

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"2823A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 230304A
 Specific Speeds:
 Dimensions:
 Speed: 1775 rpm
 Dia: 13.46 in
 Impeller: J3H1A1
 Ns: 1029
 Nss: 6963
 Suction: 5 in
 Discharge: 3 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 0.54 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

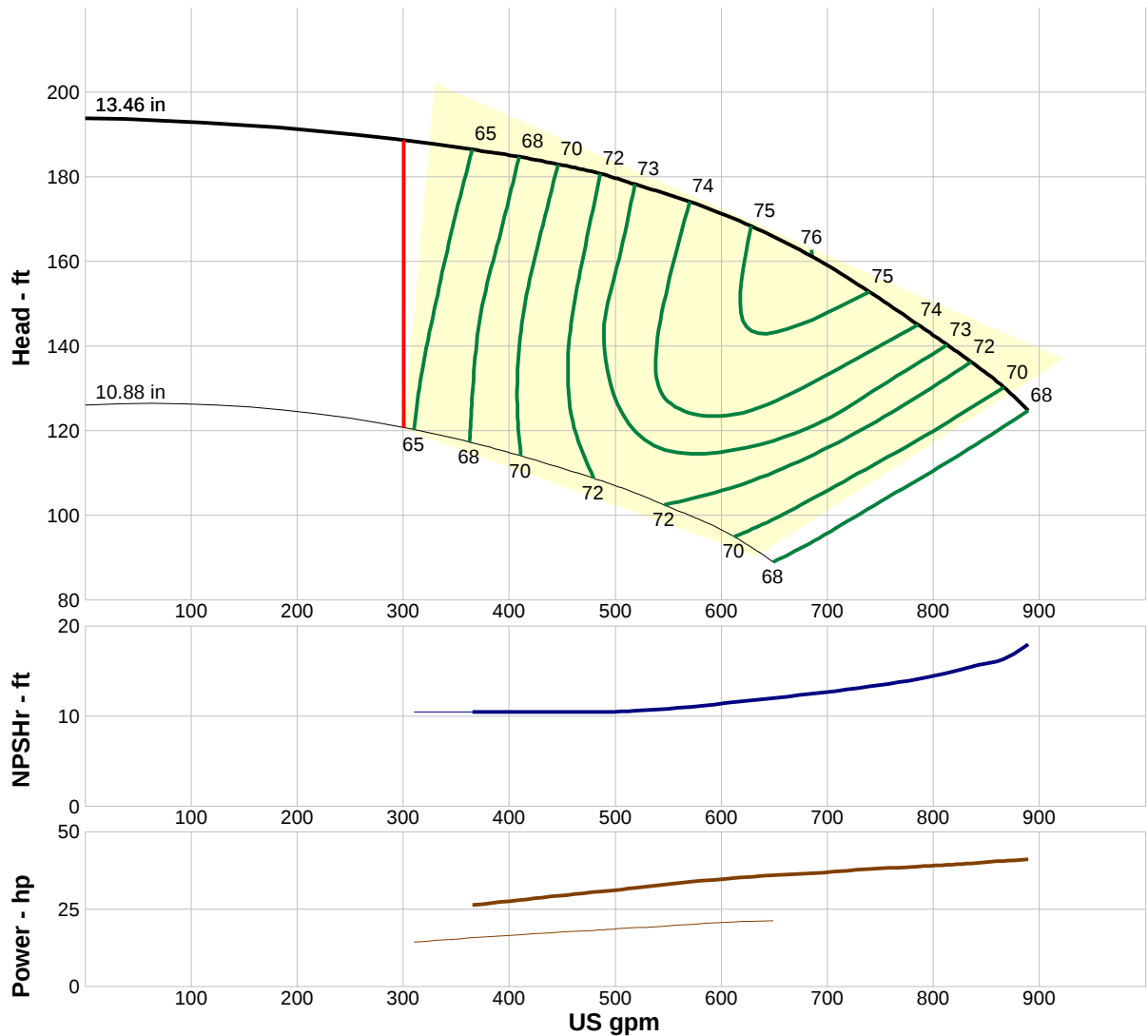
Fluid:

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: 50 hp
 Speed: 1800
 Frame: 326T

---- Data Point ----	
Flow:	685 US gpm
Head:	161 ft
Eff:	76%
Power:	36.7 hp
NPSHr:	12.5 ft
---- Design Curve ----	
Shutoff head:	194 ft
Shutoff dP:	83.8 psi
Min flow:	300 US gpm
BEP:	76% @ 685 US gpm
NOL power:	41.2 hp @ 889 US gpm
-- Max Curve --	
Max power:	41.2 hp @ 889 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
853	1775	133	71	40.4	16
711	1775	157	76	37.3	12.9
569	1775	174	74	33.8	11.1
427	1775	184	69	28.7	10.5
284	1775	---	---	---	---