

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1ST
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: GP NPE/NPE-F
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 6.125 in
Impeller:
Ns: ---
Nss: ---
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

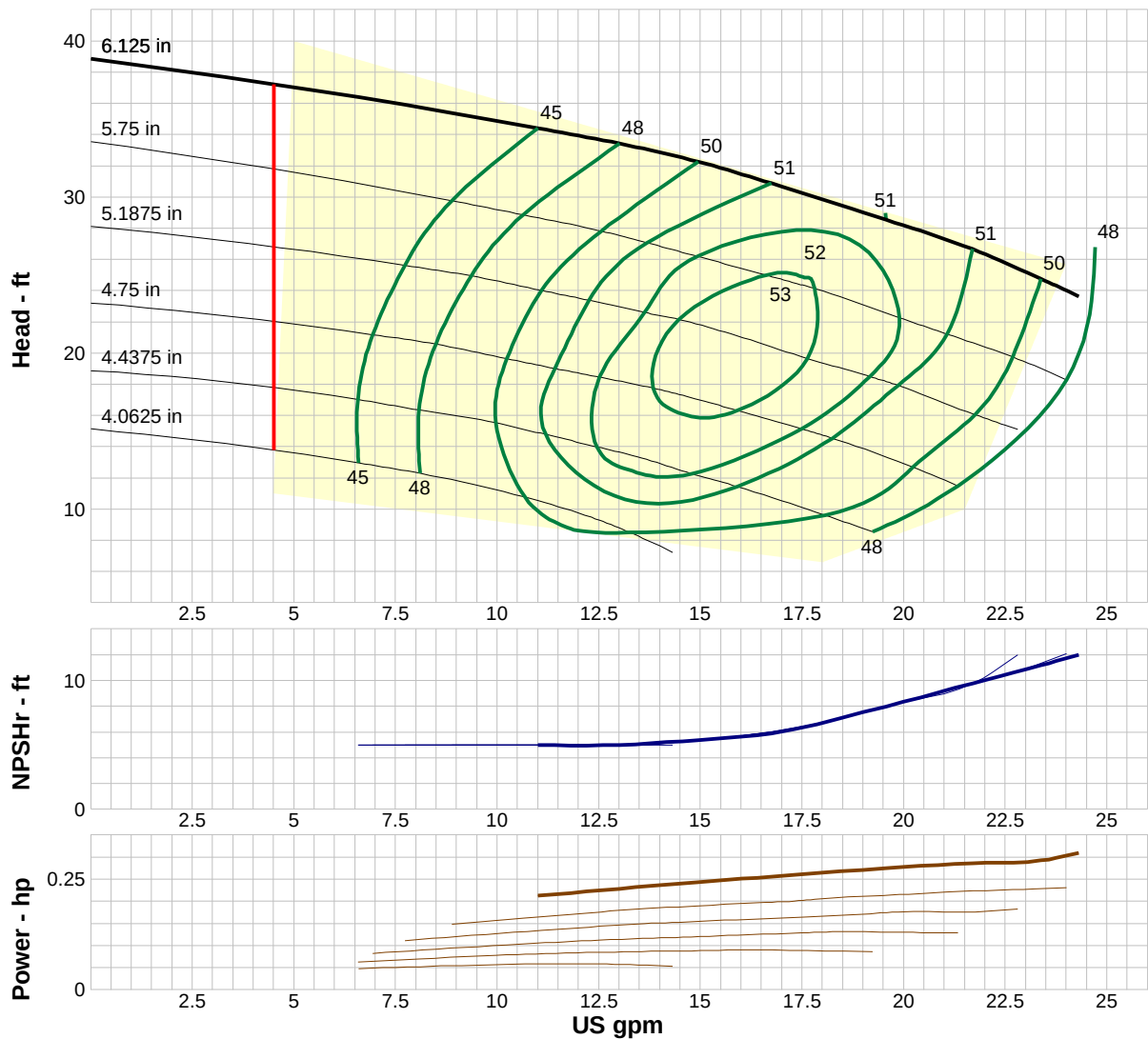
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.0625 in
Power: 0.33 hp
Eye area: --- in²

---- Data Point ----	
Flow:	19.6 US gpm
Head:	28.5 ft
Eff:	51%
Power:	0.275 hp
NPSHr:	8.02 ft
---- Design Curve ----	
Shutoff head:	38.8 ft
Shutoff dP:	16.8 psi
Min flow:	4.5 US gpm
BEP:	51% @ 19.6 US gpm
NOL power:	0.309 hp @ 24.3 US gpm
-- Max Curve --	
Max power:	0.309 hp @ 24.3 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
23.3	1750	24.8	50	0.292	11.1
19.4	1750	28.7	51	0.274	7.87
15.5	1750	31.8	50	0.247	5.55
11.6	1750	34.1	46	0.217	5
7.76	1750	35.7	40	0.186	5