

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 15BF-2

Type: CC_ENDSUCTION

Synch speed: 1800 rpm

Curve: GP 3656/3756

Specific Speeds:

Dimensions:

Speed: 1750 rpm

Dia: 12.5 in

Impeller:

Ns: ---

Nss: ---

Suction: 6 in

Discharge: 4 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

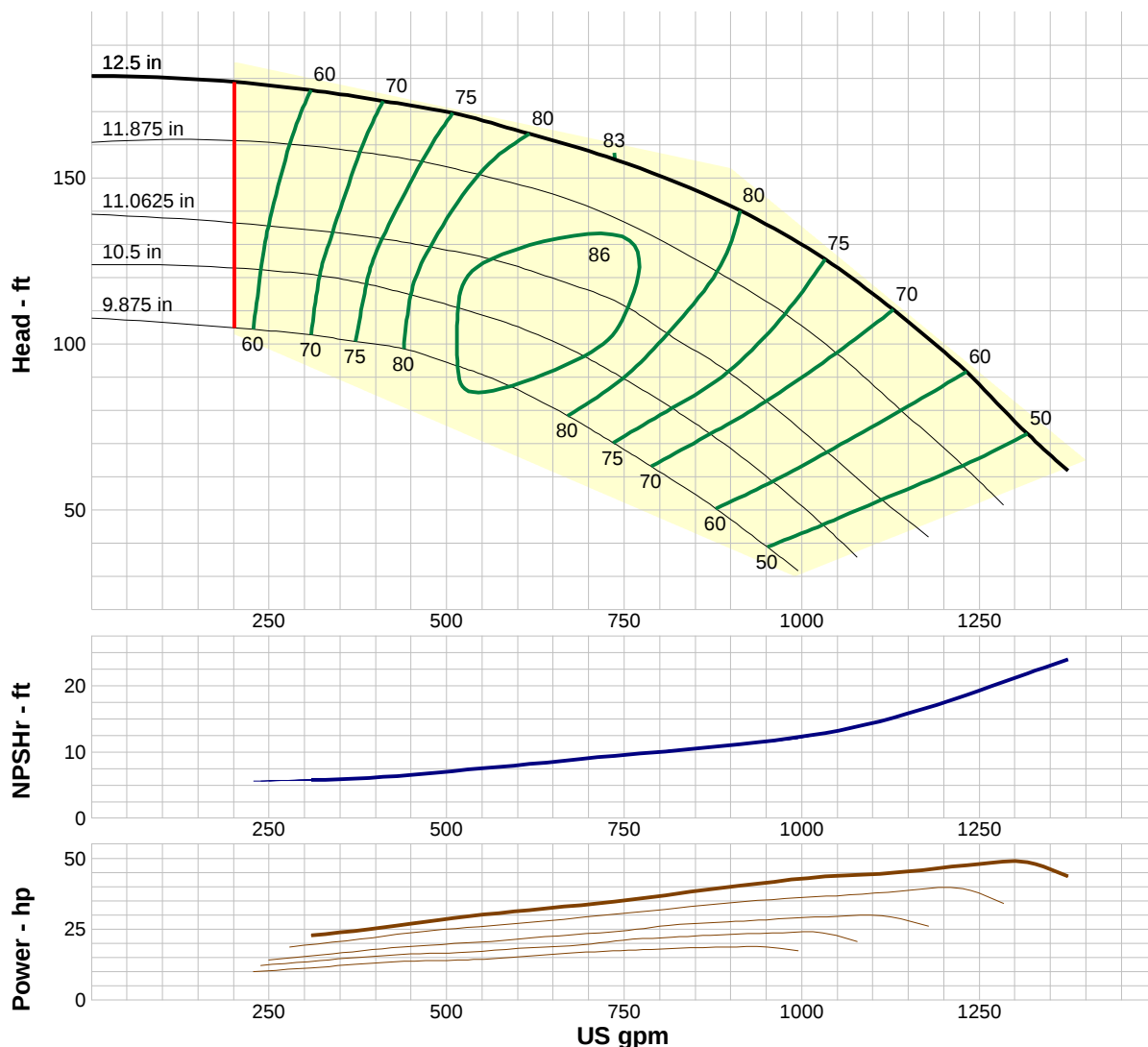
Pressure: 200 psi g

Sphere size: 0.4375 in

Power: 50 hp

Eye area: --- in²

---- Data Point ----	
Flow:	736 US gpm
Head:	156 ft
Eff:	83%
Power:	34.8 hp
NPSHr:	9.45 ft
---- Design Curve ----	
Shutoff head:	181 ft
Shutoff dP:	78.1 psi
Min flow:	200 US gpm
BEP:	83% @ 736 US gpm
NOL power:	48.5 hp @ 1317 US gpm
-- Max Curve --	
Max power:	48.5 hp @ 1317 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1319	1750	72.6	50	48.4	21.9
1099	1750	115	72	44.5	14.5
879	1750	143	81	39.3	10.9
659	1750	160	81	32.8	8.64
440	1750	172	72	26.6	6.51