

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 6BF
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP 3656/3756
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 6.375 in
Impeller:
Ns: ---
Nss: ---
Suction: 4 in
Discharge: 3 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.

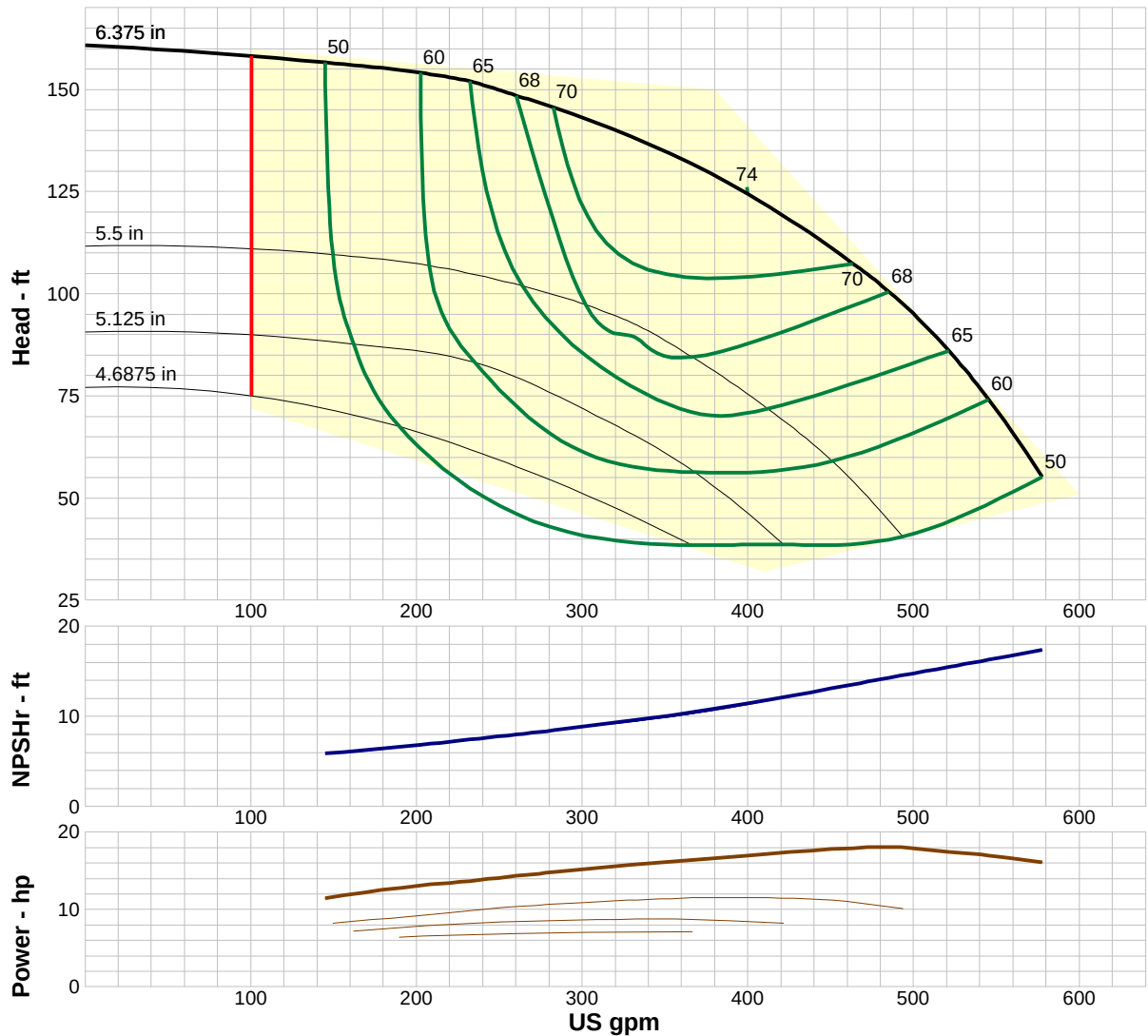
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.5 in
Power: 15 hp
Eye area: --- in²

---- Data Point ----	
Flow:	400 US gpm
Head:	124 ft
Eff:	74%
Power:	17 hp
NPSHr:	11.5 ft
---- Design Curve ----	
Shutoff head:	161 ft
Shutoff dP:	69.5 psi
Min flow:	100 US gpm
BEP:	74% @ 400 US gpm
NOL power:	18.1 hp @ 485 US gpm
-- Max Curve --	
Max power:	18.1 hp @ 485 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
554	3500	68.9	57	16.7	16.6
462	3500	108	70	17.9	13.5
370	3500	130	73	16.4	10.7
277	3500	146	70	14.7	8.36
185	3500	155	57	12.6	6.58