

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 5SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 5SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 6.875 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 2 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1562 in
Power: 17.5 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

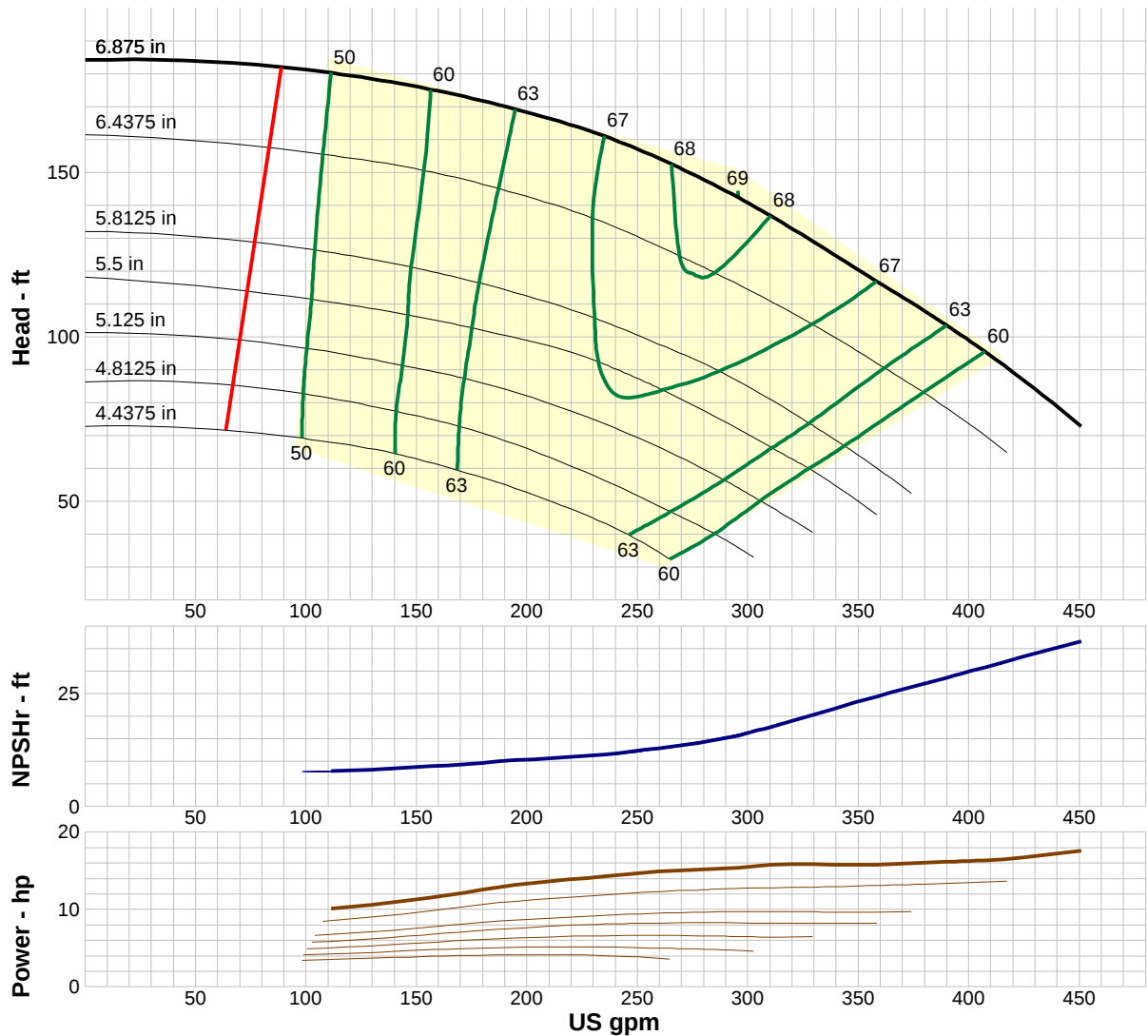
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	296 US gpm
Head:	142 ft
Eff:	69%
Power:	15.4 hp
NPSHr:	15.8 ft
---- Design Curve ----	
Shutoff head:	184 ft
Shutoff dP:	79.6 psi
Min flow:	88.7 US gpm
BEP:	69% @ 296 US gpm
NOL power:	17.6 hp @ 451 US gpm
-- Max Curve --	
Max power:	17.6 hp @ 451 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
433	3500	82.1	52	17.1	34.3
361	3500	116	67	15.8	24.8
289	3500	144	69	15.3	15.3
217	3500	165	65	13.8	11
144	3500	177	57	11.1	8.64