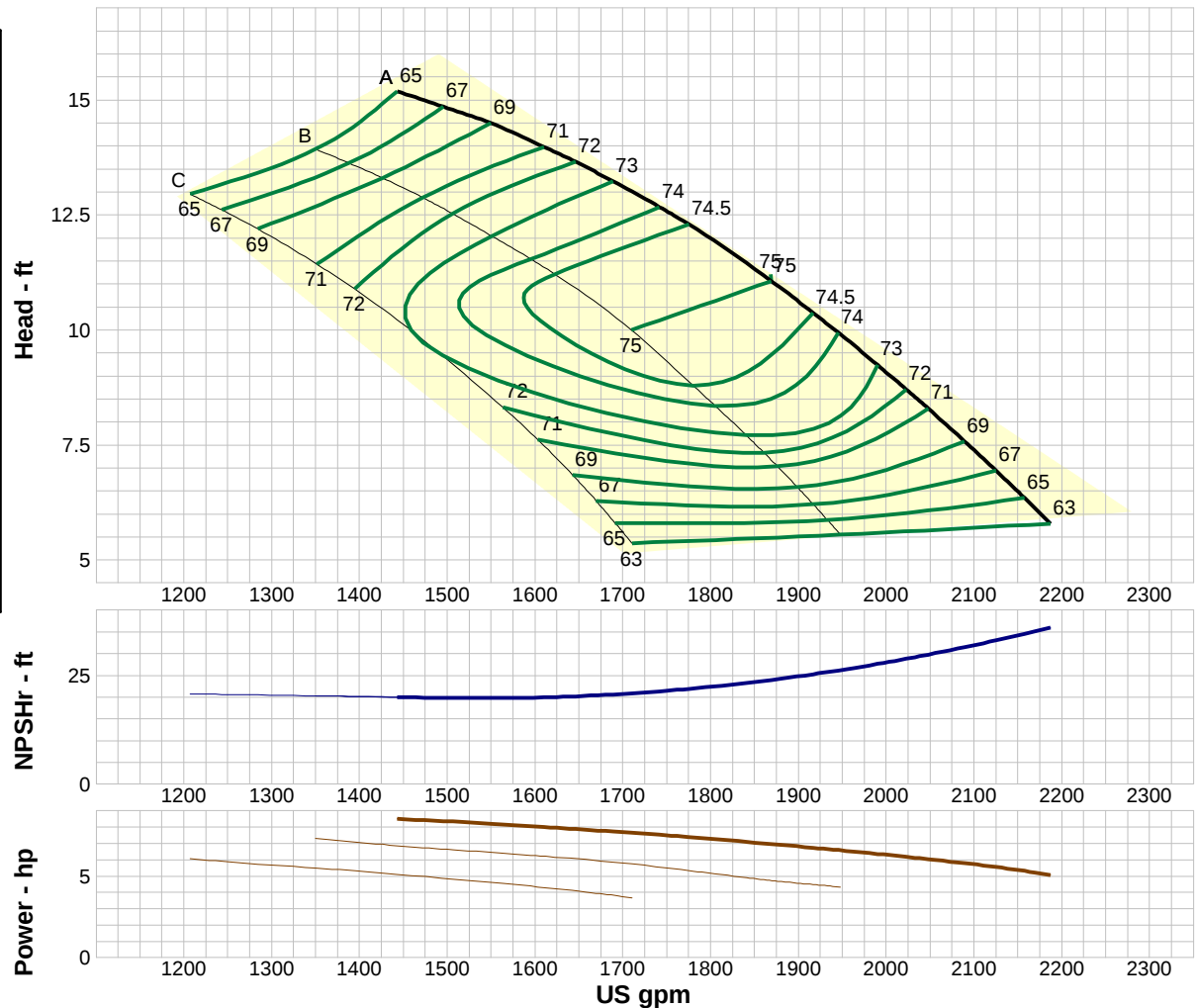
Pressure: --- psi g

Sphere size: --- in

Power: --- hp

Eye area: --- in²

---- Data Point ----	
Flow:	1869 US gpm
Head:	11.1 ft
Eff:	75%
Power:	6.96 hp
NPSHr:	24 ft
---- Design Curve ----	
Shutoff head:	15.1 ft
Shutoff dP:	6.51 psi
Min flow:	--- US gpm
BEP:	75% @ 1869 US gpm
NOL power:	8.51 hp @ 1442 US gpm
-- Max Curve --	
Max power:	8.51 hp @ 1442 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
2099	1750	7.4	68.4	5.73	31.9
1749	1750	12.6	74.1	7.5	21.5
1399	1750	---	---	---	---
1049	1750	---	---	---	---
700	1750	---	---	---	---