

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 2SS Optional
 Type: CC_ENDSUCTION_C
 Synch speed: 1800 rpm
 Curve: GP ICS/ICSF
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 5.125 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.25 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

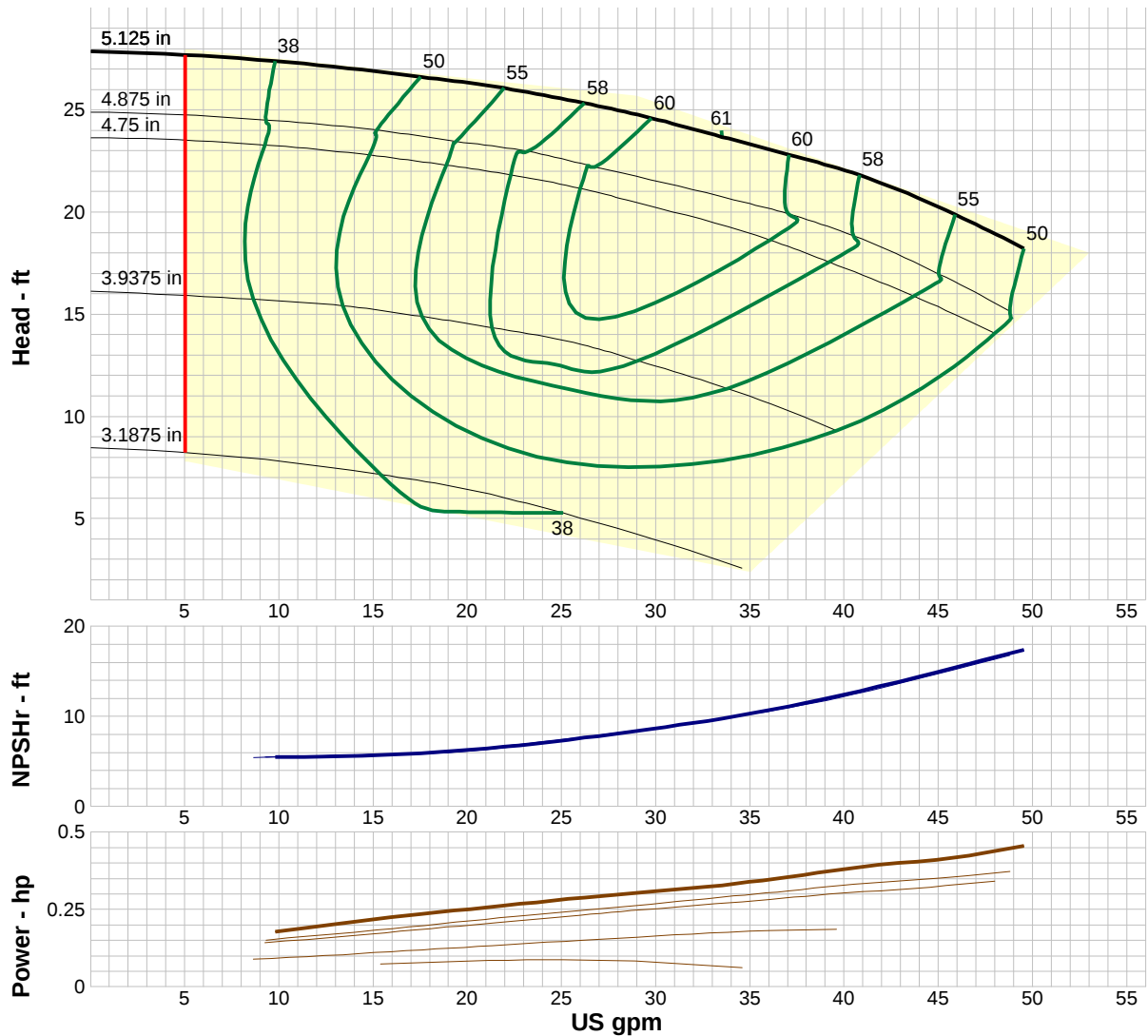
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.375 in
 Power: 0.5 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	33.5 US gpm
Head:	23.7 ft
Eff:	61%
Power:	0.328 hp
NPSHr:	9.77 ft
---- Design Curve ----	
Shutoff head:	27.9 ft
Shutoff dP:	12 psi
Min flow:	5 US gpm
BEP:	61% @ 33.5 US gpm
NOL power:	0.456 hp @ 49.5 US gpm
-- Max Curve --	
Max power:	0.456 hp @ 49.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
47.5	1750	19.1	53	0.435	16.3
39.6	1750	22.1	59	0.377	12.3
31.7	1750	24.1	61	0.319	9.22
23.8	1750	25.7	56	0.274	7.07
15.8	1750	26.8	47	0.223	5.82

