

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 2MS
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds MCS
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 6.125 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.5 in
Discharge: 1.25 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.

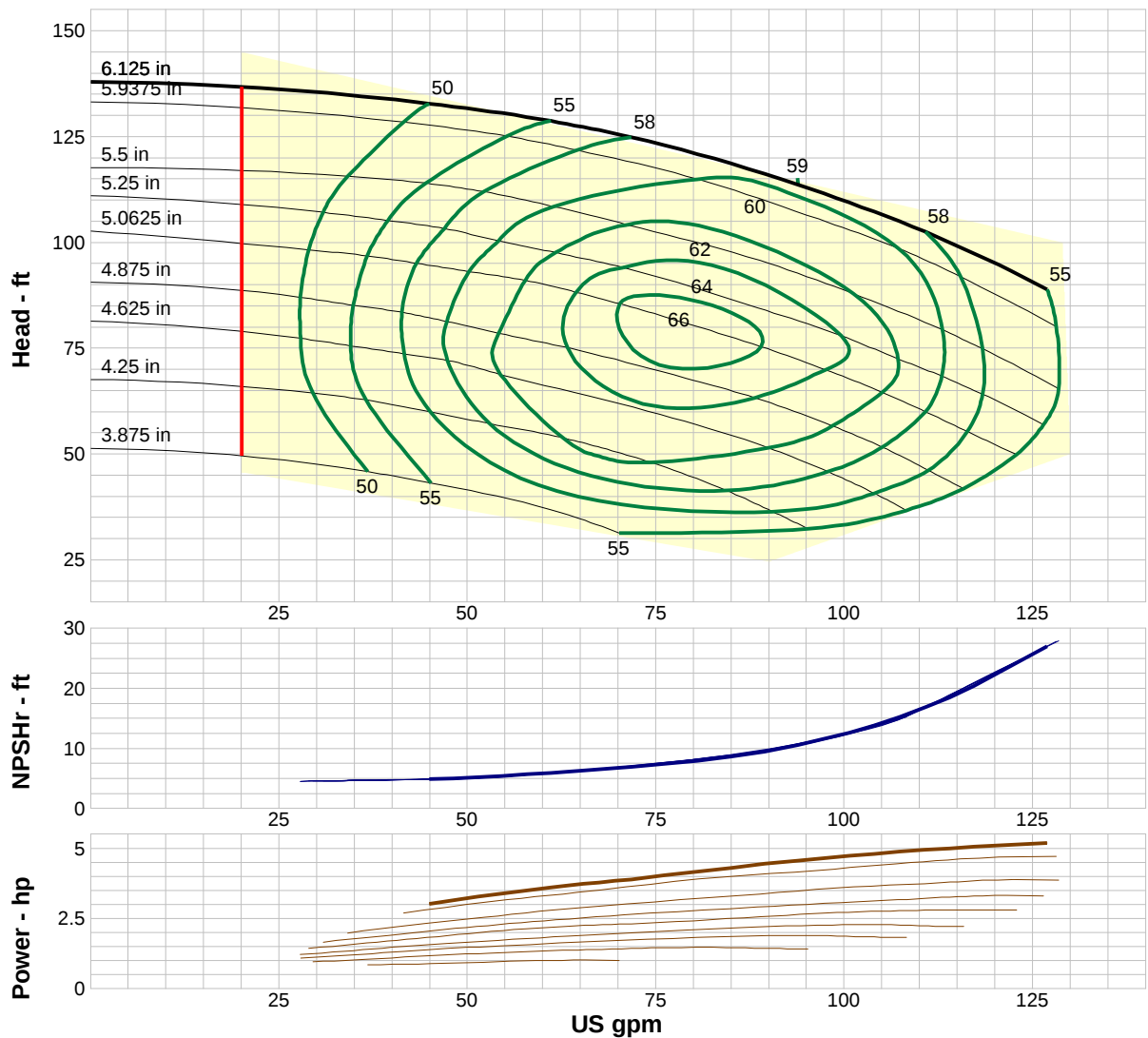
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 75 psi g
Sphere size: 0.1875 in
Power: 5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	93.8 US gpm
Head:	114 ft
Eff:	59%
Power:	4.56 hp
NPSHr:	10.6 ft
---- Design Curve ----	
Shutoff head:	138 ft
Shutoff dP:	59.6 psi
Min flow:	20 US gpm
BEP:	59% @ 93.8 US gpm
NOL power:	5.18 hp @ 127 US gpm
-- Max Curve --	
Max power:	5.18 hp @ 127 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
122	3500	93	56	5.11	23.9
102	3500	108	59	4.75	13.6
81.6	3500	120	58	4.2	8.58
61.2	3500	129	55	3.61	5.97
40.8	3500	133	49	2.86	4.61