

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"2823A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 230804A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 13.88 in
Impeller: J8H1A3
Ns: 2524
Nss: 13238
Suction: 12 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1.12 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

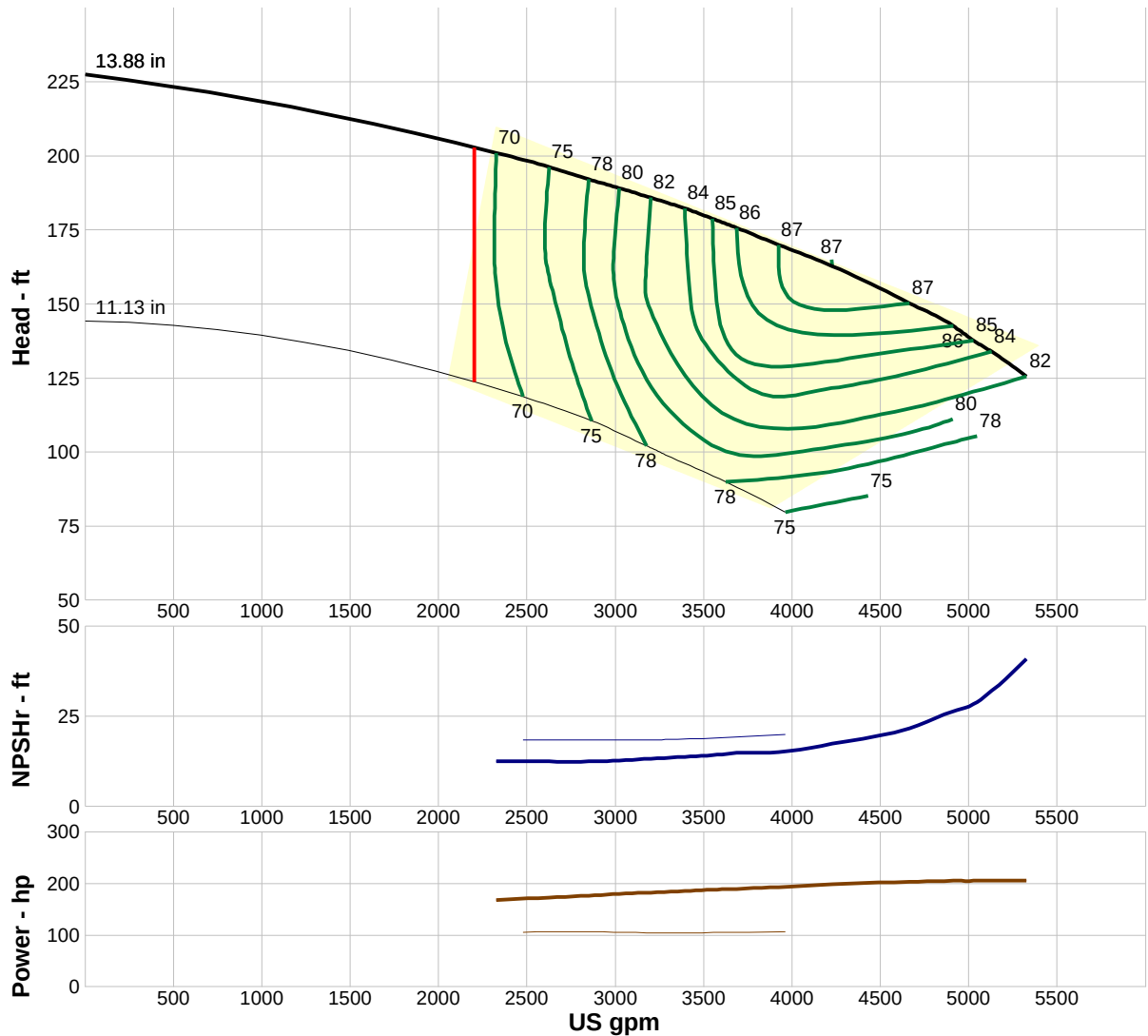
Fluid:

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: 250 hp
Speed: 1800
Frame: 447T

---- Data Point ----	
Flow:	4225 US gpm
Head:	163 ft
Eff:	87%
Power:	199 hp
NPSHr:	17.4 ft
---- Design Curve ----	
Shutoff head:	228 ft
Shutoff dP:	98.3 psi
Min flow:	2200 US gpm
BEP:	87% @ 4225 US gpm
NOL power:	206 hp @ 5127 US gpm
-- Max Curve --	
Max power:	206 hp @ 5127 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
5112	1785	134	84	206	31.6
4260	1785	162	87	200	17.8
3408	1785	182	84	186	13.9
2556	1785	197	74	172	12.5
1704	1785	---	---	---	---