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Motor:

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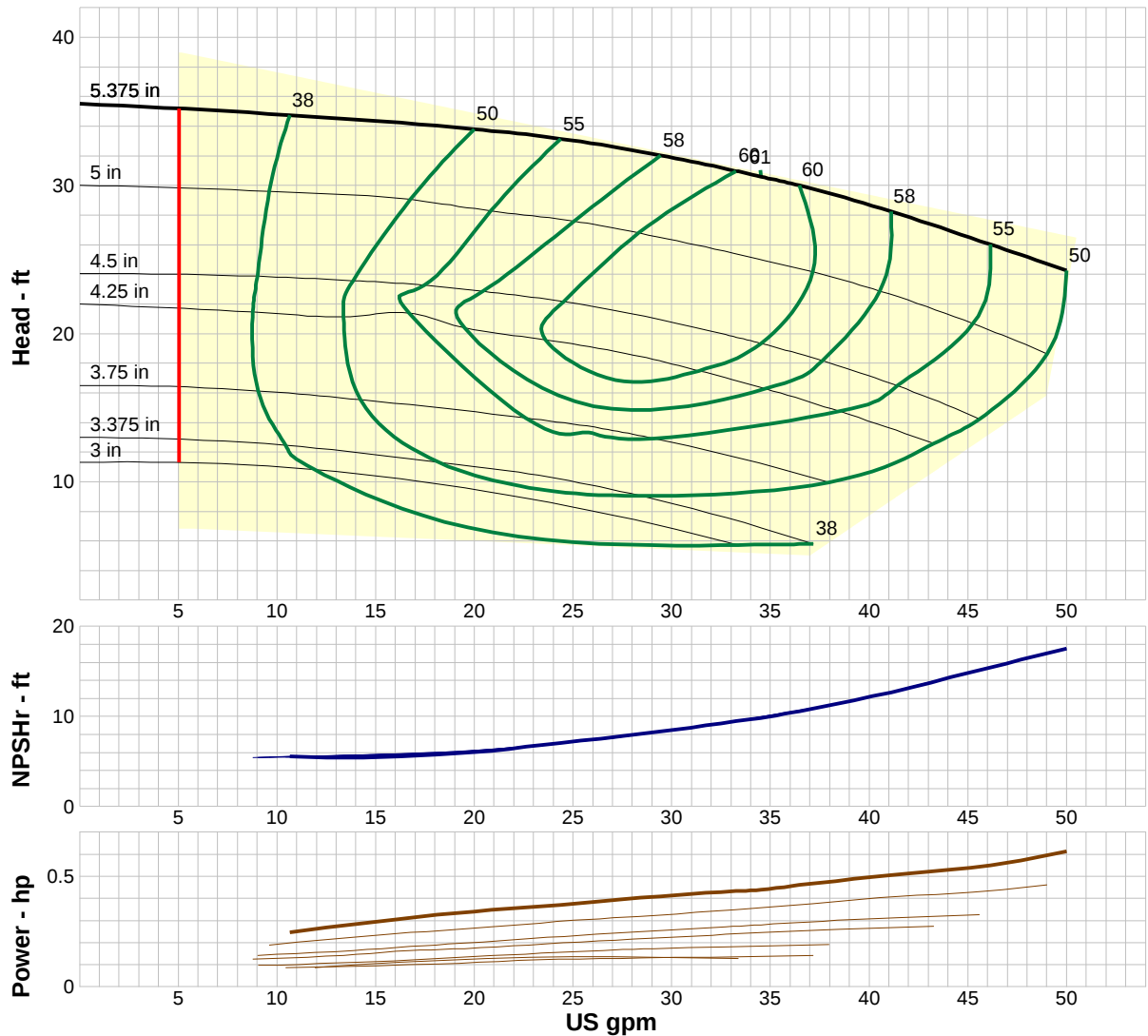
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.375 in
Power: 0.5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	34.5 US gpm
Head:	30.6 ft
Eff:	61%
Power:	0.439 hp
NPSHr:	9.85 ft
---- Design Curve ----	
Shutoff head:	35.5 ft
Shutoff dP:	15.4 psi
Min flow:	5 US gpm
BEP:	61% @ 34.5 US gpm
NOL power:	0.613 hp @ 50 US gpm
-- Max Curve --	
Max power:	0.613 hp @ 50 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
48	1750	25.2	53	0.581	16.5
40	1750	28.7	58	0.495	12.2
32	1750	31.3	59	0.426	9.1
24	1750	33.2	55	0.368	6.98
16	1750	34.2	45	0.3	5.83