

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 24SH
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 9.875 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2.5 in
 Discharge: 1.5 in

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.3125 in
 Power: 3 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

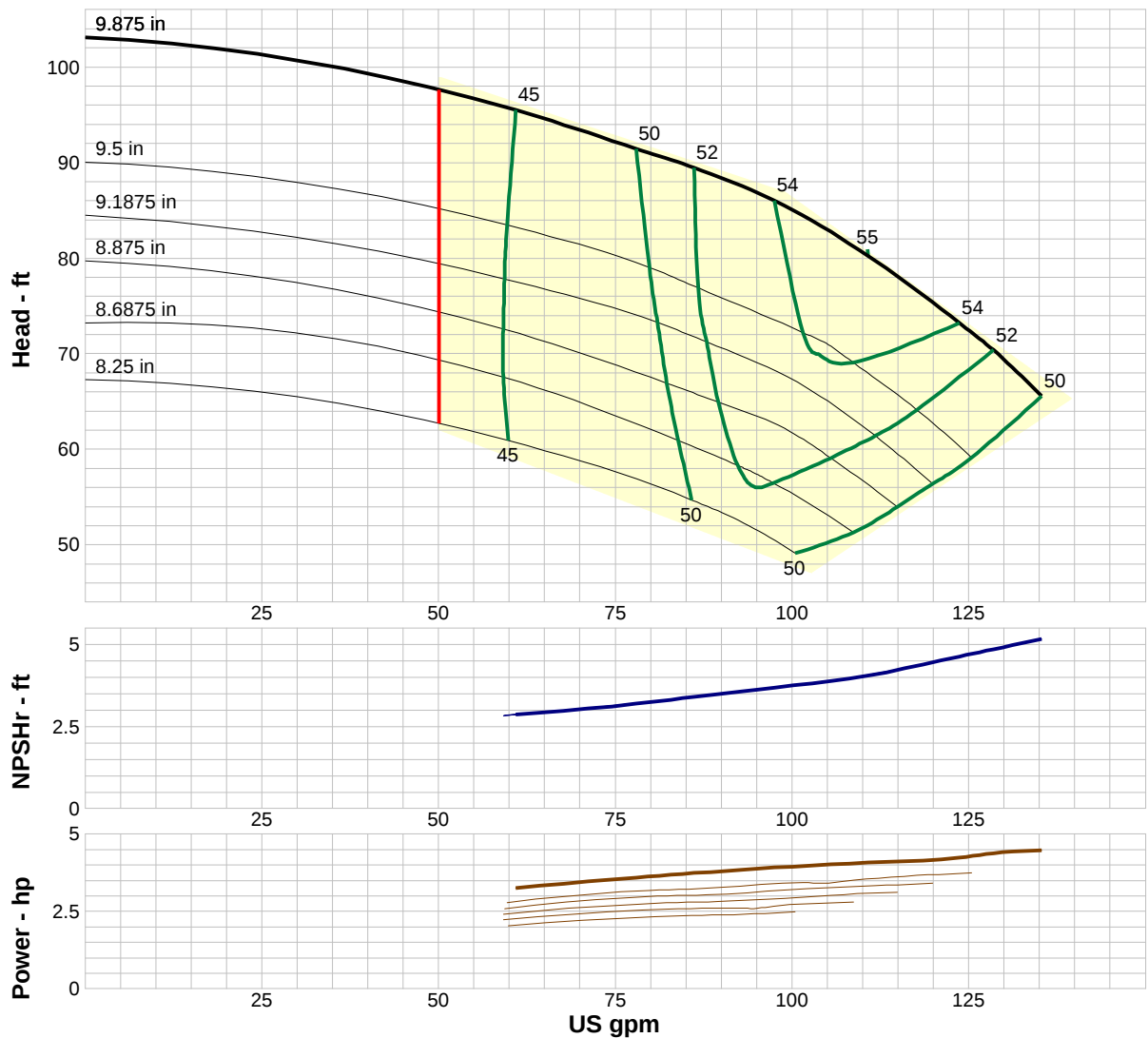
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	111 US gpm
Head:	80.1 ft
Eff:	55%
Power:	4.08 hp
NPSHr:	4.07 ft
---- Design Curve ----	
Shutoff head:	103 ft
Shutoff dP:	44.6 psi
Min flow:	50 US gpm
BEP:	55% @ 111 US gpm
NOL power:	4.48 hp @ 135 US gpm
-- Max Curve --	
Max power:	4.48 hp @ 135 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
130	1750	69.2	52	4.41	4.93
108	1750	81.4	55	4.05	3.98
86.4	1750	89.4	52	3.74	3.41
64.8	1750	94.6	46	3.34	2.94
43.2	1750	---	---	---	---