



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 7SFH

Type: CC_ENDSUCTION_C

Synch speed: 3600 rpm

Curve: Goulds 7SFH

Specific Speeds:

Dimensions:

Speed: 3500 rpm

Dia: 8.25 in

Impeller:

Ns: ---

Nss: ---

Suction: 2.5 in

Discharge: 1.5 in

Pump Limits:

Temperature: 212 °F

Pressure: 175 psi g

Sphere size: 0.1875 in

Power: 15 hp

Eye area: --- in²

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

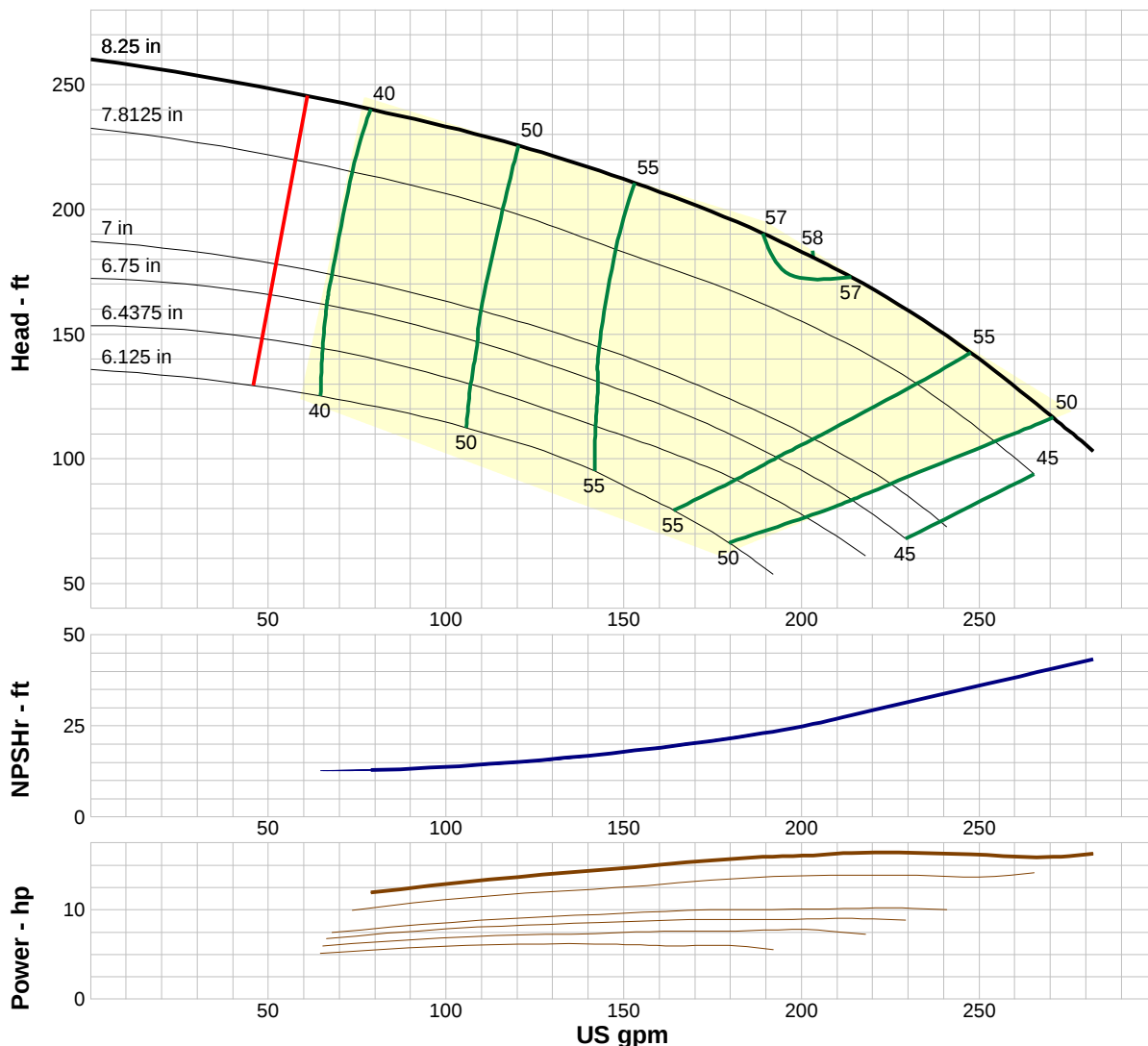
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	203 US gpm
Head:	181 ft
Eff:	57%
Power:	16.1 hp
NPSHr:	25.5 ft
---- Design Curve ----	
Shutoff head:	260 ft
Shutoff dP:	112 psi
Min flow:	60.9 US gpm
BEP:	58% @ 203 US gpm
NOL power:	16.4 hp @ 214 US gpm
-- Max Curve --	
Max power:	16.4 hp @ 214 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
271	3500	116	50	15.9	40.8
226	3500	162	56	16.3	30.7
181	3500	195	57	15.7	22
136	3500	218	52	14.2	16.6
90.4	3500	236	43	12.4	13.5