

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 2"5874
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 740204B
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 9 in
Impeller: G2A1B
Ns: 992
Nss: 5030
Suction: 3 in
Discharge: 2 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.25 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

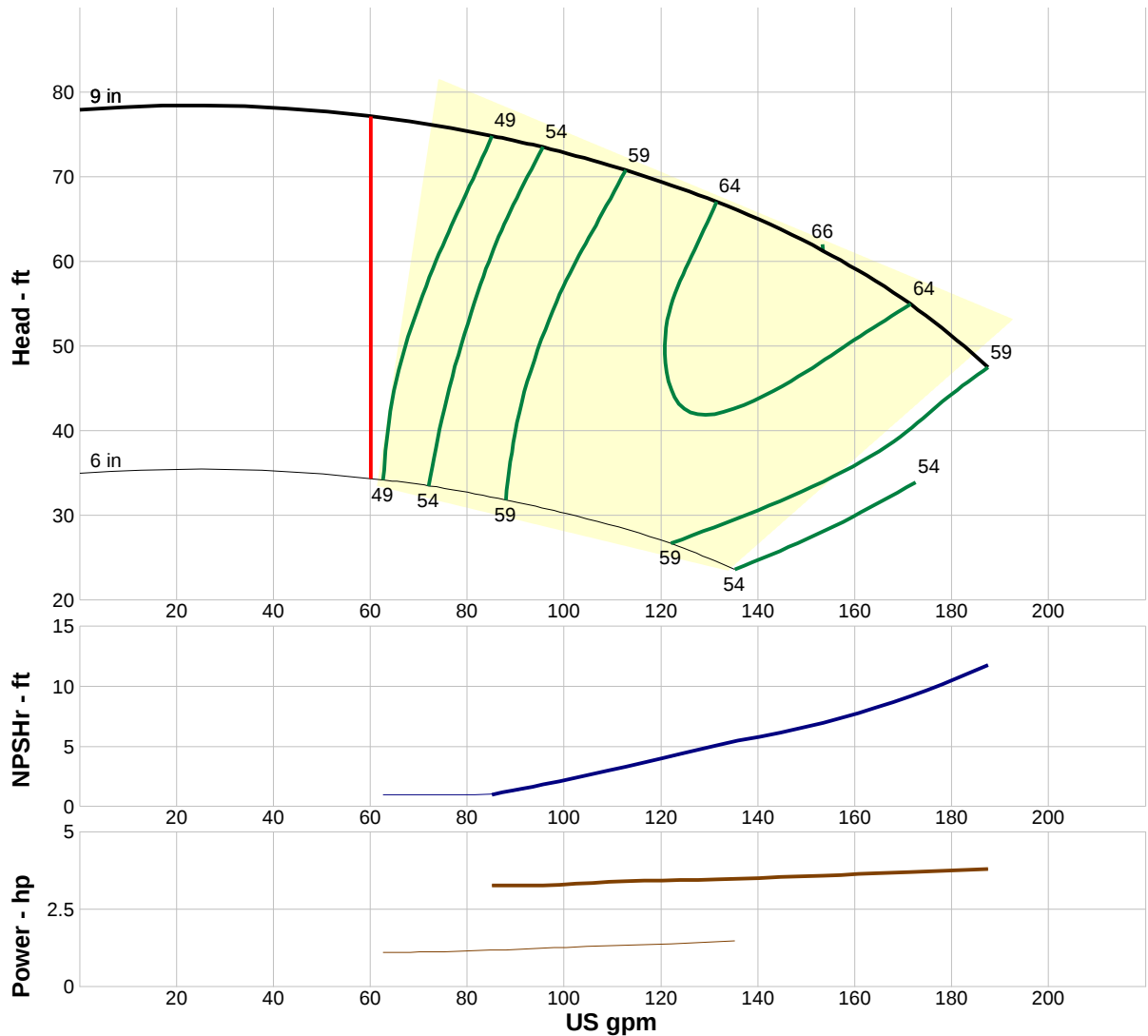
Fluid:

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: 5 hp
Speed: 1800
Frame: 184T

---- Data Point ----	
Flow:	153 US gpm
Head:	61.4 ft
Eff:	66%
Power:	3.59 hp
NPSHr:	6.94 ft
---- Design Curve ----	
Shutoff head:	78 ft
Shutoff dP:	33.7 psi
Min flow:	60 US gpm
BEP:	66% @ 153 US gpm
NOL power:	3.81 hp @ 187 US gpm
-- Max Curve --	
Max power:	3.81 hp @ 187 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
180	1750	51	61	3.77	10.6
150	1750	62.2	66	3.58	6.68
120	1750	69.3	61	3.44	4.02
90	1750	74.2	51	3.28	1.4
60	1750	75.8	37	3.27	-1.01