

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 24SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 24SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 9.875 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 1.5 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.3125 in
Power: 35 hp
Eye area: --- in²

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

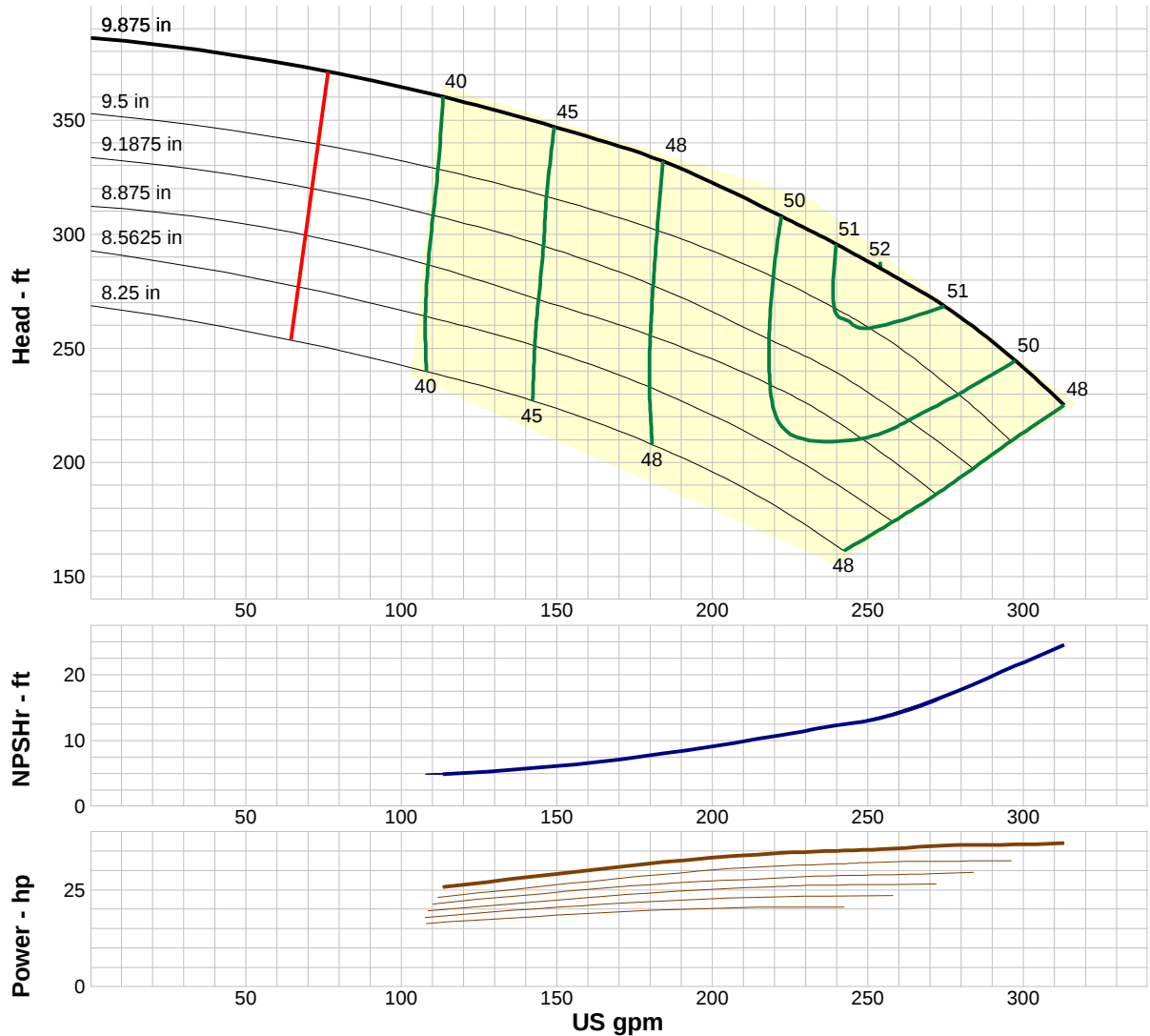
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	254 US gpm
Head:	285 ft
Eff:	52%
Power:	35.5 hp
NPSHr:	13.4 ft
---- Design Curve ----	
Shutoff head:	386 ft
Shutoff dP:	167 psi
Min flow:	76.2 US gpm
BEP:	52% @ 254 US gpm
NOL power:	37.1 hp @ 313 US gpm
-- Max Curve --	
Max power:	37.1 hp @ 313 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
300	3500	241	50	36.8	21.9
250	3500	288	51	35.4	13.1
200	3500	322	49	33.1	9.2
150	3500	347	45	29.1	6.12
100	3500	363	38	24.5	4.48