

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 23SFH
Type: CC_ENDSUCTION_C
Synch speed: 3600 rpm
Curve: Goulds 23SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 8.3438 in
Impeller:
Ns: ---
Nss: ---
Suction: 4 in
Discharge: 3 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1562 in
Power: 70 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

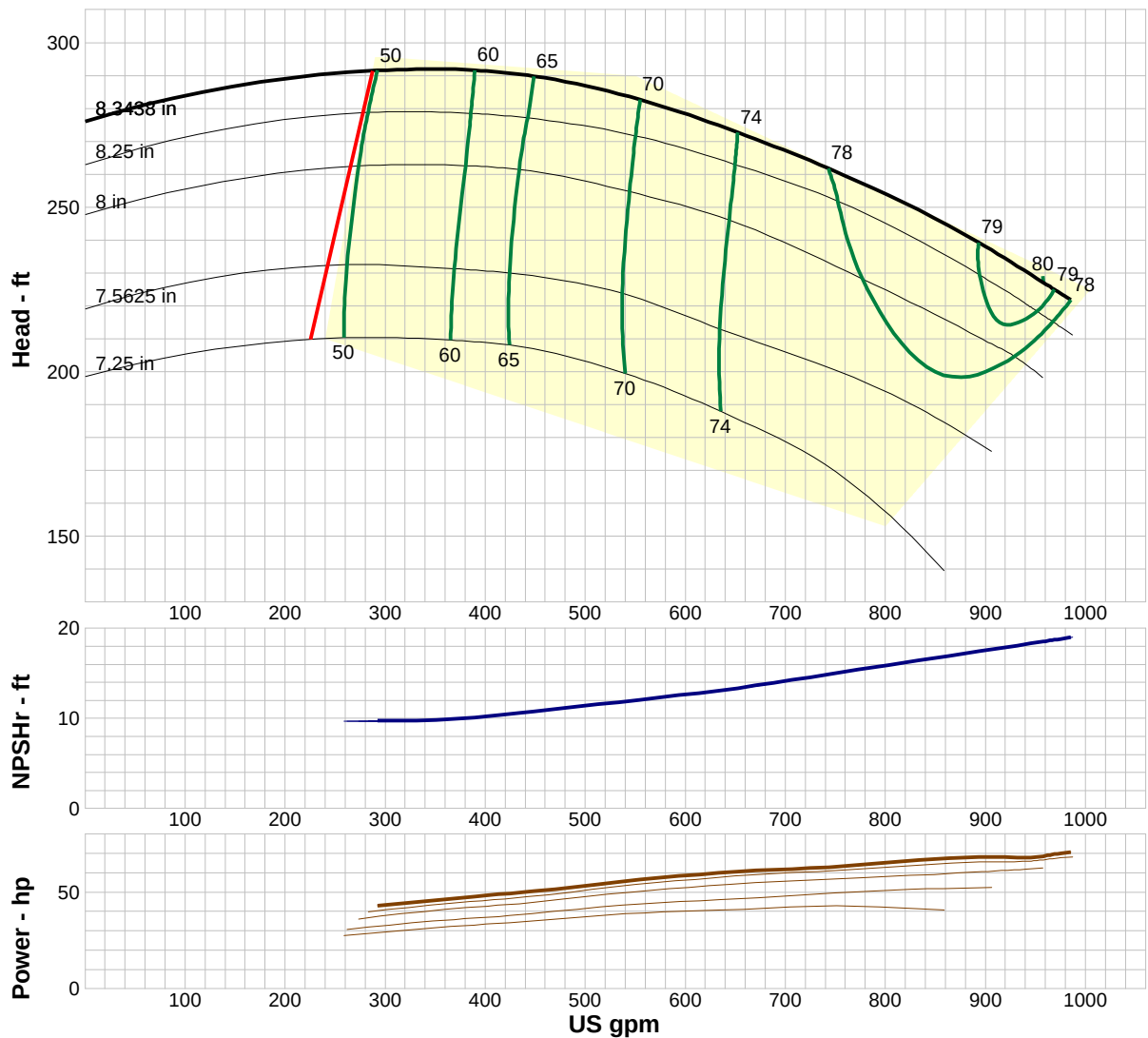
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	957 US gpm
Head:	227 ft
Eff:	80%
Power:	68.6 hp
NPSHr:	18.5 ft
---- Design Curve ----	
Shutoff head:	276 ft
Shutoff dP:	119 psi
Min flow:	287 US gpm
BEP:	80% @ 957 US gpm
NOL power:	70.7 hp @ 985 US gpm
-- Max Curve --	
Max power:	70.7 hp @ 985 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
946	3500	229	80	68.6	18.3
788	3500	255	78	64.6	15.7
630	3500	275	73	59.7	13.1
473	3500	288	66	51.9	11.1
315	3500	292	52	44.1	9.84