

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22BF-2

Type: CC_ENDSUCTION

Synch speed: 3600 rpm

Curve: GP 3656/3756

Specific Speeds:

Dimensions:

Speed: 3500 rpm

Dia: 5.0625 in

Impeller:

Ns: ---

Nss: ---

Suction: 2 in

Discharge: 1 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

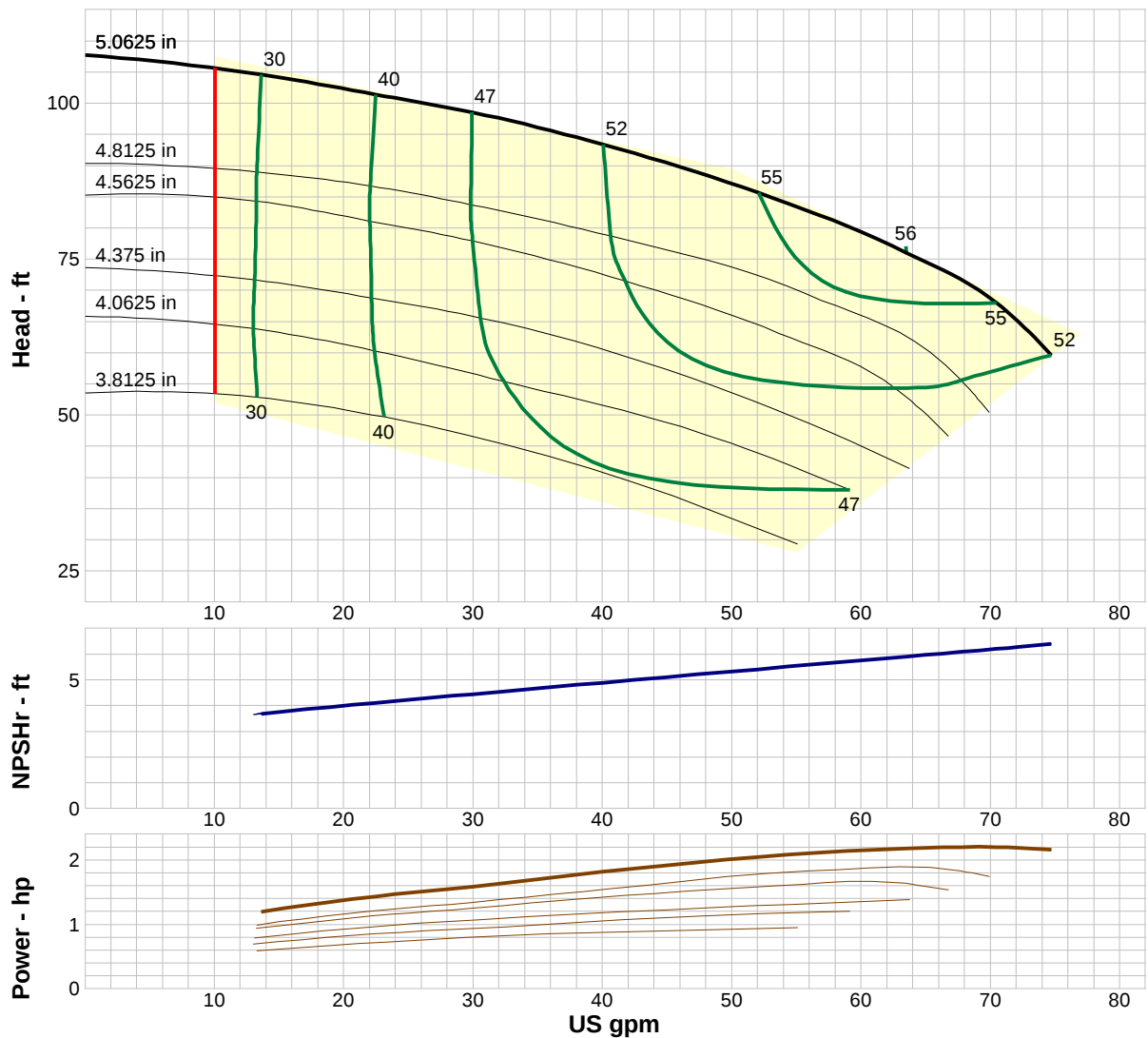
Pressure: 175 psi g

Sphere size: 0.1875 in

Power: 5 hp

Eye area: --- in²

---- Data Point ----	
Flow:	63.5 US gpm
Head:	76 ft
Eff:	56%
Power:	2.18 hp
NPSHr:	5.91 ft
---- Design Curve ----	
Shutoff head:	108 ft
Shutoff dP:	46.6 psi
Min flow:	10 US gpm
BEP:	56% @ 63.5 US gpm
NOL power:	2.2 hp @ 70.4 US gpm
-- Max Curve --	
Max power:	2.2 hp @ 70.4 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
71.8	3500	65.3	54	2.19	6.26
59.8	3500	79.1	56	2.13	5.75
47.8	3500	88.4	54	1.96	5.23
35.9	3500	95.5	50	1.72	4.71
23.9	3500	101	41	1.46	4.17