



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 2SS Optional
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP ICS/ICSF
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 4.75 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

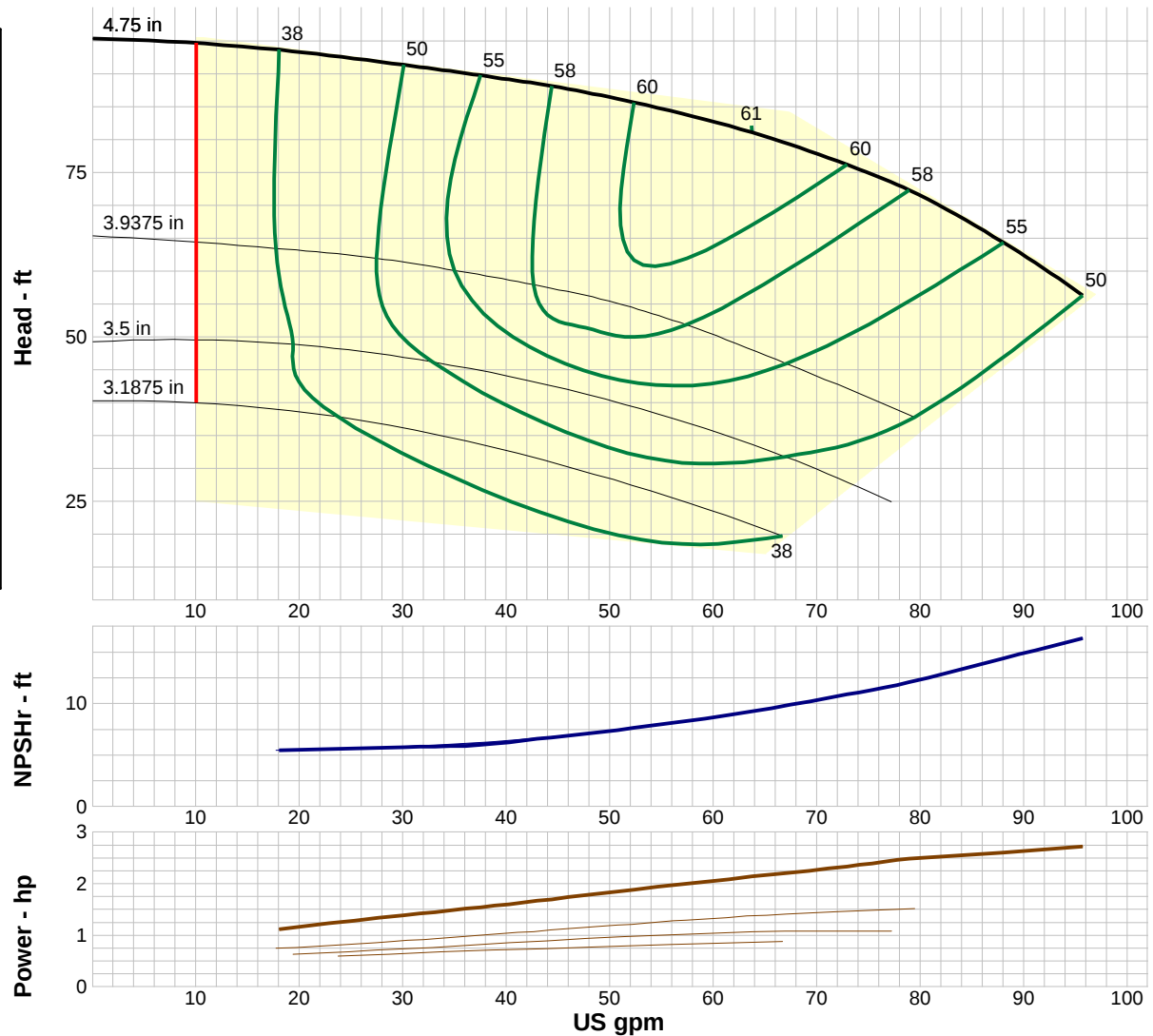
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

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

---- Data Point ----	
Flow:	63.7 US gpm
Head:	81.1 ft
Eff:	61%
Power:	2.14 hp
NPSHr:	9.27 ft
---- Design Curve ----	
Shutoff head:	95.3 ft
Shutoff dP:	41.2 psi
Min flow:	10 US gpm
BEP:	61% @ 63.7 US gpm
NOL power:	2.72 hp @ 95.7 US gpm
-- Max Curve --	
Max power:	2.72 hp @ 95.7 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
91.9	3500	60.3	52	2.66	15.4
76.6	3500	73.8	59	2.43	11.6
61.3	3500	82	61	2.08	8.92
46	3500	87.6	58	1.74	6.92
30.6	3500	91.2	50	1.4	5.81

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Pump:

Size: 2SS
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP ICS/ICSF
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.5 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.

