



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 4SH
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 6.75 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2.5 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

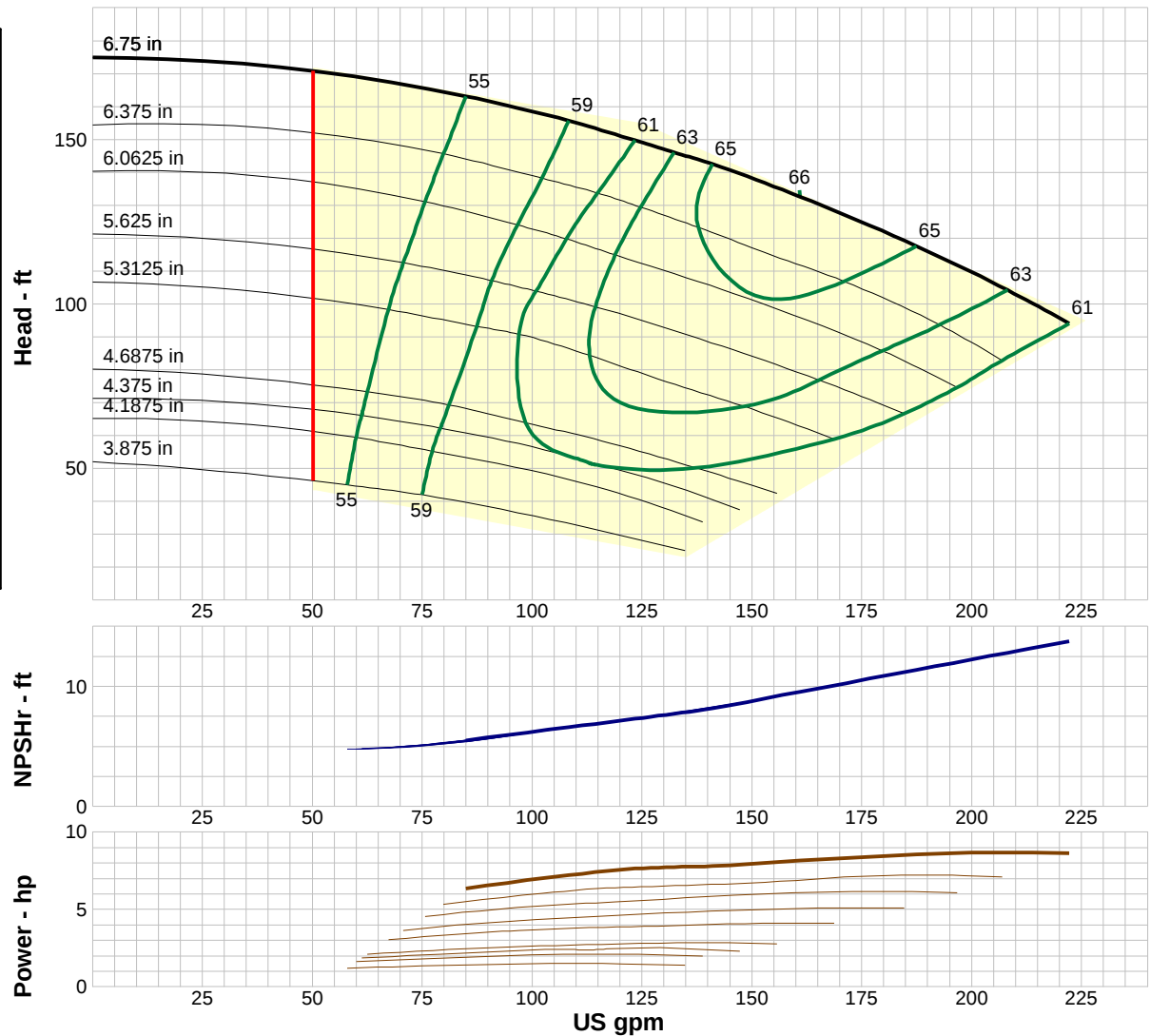
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.1875 in
 Power: 10 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	161 US gpm
Head:	132 ft
Eff:	66%
Power:	8.16 hp
NPSHr:	9.57 ft
---- Design Curve ----	
Shutoff head:	175 ft
Shutoff dP:	75.6 psi
Min flow:	50 US gpm
BEP:	66% @ 161 US gpm
NOL power:	8.69 hp @ 208 US gpm
-- Max Curve --	
Max power:	8.69 hp @ 208 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
214	3500	99.9	62	8.67	13.2
178	3500	123	65	8.42	10.7
142	3500	142	65	7.82	8.27
107	3500	156	59	7.17	6.55
71.2	3500	165	53	5.85	4.87