

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 10A-SH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 8.4219 in
Impeller:
Ns: ---
Nss: ---
Suction: 2 in
Discharge: 1 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

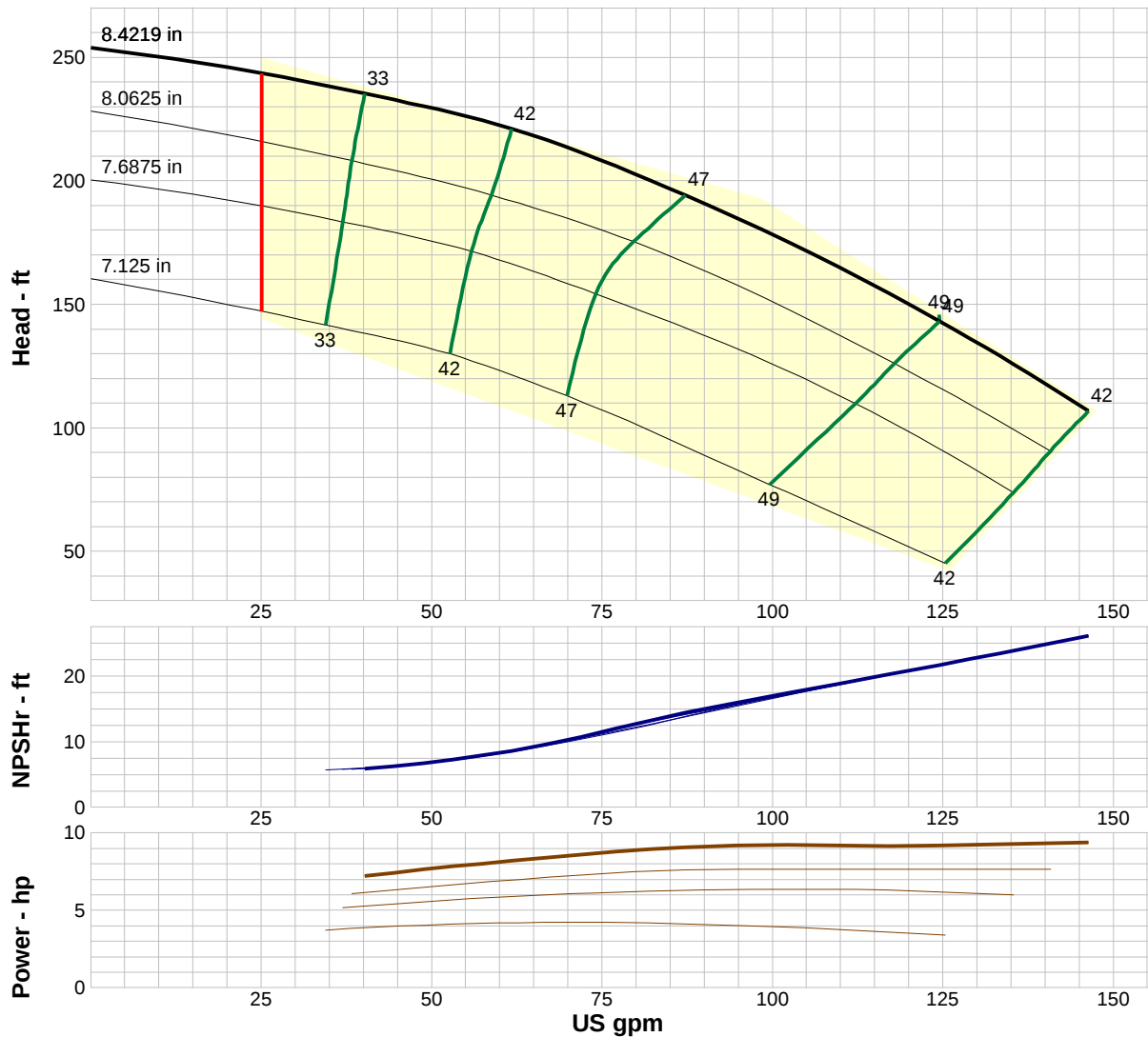
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.125 in
Power: 10 hp
Eye area: --- in²

---- Data Point ----	
Flow:	125 US gpm
Head:	142 ft
Eff:	49%
Power:	9.19 hp
NPSHr:	21.8 ft
---- Design Curve ----	
Shutoff head:	254 ft
Shutoff dP:	110 psi
Min flow:	25 US gpm
BEP:	49% @ 125 US gpm
NOL power:	9.39 hp @ 146 US gpm
-- Max Curve --	
Max power:	9.39 hp @ 146 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
140	3500	117	44	9.33	24.9
117	3500	153	49	9.16	20.3
93.6	3500	185	47	9.11	15.7
70.2	3500	212	44	8.5	10.6
46.8	3500	231	36	7.53	6.72