

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 4"5823
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 230406C
 Specific Speeds:
 Dimensions:
 Speed: 1175 rpm
 Dia: 14.38 in
 Impeller: D4A1C
 Ns: 950
 Nss: 5740
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.44 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

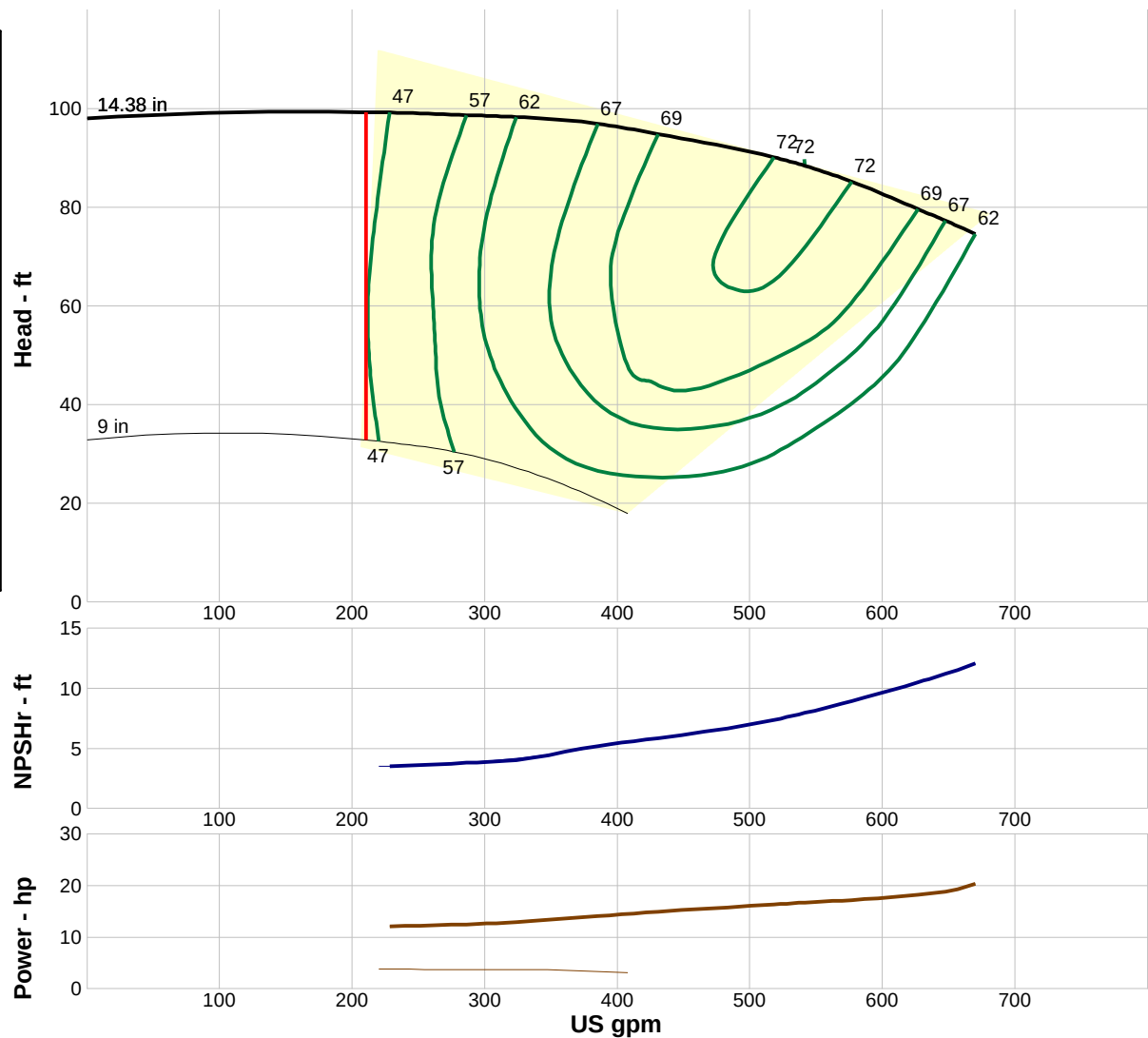
Fluid:

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
 Size: 25 hp
 Speed: 1200
 Frame: 324T

---- Data Point ----	
Flow:	541 US gpm
Head:	88.4 ft
Eff:	72%
Power:	16.8 hp
NPSHr:	7.96 ft
---- Design Curve ----	
Shutoff head:	97.9 ft
Shutoff dP:	42.3 psi
Min flow:	210 US gpm
BEP:	72% @ 541 US gpm
NOL power:	20.3 hp @ 670 US gpm
-- Max Curve --	
Max power:	20.3 hp @ 670 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
643	1175	77.7	67	18.7	11.1
536	1175	88.8	72	16.7	7.83
429	1175	94.9	69	14.9	5.84
322	1175	98.3	62	12.9	4.03
214	1175	99.1	45	12	3.43