

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5824
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 241004W
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 18.13 in
Impeller: D10D1W
Ns: 1685
Nss: 10762
Suction: 12 in
Discharge: 10 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.94 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

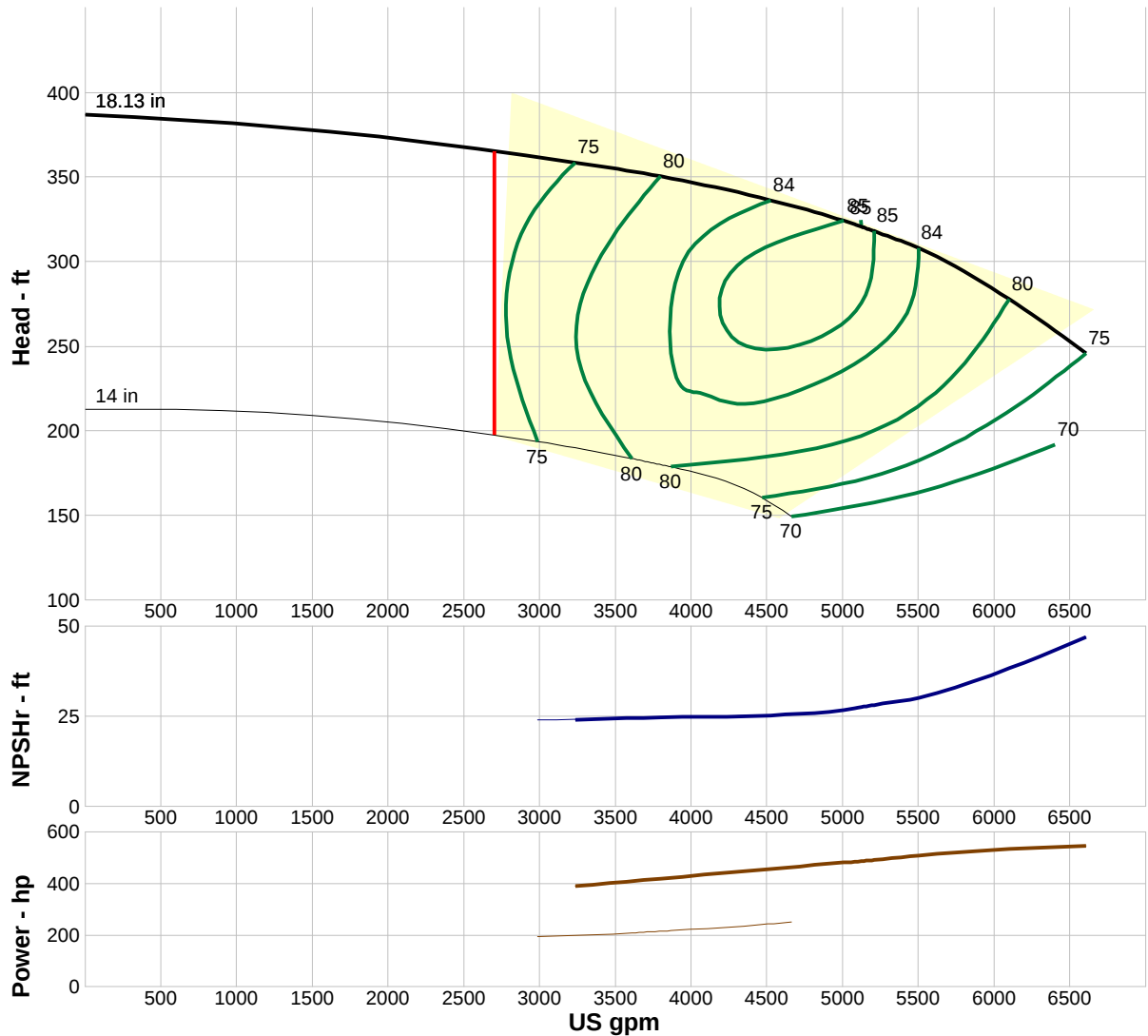
Fluid:

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
--- hp
Speed: ---
Frame: ---

---- Data Point ----	
Flow:	5121 US gpm
Head:	321 ft
Eff:	85%
Power:	487 hp
NPSHr:	27.6 ft
---- Design Curve ----	
Shutoff head:	387 ft
Shutoff dP:	167 psi
Min flow:	2700 US gpm
BEP:	85% @ 5121 US gpm
NOL power:	546 hp @ 6603 US gpm
-- Max Curve --	
Max power:	546 hp @ 6603 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6338	1785	263	78	540	42.5
5282	1785	315	85	496	28.7
4226	1785	342	82	442	25.1
3169	1785	359	74	387	24
2113	1785	---	---	---	---