

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1MS
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds MCS
Specific Speeds:
Dimensions:
Speed: 3500 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

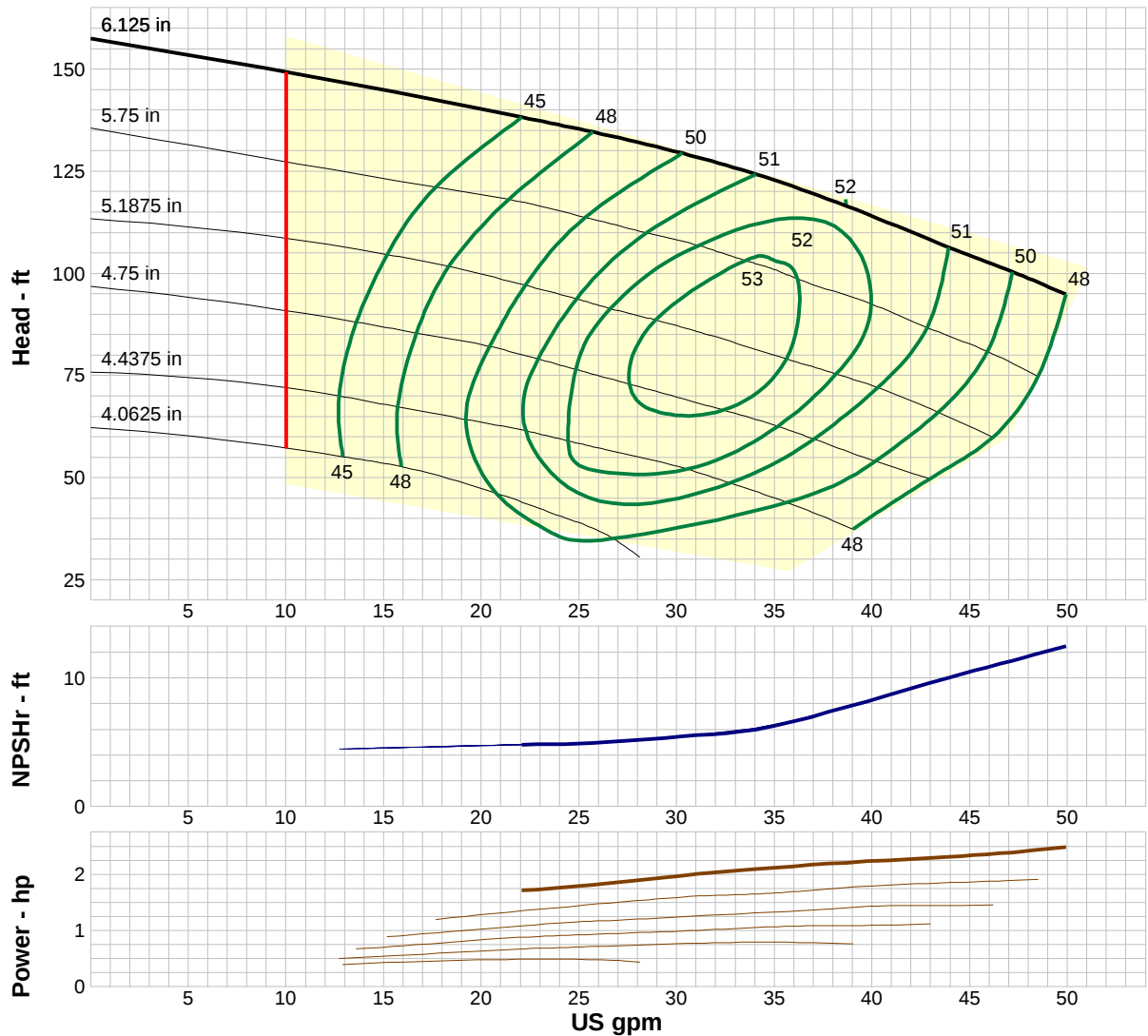
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 75 psi g
Sphere size: 0.0625 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	38.7 US gpm
Head:	116 ft
Eff:	51%
Power:	2.21 hp
NPSHr:	7.75 ft
---- Design Curve ----	
Shutoff head:	157 ft
Shutoff dP:	68 psi
Min flow:	10 US gpm
BEP:	52% @ 38.7 US gpm
NOL power:	2.49 hp @ 49.9 US gpm
-- Max Curve --	
Max power:	2.49 hp @ 49.9 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
47.9	3500	98.9	49	2.42	11.6
39.9	3500	114	51	2.23	8.27
31.9	3500	127	50	2.03	5.68
23.9	3500	136	47	1.77	4.89
16	3500	143	40	1.53	4.59