

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1SS Optional
 Type: CC_ENDSUCTION_C
 Synch speed: 1800 rpm
 Curve: GP ICS/ICSF
 Specific Speeds:
 Dimensions:
 Speed: 1750 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

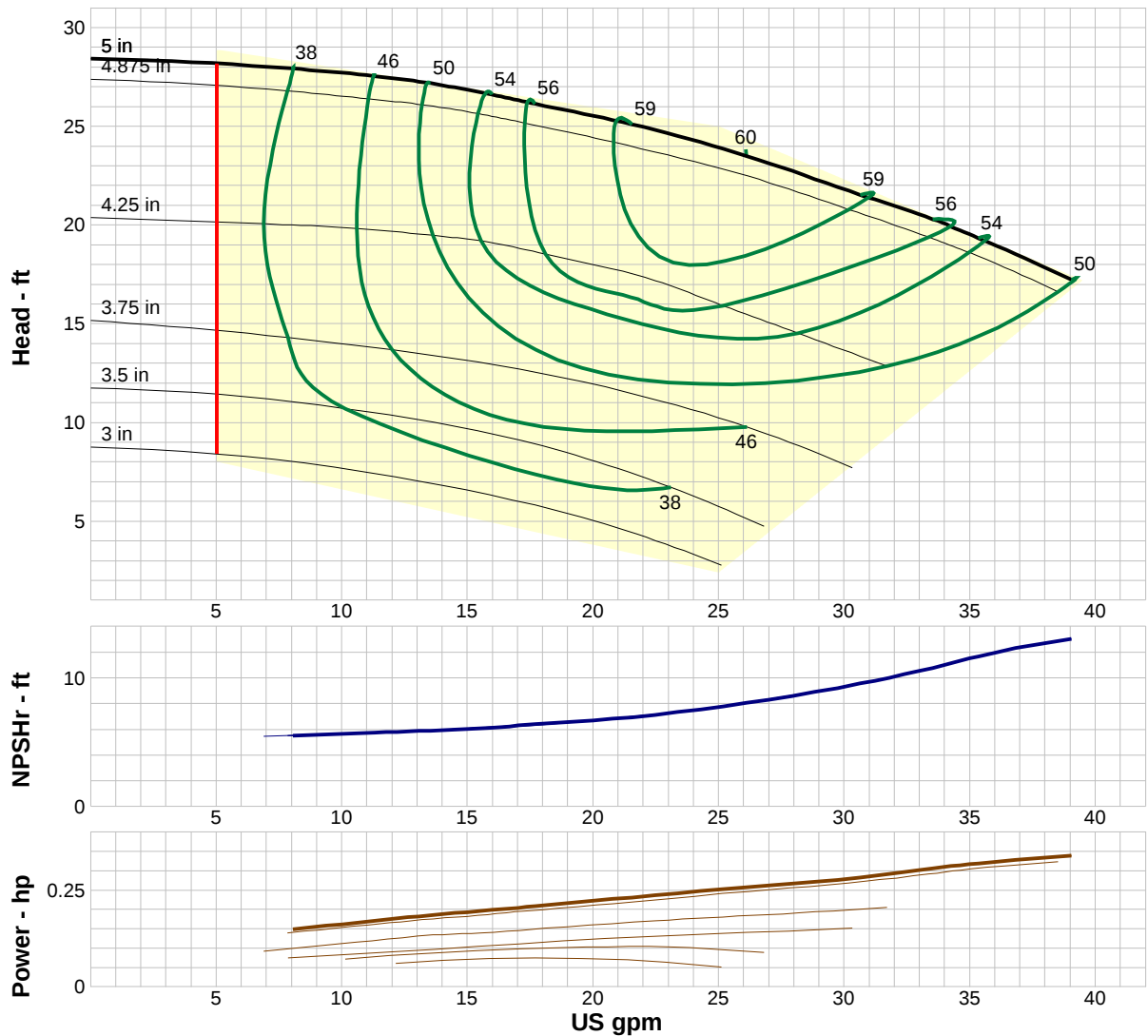
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

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

---- Data Point ----	
Flow:	26.1 US gpm
Head:	23.5 ft
Eff:	60%
Power:	0.258 hp
NPSHr:	8.05 ft
---- Design Curve ----	
Shutoff head:	28.4 ft
Shutoff dP:	12.3 psi
Min flow:	5 US gpm
BEP:	60% @ 26.1 US gpm
NOL power:	0.34 hp @ 39 US gpm
-- Max Curve --	
Max power:	0.34 hp @ 39 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
37.4	1750	18.2	52	0.331	12.4
31.2	1750	21.3	58	0.287	9.8
25	1750	23.9	60	0.252	7.78
18.7	1750	25.9	57	0.214	6.54
12.5	1750	27.3	48	0.179	5.83

