

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 5"2876A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 760504A
 Specific Speeds:
 Dimensions:
 Speed: 1780 rpm
 Dia: 11.25 in
 Impeller: J5E1A1
 Ns: 10283
 Nss: 12633
 Suction: 8 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.75 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

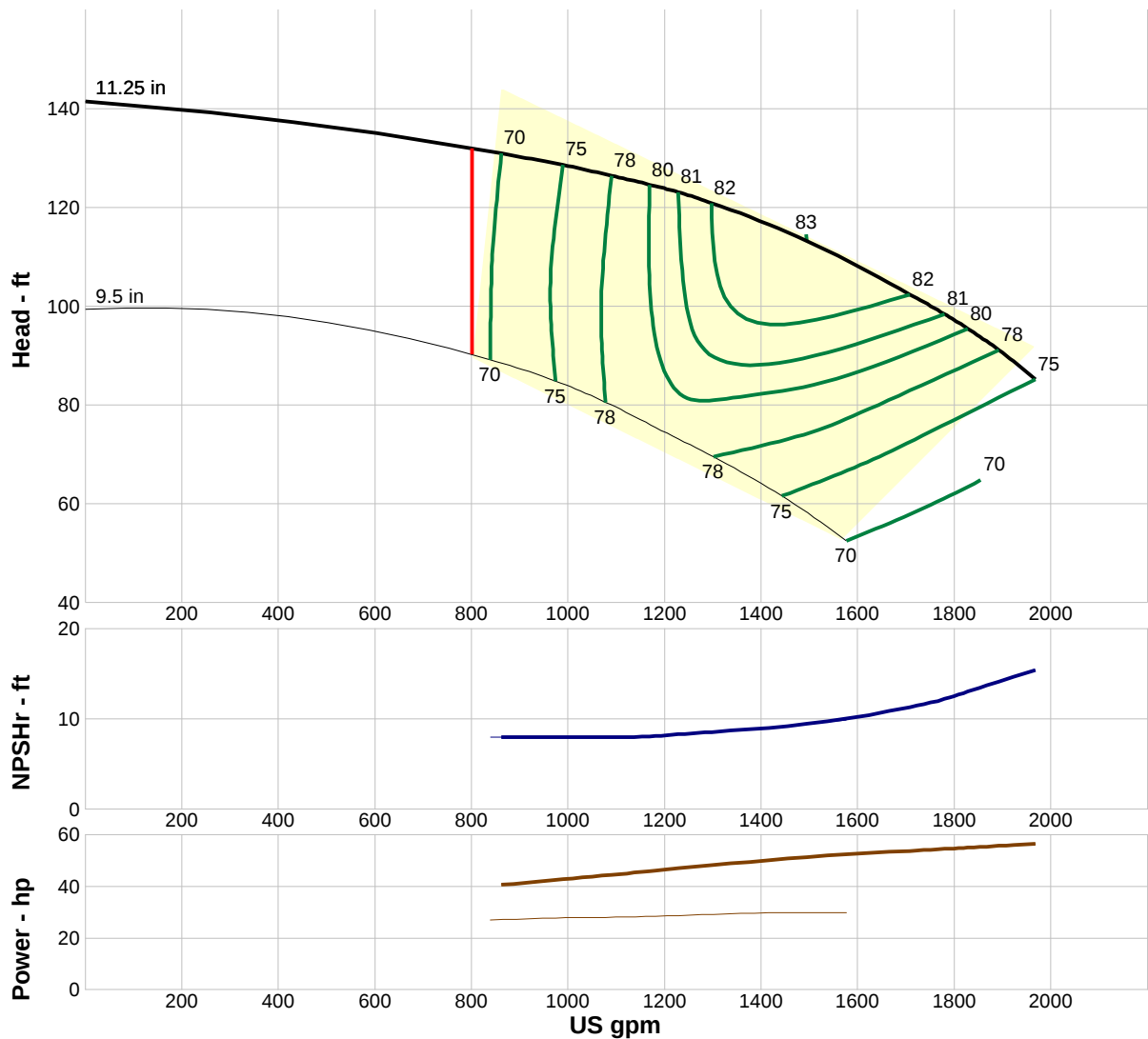
Fluid:

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: 60 hp
 Speed: 1800
 Frame: 364T

---- Data Point ----	
Flow:	1494 US gpm
Head:	113 ft
Eff:	83%
Power:	51.5 hp
NPSHr:	9.47 ft
---- Design Curve ----	
Shutoff head:	141 ft
Shutoff dP:	61.1 psi
Min flow:	800 US gpm
BEP:	83% @ 1494 US gpm
NOL power:	56.5 hp @ 1967 US gpm
-- Max Curve --	
Max power:	56.5 hp @ 1967 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1889	1780	91.3	78	55.8	14.1
1574	1780	109	83	52.3	10.2
1259	1780	122	81	47.6	8.43
944	1780	129	73	42	8
630	1780	---	---	---	---