

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3SN
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP NPO/NPO-F
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 5.4375 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2 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.

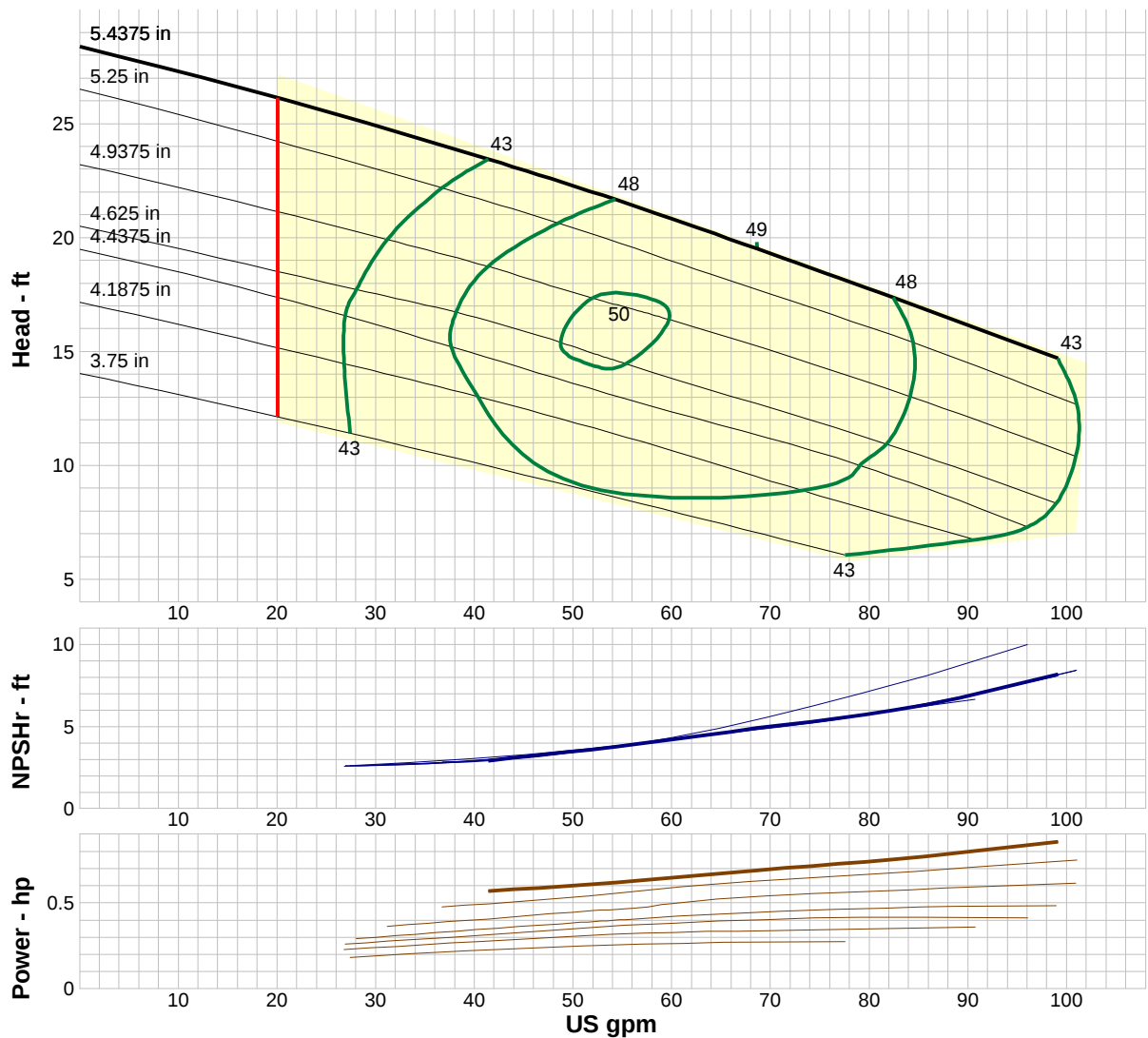
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 125 psi g
 Sphere size: 0.375 in
 Power: 0.75 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	68.6 US gpm
Head:	19.5 ft
Eff:	49%
Power:	0.69 hp
NPSHr:	4.91 ft
---- Design Curve ----	
Shutoff head:	28.4 ft
Shutoff dP:	12.3 psi
Min flow:	20 US gpm
BEP:	49% @ 68.6 US gpm
NOL power:	0.855 hp @ 99.1 US gpm
-- Max Curve --	
Max power:	0.855 hp @ 99.1 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
95	1750	15.3	44	0.83	7.65
79.2	1750	17.9	48	0.738	5.74
63.4	1750	20.3	49	0.664	4.5
47.5	1750	22.6	45	0.593	3.34
31.7	1750	24.6	39	0.532	2.3