

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"2823A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 230506A
Specific Speeds:
Dimensions:
Speed: 1180 rpm
Dia: 14.25 in
Impeller: J5H1A1
Ns: 1450
Nss: 6731
Suction: 8 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 0.95 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

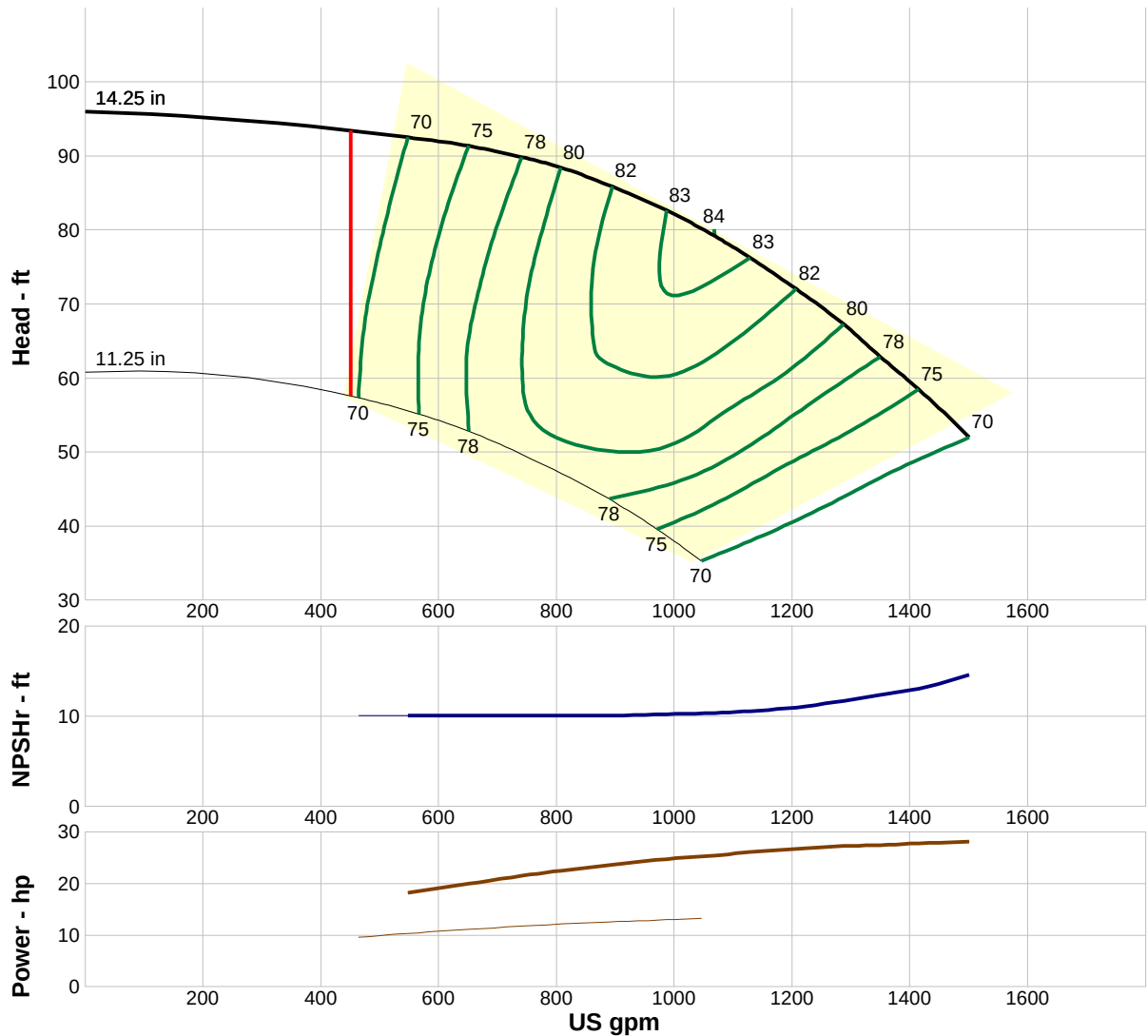
Fluid:

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: 30 hp
Speed: 1200
Frame: 326T

---- Data Point ----	
Flow:	1068 US gpm
Head:	79.2 ft
Eff:	84%
Power:	25.4 hp
NPSHr:	10.4 ft
---- Design Curve ----	
Shutoff head:	96 ft
Shutoff dP:	41.5 psi
Min flow:	450 US gpm
BEP:	84% @ 1068 US gpm
NOL power:	28.1 hp @ 1500 US gpm
-- Max Curve --	
Max power:	28.1 hp @ 1500 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1440	1180	56.5	73	27.9	13.6
1200	1180	72.3	82	26.7	11
960	1180	83.5	83	24.5	10.2
720	1180	90.2	77	21.2	10.1
480	1180	92.9	67	17.1	10.1