

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 23SFH
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: Goulds 23SFH
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 8.3438 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 4 in
 Discharge: 3 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

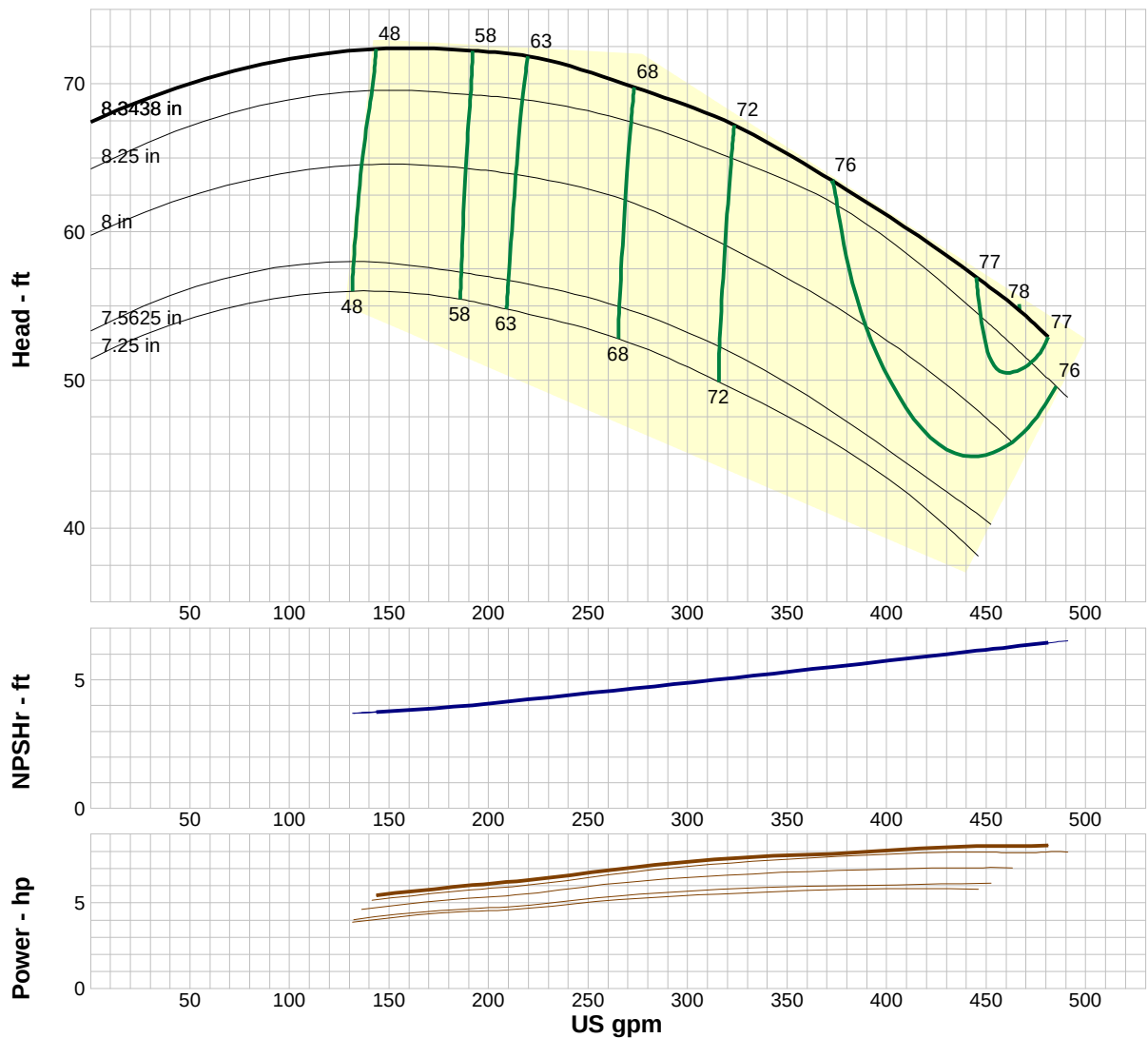
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: --- °F
 Pressure: 175 psi g
 Sphere size: 0.15625 in
 Power: 9 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	467 US gpm
Head:	54.6 ft
Eff:	77%
Power:	8.31 hp
NPSHr:	6.32 ft
---- Design Curve ----	
Shutoff head:	67.4 ft
Shutoff dP:	29.1 psi
Min flow:	--- US gpm
BEP:	78% @ 467 US gpm
NOL power:	8.34 hp @ 481 US gpm
-- Max Curve --	
Max power:	8.34 hp @ 481 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
462	1750	55.1	77	8.31	6.27
385	1750	62.3	76	7.93	5.61
308	1750	68	71	7.45	4.96
231	1750	71.4	64	6.48	4.33
154	1750	72.3	50	5.58	3.81