

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5824
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 241006W
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 18.125 in
Impeller: D10D1W
Ns: 1695
Nss: 10240
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

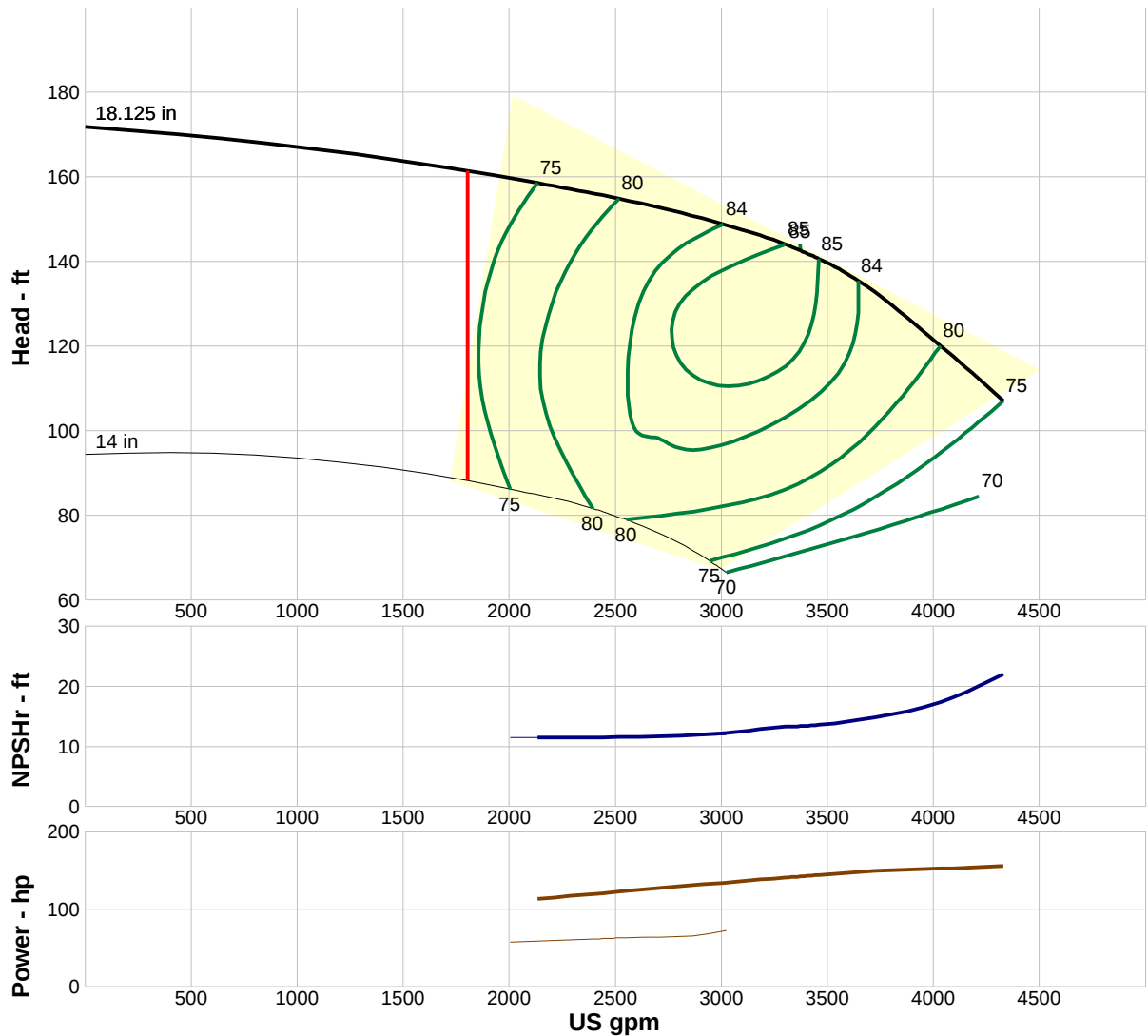
Fluid:

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
Size: 200 hp
Speed: 1200
Frame: 447T

---- Data Point ----	
Flow:	3370 US gpm
Head:	143 ft
Eff:	85%
Power:	143 hp
NPSHr:	13.4 ft
---- Design Curve ----	
Shutoff head:	172 ft
Shutoff dP:	74.3 psi
Min flow:	1800 US gpm
BEP:	85% @ 3370 US gpm
NOL power:	156 hp @ 4328 US gpm
-- Max Curve --	
Max power:	156 hp @ 4328 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4154	1185	115	78	154	19.3
3462	1185	141	85	145	13.6
2770	1185	152	82	129	11.9
2077	1185	159	74	113	11.5
1385	1185	---	---	---	---