

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1SS Optional
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP ICS/ICSF
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 5 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 1.25 in
 Discharge: 1 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

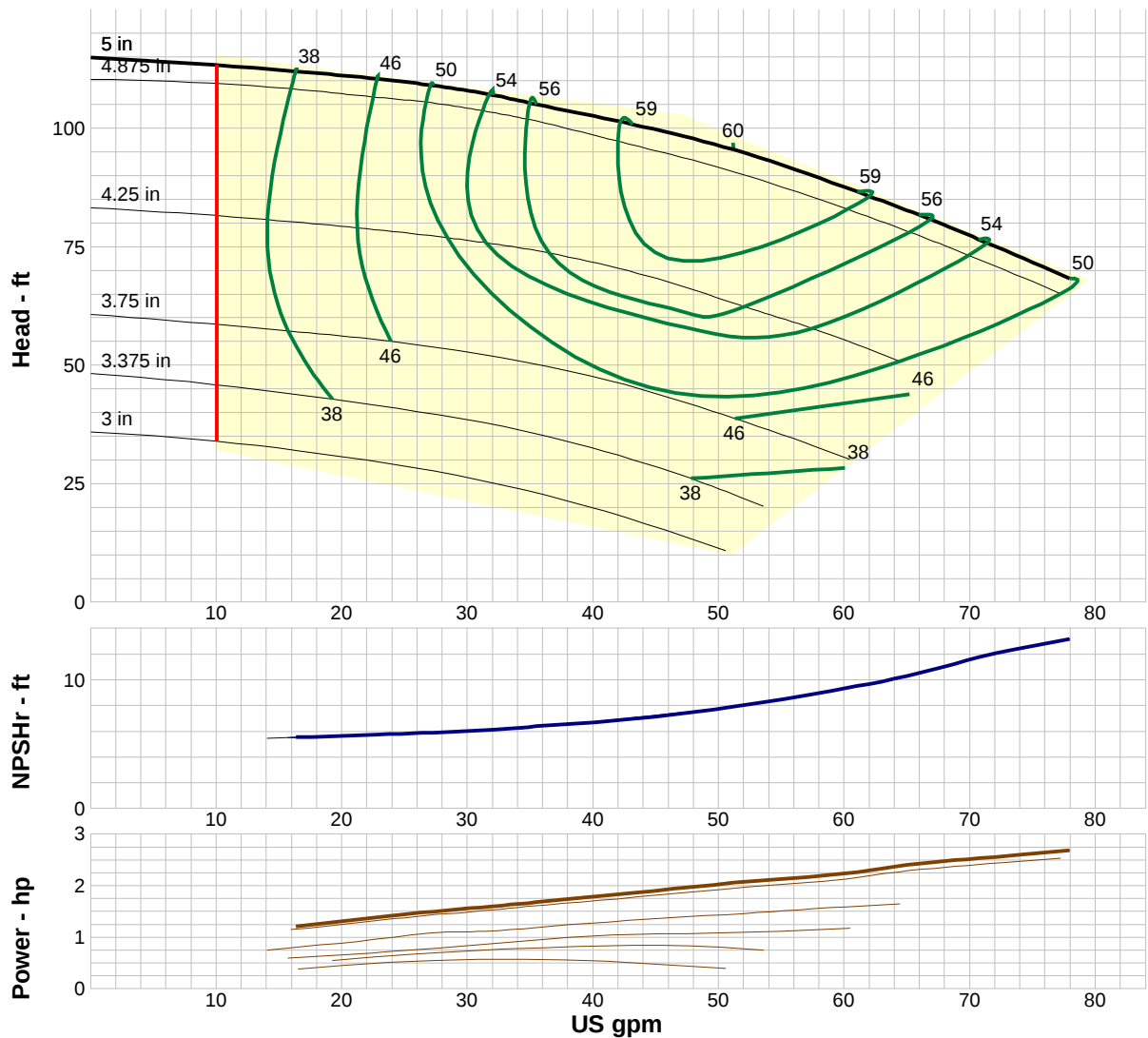
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.375 in
 Power: 3 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	51.2 US gpm
Head:	95.4 ft
Eff:	60%
Power:	2.06 hp
NPSHr:	7.93 ft
---- Design Curve ----	
Shutoff head:	115 ft
Shutoff dP:	49.7 psi
Min flow:	10 US gpm
BEP:	60% @ 51.2 US gpm
NOL power:	2.69 hp @ 77.9 US gpm
-- Max Curve --	
Max power:	2.69 hp @ 77.9 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
74.8	3500	71.9	52	2.62	12.6
62.3	3500	85.3	58	2.31	9.77
49.8	3500	96.4	60	2.02	7.76
37.4	3500	104	57	1.73	6.53
24.9	3500	110	48	1.44	5.82

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Pump:

Size: 1SS
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP ICS/ICSF
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5.375 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.25 in
Discharge: 1 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.

