

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 27SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 27SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 9.75 in
Impeller:
Ns: ---
Nss: ---
Suction: 3 in
Discharge: 2.5 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

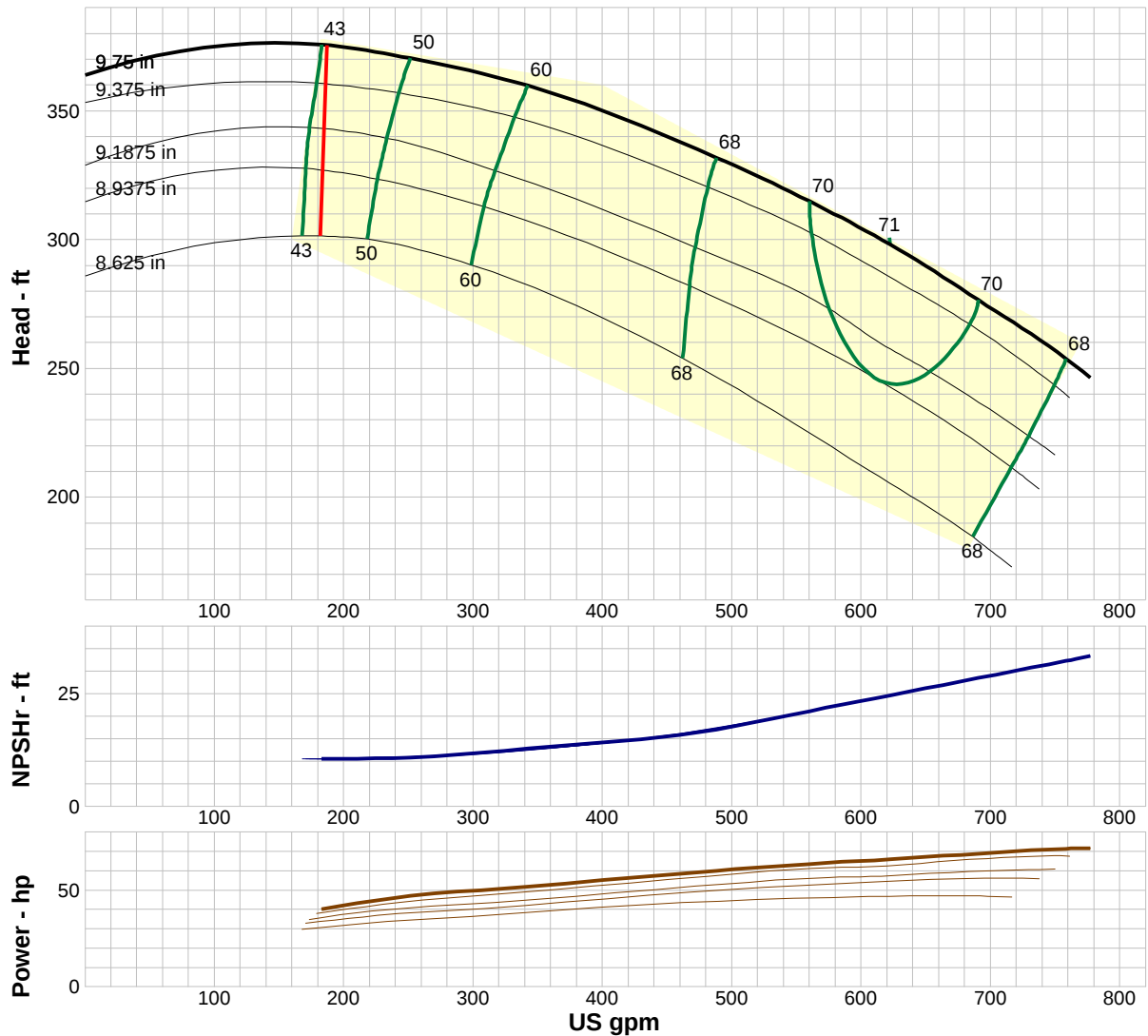
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.3125 in
Power: 75 hp
Eye area: --- in²

---- Data Point ----	
Flow:	622 US gpm
Head:	298 ft
Eff:	71%
Power:	66 hp
NPSHr:	24.7 ft
---- Design Curve ----	
Shutoff head:	364 ft
Shutoff dP:	157 psi
Min flow:	187 US gpm
BEP:	71% @ 622 US gpm
NOL power:	71.6 hp @ 777 US gpm
-- Max Curve --	
Max power:	71.6 hp @ 777 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
746	3500	258	68	71	31.7
622	3500	298	71	66	24.7
498	3500	329	68	60.6	17.7
373	3500	354	62	53.6	13.8
249	3500	371	50	46.8	10.9