

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 24SH
Type: CC_ENDSUCTION_C
Synch speed: 3600 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 9.875 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 1.5 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.

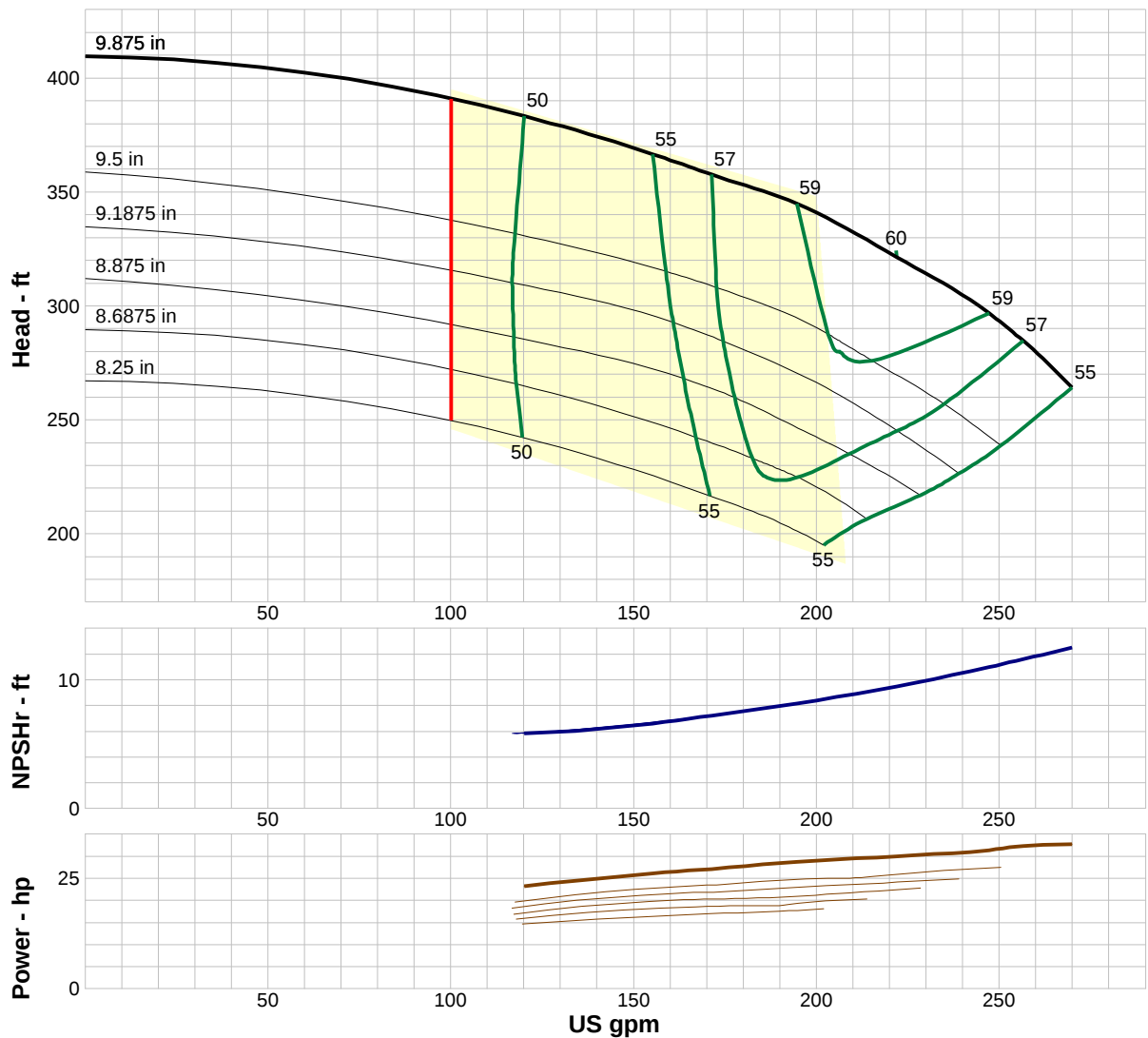
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.3125 in
Power: 30 hp
Eye area: --- in²

---- Data Point ----	
Flow:	222 US gpm
Head:	321 ft
Eff:	60%
Power:	30 hp
NPSHr:	9.5 ft
---- Design Curve ----	
Shutoff head:	410 ft
Shutoff dP:	177 psi
Min flow:	100 US gpm
BEP:	60% @ 222 US gpm
NOL power:	32.7 hp @ 270 US gpm
-- Max Curve --	
Max power:	32.7 hp @ 270 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
259	3500	281	57	32.4	11.8
216	3500	326	60	29.7	9.21
173	3500	357	57	27.3	7.3
130	3500	379	51	24	6.07
86.4	3500	---	---	---	---