

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2823C
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 230604C
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 14.35 in
Impeller: J6H1C1
Ns: 1843
Nss: 12055
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

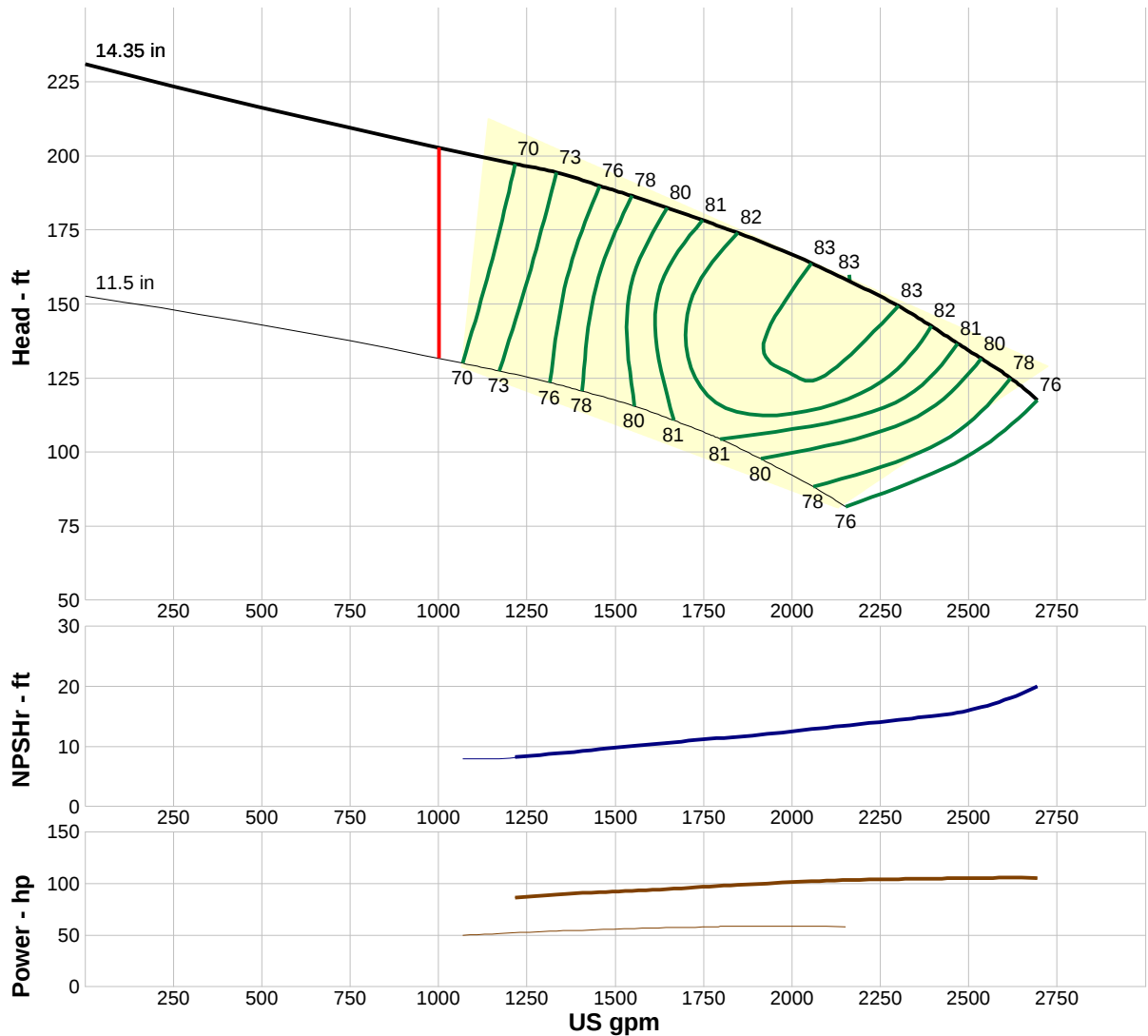
Fluid:

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: 125 hp
Speed: 1800
Frame: 444T

---- Data Point ----	
Flow:	2163 US gpm
Head:	158 ft
Eff:	83%
Power:	104 hp
NPSHr:	13.6 ft
---- Design Curve ----	
Shutoff head:	231 ft
Shutoff dP:	99.8 psi
Min flow:	1000 US gpm
BEP:	83% @ 2163 US gpm
NOL power:	106 hp @ 2617 US gpm
-- Max Curve --	
Max power:	106 hp @ 2617 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2585	1780	128	79	106	17.5
2154	1780	158	83	103	13.5
1723	1780	179	81	96.5	11.1
1292	1780	195	72	88.5	8.65
862	1780	---	---	---	---