

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 4SS1
 Type: CC_ENDSUCTION
 Synch speed: 3600 rpm
 Curve: GP 3657/3756
 Specific Speeds:
 Dimensions:
 Speed: 3500 rpm
 Dia: 7 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 3 in
 Discharge: 2 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

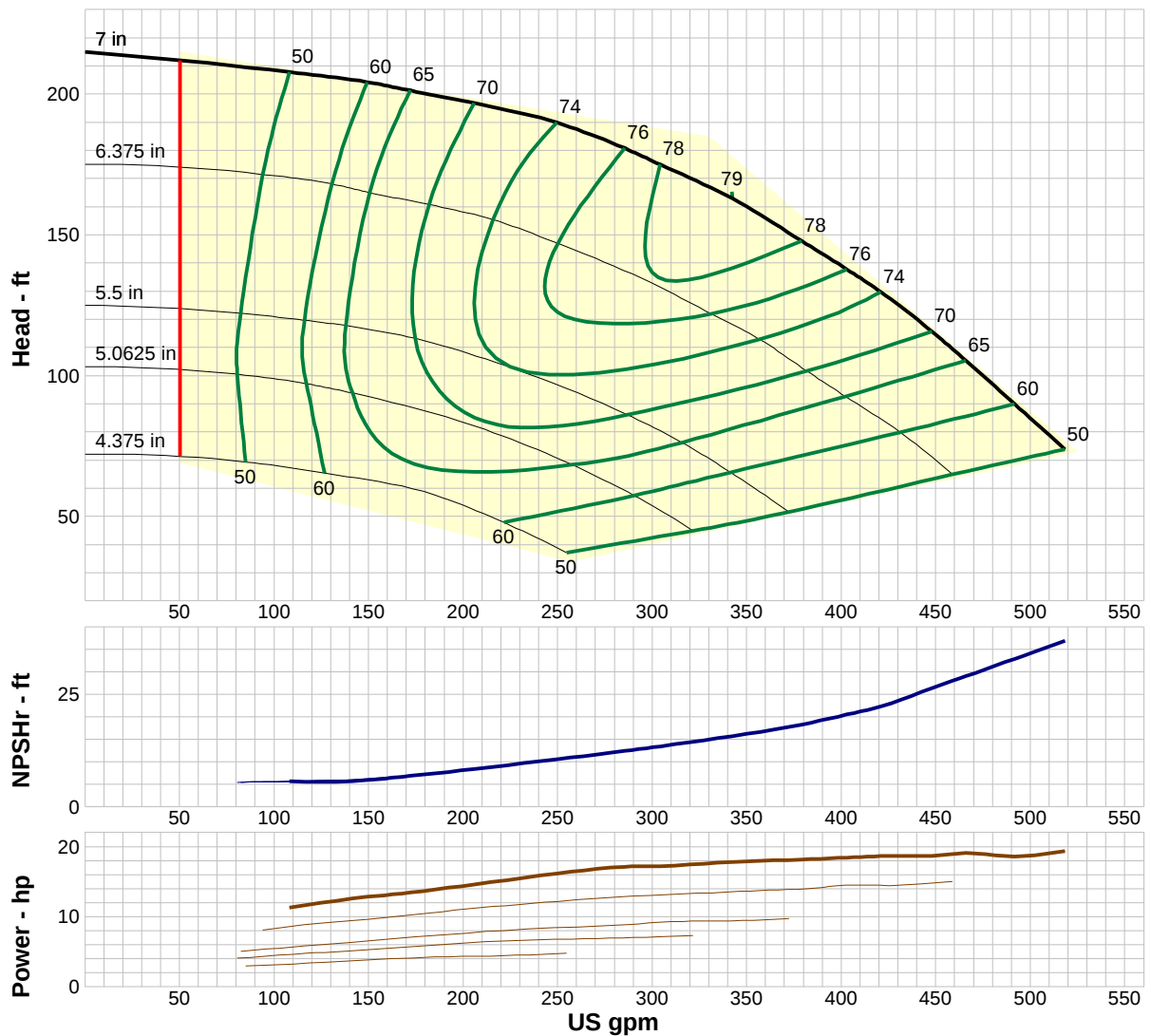
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: 0.5 in
 Power: 20 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	342 US gpm
Head:	163 ft
Eff:	79%
Power:	17.8 hp
NPSHr:	15.8 ft
---- Design Curve ----	
Shutoff head:	215 ft
Shutoff dP:	92.9 psi
Min flow:	50 US gpm
BEP:	79% @ 342 US gpm
NOL power:	19.3 hp @ 518 US gpm
-- Max Curve --	
Max power:	19.3 hp @ 518 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
497	3500	86.6	58	18.8	33.8
414	3500	133	75	18.6	21.7
331	3500	166	79	17.6	15.1
248	3500	190	74	16.1	10.6
166	3500	202	64	13.3	6.68