

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 6"5826
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 260606A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 23 in
 Impeller: D6F1A
 Ns: 777
 Nss: 8024
 Suction: 10 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

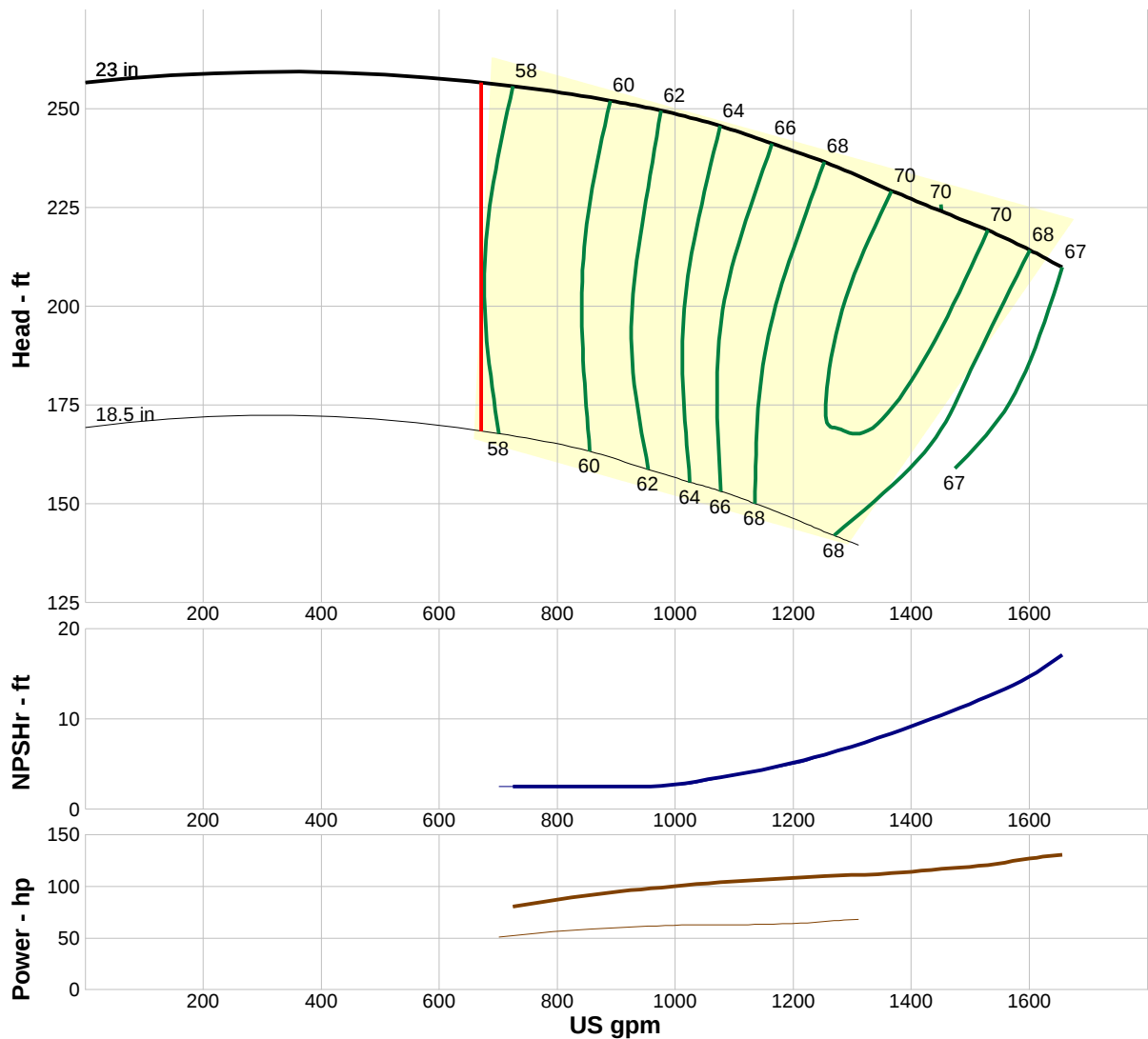
Fluid:

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: 150 hp
 Speed: 1200
 Frame: 447T

---- Data Point ----	
Flow:	1450 US gpm
Head:	224 ft
Eff:	70%
Power:	117 hp
NPSHr:	10.4 ft
---- Design Curve ----	
Shutoff head:	257 ft
Shutoff dP:	111 psi
Min flow:	670 US gpm
BEP:	70% @ 1450 US gpm
NOL power:	131 hp @ 1655 US gpm
-- Max Curve --	
Max power:	131 hp @ 1655 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1589	1185	215	68	126	14.4
1324	1185	232	69	112	7.56
1059	1185	246	64	103	3.4
794	1185	254	59	86.4	2.53
530	1185	---	---	---	---