

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22SFH
Type: CC_ENDSUCTION_C
Synch speed: 1800 rpm
Curve: Goulds 22SFH
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 8.5 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

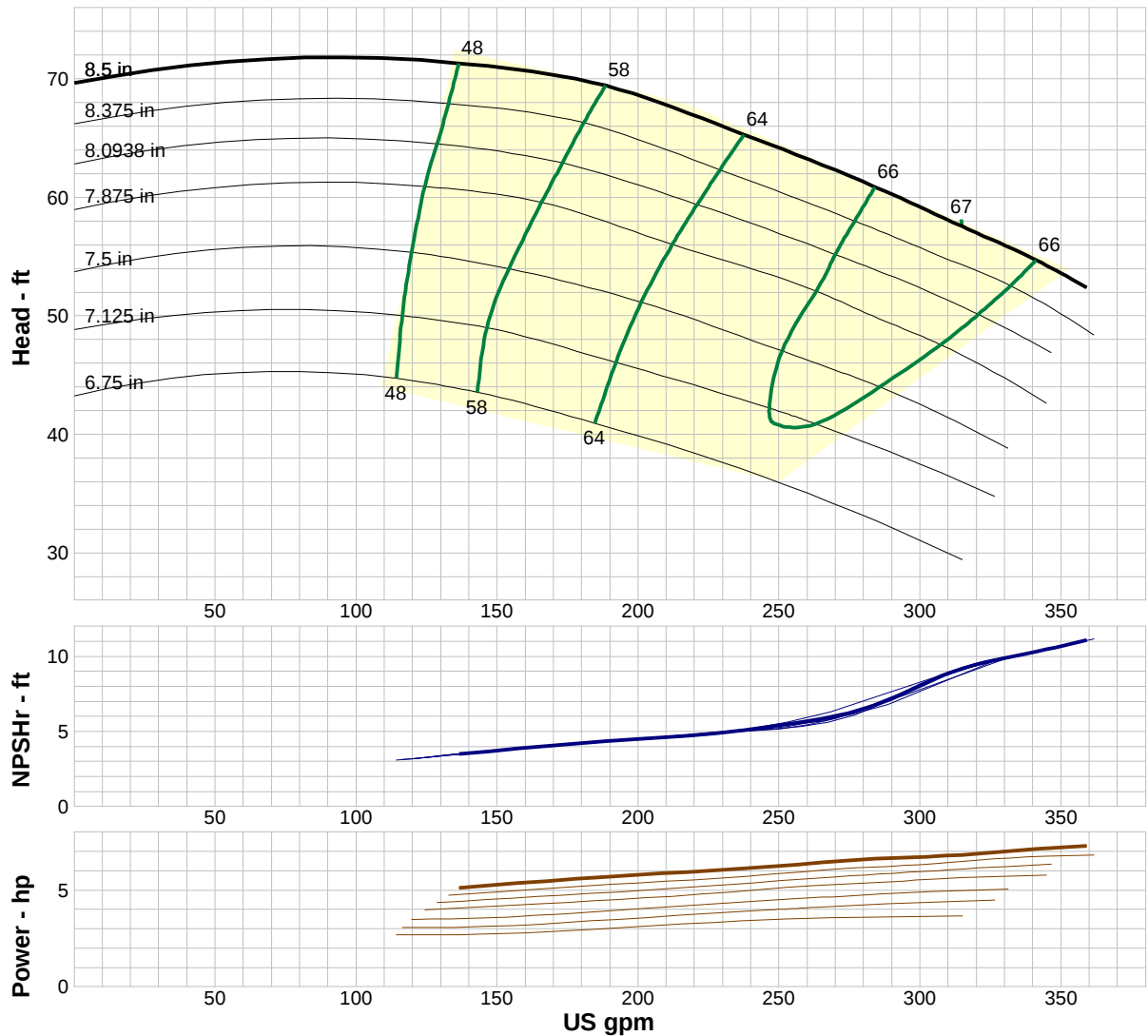
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: --- °F
Pressure: 175 psi g
Sphere size: 0.15625 in
Power: 7.5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	315 US gpm
Head:	57.5 ft
Eff:	67%
Power:	6.83 hp
NPSHr:	9.22 ft
---- Design Curve ----	
Shutoff head:	69.6 ft
Shutoff dP:	30.1 psi
Min flow:	--- US gpm
BEP:	67% @ 315 US gpm
NOL power:	7.3 hp @ 359 US gpm
-- Max Curve --	
Max power:	7.3 hp @ 359 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
344	1750	54.3	66	7.16	10.4
287	1750	60.6	66	6.64	6.98
230	1750	65.9	63	6.05	4.97
172	1750	70	55	5.51	4.09
115	1750	71.1	44	4.88	3.15