

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 24SFH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: Goulds 24SFH
Specific Speeds:
Dimensions:
Speed: 1750 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.

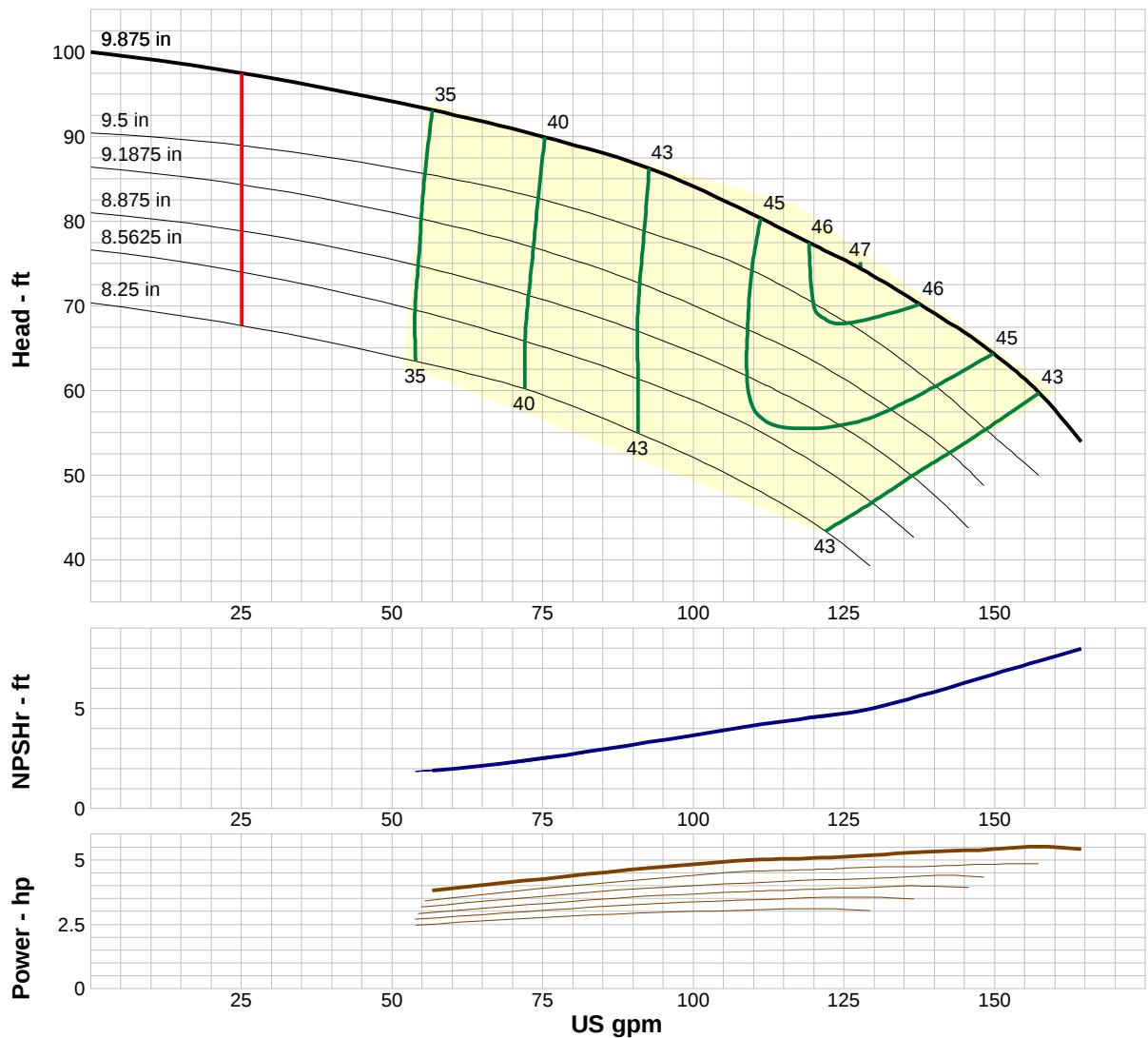
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.3125 in
Power: 5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	128 US gpm
Head:	74.3 ft
Eff:	46%
Power:	5.16 hp
NPSHr:	4.91 ft
---- Design Curve ----	
Shutoff head:	100 ft
Shutoff dP:	43.2 psi
Min flow:	25 US gpm
BEP:	47% @ 128 US gpm
NOL power:	5.52 hp @ 157 US gpm
-- Max Curve --	
Max power:	5.52 hp @ 157 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
157	1750	59.9	43	5.51	7.35
131	1750	73	46	5.21	5.14
105	1750	82.3	44	4.9	3.91
78.6	1750	89.2	41	4.35	2.68
52.4	1750	93.6	34	3.7	1.76