

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 10"5821
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 211008E
 Specific Speeds:
 Dimensions:
 Speed: 880 rpm
 Dia: 14 in
 Impeller: D10C1A
 Ns: 2760
 Nss: 10479
 Suction: 12 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1.13 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

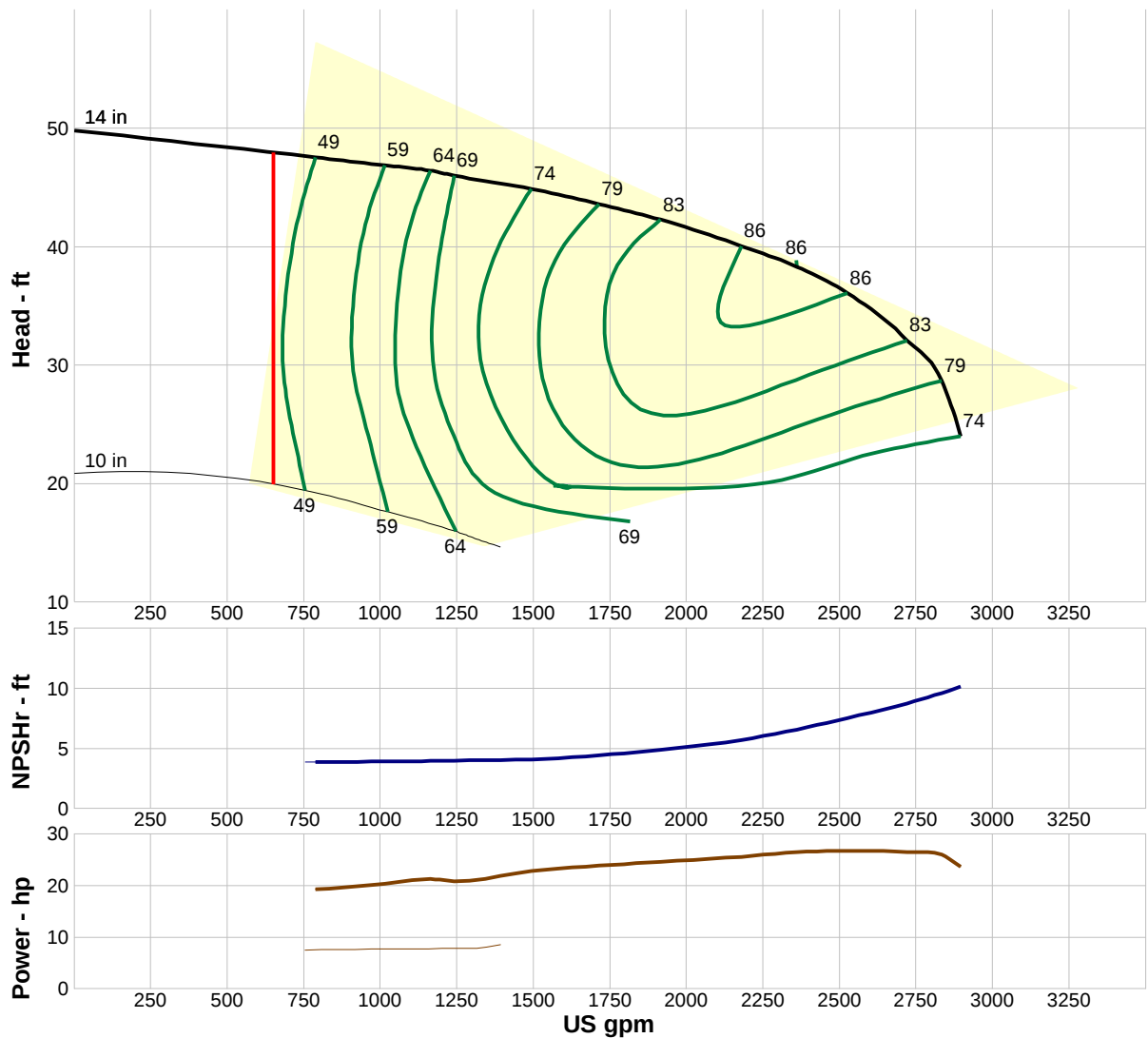
Fluid:

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: 30 hp
 Speed: 900
 Frame: 364T

---- Data Point ----	
Flow:	2359 US gpm
Head:	38.3 ft
Eff:	86%
Power:	26.5 hp
NPSHr:	6.58 ft
---- Design Curve ----	
Shutoff head:	49.8 ft
Shutoff dP:	21.5 psi
Min flow:	650 US gpm
BEP:	86% @ 2359 US gpm
NOL power:	26.8 hp @ 2524 US gpm
-- Max Curve --	
Max power:	26.8 hp @ 2524 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2779	880	30.3	81	26.3	9.21
2316	880	38.7	86	26.3	6.37
1853	880	42.7	82	24.4	4.74
1390	880	45.3	72	22.1	4.05
926	880	47.1	55	19.9	3.91