



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 11SFH

Type: CC_ENDSUCTION_C

Synch speed: 3600 rpm

Curve: Goulds 11SFH

Specific Speeds:

Dimensions:

Speed: 3500 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

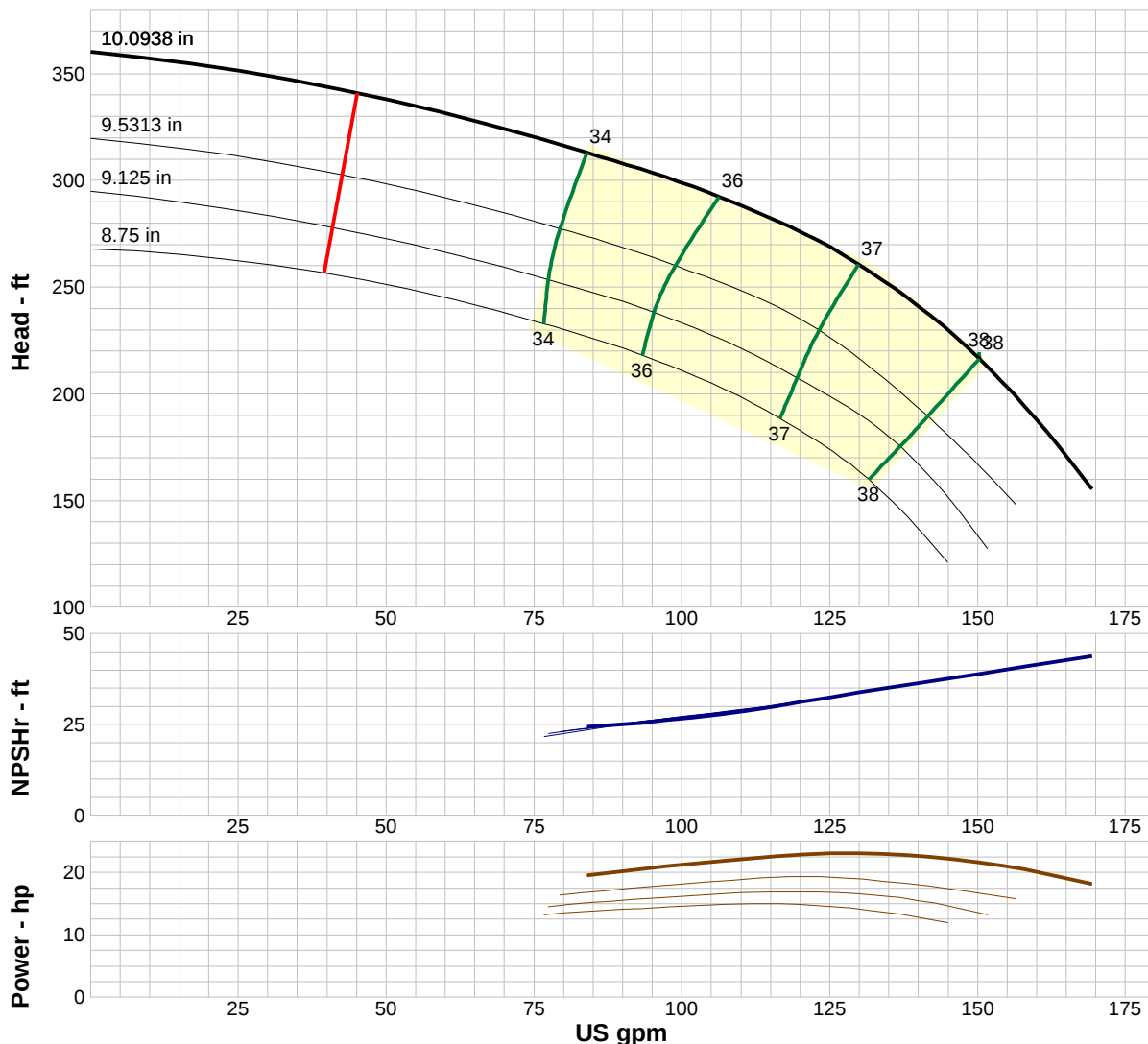
Pressure: 175 psi g

Sphere size: 0.3125 in

Power: 25 hp

Eye area: --- in²

---- Data Point ----	
Flow:	150 US gpm
Head:	217 ft
Eff:	38%
Power:	21.6 hp
NPSHr:	38.9 ft
---- Design Curve ----	
Shutoff head:	360 ft
Shutoff dP:	156 psi
Min flow:	45.1 US gpm
BEP:	38% @ 150 US gpm
NOL power:	23.1 hp @ 130 US gpm
-- Max Curve --	
Max power:	23.1 hp @ 130 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
162	3500	179	37	19.5	42
135	3500	250	37	22.7	35.1
108	3500	290	36	21.9	28.3
81	3500	315	34	19.2	23.9
54	3500	330	31	16.4	19.7