

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 5SFH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: Goulds 5SFH
Specific Speeds:
Dimensions:
Speed: 1750 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: 1.75 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

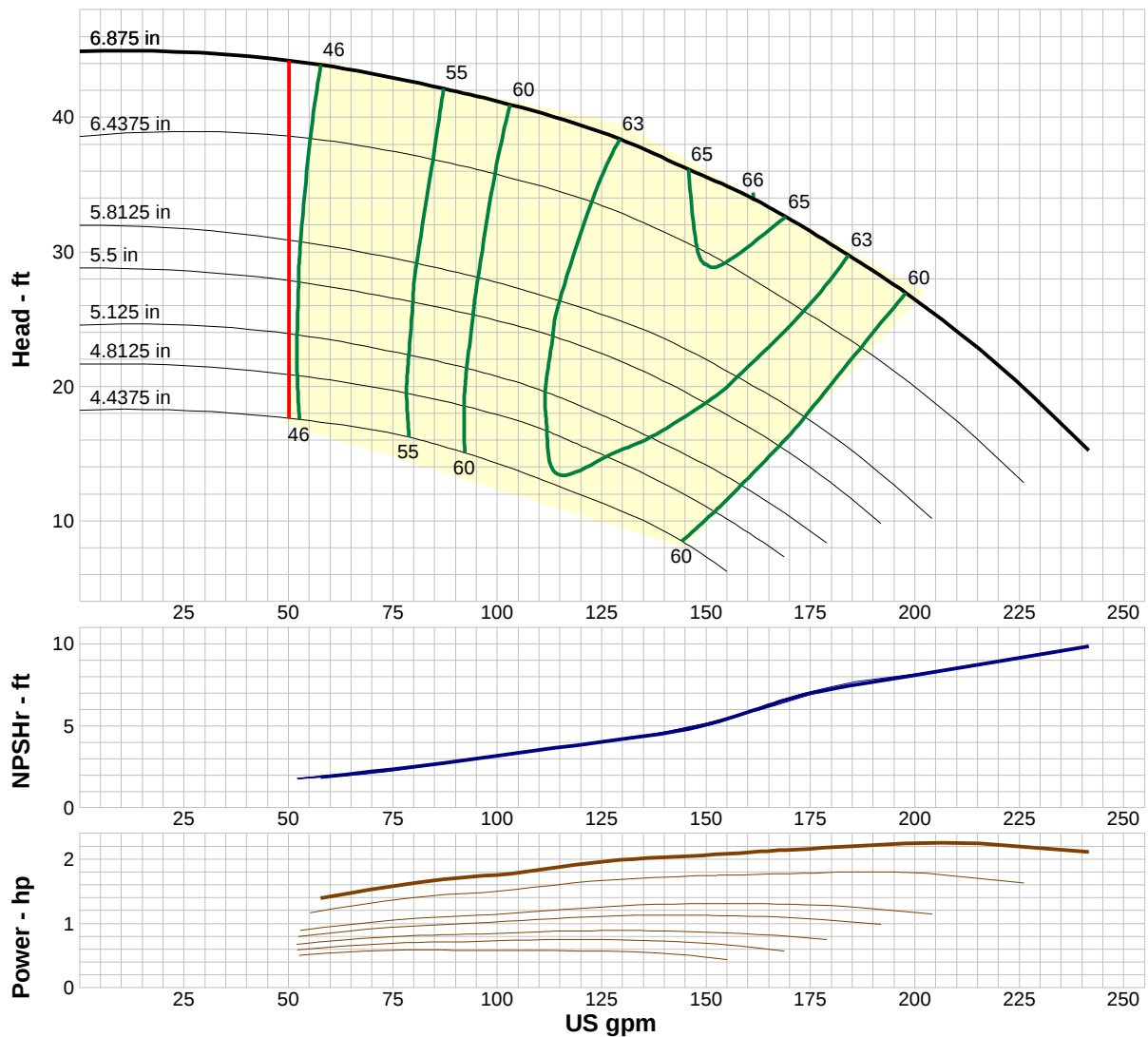
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	161 US gpm
Head:	34 ft
Eff:	65%
Power:	2.11 hp
NPSHr:	5.93 ft
---- Design Curve ----	
Shutoff head:	44.9 ft
Shutoff dP:	19.4 psi
Min flow:	50 US gpm
BEP:	66% @ 161 US gpm
NOL power:	2.24 hp @ 198 US gpm
-- Max Curve --	
Max power:	2.24 hp @ 198 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
232	1750	17.8	47	2.14	9.47
193	1750	27.9	61	2.23	7.82
154	1750	35	65	2.08	5.43
116	1750	39.7	61	1.88	3.74
77.2	1750	42.7	52	1.58	2.45