

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 10"2825C
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 251006C
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 17.81 in
 Impeller: J8L1C1
 Ns: 1774
 Nss: 16056
 Suction: 12 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 275 psi g
 Sphere size: 1.12 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

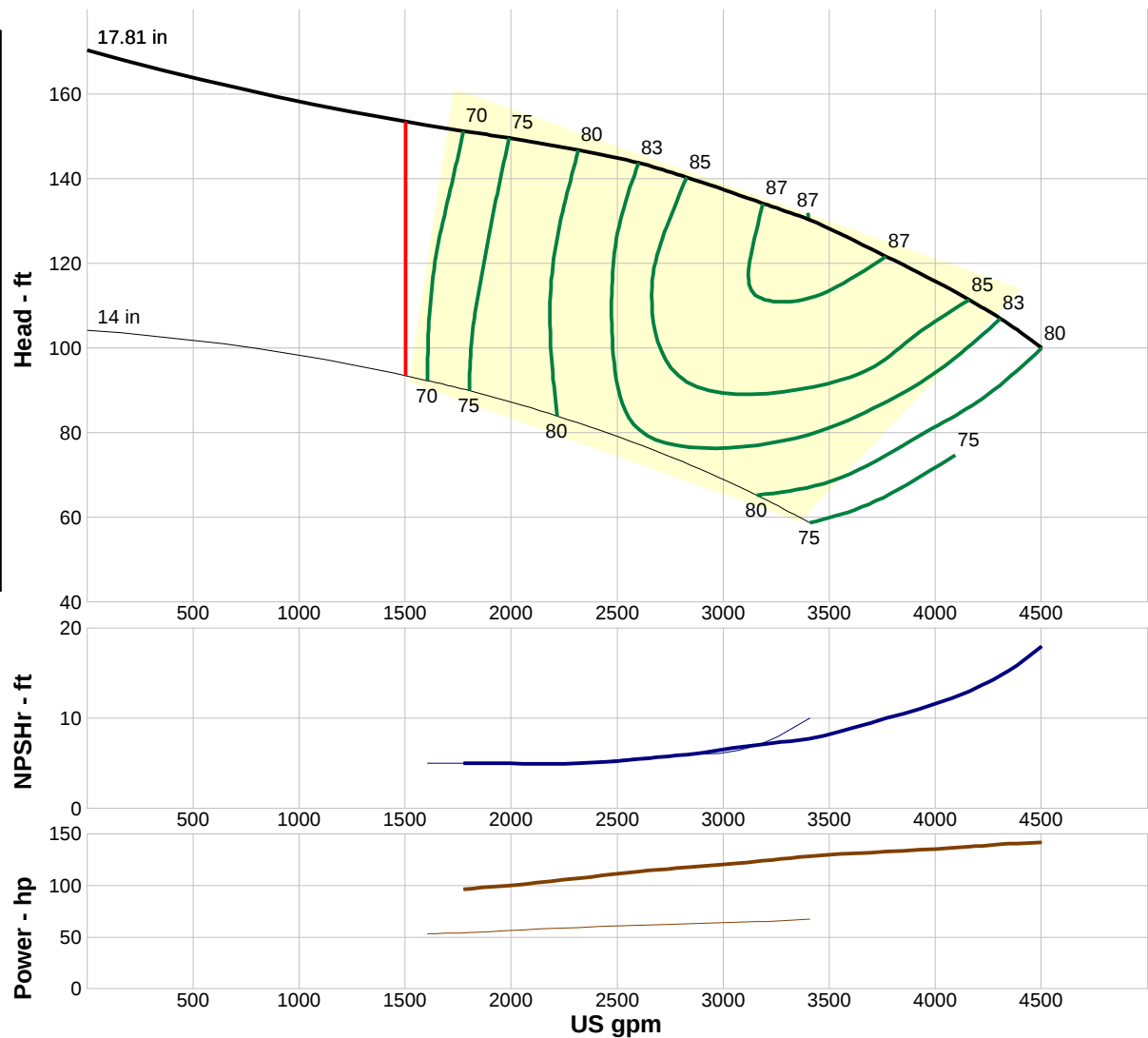
Fluid:

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: 150 hp
 Speed: 1200
 Frame: 447T

---- Data Point ----	
Flow:	3400 US gpm
Head:	130 ft
Eff:	87%
Power:	129 hp
NPSHr:	7.76 ft
---- Design Curve ----	
Shutoff head:	170 ft
Shutoff dP:	73.7 psi
Min flow:	1500 US gpm
BEP:	87% @ 3400 US gpm
NOL power:	142 hp @ 4500 US gpm
-- Max Curve --	
Max power:	142 hp @ 4500 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4320	1185	106	83	140	15
3600	1185	126	87	131	8.99
2880	1185	139	85	119	6.18
2160	1185	148	78	104	5
1440	1185	---	---	---	---