

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2823A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 230604A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 13.88 in
Impeller: J6H1A1
Ns: 1836
Nss: 12905
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

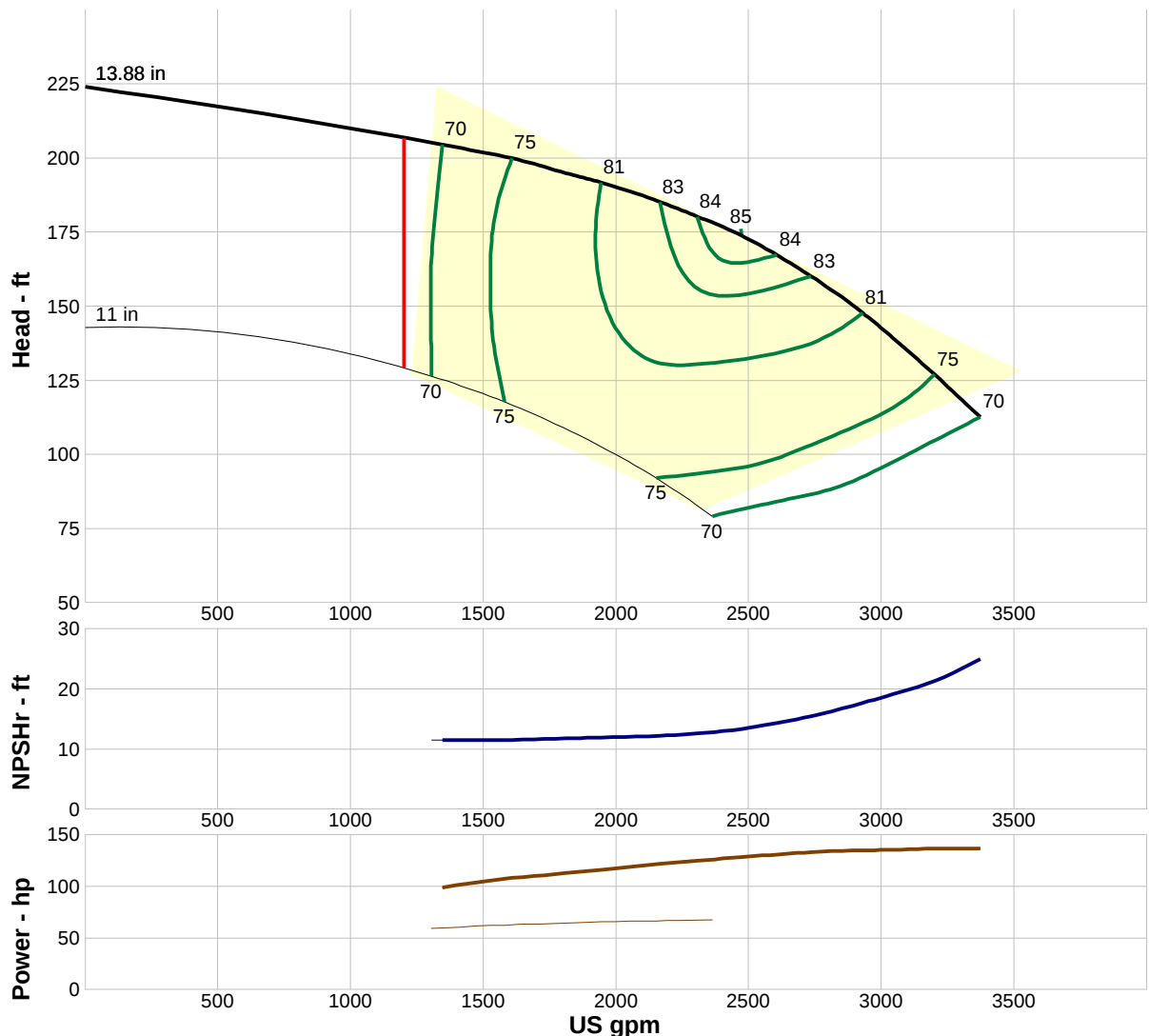
Fluid:

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: 150 hp
Speed: 1800
Frame: 445T

---- Data Point ----	
Flow:	2471 US gpm
Head:	174 ft
Eff:	85%
Power:	128 hp
NPSHr:	13.3 ft
---- Design Curve ----	
Shutoff head:	224 ft
Shutoff dP:	96.8 psi
Min flow:	1200 US gpm
BEP:	85% @ 2471 US gpm
NOL power:	137 hp @ 3371 US gpm
-- Max Curve --	
Max power:	137 hp @ 3371 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3236	1785	124	74	137	22.1
2697	1785	162	83	133	15.1
2158	1785	185	83	122	12.2
1618	1785	200	75	108	11.6
1079	1785	---	---	---	---