



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF14-12-880

Type: AXIAL FLOW

Synch speed: 900 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 880 rpm

Line: A (14)

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: 900

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: 3139 US gpm

Head: 6.35 ft

Eff: 79.1%

Power: 6.36 hp

NPSHr: 14.8 ft

---- Design Curve ----

Shutoff head: 8.56 ft

Shutoff dP: 3.7 psi

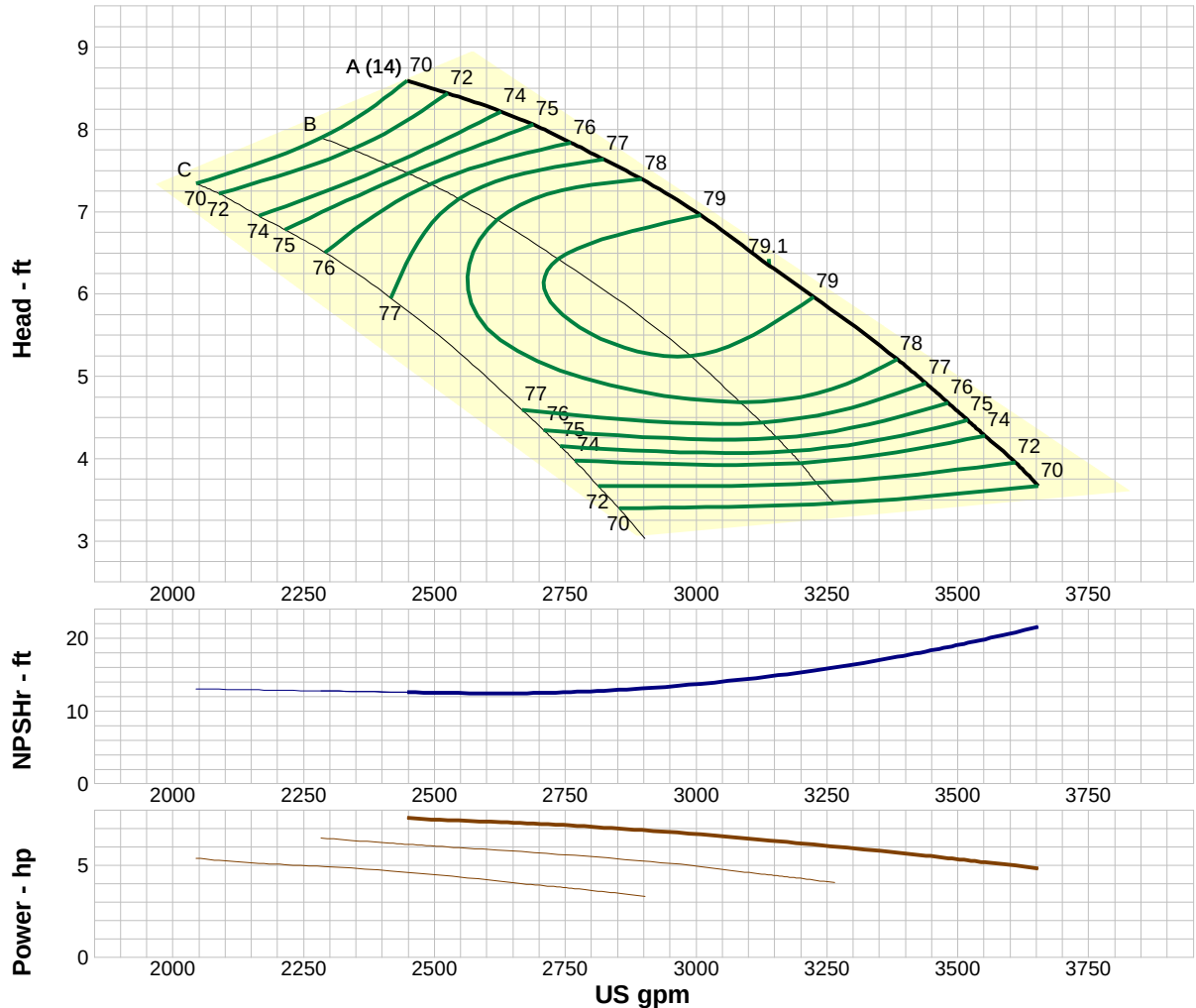
Min flow: --- US gpm

BEP: 79.1% @ 3139 US gpm

NOL power:
7.59 hp @ 2447 US gpm

-- Max Curve --

Max power:
7.59 hp @ 2447 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
3506	880	4.53	75.3	5.33	19.2
2922	880	7.29	78.2	6.88	13.3
2338	880	---	---	---	---
1753	880	---	---	---	---
1169	880	---	---	---	---