

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3ST
Type: CC_ENDSUCTION_C
Synch speed: 1800 rpm
Curve: GP NPE/NPE-F
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 5.375 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.

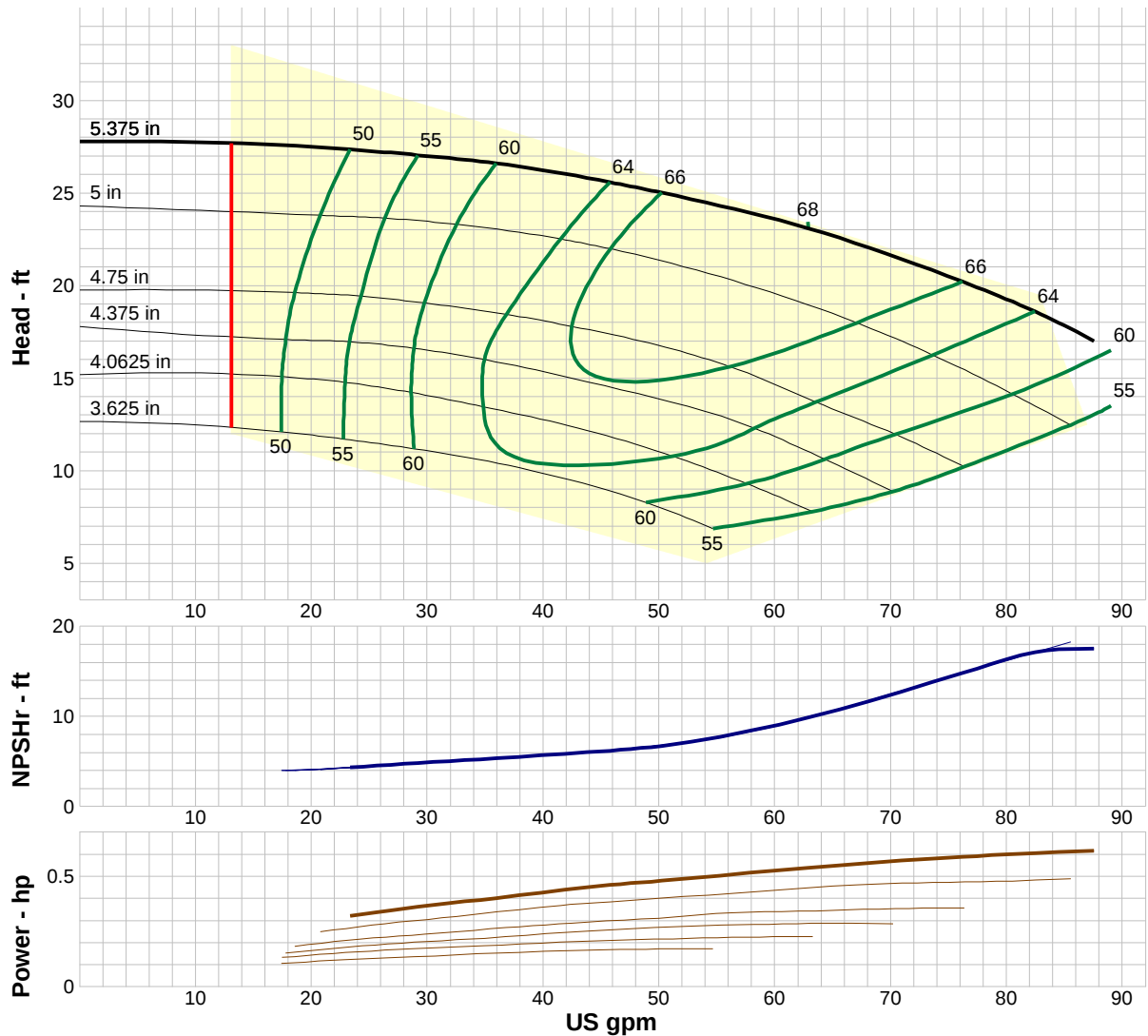
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.3437 in
Power: 0.5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	62.9 US gpm
Head:	23.1 ft
Eff:	68%
Power:	0.54 hp
NPSHr:	9.9 ft
---- Design Curve ----	
Shutoff head:	27.8 ft
Shutoff dP:	12 psi
Min flow:	13.1 US gpm
BEP:	68% @ 62.9 US gpm
NOL power:	0.616 hp @ 87.5 US gpm
-- Max Curve --	
Max power:	0.616 hp @ 87.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
84	1750	18.1	63	0.608	17.2
70	1750	21.5	67	0.566	12.5
56	1750	24.1	67	0.507	8.17
42	1750	26	62	0.439	5.89
28	1750	27.1	54	0.354	4.74