

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5826
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 261006A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 25.5 in
 Impeller: D10F1A
 Ns: 1341
 Nss: 8210
 Suction: 14 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 1.38 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

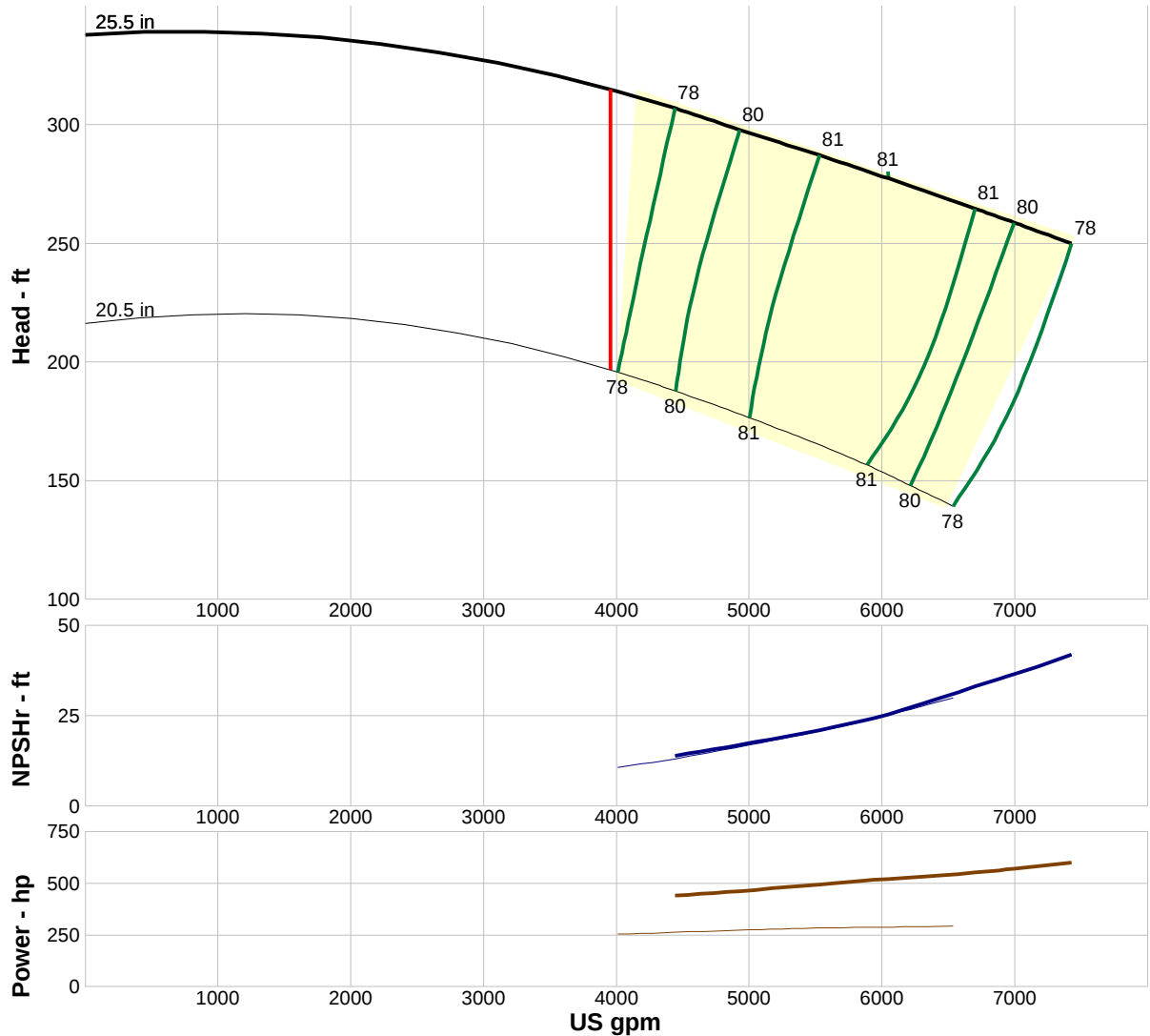
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	6045 US gpm
Head:	277 ft
Eff:	81%
Power:	522 hp
NPSHr:	25.5 ft
---- Design Curve ----	
Shutoff head:	338 ft
Shutoff dP:	146 psi
Min flow:	3950 US gpm
BEP:	81% @ 6045 US gpm
NOL power:	601 hp @ 7426 US gpm
-- Max Curve --	
Max power:	601 hp @ 7426 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7129	1185	256	79	580	38.2
5941	1185	279	81	516	24.6
4753	1185	301	79	455	15.9
3565	1185	---	---	---	---
2376	1185	---	---	---	---