



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 8SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 8SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 7.75 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 2 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1562 in
Power: 20 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

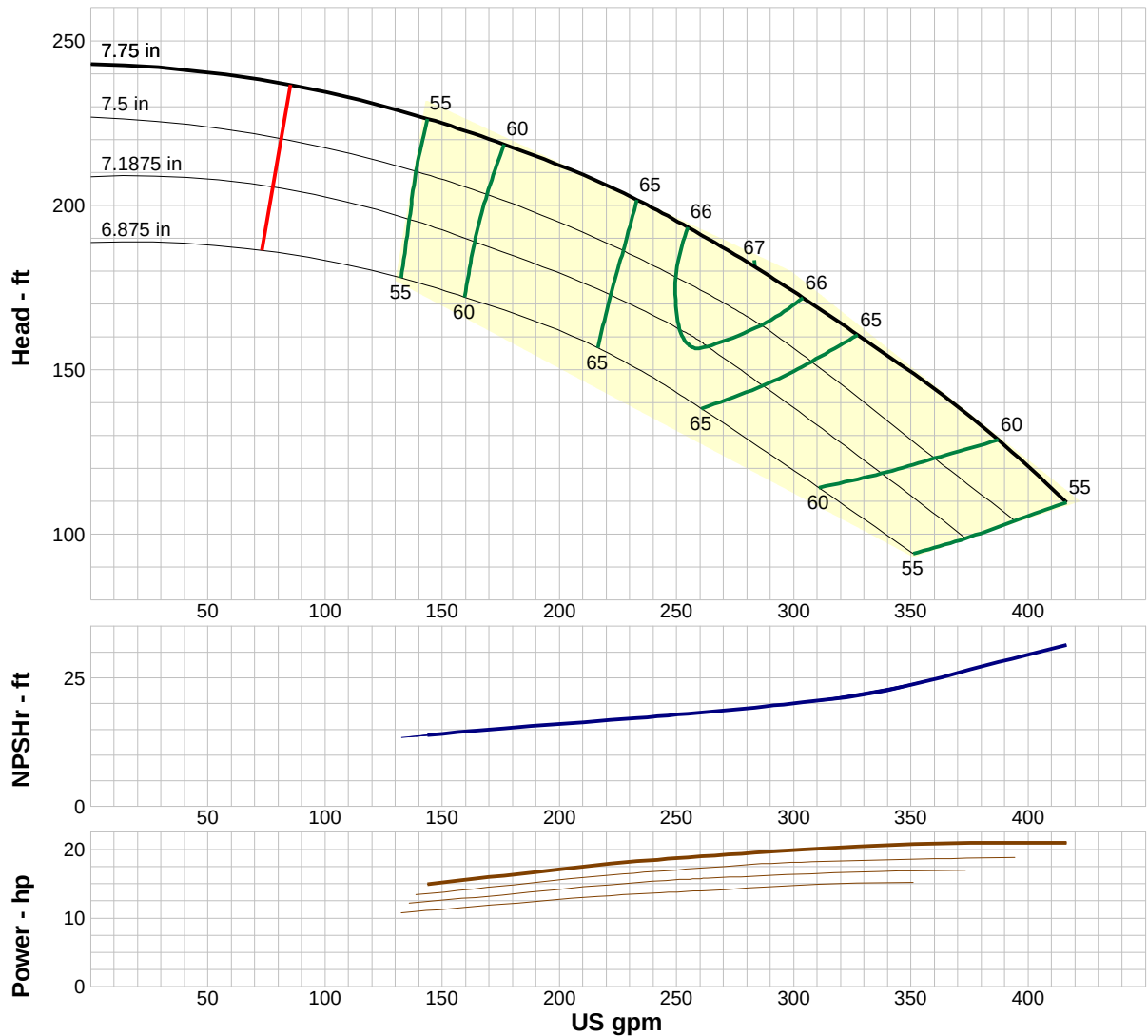
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	283 US gpm
Head:	181 ft
Eff:	66%
Power:	19.5 hp
NPSHr:	19.2 ft
---- Design Curve ----	
Shutoff head:	243 ft
Shutoff dP:	105 psi
Min flow:	84.9 US gpm
BEP:	67% @ 283 US gpm
NOL power:	21 hp @ 387 US gpm
-- Max Curve --	
Max power:	21 hp @ 387 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
400	3500	120	58	21	29.6
333	3500	157	65	20.5	22.2
266	3500	189	66	19.1	18.5
200	3500	211	62	17.1	16.1
133	3500	228	53	14.5	13.4