



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF12-11-1180

Type: AXIAL FLOW

Synch speed: 1200 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 1180 rpm

Line: A (12)

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: 15 hp

Speed: 1200

Frame: 284T

Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F

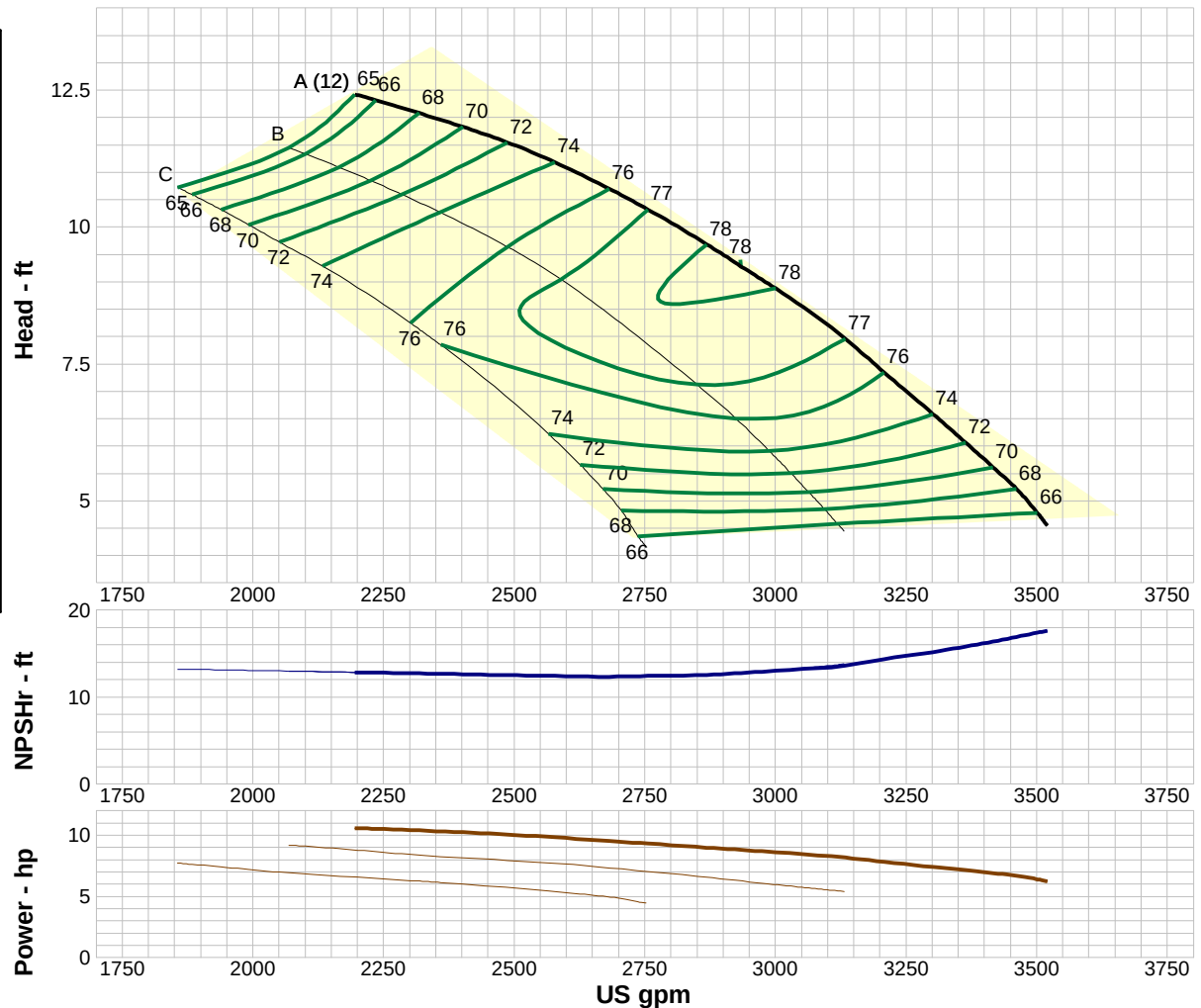
Pressure: --- psi g

Sphere size: --- in

Power: --- hp

Eye area: --- in²

---- Data Point ----	
Flow:	2933 US gpm
Head:	9.28 ft
Eff:	78%
Power:	8.81 hp
NPSHr:	12.8 ft
---- Design Curve ----	
Shutoff head:	12 ft
Shutoff dP:	5.19 psi
Min flow:	--- US gpm
BEP:	78% @ 2933 US gpm
NOL power:	10.6 hp @ 2193 US gpm
-- Max Curve --	
Max power:	10.6 hp @ 2193 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
3379	1180	5.93	71.4	7.08	16
2816	1180	9.98	77.5	9.14	12.5
2253	1180	12.3	66.5	10.5	12.8
1690	1180	---	---	---	---
1126	1180	---	---	---	---