

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 6"2821A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 210604A
 Specific Speeds:
 Dimensions:
 Speed: 1775 rpm
 Dia: 9.44 in
 Impeller: J6C1A1
 Ns: 3197
 Nss: 10112
 Suction: 8 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.88 in

Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm

Head: --- ft

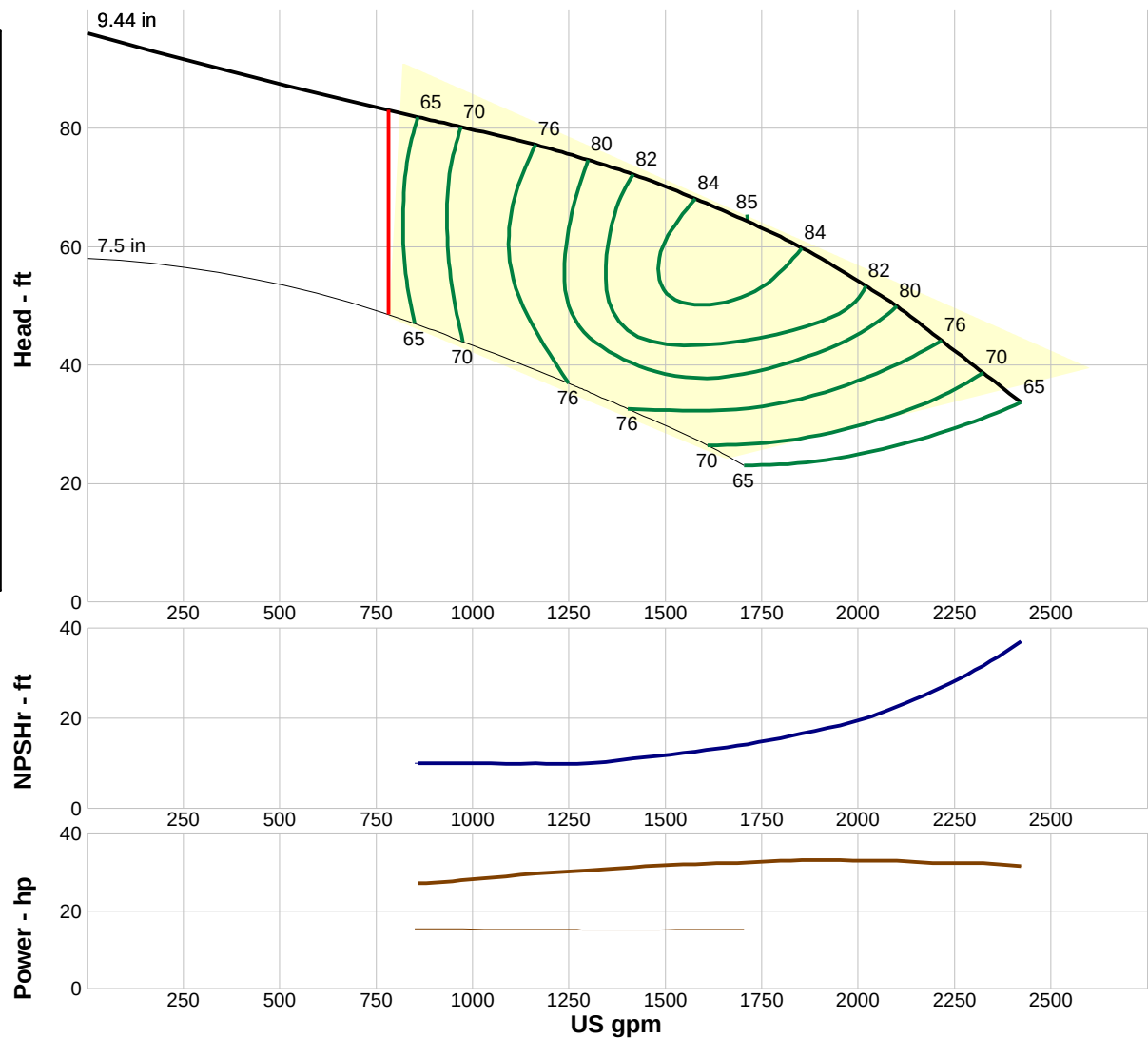
Fluid:

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: 1800
 Frame: 324T

---- Data Point ----	
Flow:	1712 US gpm
Head:	64.3 ft
Eff:	85%
Power:	32.7 hp
NPSHr:	14.3 ft
---- Design Curve ----	
Shutoff head:	96 ft
Shutoff dP:	41.5 psi
Min flow:	780 US gpm
BEP:	85% @ 1712 US gpm
NOL power:	33.3 hp @ 1853 US gpm
-- Max Curve --	
Max power:	33.3 hp @ 1853 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2324	1775	38.7	70	32.4	31.8
1937	1775	56.5	83	33.2	18.4
1550	1775	68.8	84	32.1	12.4
1162	1775	77.2	76	29.8	10
775	1775	---	---	---	---