

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1ST
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP NPE/NPE-F
Specific Speeds:
Ns: ---
Nss: ---
Dimensions:
Suction: 1.25 in
Discharge: 1 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

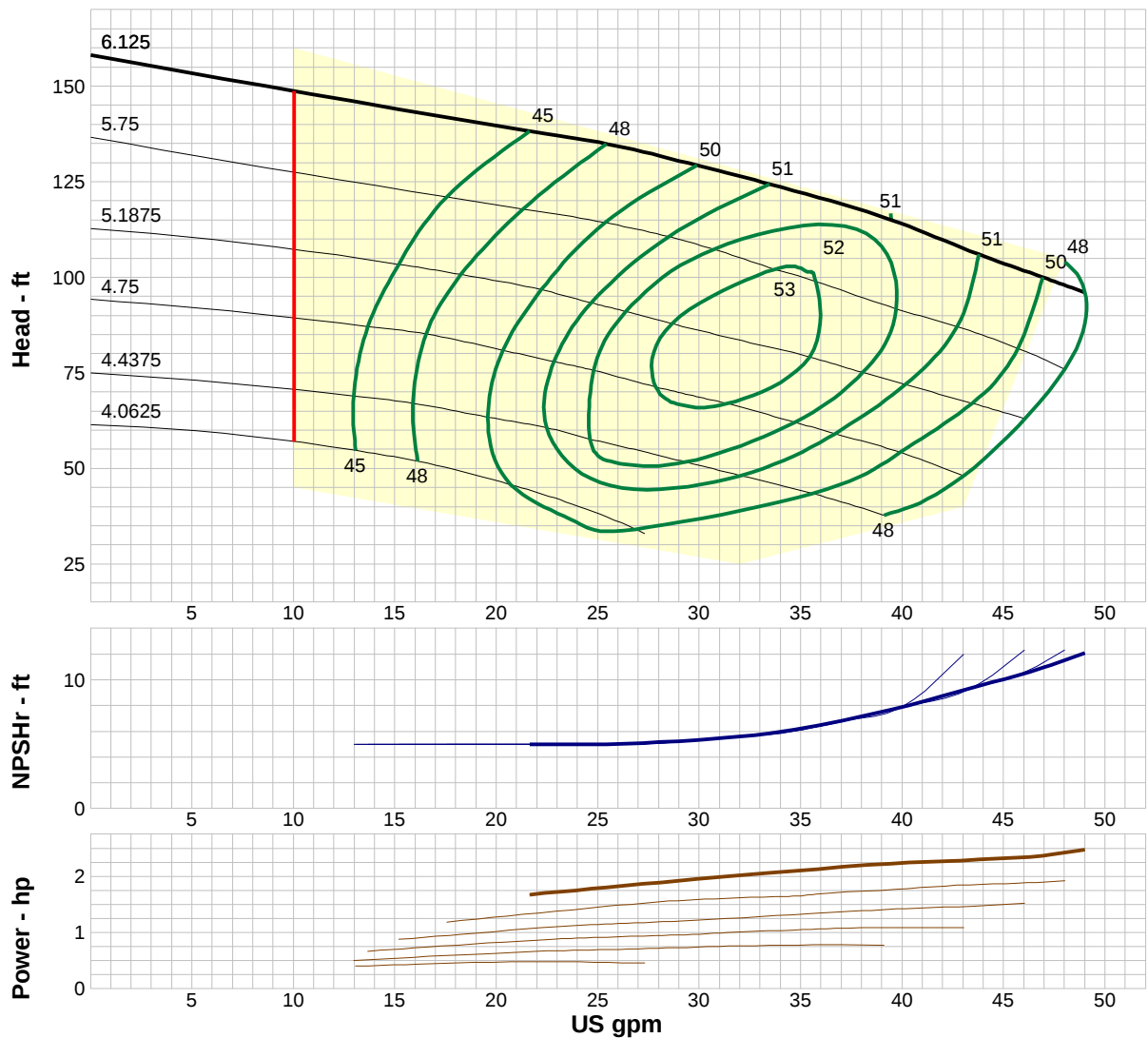
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.0625 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	39.5 US gpm
Head:	115 ft
Eff:	51%
Power:	2.23 hp
NPSHr:	7.71 ft
---- Design Curve ----	
Shutoff head:	158 ft
Shutoff dP:	68.4 psi
Min flow:	10 US gpm
BEP:	51% @ 39.5 US gpm
NOL power:	2.47 hp @ 49 US gpm
-- Max Curve --	
Max power:	2.47 hp @ 49 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
47	3500	99.8	50	2.37	11
39.2	3500	115	51	2.22	7.61
31.4	3500	127	50	2	5.55
23.5	3500	137	46	1.74	5
15.7	3500	144	40	1.48	5