

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5824
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 240806G
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 18.5 in
Impeller: D8D1G
Ns: 1252
Nss: 12159
Suction: 10 in
Discharge: 8 in

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

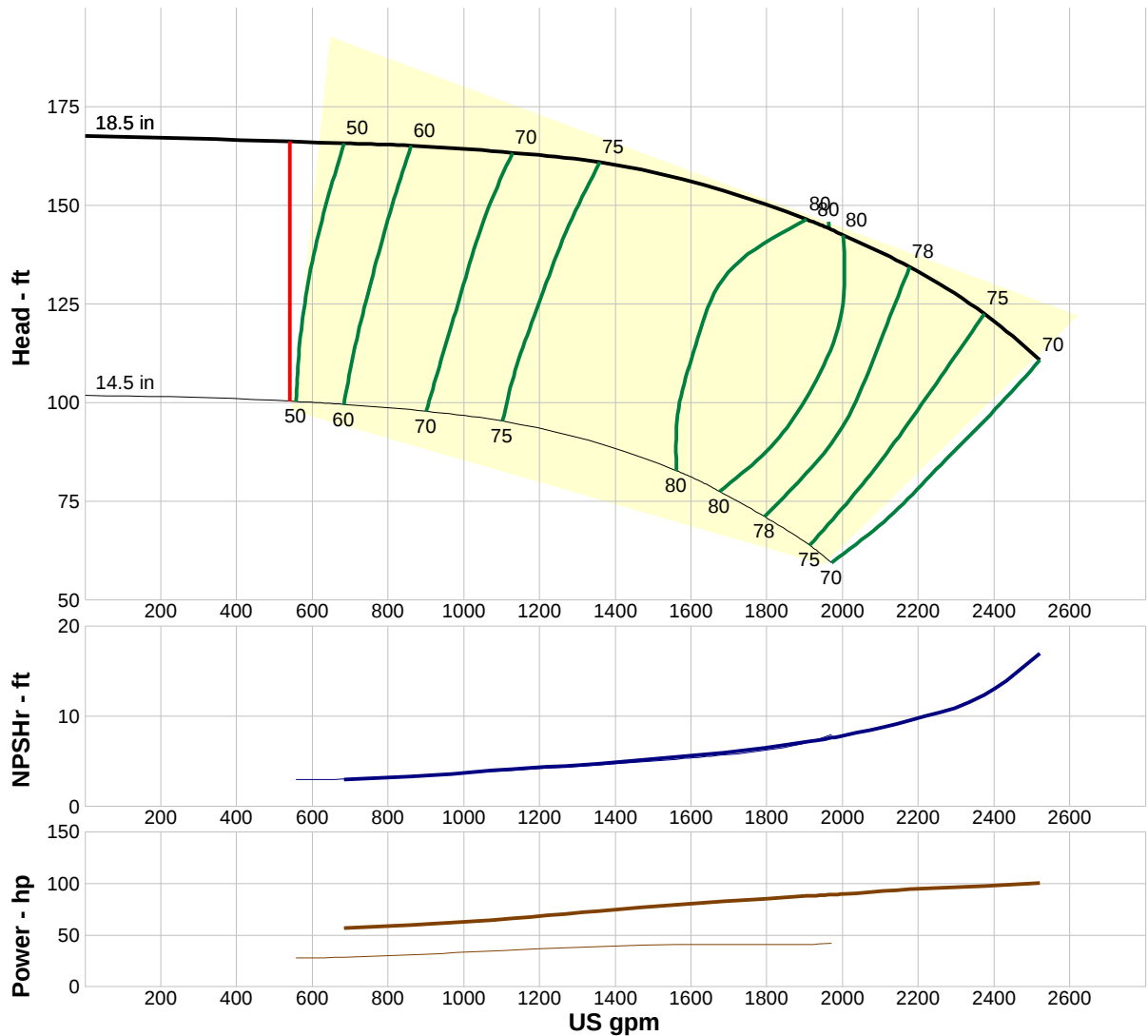
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 125 hp
Speed: 1200
Frame: 445T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.69 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	1963 US gpm
Head:	144 ft
Eff:	80%
Power:	89.2 hp
NPSHr:	7.58 ft
---- Design Curve ----	
Shutoff head:	168 ft
Shutoff dP:	72.4 psi
Min flow:	540 US gpm
BEP:	80% @ 1963 US gpm
NOL power:	101 hp @ 2520 US gpm
-- Max Curve --	
Max power:	101 hp @ 2520 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2419	1185	119	73	98.8	13.8
2016	1185	142	80	90.4	8.03
1613	1185	154	77	80.3	5.91
1210	1185	162	72	69	4.38
806	1185	165	57	58.9	3.23