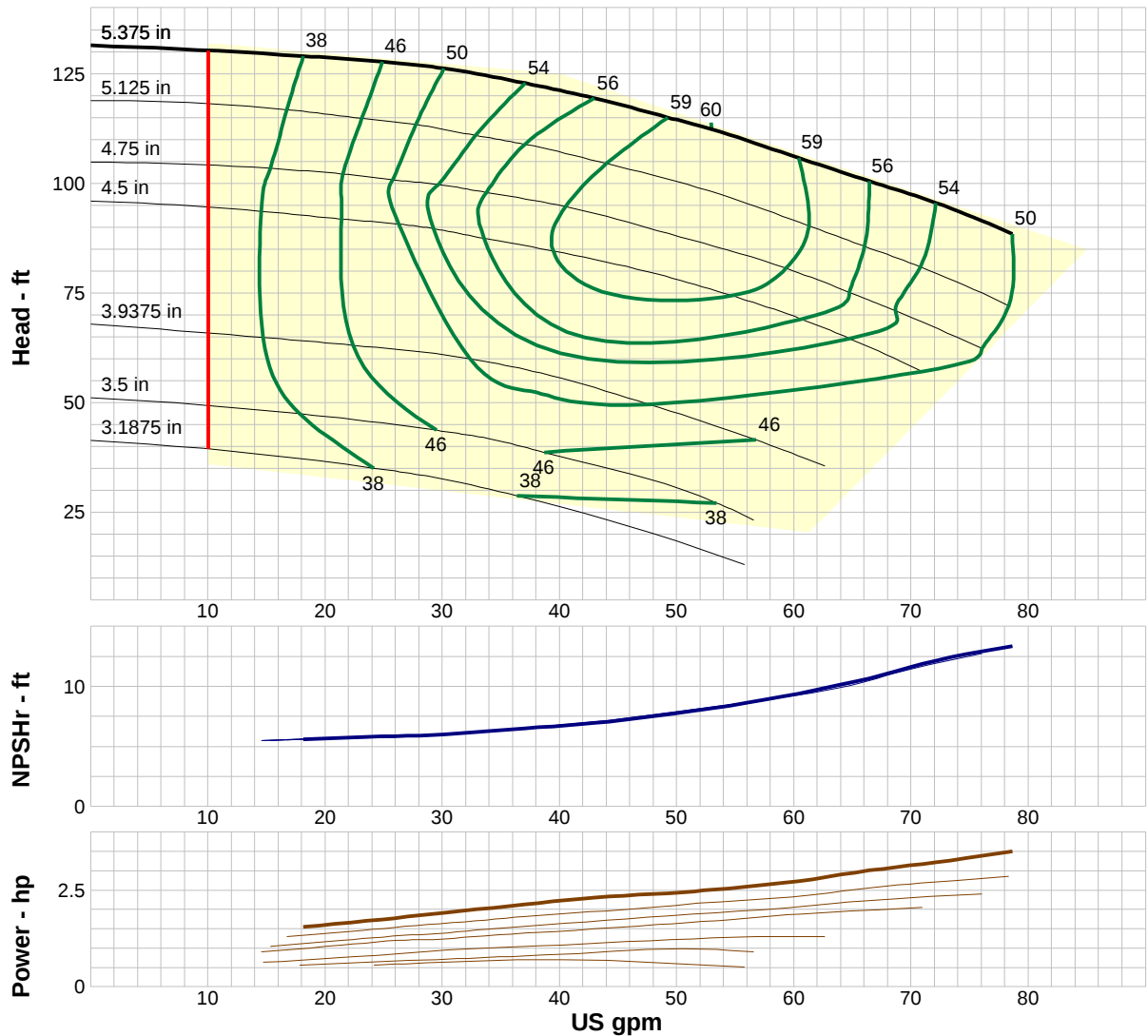
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.375 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	53 US gpm
Head:	112 ft
Eff:	60%
Power:	2.51 hp
NPSHr:	8.19 ft
---- Design Curve ----	
Shutoff head:	131 ft
Shutoff dP:	56.8 psi
Min flow:	10 US gpm
BEP:	60% @ 53 US gpm
NOL power:	3.51 hp @ 78.6 US gpm
-- Max Curve --	
Max power:	3.51 hp @ 78.6 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
75.5	3500	91.8	52	3.37	12.8
62.9	3500	104	58	2.85	9.95
50.3	3500	114	59	2.45	7.82
37.7	3500	122	54	2.15	6.56
25.2	3500	128	46	1.75	5.84