

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3MC
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds MCC
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 5.375 in
Impeller:
Ns: ---
Nss: ---
Suction: 2 in
Discharge: 1.5 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

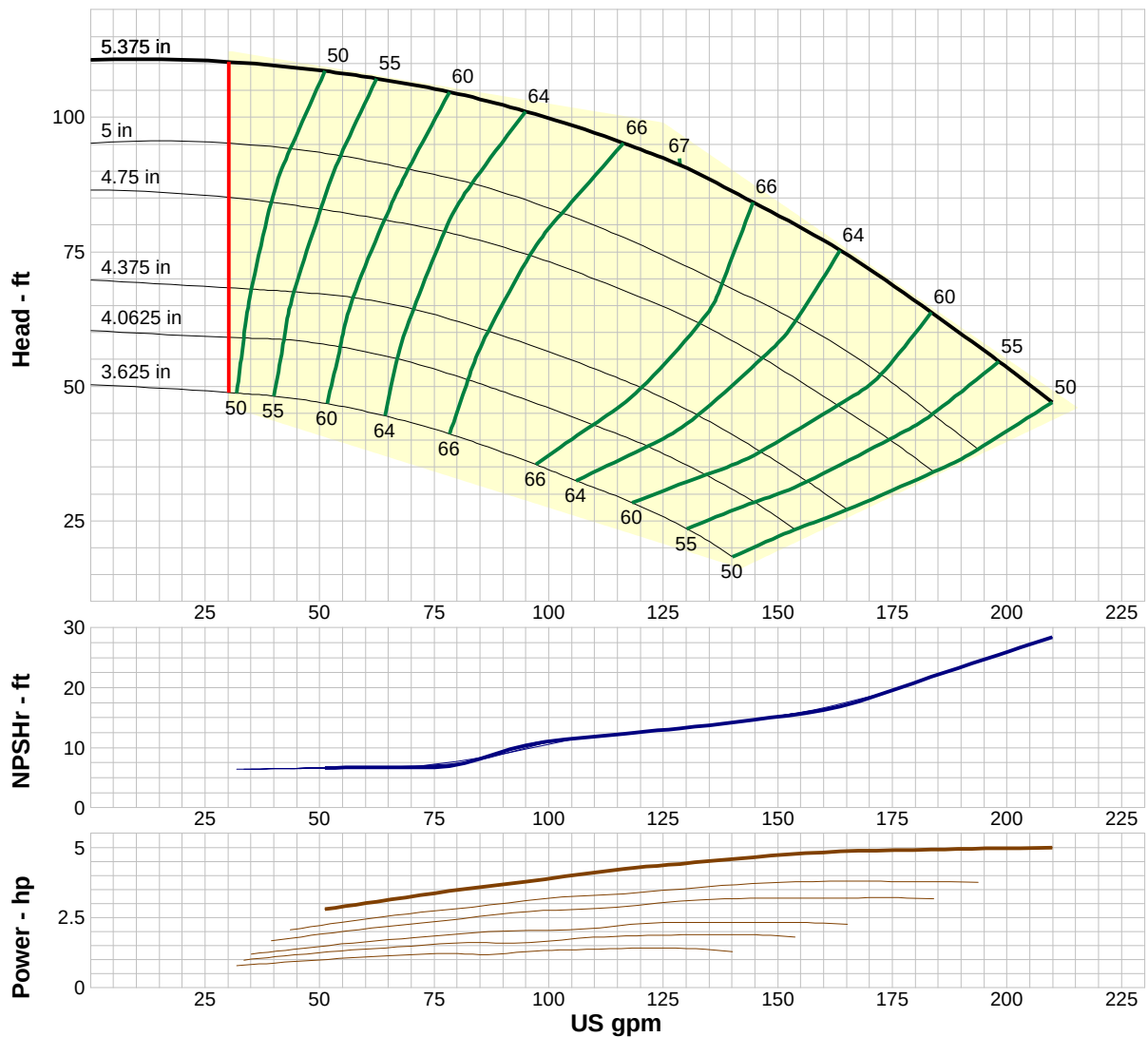
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 75 psi g
Sphere size: 0.3437 in
Power: 5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	129 US gpm
Head:	90.9 ft
Eff:	67%
Power:	4.42 hp
NPSHr:	13.3 ft
---- Design Curve ----	
Shutoff head:	111 ft
Shutoff dP:	47.9 psi
Min flow:	30 US gpm
BEP:	67% @ 129 US gpm
NOL power:	4.98 hp @ 210 US gpm
-- Max Curve --	
Max power:	4.98 hp @ 210 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
202	3500	52.1	53	4.97	26.5
168	3500	72.7	63	4.87	18
134	3500	88.7	67	4.5	13.7
101	3500	99.4	65	3.91	10.9
67.2	3500	106	57	3.18	6.84