

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3SN
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: Gp NPO/NPO-F
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 5.4375 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2 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

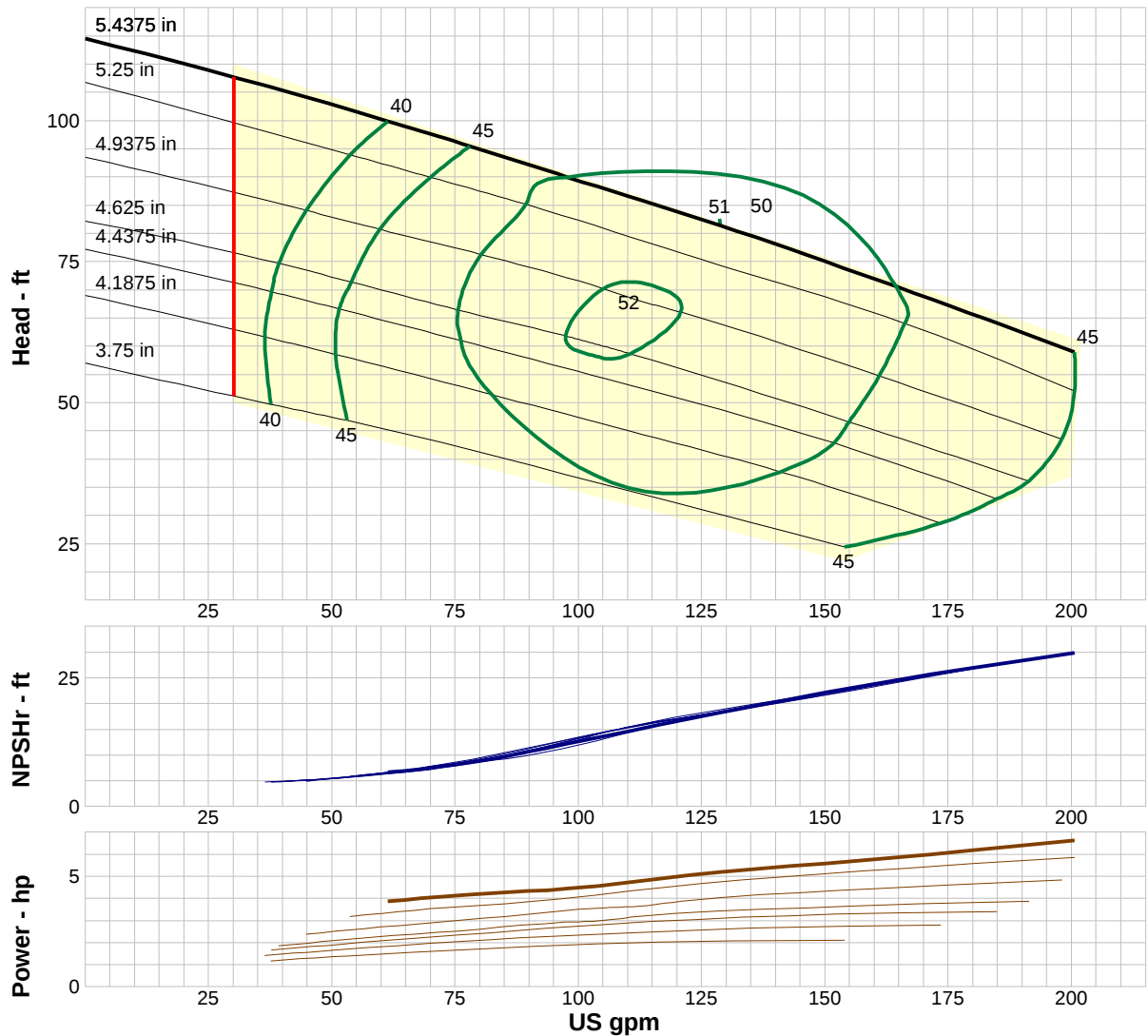
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 125 psi g
 Sphere size: 0.375 in
 Power: 7.5 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	129 US gpm
Head:	81.3 ft
Eff:	51%
Power:	5.2 hp
NPSHr:	18.3 ft
---- Design Curve ----	
Shutoff head:	115 ft
Shutoff dP:	49.5 psi
Min flow:	30 US gpm
BEP:	51% @ 129 US gpm
NOL power:	6.64 hp @ 201 US gpm
-- Max Curve --	
Max power:	6.64 hp @ 201 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
192	3500	61.7	46	6.45	28.6
160	3500	71.9	50	5.78	23.8
128	3500	81.6	51	5.17	18.2
96	3500	90.5	50	4.42	11.9
64	3500	99.2	41	3.92	6.98