

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22BF-2
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP 3656/3756
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 5.0625 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

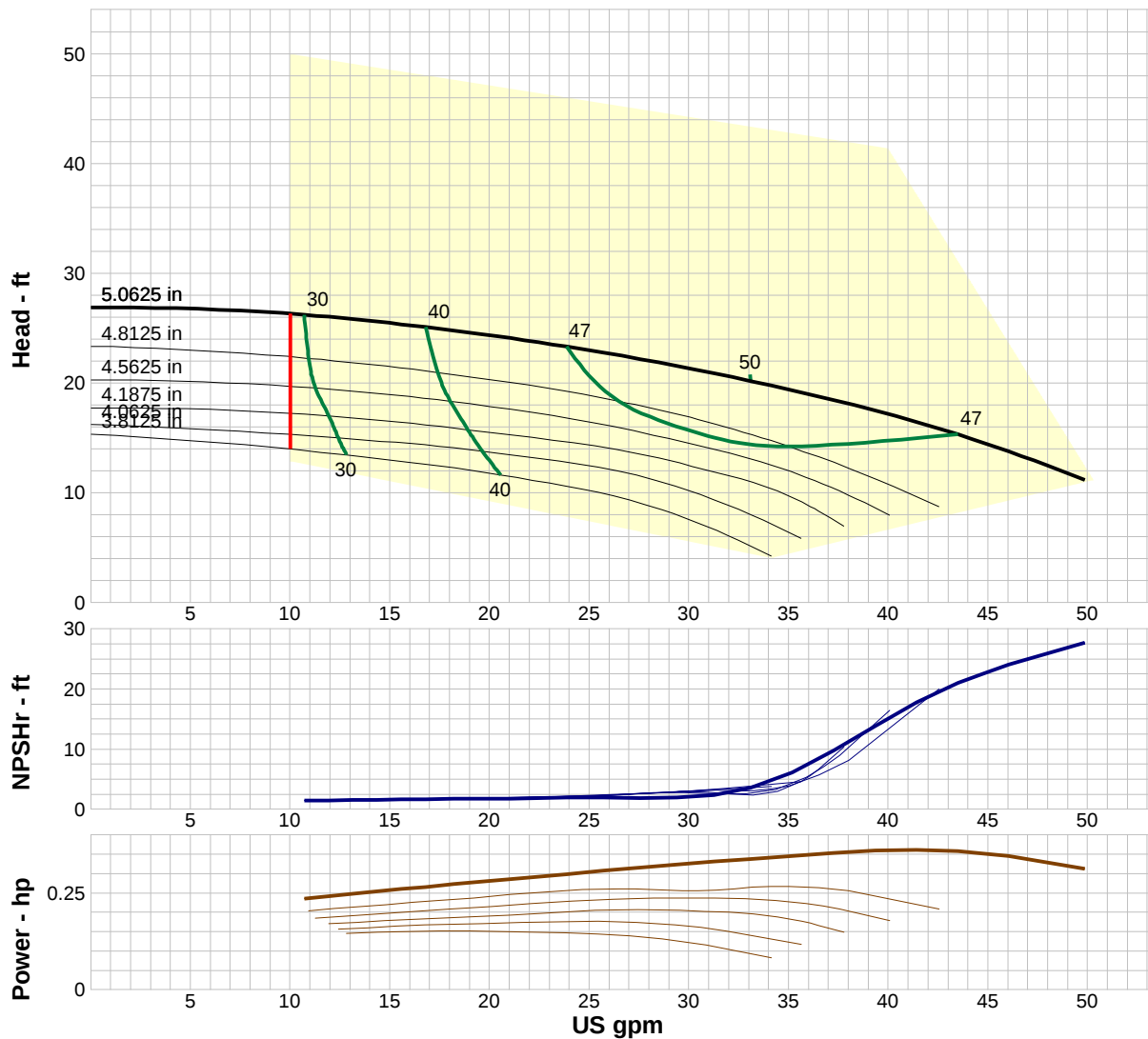
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.1875 in
 Power: 0.75 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	33.1 US gpm
Head:	20.2 ft
Eff:	50%
Power:	0.337 hp
NPSHr:	3.63 ft
---- Design Curve ----	
Shutoff head:	26.9 ft
Shutoff dP:	11.6 psi
Min flow:	10 US gpm
BEP:	50% @ 33.1 US gpm
NOL power:	0.358 hp @ 43.5 US gpm
-- Max Curve --	
Max power:	0.358 hp @ 43.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
47.9	1750	12.4	46	0.326	25.6
39.9	1750	17	48	0.351	15
31.9	1750	20.6	50	0.332	3.39
23.9	1750	23.3	47	0.299	2
16	1750	25.2	39	0.262	1.66