

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 22SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 8.5 in
Impeller:
Ns: ---
Nss: ---
Suction: 3 in
Discharge: 2.5 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1562 in
Power: 50 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

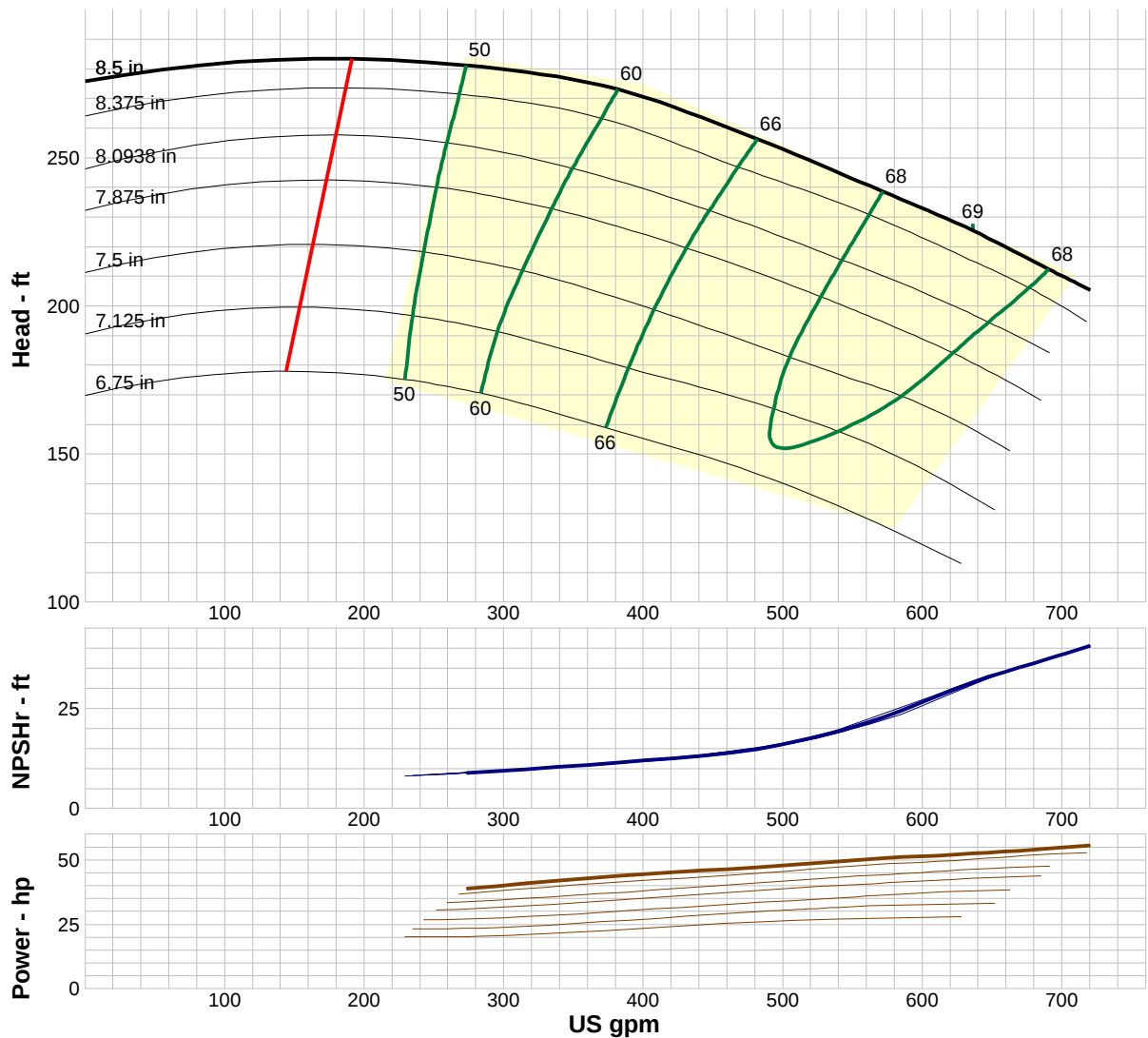
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	636 US gpm
Head:	225 ft
Eff:	69%
Power:	52.5 hp
NPSHr:	31.6 ft
---- Design Curve ----	
Shutoff head:	276 ft
Shutoff dP:	119 psi
Min flow:	191 US gpm
BEP:	69% @ 636 US gpm
NOL power:	55.7 hp @ 720 US gpm
-- Max Curve --	
Max power:	55.7 hp @ 720 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
691	3500	212	68	54.5	37.5
576	3500	238	68	50.8	23.3
461	3500	260	65	46.5	14.2
346	3500	276	57	42.2	10.7
230	3500	280	46	36.7	7.96