

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"5874
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 740404A
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 9 in
 Impeller: G4A1A
 Ns: 1433
 Nss: 11104
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.5 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

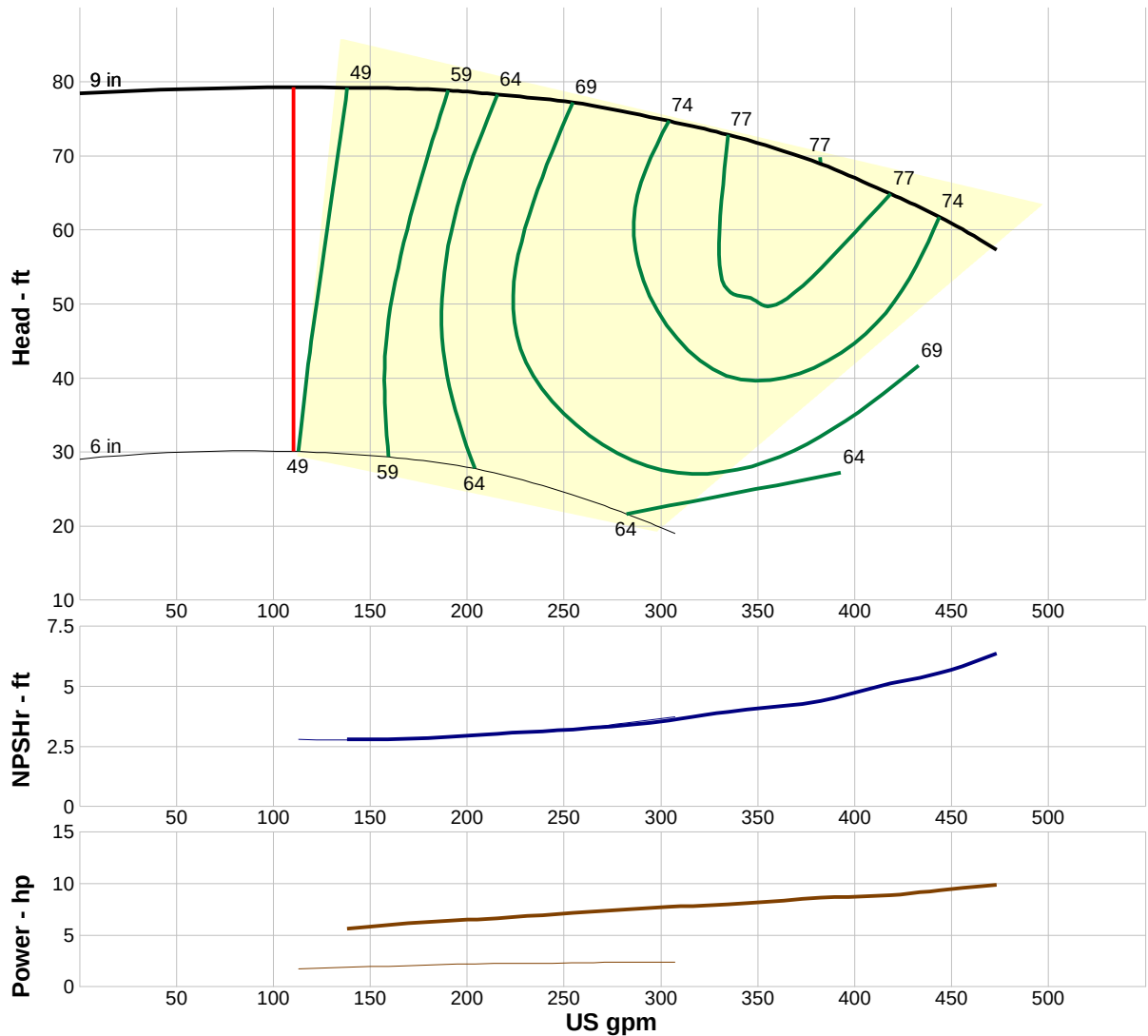
Fluid:

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: 10 hp
 Speed: 1800
 Frame: 215T

---- Data Point ----	
Flow:	382 US gpm
Head:	68.9 ft
Eff:	77%
Power:	8.62 hp
NPSHr:	4.4 ft
---- Design Curve ----	
Shutoff head:	78.4 ft
Shutoff dP:	33.9 psi
Min flow:	110 US gpm
BEP:	77% @ 382 US gpm
NOL power:	9.9 hp @ 473 US gpm
-- Max Curve --	
Max power:	9.9 hp @ 473 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
454	1760	60.2	72	9.55	5.85
378	1760	69.3	77	8.57	4.36
302	1760	74.8	74	7.72	3.58
227	1760	78	66	6.81	3.08
151	1760	79.1	52	5.83	2.82