

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3SS-2
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP 3657/3756
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 5.625 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

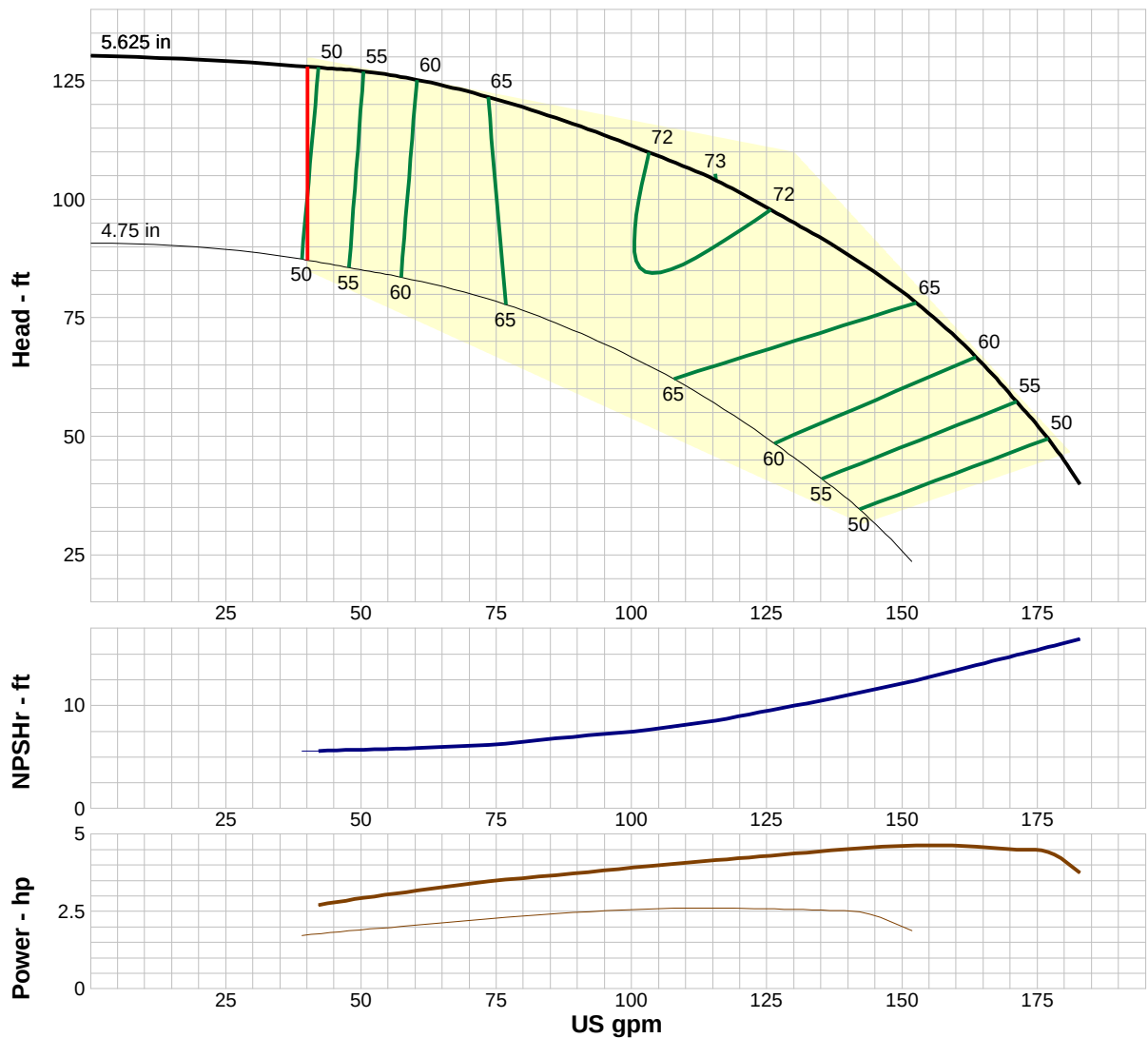
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

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

---- Data Point ----	
Flow:	116 US gpm
Head:	104 ft
Eff:	73%
Power:	4.16 hp
NPSHr:	8.61 ft
---- Design Curve ----	
Shutoff head:	130 ft
Shutoff dP:	56.3 psi
Min flow:	40 US gpm
BEP:	73% @ 116 US gpm
NOL power:	4.63 hp @ 153 US gpm
-- Max Curve --	
Max power:	4.63 hp @ 153 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
175	3500	52.1	52	4.45	15.4
146	3500	83.3	67	4.56	11.7
117	3500	103	73	4.18	8.71
87.6	3500	116	70	3.7	6.89
58.4	3500	126	59	3.13	5.84