

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 14BF-1
 Type: CC_ENDSUCTION_C
 Synch speed: 1800 rpm
 Curve: GP 3656/3756
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 12.5625 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 4 in
 Discharge: 3 in

Pump Limits:

Temperature: 212 °F
 Pressure: 200 psi g
 Sphere size: 0.375 in
 Power: 30 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

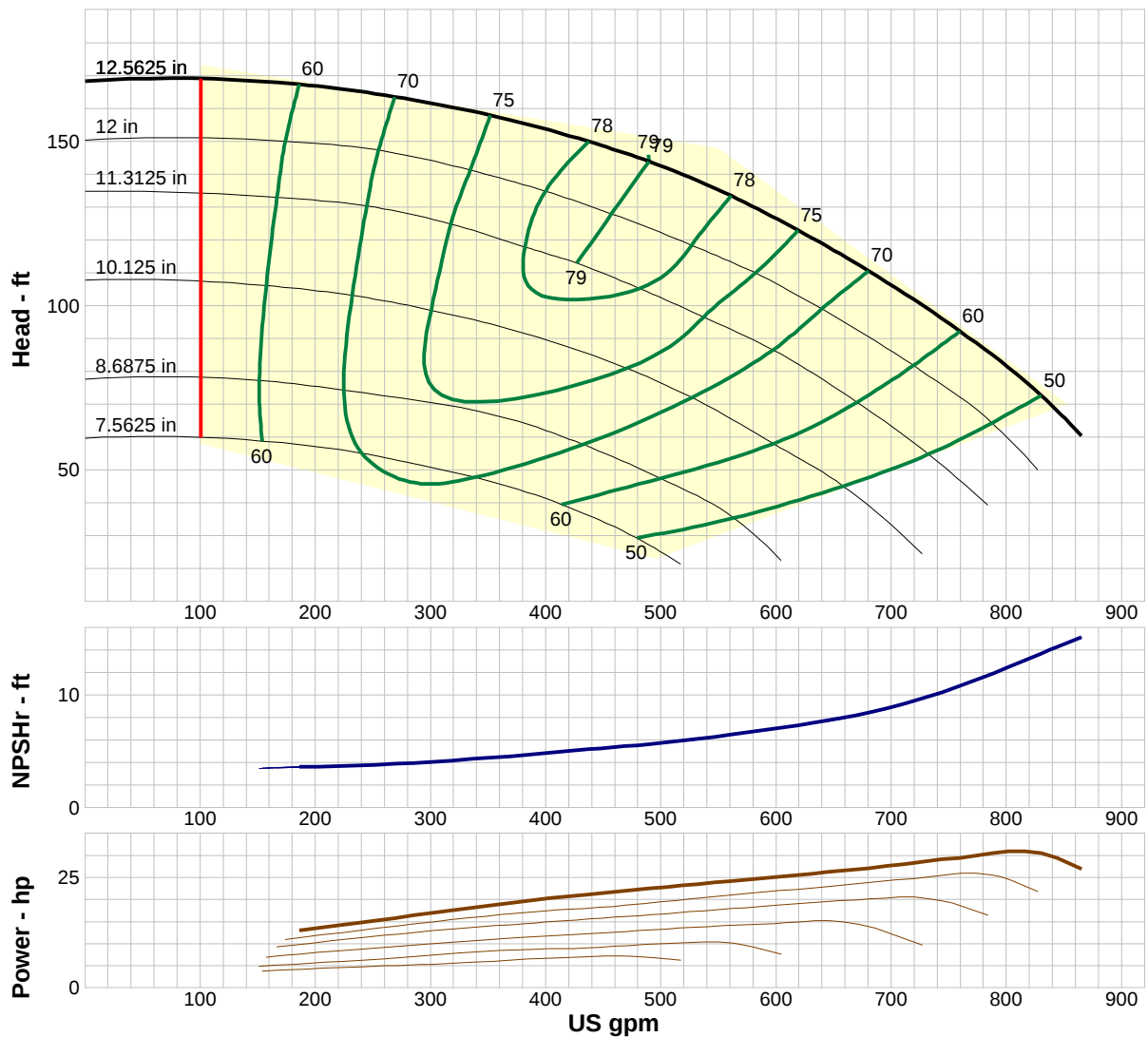
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	489 US gpm
Head:	144 ft
Eff:	79%
Power:	22.5 hp
NPSHr:	5.66 ft
---- Design Curve ----	
Shutoff head:	168 ft
Shutoff dP:	72.8 psi
Min flow:	100 US gpm
BEP:	79% @ 489 US gpm
NOL power:	30.5 hp @ 830 US gpm
-- Max Curve --	
Max power:	30.5 hp @ 830 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
830	1750	72.7	50	30.5	13.7
692	1750	108	68	27.5	8.8
554	1750	134	78	24.1	6.42
415	1750	152	77	20.6	5
277	1750	163	71	16.1	3.96