

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3ST
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP NPE/NPE-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5.375 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.5 in
Discharge: 1.5 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

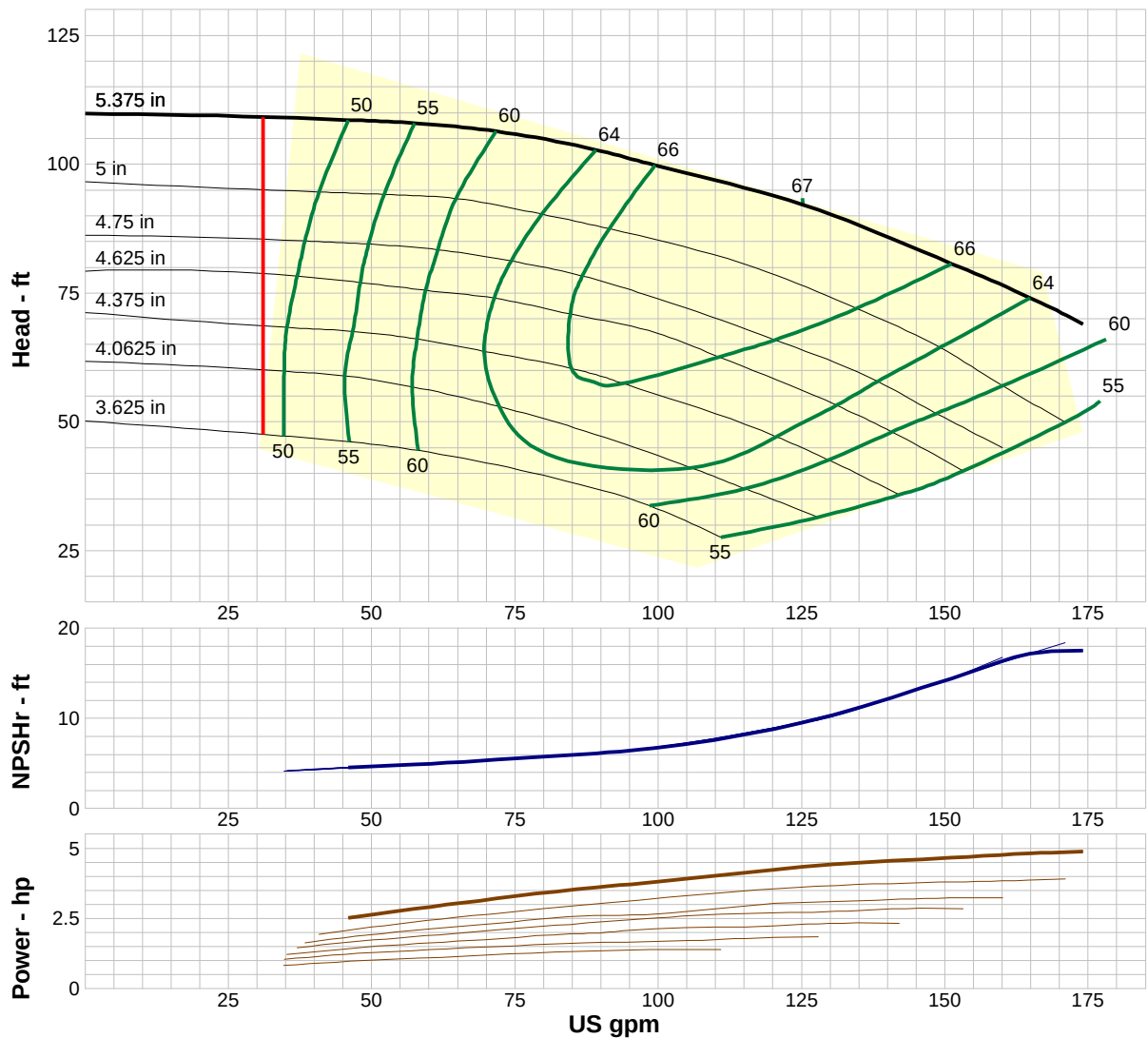
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.3437 in
Power: 5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	125 US gpm
Head:	92.2 ft
Eff:	67%
Power:	4.34 hp
NPSHr:	9.53 ft
---- Design Curve ----	
Shutoff head:	110 ft
Shutoff dP:	47.5 psi
Min flow:	31 US gpm
BEP:	67% @ 125 US gpm
NOL power:	4.89 hp @ 174 US gpm
-- Max Curve --	
Max power:	4.89 hp @ 174 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
167	3500	72.9	64	4.84	17.3
139	3500	86	67	4.51	12.2
111	3500	96.3	66	4.04	8.01
83.4	3500	104	63	3.48	5.9
55.6	3500	108	54	2.79	4.84