

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22BF-1
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP 3656/3756
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 6.75 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2 in
 Discharge: 1 in

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.1875 in

Power: 5 hp
 Eye area: --- in²

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

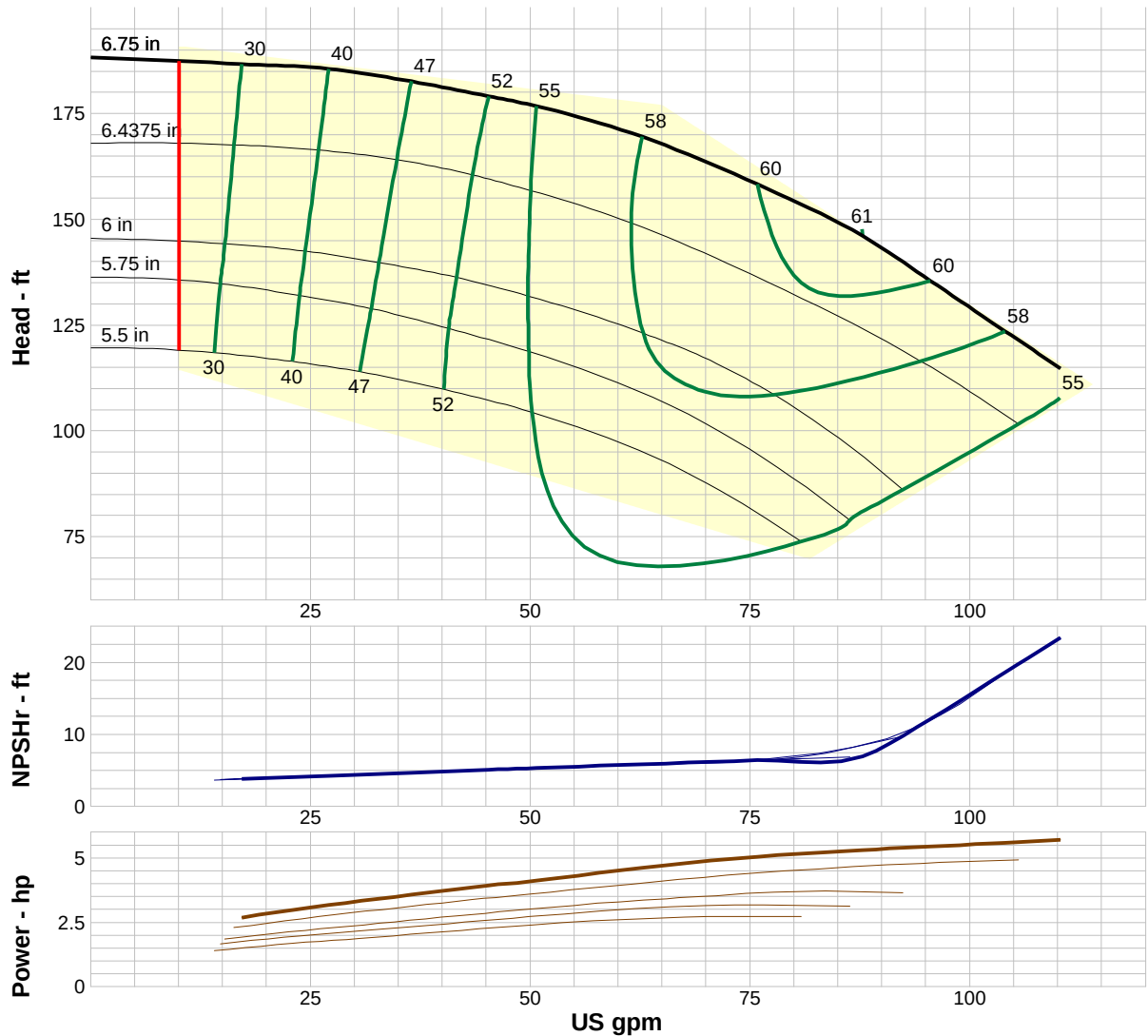
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	87.8 US gpm
Head:	146 ft
Eff:	61%
Power:	5.31 hp
NPSHr:	6.98 ft
---- Design Curve ----	
Shutoff head:	188 ft
Shutoff dP:	81.4 psi
Min flow:	10 US gpm
BEP:	61% @ 87.8 US gpm
NOL power:	5.71 hp @ 110 US gpm
-- Max Curve --	
Max power:	5.71 hp @ 110 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
106	3500	121	57	5.63	20.2
88.2	3500	146	61	5.32	7.25
70.6	3500	163	59	4.88	6.21
52.9	3500	175	56	4.21	5.44
35.3	3500	183	46	3.53	4.67