



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 3SS-1
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP 3657/3756
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 6 in
Impeller:
Ns: ---
Nss: ---
Suction: 2 in
Discharge: 1.5 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.3125 in
Power: 5 hp
Eye area: --- in²

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

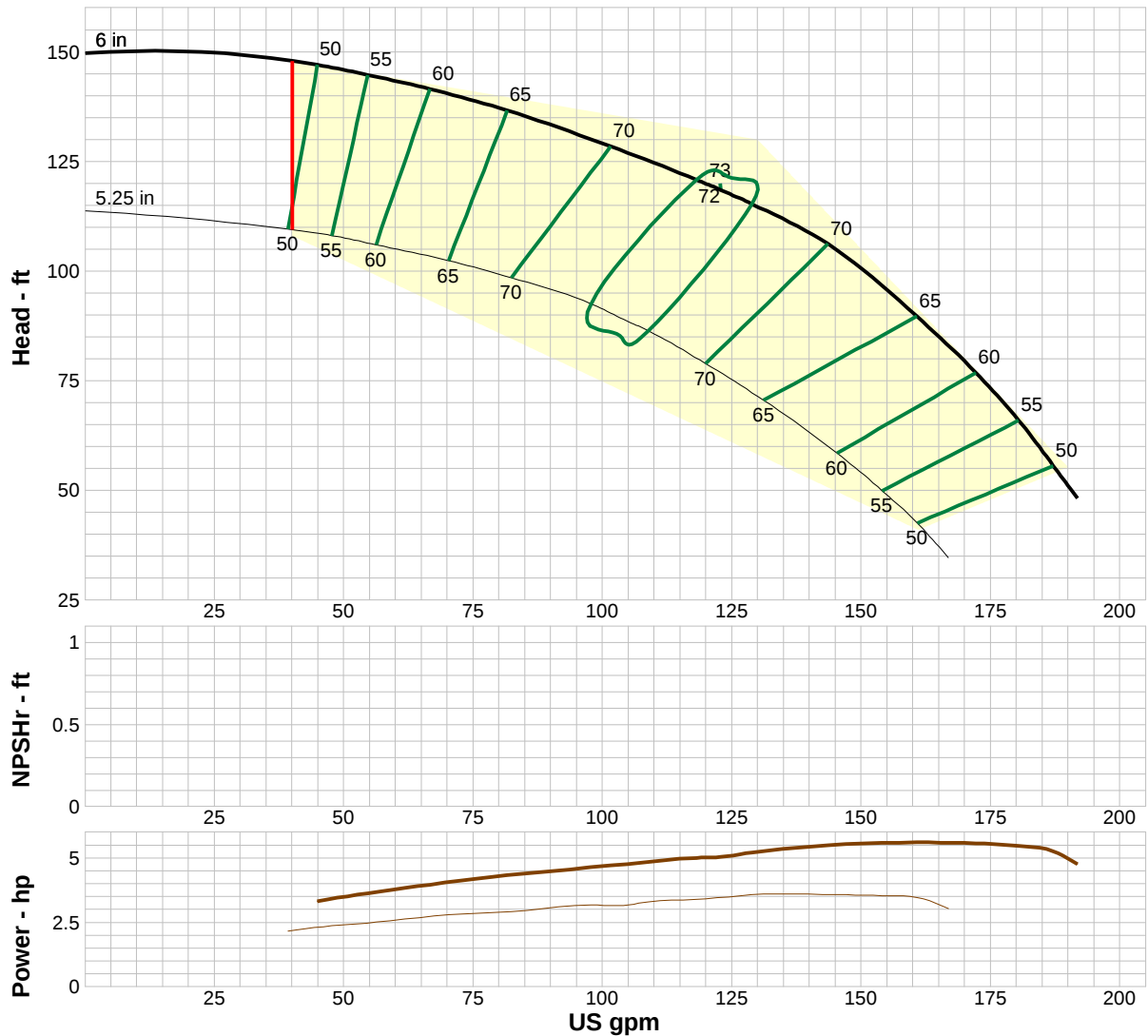
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	123 US gpm
Head:	118 ft
Eff:	73%
Power:	5.04 hp
NPSHr:	--- ft
---- Design Curve ----	
Shutoff head:	150 ft
Shutoff dP:	64.7 psi
Min flow:	40 US gpm
BEP:	73% @ 123 US gpm
NOL power:	5.6 hp @ 161 US gpm
-- Max Curve --	
Max power:	5.6 hp @ 161 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
184	3500	60.4	52	5.35	---
153	3500	97.1	67	5.55	---
122	3500	119	73	5.03	---
91.8	3500	132	68	4.52	---
61.2	3500	143	58	3.81	---