

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 23SH-2
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 7.5 in
Impeller:
Ns: ---
Nss: ---
Suction: 4 in
Discharge: 3 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

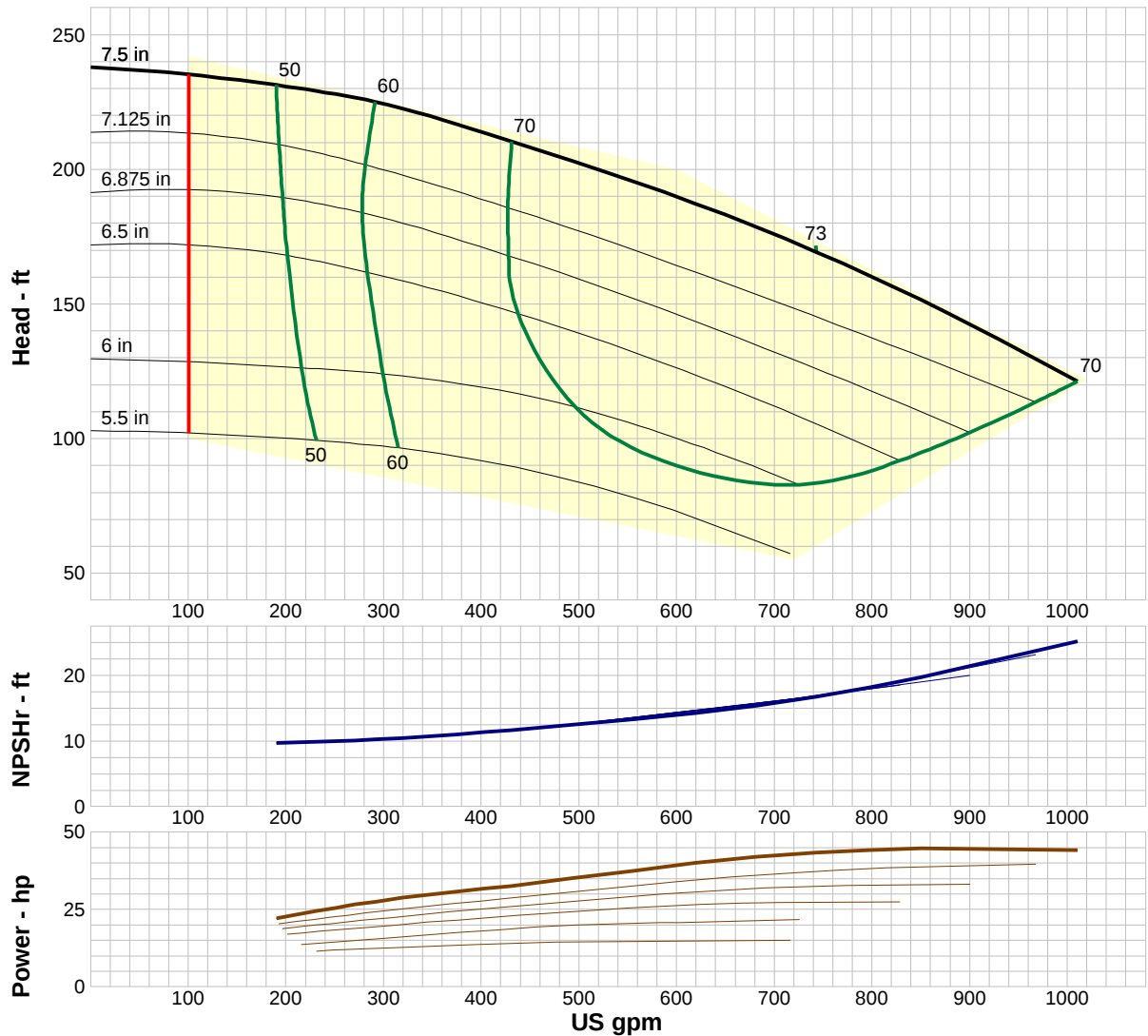
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.75 in
Power: 50 hp
Eye area: --- in²

---- Data Point ----	
Flow:	742 US gpm
Head:	169 ft
Eff:	73%
Power:	43.5 hp
NPSHr:	16.8 ft
---- Design Curve ----	
Shutoff head:	238 ft
Shutoff dP:	103 psi
Min flow:	100 US gpm
BEP:	73% @ 742 US gpm
NOL power:	44.2 hp @ 1010 US gpm
-- Max Curve --	
Max power:	44.2 hp @ 1010 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
970	3500	128	70	44.1	24
808	3500	158	72	43.7	18.9
646	3500	182	72	40.1	15.2
485	3500	203	71	34.6	12.6
323	3500	222	62	28.7	10.6