

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1SN
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP NPO/NPO-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5.375 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.

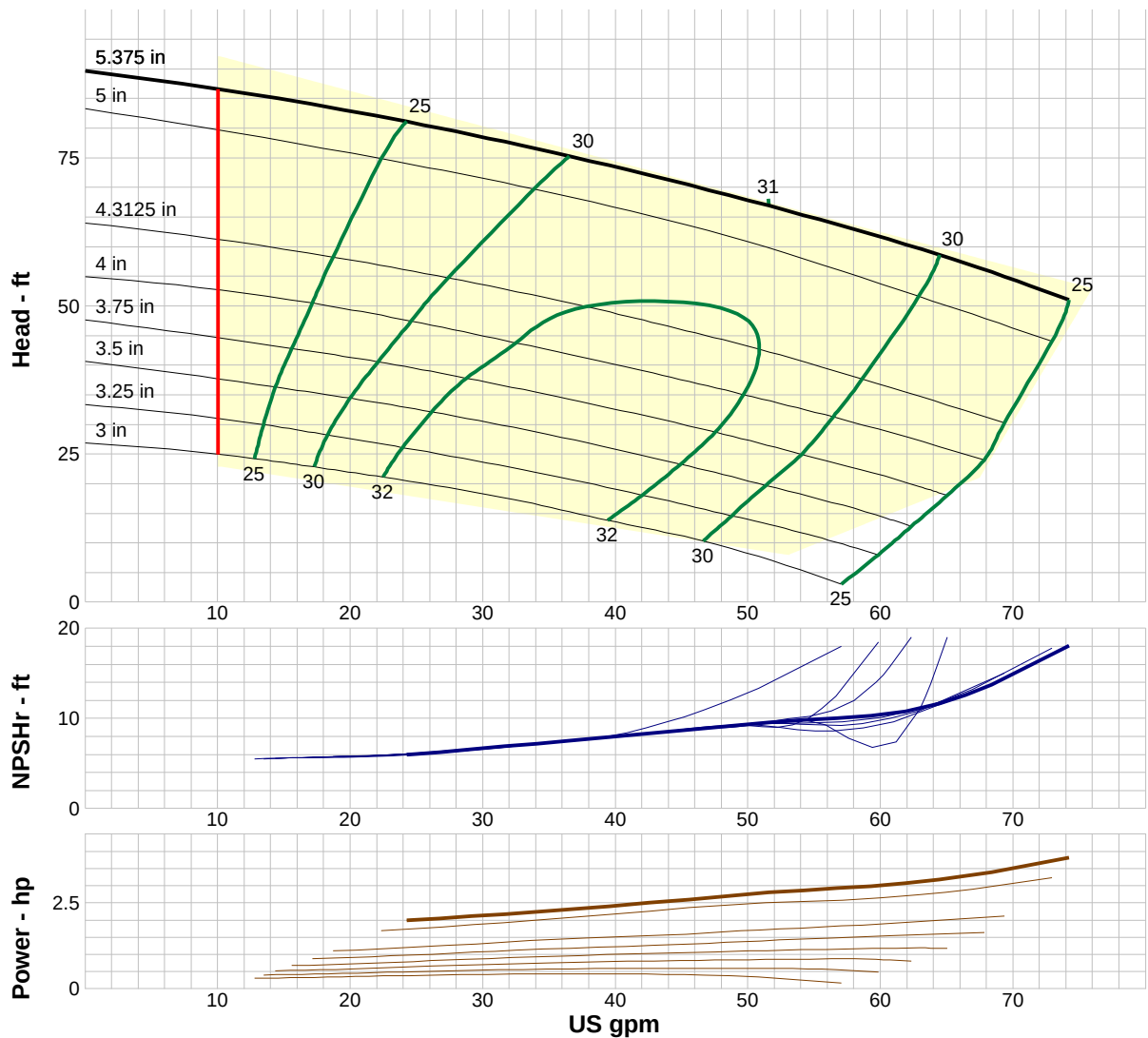
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.375 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	51.5 US gpm
Head:	66.9 ft
Eff:	31%
Power:	2.8 hp
NPSHr:	9.58 ft
---- Design Curve ----	
Shutoff head:	89.6 ft
Shutoff dP:	38.7 psi
Min flow:	10 US gpm
BEP:	31% @ 51.5 US gpm
NOL power:	3.82 hp @ 74.2 US gpm
-- Max Curve --	
Max power:	3.82 hp @ 74.2 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
71.3	3500	53.3	26	3.63	16.2
59.4	3500	61.9	30	3.03	10.8
47.5	3500	69.1	31	2.67	9.04
35.6	3500	75.7	30	2.29	7.43
23.8	3500	81.3	25	1.97	5.91