

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 9SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 9SFH
Specific Speeds:
Ns: ---
Nss: ---
Dimensions:
Suction: 2 in
Discharge: 1.25 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

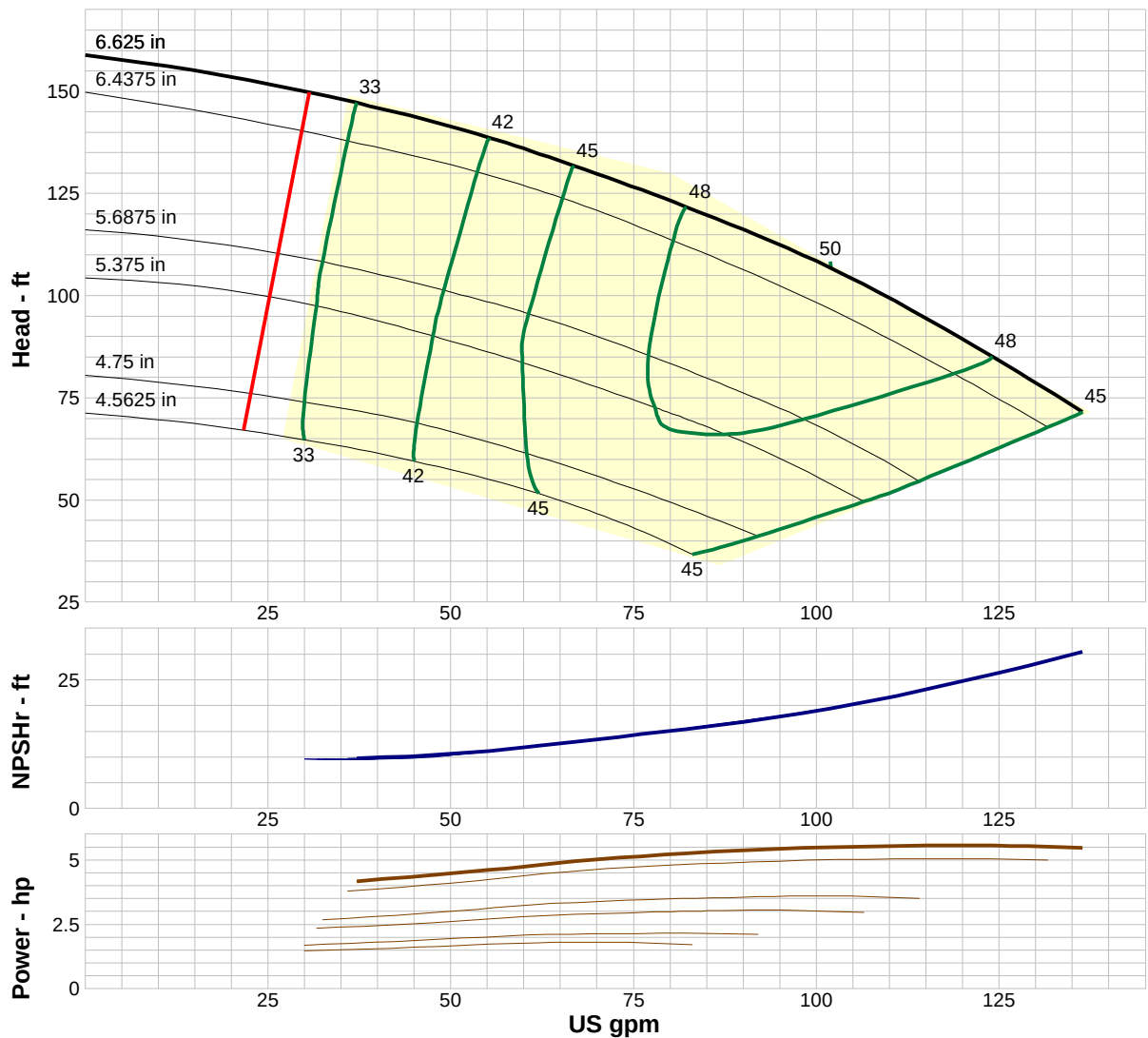
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1875 in
Power: 6 hp
Eye area: --- in²

---- Data Point ----	
Flow:	102 US gpm
Head:	107 ft
Eff:	50%
Power:	5.5 hp
NPSHr:	19.5 ft
---- Design Curve ----	
Shutoff head:	159 ft
Shutoff dP:	68.7 psi
Min flow:	30.6 US gpm
BEP:	50% @ 102 US gpm
NOL power:	5.55 hp @ 124 US gpm
-- Max Curve --	
Max power:	5.55 hp @ 124 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
131	3500	77.4	46	5.51	28.5
109	3500	99.8	49	5.51	21.6
87.2	3500	118	49	5.32	16.5
65.4	3500	133	45	4.9	12.8
43.6	3500	144	36	4.33	10.3