

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 2BF
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP 3642/3742
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.5 in
Discharge: 1.25 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.

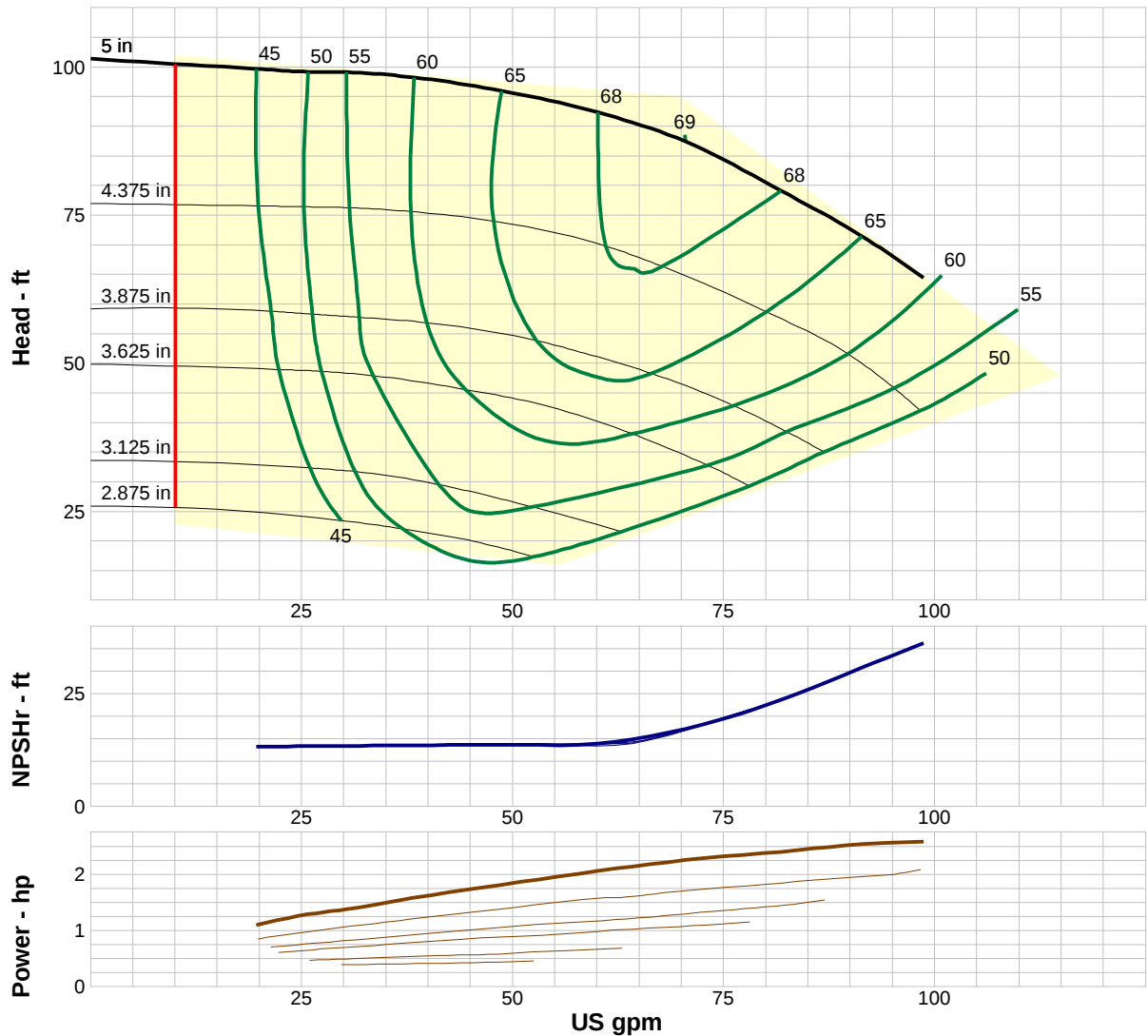
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.25 in
Power: 2 hp
Eye area: --- in²

---- Data Point ----	
Flow:	70.4 US gpm
Head:	87.5 ft
Eff:	69%
Power:	2.25 hp
NPSHr:	17.2 ft
---- Design Curve ----	
Shutoff head:	101 ft
Shutoff dP:	43.8 psi
Min flow:	10 US gpm
BEP:	69% @ 70.4 US gpm
NOL power:	2.59 hp @ 98.7 US gpm
-- Max Curve --	
Max power:	2.59 hp @ 98.7 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
94.7	3500	68.2	64	2.56	33.4
78.9	3500	81.2	68	2.36	22
63.1	3500	90.9	68	2.12	14.9
47.3	3500	96.3	64	1.78	13.7
31.6	3500	99	56	1.41	13.5