

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 10"5825
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 251008A
 Specific Speeds:
 Dimensions:
 Speed: 890 rpm
 Dia: 30.5 in
 Impeller: D10E1A
 Ns: 1141
 Nss: 17523
 Suction: 14 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 1.44 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

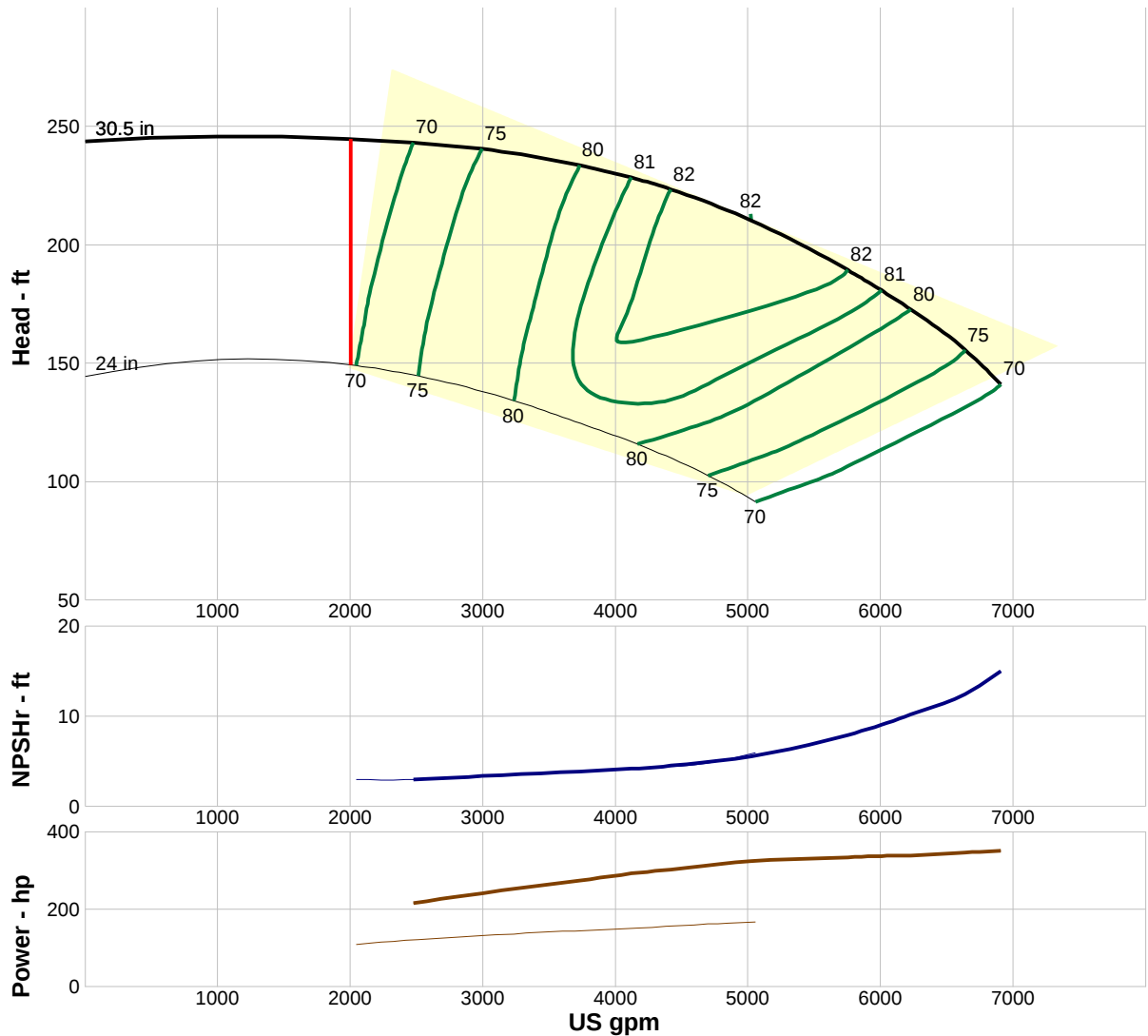
Fluid:

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:	5023 US gpm
Head:	210 ft
Eff:	82%
Power:	325 hp
NPSHr:	5.58 ft
---- Design Curve ----	
Shutoff head:	244 ft
Shutoff dP:	105 psi
Min flow:	2000 US gpm
BEP:	82% @ 5023 US gpm
NOL power:	351 hp @ 6905 US gpm
-- Max Curve --	
Max power:	351 hp @ 6905 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6629	890	156	75	348	12.5
5524	890	196	82	332	7.22
4419	890	223	82	304	4.54
3314	890	237	77	256	3.6
2210	890	243	67	204	2.81