

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5823
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 230804F
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 14.5 in
 Impeller: D8A1F
 Ns: 1779
 Nss: 11156
 Suction: 10 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.94 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

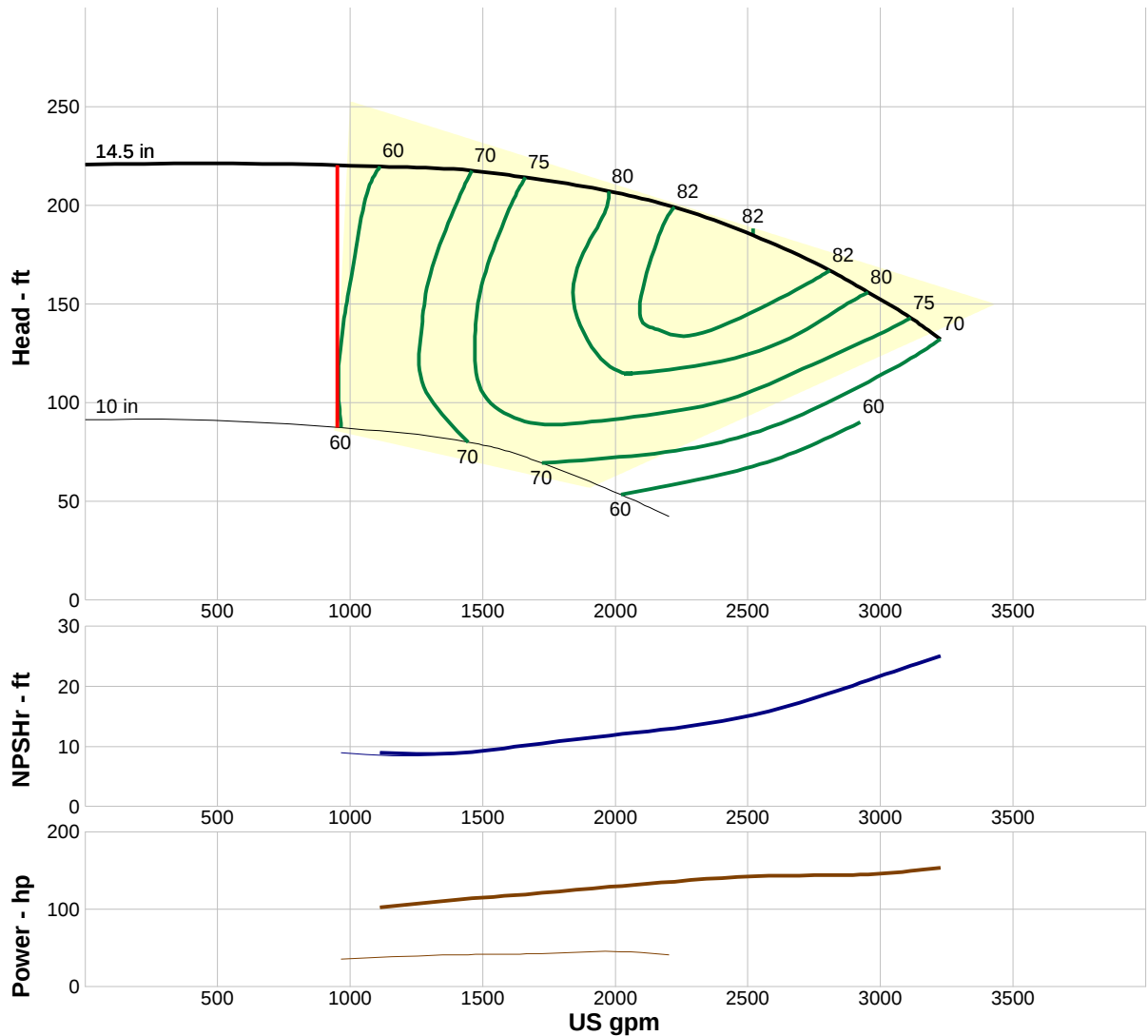
Fluid:

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: 200 hp
 Speed: 1800
 Frame: 447T

---- Data Point ----	
Flow:	2519 US gpm
Head:	185 ft
Eff:	82%
Power:	143 hp
NPSHr:	15.3 ft
---- Design Curve ----	
Shutoff head:	221 ft
Shutoff dP:	95.3 psi
Min flow:	950 US gpm
BEP:	82% @ 2519 US gpm
NOL power:	154 hp @ 3224 US gpm
-- Max Curve --	
Max power:	154 hp @ 3224 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3095	1785	144	76	149	23.2
2579	1785	181	82	143	16
2063	1785	204	81	132	12.3
1547	1785	216	72	117	9.58
1032	1785	220	58	100	8.98