

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"2822A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 220804A
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 11.47 in
Impeller: J8E1A1
Ns: 3194
Nss: 10479
Suction: 8 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 1.25 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

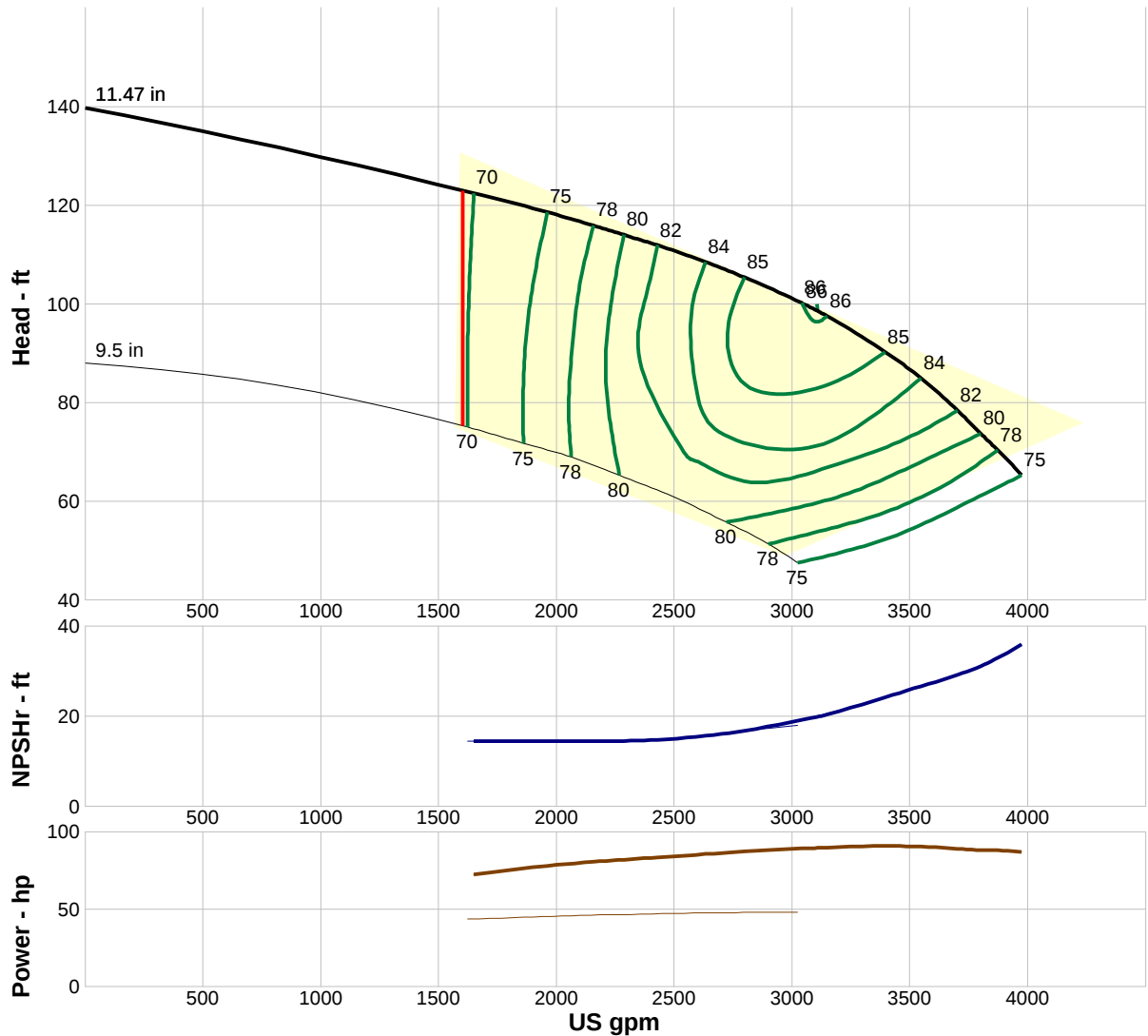
Fluid:

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: 100 hp
Speed: 1800
Frame: 405T

---- Data Point ----	
Flow:	3106 US gpm
Head:	98.6 ft
Eff:	86%
Power:	89.8 hp
NPSHr:	19.9 ft
---- Design Curve ----	
Shutoff head:	140 ft
Shutoff dP:	60.4 psi
Min flow:	1600 US gpm
BEP:	86% @ 3106 US gpm
NOL power:	91 hp @ 3393 US gpm
-- Max Curve --	
Max power:	91 hp @ 3393 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3814	1780	73	80	88.4	31.6
3178	1780	96.6	86	90.2	20.9
2542	1780	110	83	84.9	15.3
1907	1780	119	74	77.3	14.5
1271	1780	---	---	---	---