

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3BF-1

Type: CC_ENDSUCTION_C

Synch speed: 1800 rpm

Curve: GP 3656/3756

Specific Speeds:

Dimensions:

Speed: 1750 rpm

Dia: 5.9375 in

Impeller:

Ns: ---

Nss: ---

Suction: 2 in

Discharge: 1.5 in

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:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F

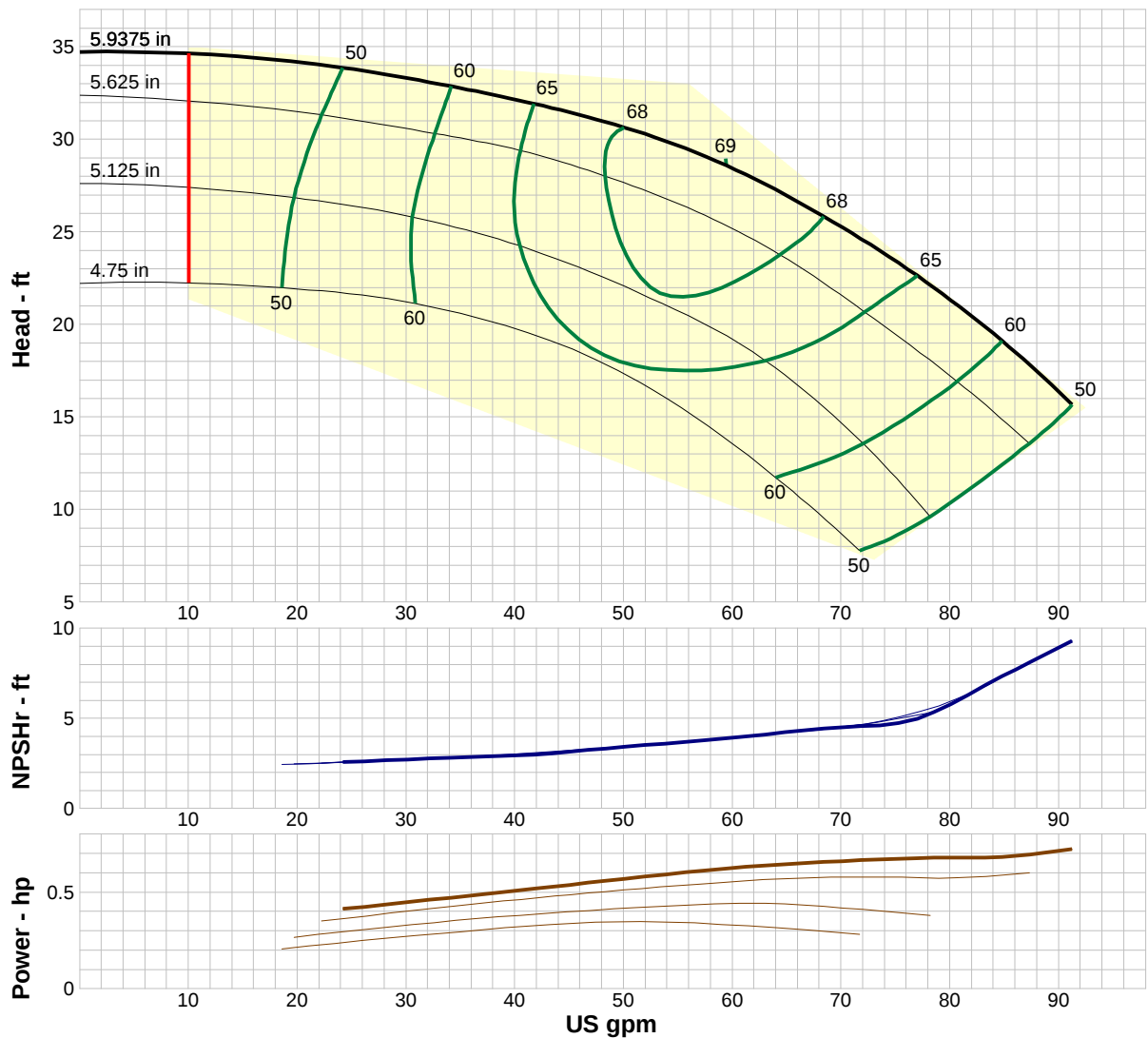
Pressure: 175 psi g

Sphere size: 0.1875 in

Power: 0.75 hp

Eye area: --- in²

---- Data Point ----	
Flow:	59.4 US gpm
Head:	28.6 ft
Eff:	69%
Power:	0.622 hp
NPSHr:	3.9 ft
---- Design Curve ----	
Shutoff head:	34.7 ft
Shutoff dP:	15 psi
Min flow:	10 US gpm
BEP:	69% @ 59.4 US gpm
NOL power:	0.721 hp @ 91.2 US gpm
-- Max Curve --	
Max power:	0.721 hp @ 91.2 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
87.6	1750	17.6	56	0.699	8.21
73	1750	24.1	66	0.667	4.74
58.4	1750	28.8	69	0.616	3.85
43.8	1750	31.6	66	0.53	3.11
29.2	1750	33.4	55	0.443	2.7