

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5826
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 260806A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 24 in
Impeller: D8F1A
Ns: 1107
Nss: 12175
Suction: 12 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

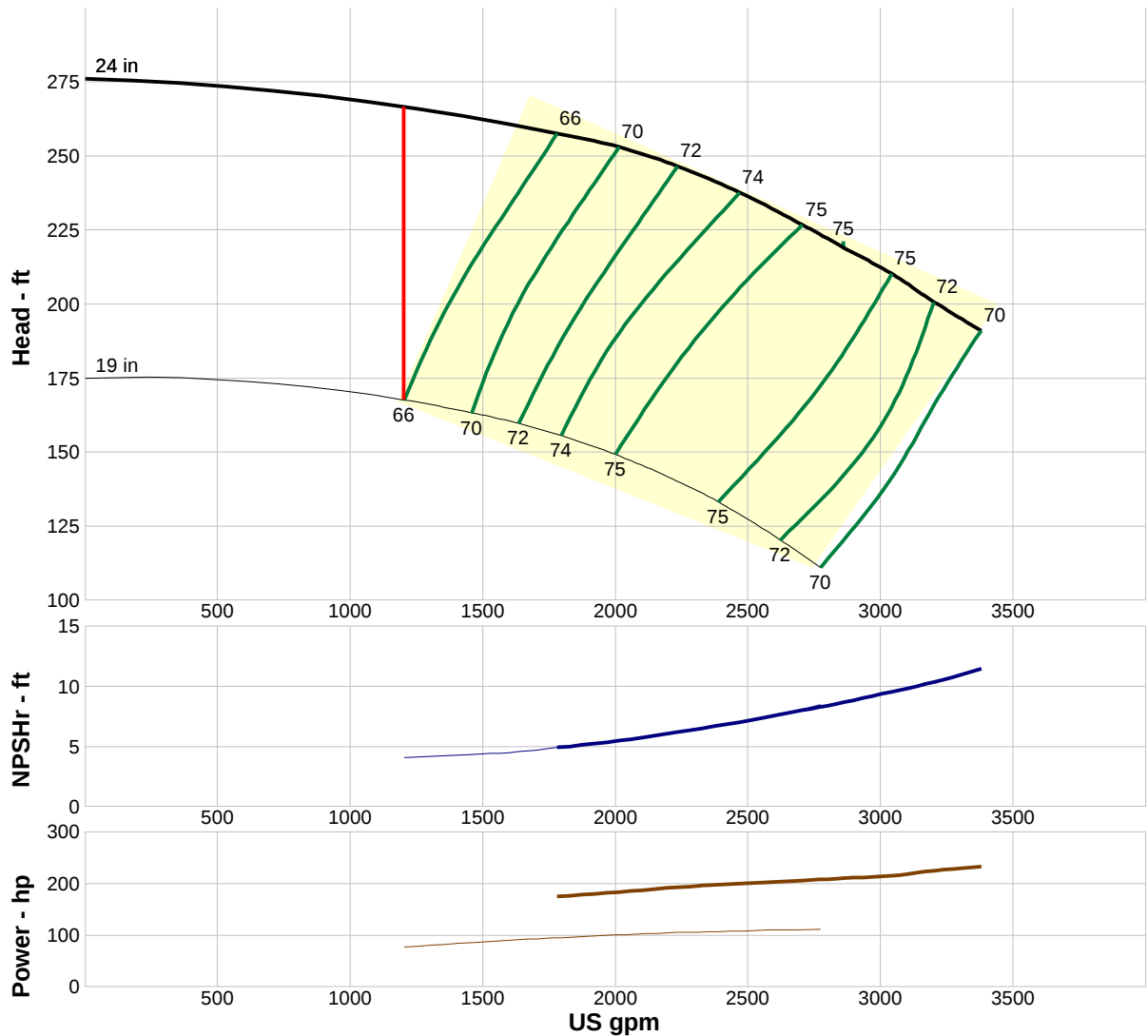
Fluid:

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: 250 hp
Speed: 1200
Frame: 449T

---- Data Point ----	
Flow:	2861 US gpm
Head:	219 ft
Eff:	75%
Power:	211 hp
NPSHr:	8.68 ft
---- Design Curve ----	
Shutoff head:	276 ft
Shutoff dP:	119 psi
Min flow:	1200 US gpm
BEP:	75% @ 2861 US gpm
NOL power:	233 hp @ 3378 US gpm
-- Max Curve --	
Max power:	233 hp @ 3378 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3242	1185	198	72	227	10.6
2702	1185	227	75	206	8
2162	1185	249	71	190	5.97
1621	1185	259	63	170	4.54
1081	1185	---	---	---	---