

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: LB
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds LB
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Line: 1 HP
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.

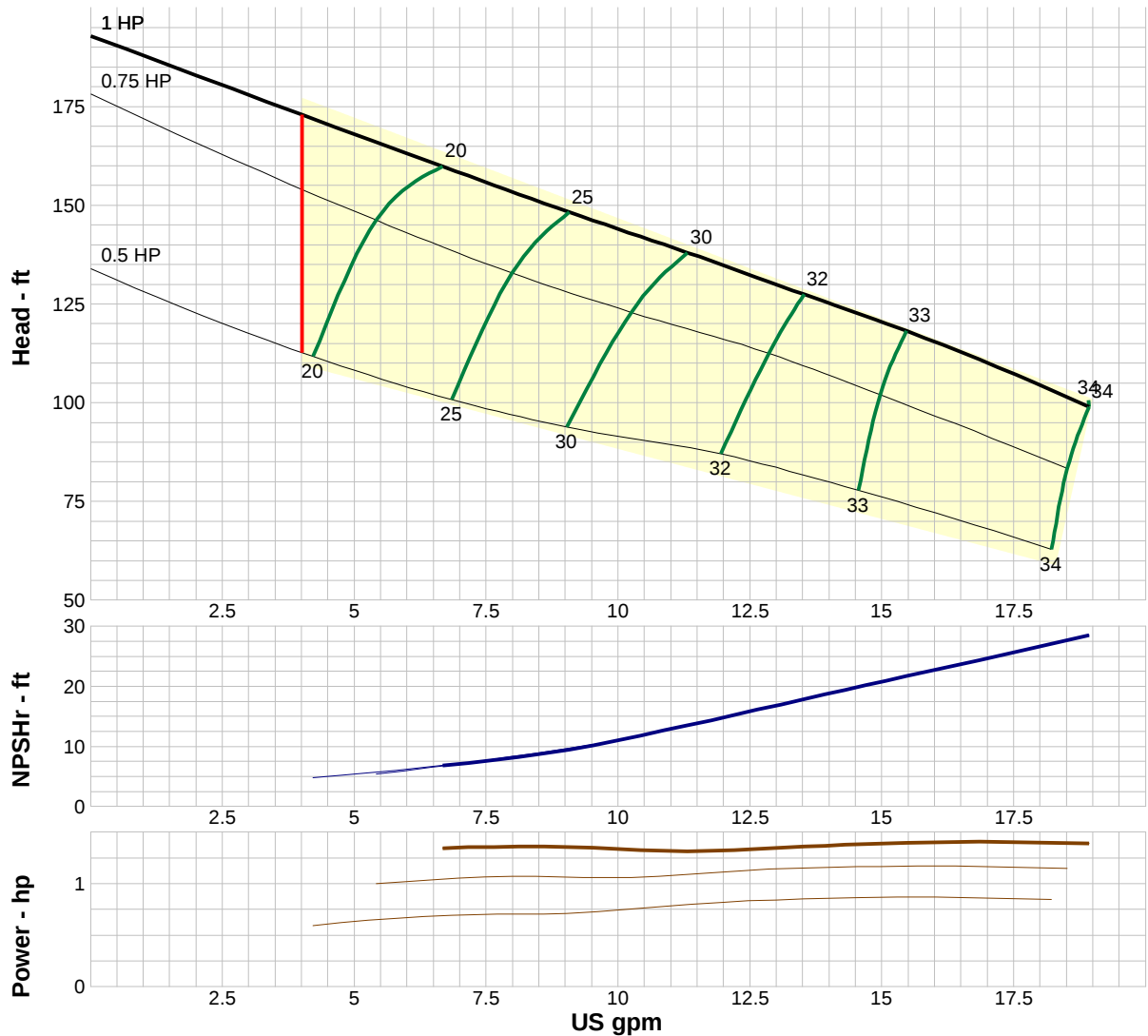
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 140 °F
Pressure: 85 psi g
Sphere size: 0.125 in
Power: 1 hp
Eye area: --- in²

---- Data Point ----	
Flow:	18.9 US gpm
Head:	99.1 ft
Eff:	34%
Power:	1.39 hp
NPSHr:	28.4 ft
---- Design Curve ----	
Shutoff head:	193 ft
Shutoff dP:	83.4 psi
Min flow:	4 US gpm
BEP:	34% @ 18.9 US gpm
NOL power:	1.4 hp @ 15.5 US gpm
-- Max Curve --	
Max power:	1.4 hp @ 15.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
18.1	3500	104	34	1.39	26.9
15.1	3500	120	33	1.39	21
12.1	3500	134	31	1.33	15.1
9.06	3500	148	25	1.36	9.51
6.04	3500	163	19	1.34	6.15