

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2823C
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 230606C
Specific Speeds:
Dimensions:
Speed: 1180 rpm
Dia: 14.35 in
Impeller: J6H1C1
Ns: 1841
Nss: 13322
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 1 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

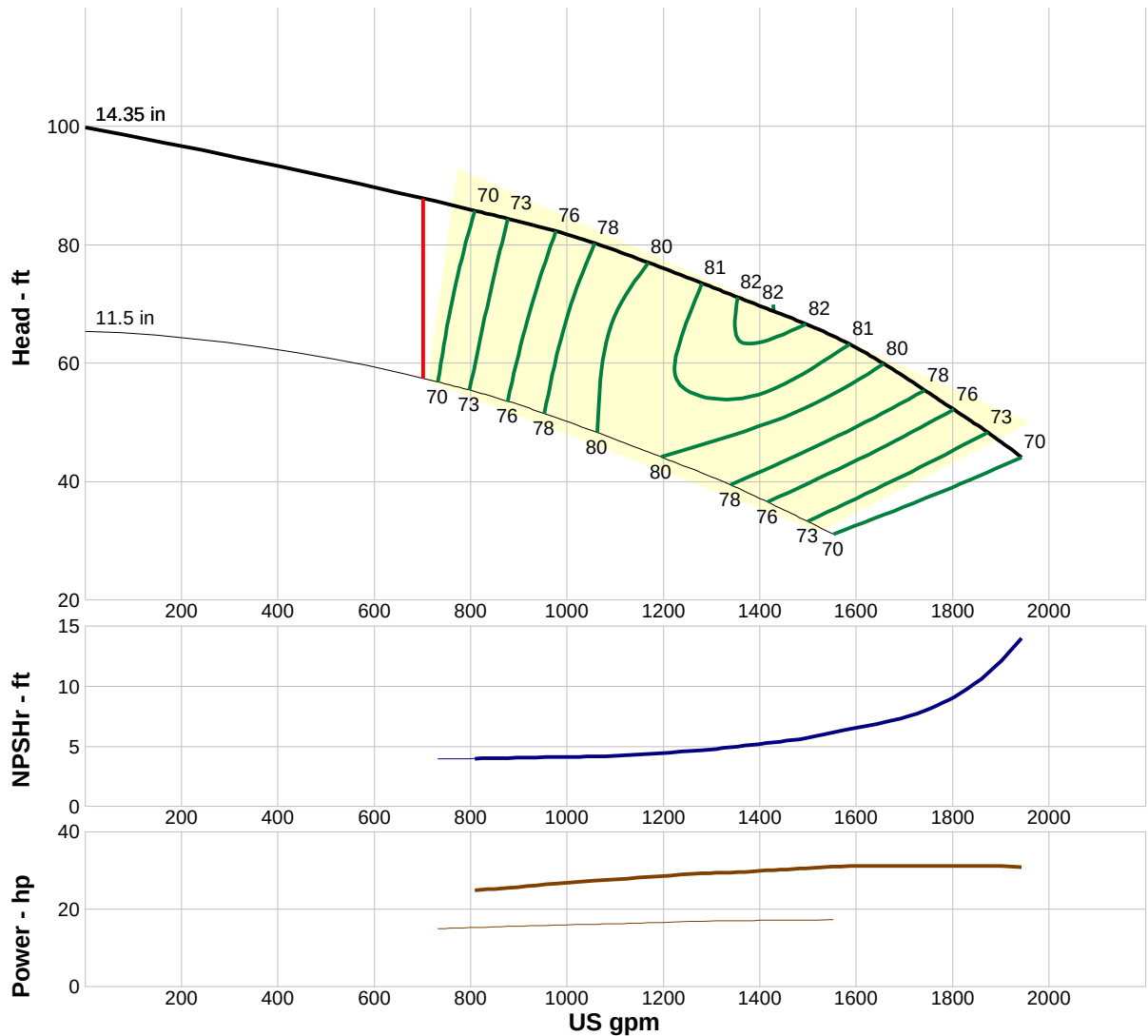
Fluid:

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
Sizing criteria: Max Power on Design Curve
Size: 40 hp
Speed: 1200
Frame: 364T

---- Data Point ----	
Flow:	1428 US gpm
Head:	68.8 ft
Eff:	82%
Power:	30.2 hp
NPSHr:	5.35 ft
---- Design Curve ----	
Shutoff head:	99.8 ft
Shutoff dP:	43.1 psi
Min flow:	700 US gpm
BEP:	82% @ 1428 US gpm
NOL power:	31.3 hp @ 1656 US gpm
-- Max Curve --	
Max power:	31.3 hp @ 1656 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1865	1180	48.7	73	31.3	10.9
1554	1180	64.4	81	31	6.19
1243	1180	74.6	81	29	4.6
932	1180	83.2	75	26.2	4.09
622	1180	---	---	---	---