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Pump:

Size: 1SS
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP ICS/ICSF
 Specific Speeds:
 Dimensions:
 Speed: 1750 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

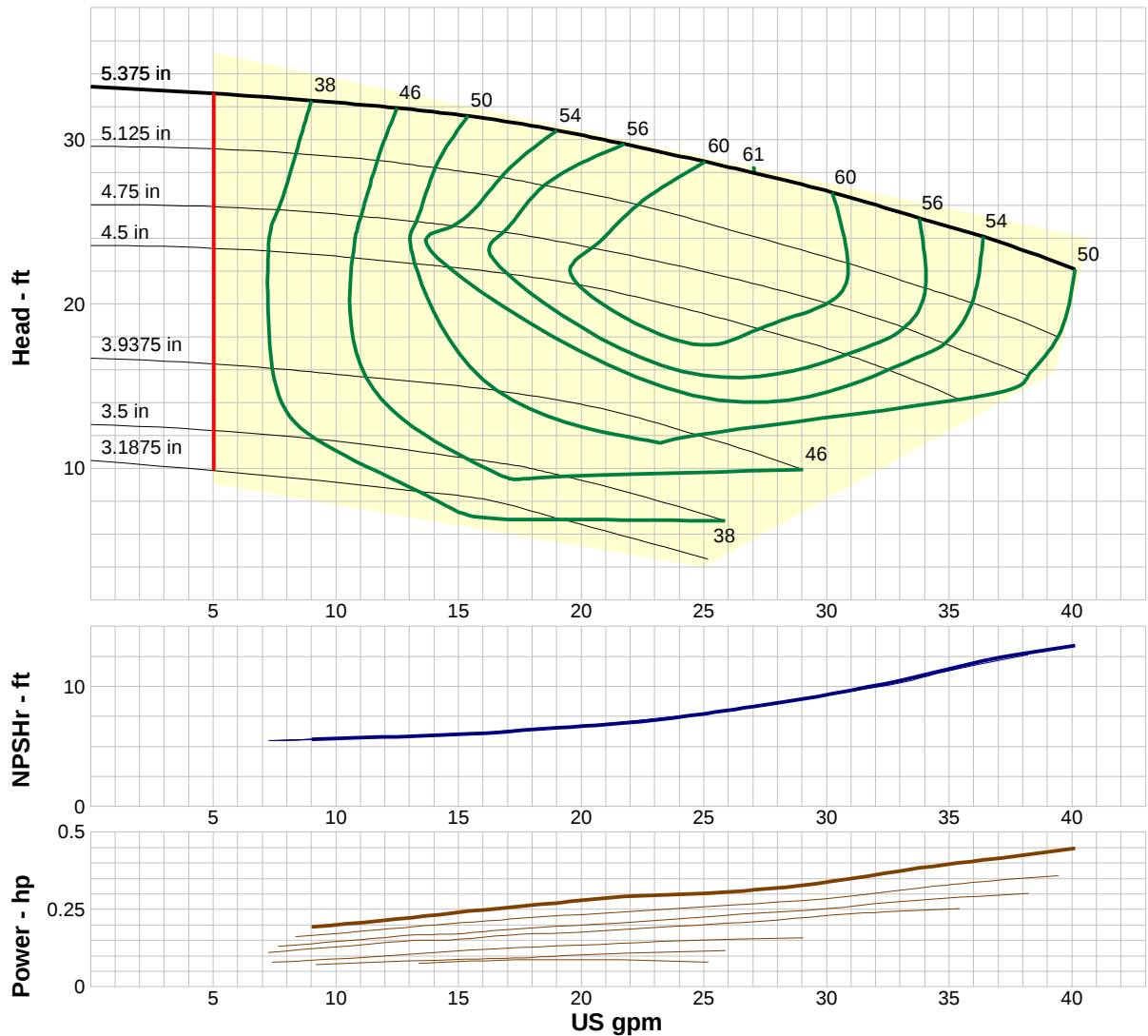
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

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

---- Data Point ----	
Flow:	27 US gpm
Head:	28 ft
Eff:	61%
Power:	0.313 hp
NPSHr:	8.32 ft
---- Design Curve ----	
Shutoff head:	33.2 ft
Shutoff dP:	14.4 psi
Min flow:	5 US gpm
BEP:	61% @ 27 US gpm
NOL power:	0.447 hp @ 40.1 US gpm
-- Max Curve --	
Max power:	0.447 hp @ 40.1 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
38.5	1750	22.9	52	0.431	12.8
32.1	1750	26	58	0.364	10.2
25.7	1750	28.4	60	0.306	7.94
19.3	1750	30.5	54	0.274	6.6
12.8	1750	31.9	46	0.221	5.85