

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5822
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 220806R
Specific Speeds:
Dimensions:
Speed: 1180 rpm
Dia: 12.5 in
Impeller: D8B1R
Ns: 2223
Nss: 12503
Suction: 10 in
Discharge: 8 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

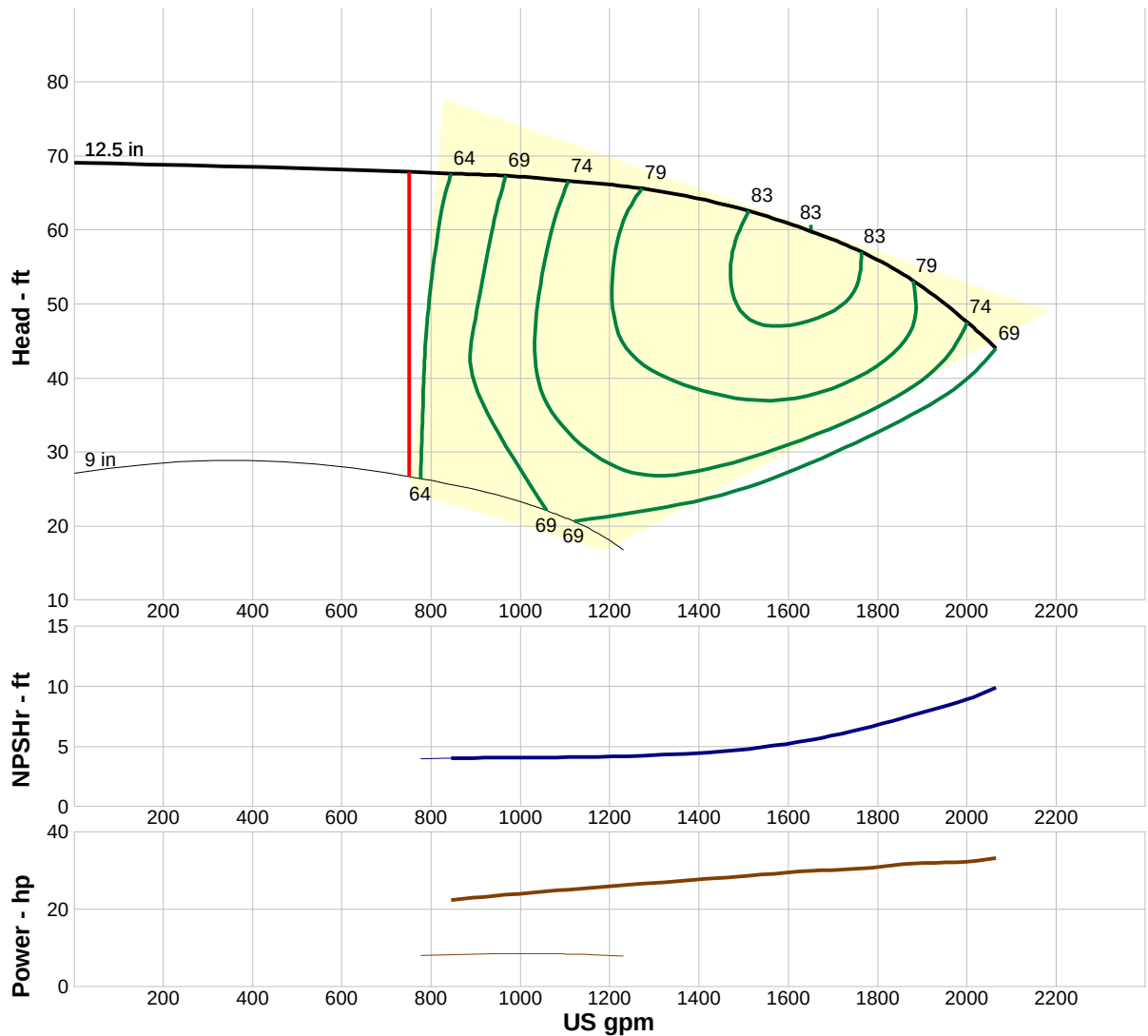
Fluid:

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: 40 hp
Speed: 1200
Frame: 364T

---- Data Point ----	
Flow:	1650 US gpm
Head:	59.8 ft
Eff:	83%
Power:	30 hp
NPSHr:	5.56 ft
---- Design Curve ----	
Shutoff head:	69.1 ft
Shutoff dP:	29.8 psi
Min flow:	750 US gpm
BEP:	83% @ 1650 US gpm
NOL power:	33.3 hp @ 2064 US gpm
-- Max Curve --	
Max power:	33.3 hp @ 2064 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1981	1180	48.4	75	32.3	8.73
1651	1180	59.8	83	30	5.57
1321	1180	65	80	27.1	4.36
991	1180	67.2	70	24	4.09
660	1180	---	---	---	---