

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3656/3756-2.5

Type: CC_ENDSUCTION_C

Synch speed: 1800 rpm

Curve: GP3656LH/3756LH

Specific Speeds:

Dimensions:

Speed: 1725 rpm

Dia: 4.1875 in

Impeller:

Ns: ---

Nss: ---

Suction: 2.5 in

Discharge: 2.5 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

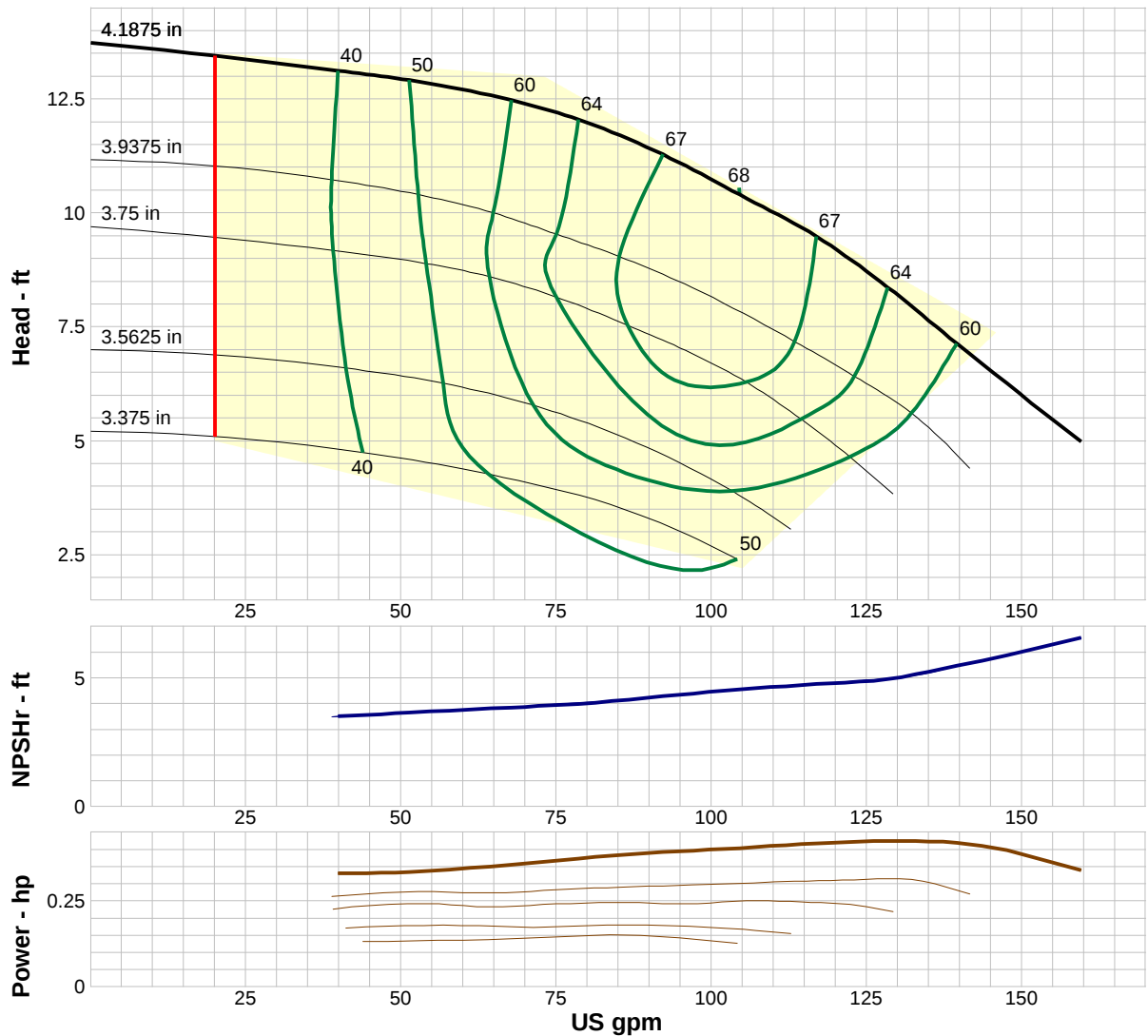
Pressure: 175 psi g

Sphere size: --- in

Power: 0.5 hp

Eye area: --- in²

---- Data Point ----	
Flow:	105 US gpm
Head:	10.4 ft
Eff:	68%
Power:	0.404 hp
NPSHr:	4.56 ft
---- Design Curve ----	
Shutoff head:	13.7 ft
Shutoff dP:	5.94 psi
Min flow:	20 US gpm
BEP:	68% @ 105 US gpm
NOL power:	0.424 hp @ 128 US gpm
-- Max Curve --	
Max power:	0.424 hp @ 128 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
154	1725	5.58	59	0.362	6.26
128	1725	8.41	64	0.424	4.95
102	1725	10.6	68	0.401	4.5
76.8	1725	12.1	63	0.37	3.97
51.2	1725	12.9	50	0.334	3.65