

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5821
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 211004E
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 11.75 in
Impeller: D10C1E
Ns: 3258
Nss: 12890
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

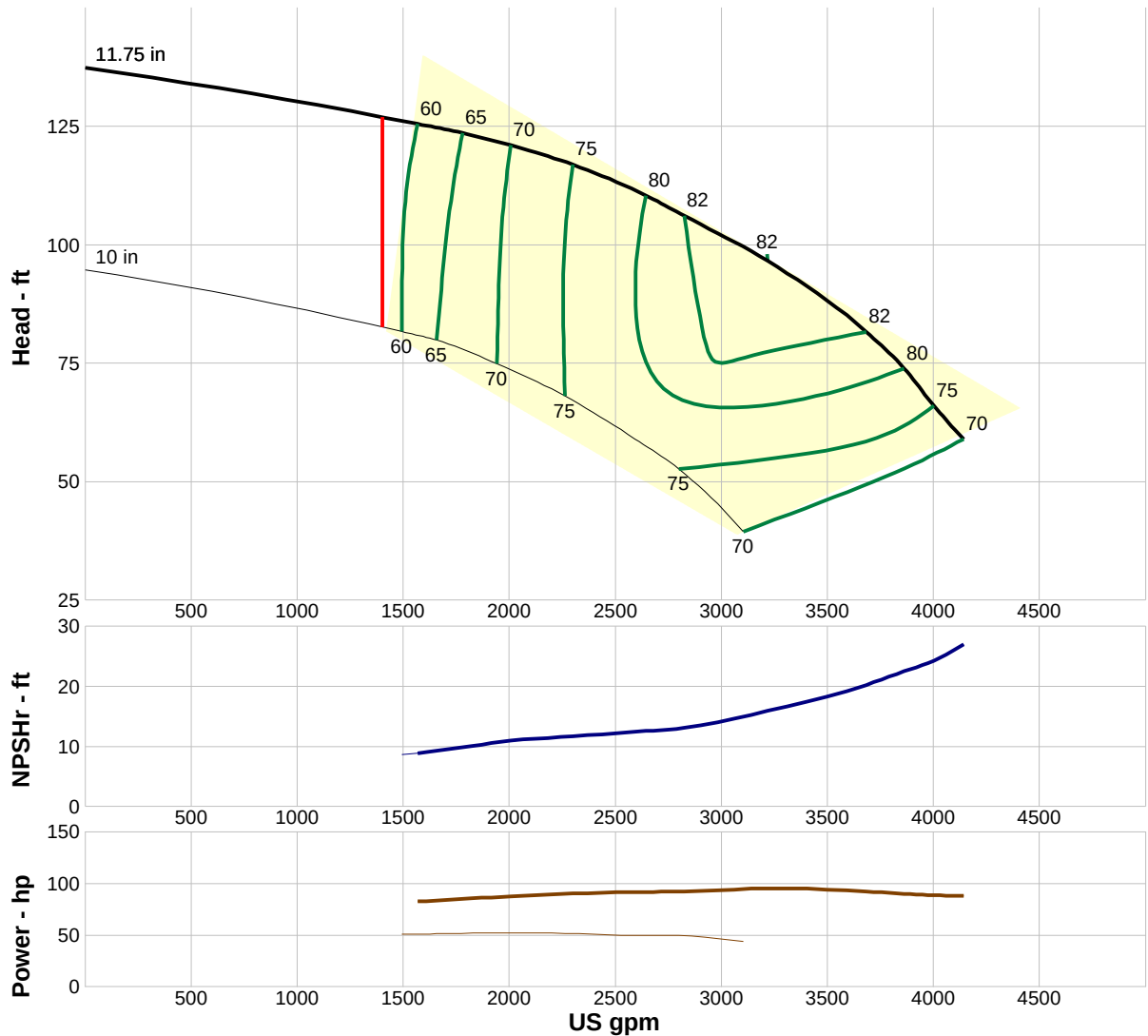
Fluid:

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: 100 hp
Speed: 1800
Frame: 405T

---- Data Point ----	
Flow:	3216 US gpm
Head:	96.6 ft
Eff:	82%
Power:	95.5 hp
NPSHr:	15.9 ft
---- Design Curve ----	
Shutoff head:	137 ft
Shutoff dP:	59.4 psi
Min flow:	1400 US gpm
BEP:	82% @ 3216 US gpm
NOL power:	95.5 hp @ 3216 US gpm
-- Max Curve --	
Max power:	95.5 hp @ 3216 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3974	1780	67.5	76	89.1	24
3312	1780	93.5	82	94.9	16.8
2650	1780	110	80	92	12.6
1987	1780	121	70	87.3	10.9
1325	1780	---	---	---	---