



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF54-48-355

Type: AXIAL FLOW

Synch speed: 360 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 355 rpm

Line: A (54)

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: 81777 US gpm

Head: 16.3 ft

Eff: 84.4%

Power: 399 hp

NPSHr: 23.7 ft

---- Design Curve ----

Shutoff head: 21.9 ft

Shutoff dP: 9.47 psi

Min flow: --- US gpm

BEP: 84.4% @ 81777 US gpm

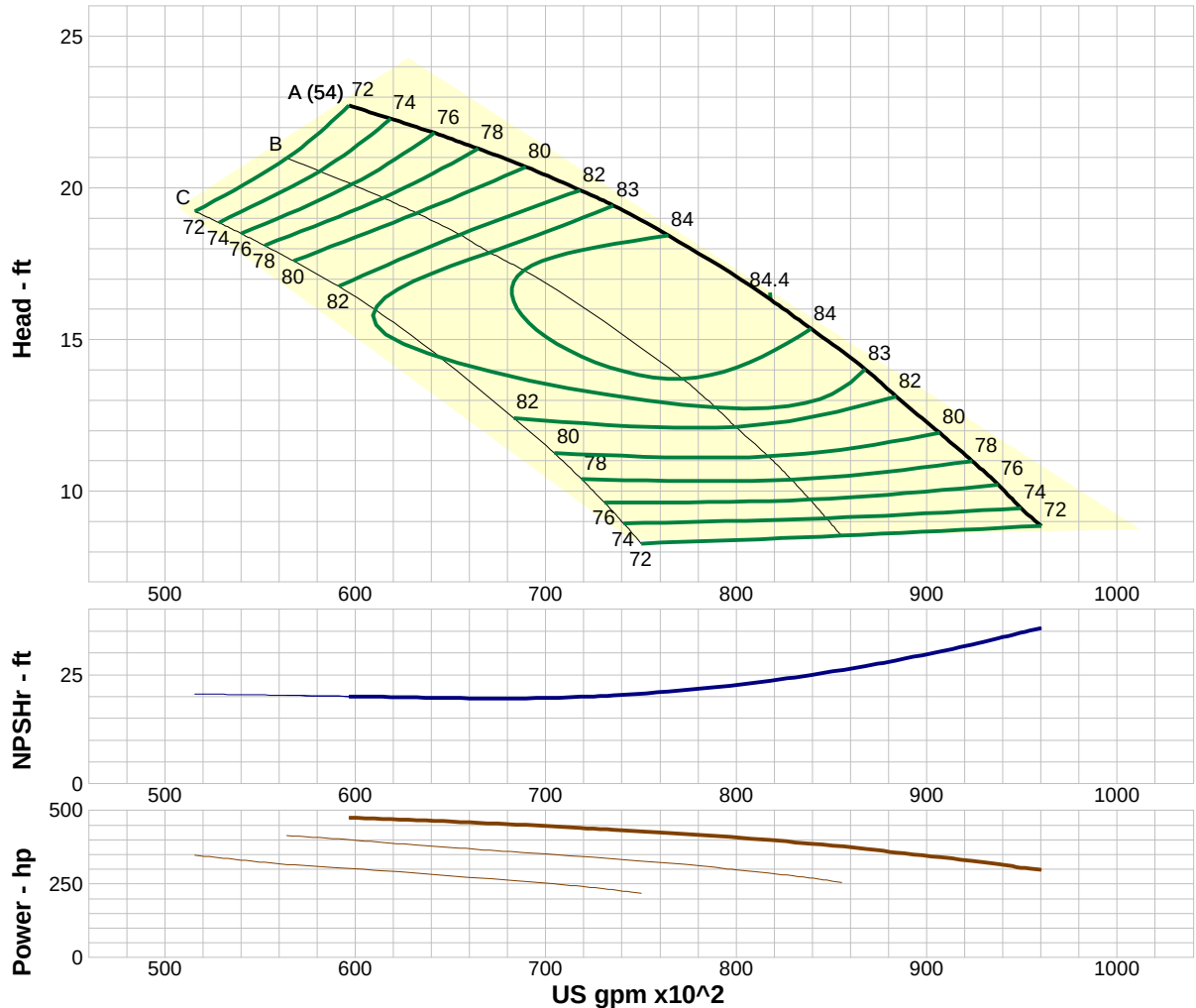
NOL power:

475 hp @ 59621 US gpm

-- Max Curve --

Max power:

475 hp @ 59621 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
92155	355	11.1	78.3	330	31.8
76796	355	18.3	84	422	21.4
61437	355	22.4	73.6	471	19.9
46078	355	---	---	---	---
30718	355	---	---	---	---