

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 11SFH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: Goulds 11SFH
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 10.0938 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

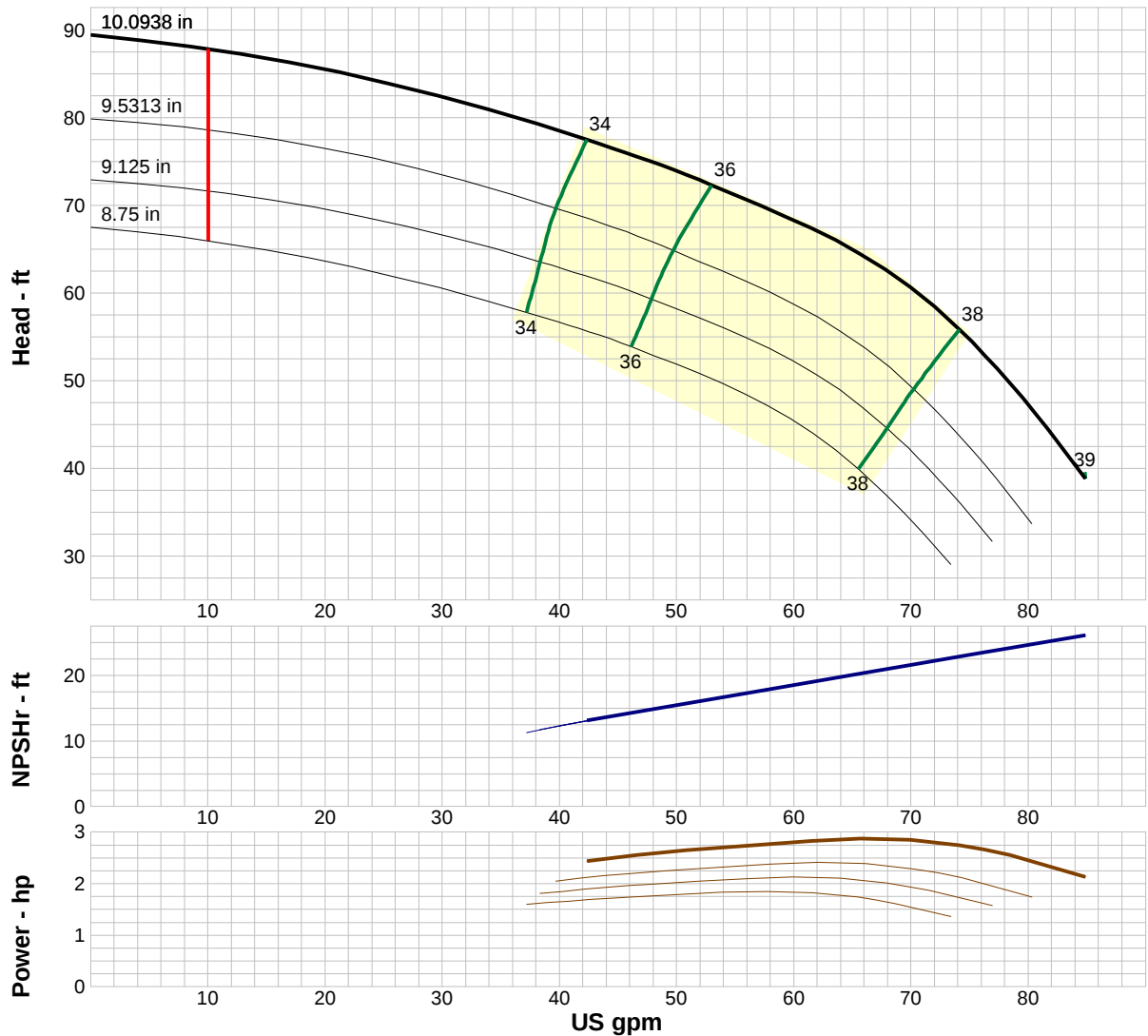
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.3125 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	84.8 US gpm
Head:	38.9 ft
Eff:	39%
Power:	2.14 hp
NPSHr:	26.1 ft
---- Design Curve ----	
Shutoff head:	89.4 ft
Shutoff dP:	38.6 psi
Min flow:	10 US gpm
BEP:	39% @ 84.8 US gpm
NOL power:	2.75 hp @ 74.1 US gpm
-- Max Curve --	
Max power:	2.75 hp @ 74.1 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
81.5	1750	44.1	39	2.32	25.1
67.9	1750	60.7	37	2.73	21
54.3	1750	71.3	36	2.69	16.8
40.7	1750	77.9	34	2.4	12.7
27.2	1750	81.7	31	2.08	8.5