



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 3MS

Type: CC_ENDSUCTION

Synch speed: 3600 rpm

Curve: Goulds MCS

Specific Speeds:

Dimensions:

Speed: 3500 rpm

Dia: 5.375 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

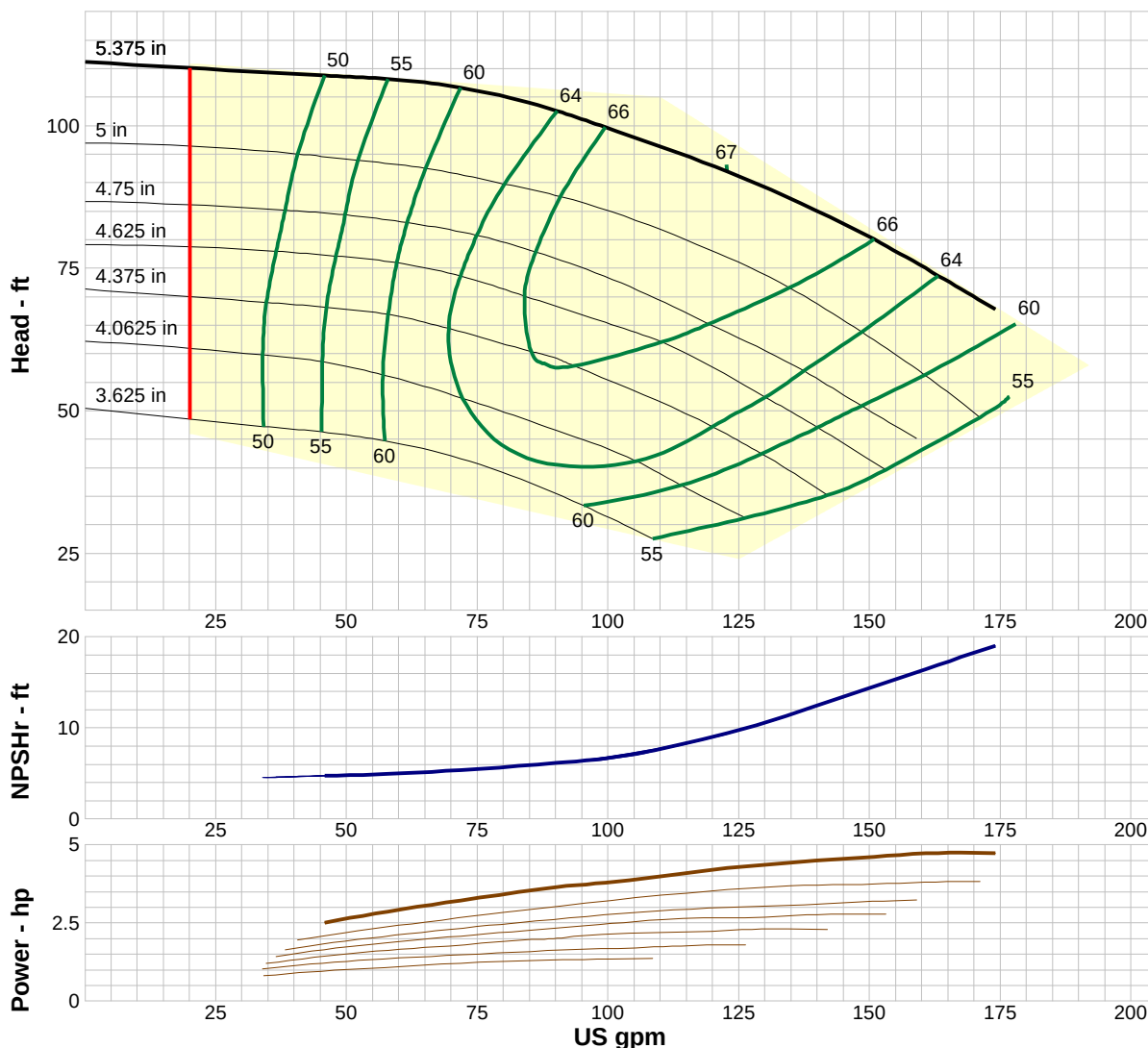
Pressure: 75 psi g

Sphere size: 0.34375 in

Power: 5 hp

Eye area: --- in²

---- Data Point ----	
Flow:	123 US gpm
Head:	91.8 ft
Eff:	67%
Power:	4.26 hp
NPSHr:	9.46 ft
---- Design Curve ----	
Shutoff head:	111 ft
Shutoff dP:	48.1 psi
Min flow:	20 US gpm
BEP:	67% @ 123 US gpm
NOL power:	4.74 hp @ 163 US gpm
-- Max Curve --	
Max power:	4.74 hp @ 163 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
167	3500	71.6	64	4.74	17.7
139	3500	85.1	66	4.47	12.4
111	3500	95.9	66	4.02	8.04
83.4	3500	104	63	3.49	5.87
55.6	3500	108	54	2.81	4.9