

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22BF-1
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP 3656/3756
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 6.75 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2 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.

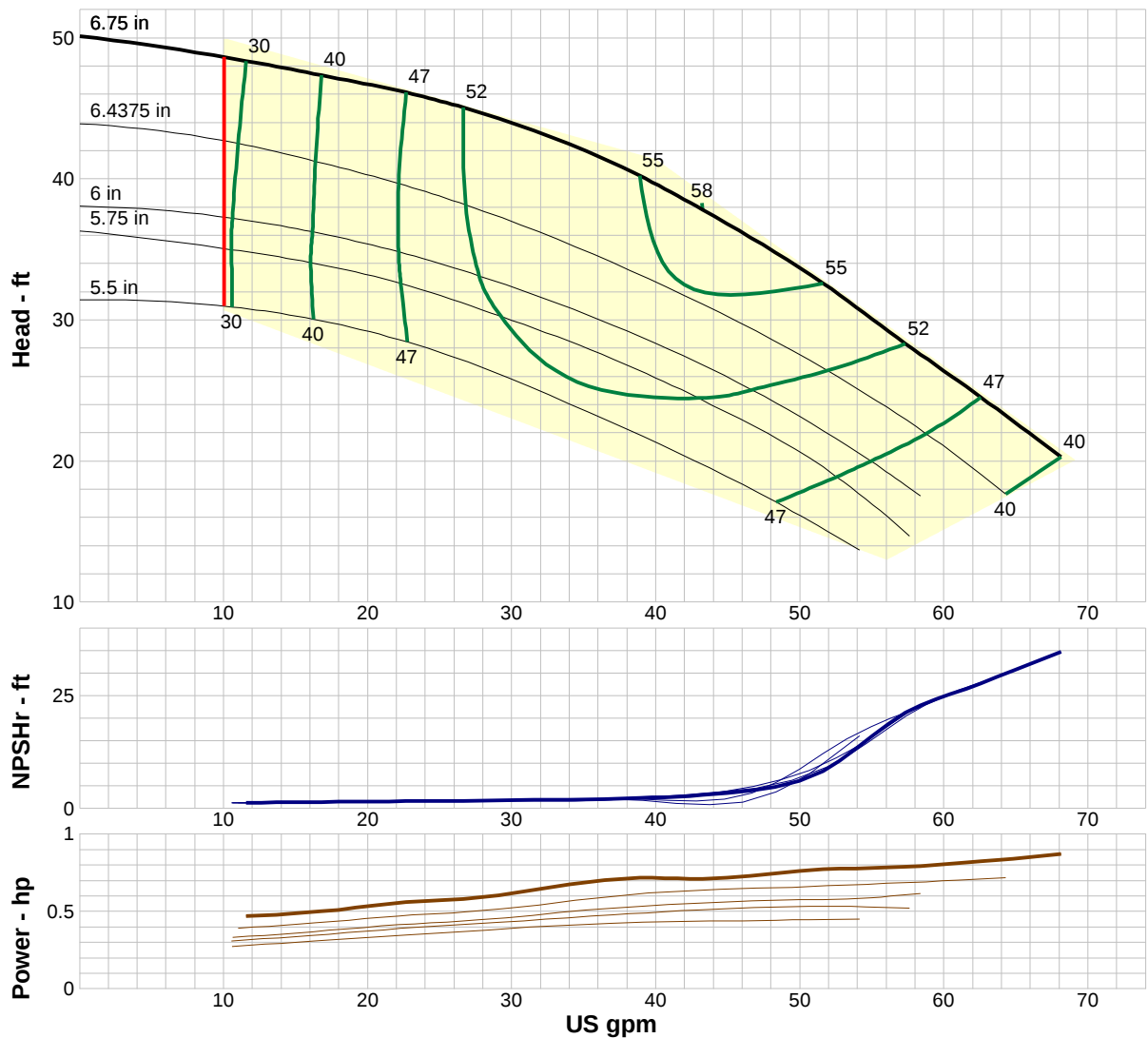
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.1875 in
 Power: 0.75 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	43.2 US gpm
Head:	37.8 ft
Eff:	58%
Power:	0.712 hp
NPSHr:	3.01 ft
---- Design Curve ----	
Shutoff head:	50.1 ft
Shutoff dP:	21.7 psi
Min flow:	10 US gpm
BEP:	58% @ 43.2 US gpm
NOL power:	0.872 hp @ 68.1 US gpm
-- Max Curve --	
Max power:	0.872 hp @ 68.1 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
65.4	1750	22.3	43	0.849	31.4
54.5	1750	30.4	53	0.78	14.9
43.6	1750	37.6	58	0.714	3.26
32.7	1750	42.7	53	0.65	2.06
21.8	1750	46.3	46	0.553	1.6