

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 19BF
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: GP 3656
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 13 in
Impeller:
Ns: ---
Nss: ---
Suction: 8 in
Discharge: 6 in

Pump Limits:

Temperature: 212 °F
Pressure: 200 psi g
Sphere size: 0.875 in
Power: 75 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

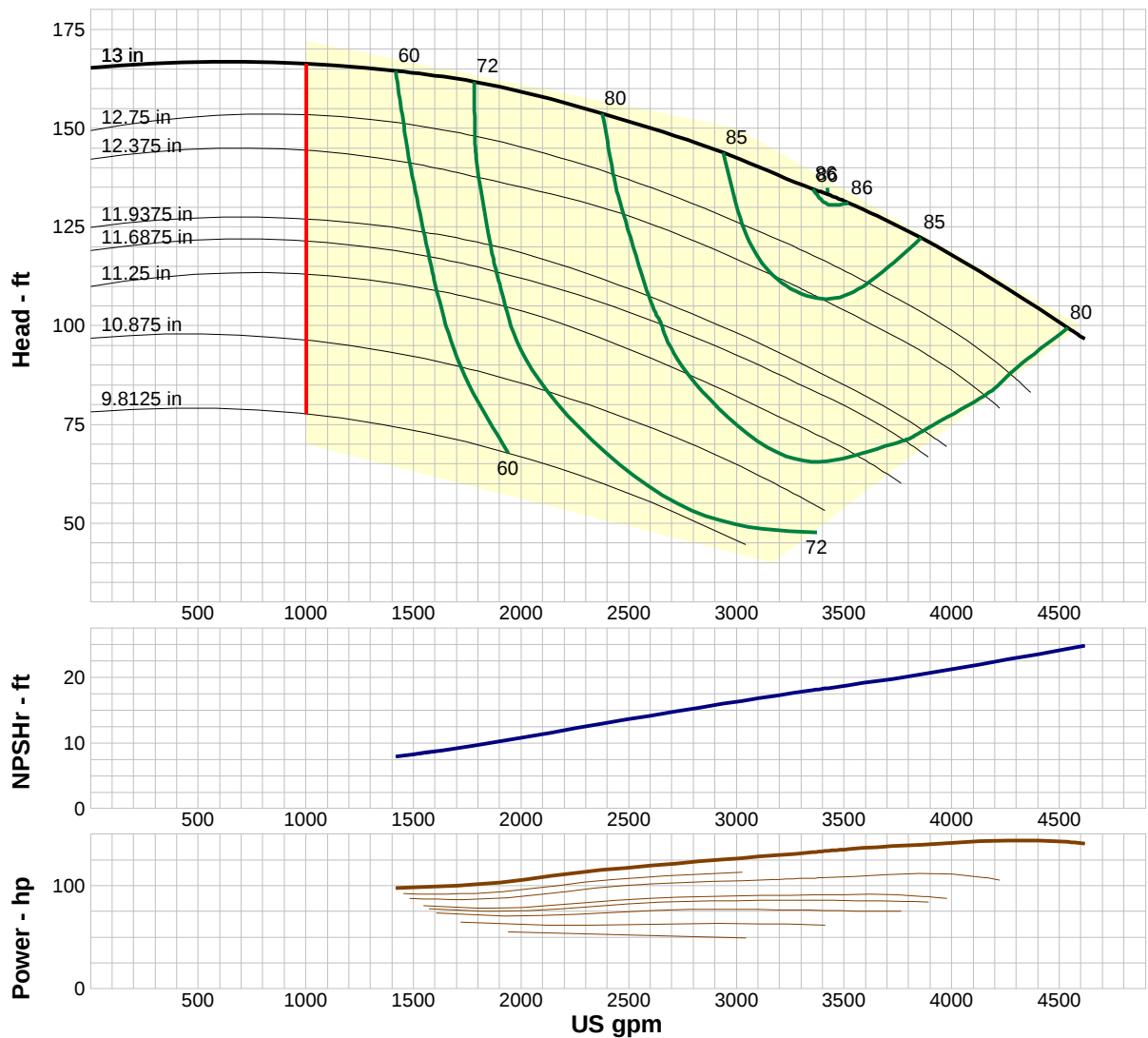
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	3424 US gpm
Head:	133 ft
Eff:	86%
Power:	134 hp
NPSHr:	18.4 ft
---- Design Curve ----	
Shutoff head:	165 ft
Shutoff dP:	71.4 psi
Min flow:	1000 US gpm
BEP:	86% @ 3424 US gpm
NOL power:	142 hp @ 4537 US gpm
-- Max Curve --	
Max power:	142 hp @ 4537 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4430	1780	103	81	142	23.8
3692	1780	126	85	138	19.7
2954	1780	143	85	126	16.1
2215	1780	156	78	111	12.1
1477	1780	164	62	98.4	8.23