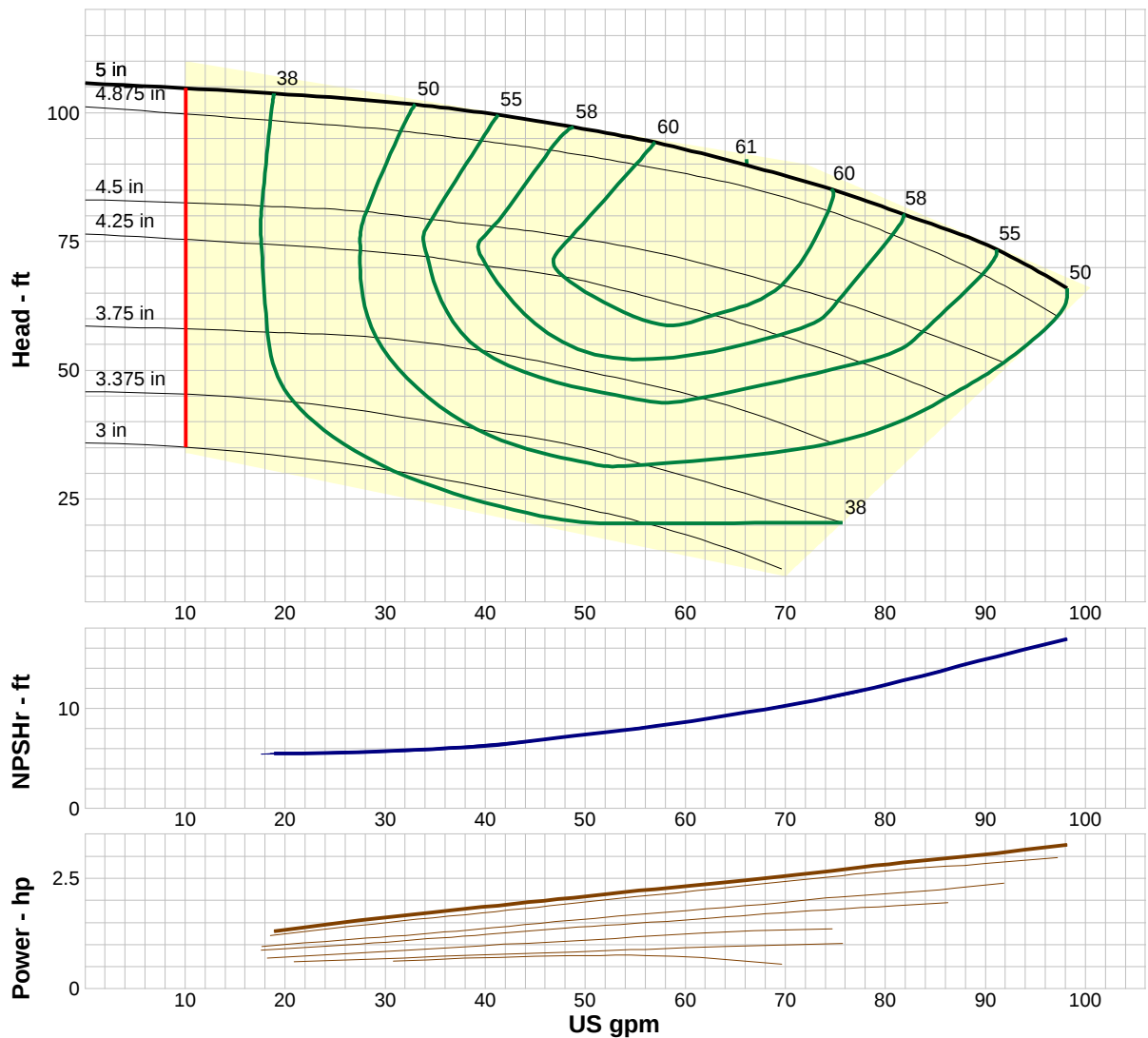
Pump Selection Warnings:

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:	66.1 US gpm
Head:	89.8 ft
Eff:	61%
Power:	2.46 hp
NPSHr:	9.61 ft
---- Design Curve ----	
Shutoff head:	106 ft
Shutoff dP:	45.7 psi
Min flow:	10 US gpm
BEP:	61% @ 66.1 US gpm
NOL power:	3.26 hp @ 98.1 US gpm
-- Max Curve --	
Max power:	3.26 hp @ 98.1 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
94.2	3500	70.1	53	3.16	16
78.5	3500	82.5	59	2.77	12
62.8	3500	91.4	61	2.38	9.11
47.1	3500	97.7	57	2.02	7.05
31.4	3500	102	49	1.65	5.82