

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22SH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 9.0625 in
Impeller:
Ns: ---
Nss: ---
Suction: 3 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.

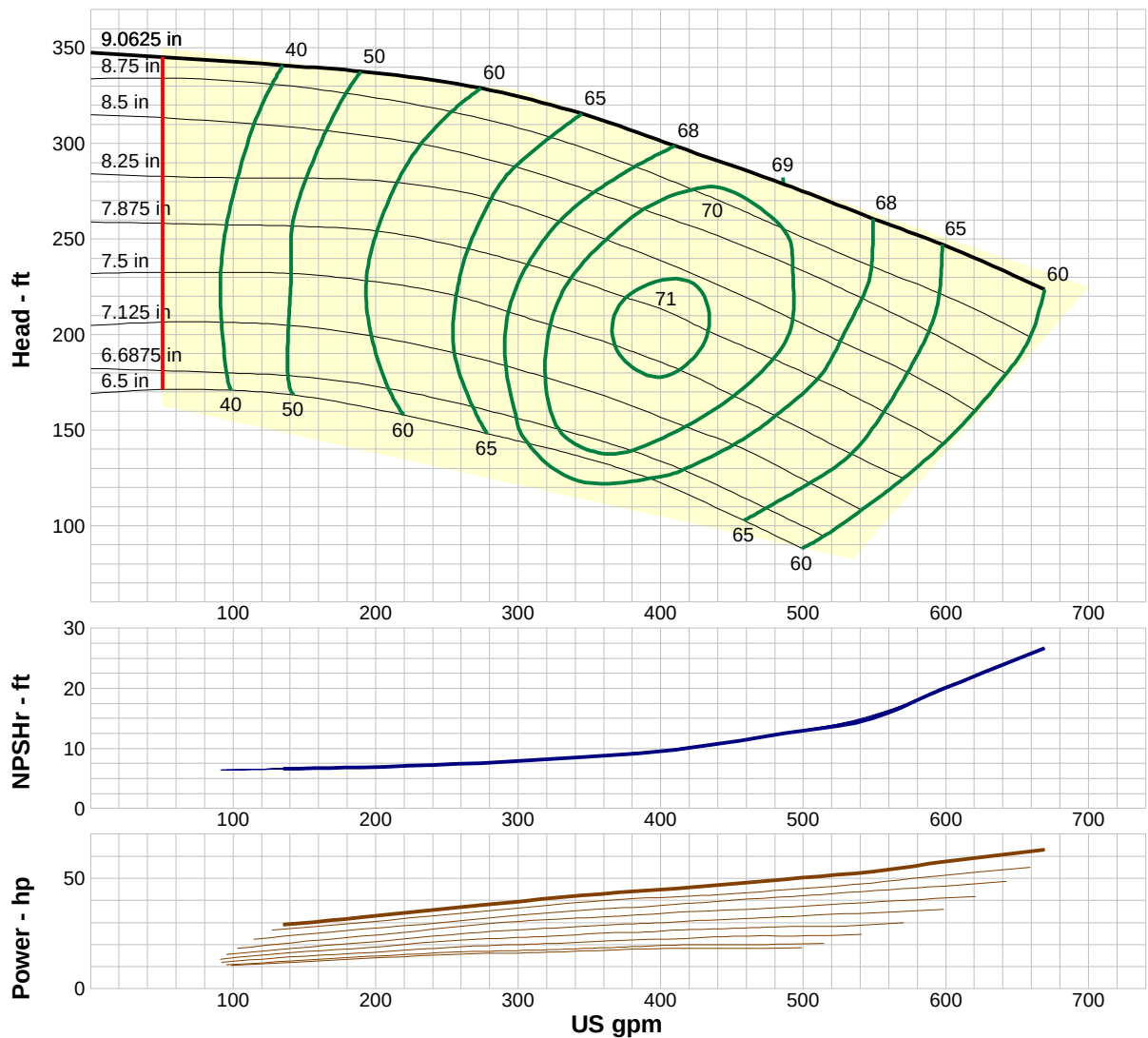
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.5937 in
Power: 60 hp
Eye area: --- in²

---- Data Point ----	
Flow:	486 US gpm
Head:	279 ft
Eff:	69%
Power:	49.6 hp
NPSHr:	12.5 ft
---- Design Curve ----	
Shutoff head:	348 ft
Shutoff dP:	150 psi
Min flow:	50 US gpm
BEP:	69% @ 486 US gpm
NOL power:	62.9 hp @ 669 US gpm
-- Max Curve --	
Max power:	62.9 hp @ 669 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
642	3500	232	62	60.8	24.1
535	3500	265	68	52.3	14.5
428	3500	294	68	46.4	10.4
321	3500	320	63	40.8	8.25
214	3500	335	53	33.9	7.08