

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"2874C
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 740302C
Specific Speeds:
Dimensions:
Speed: 3570 rpm
Dia: 9.22 in
Impeller: J3C1C1
Ns: 1580
Nss: 12093
Suction: 5 in
Discharge: 3 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

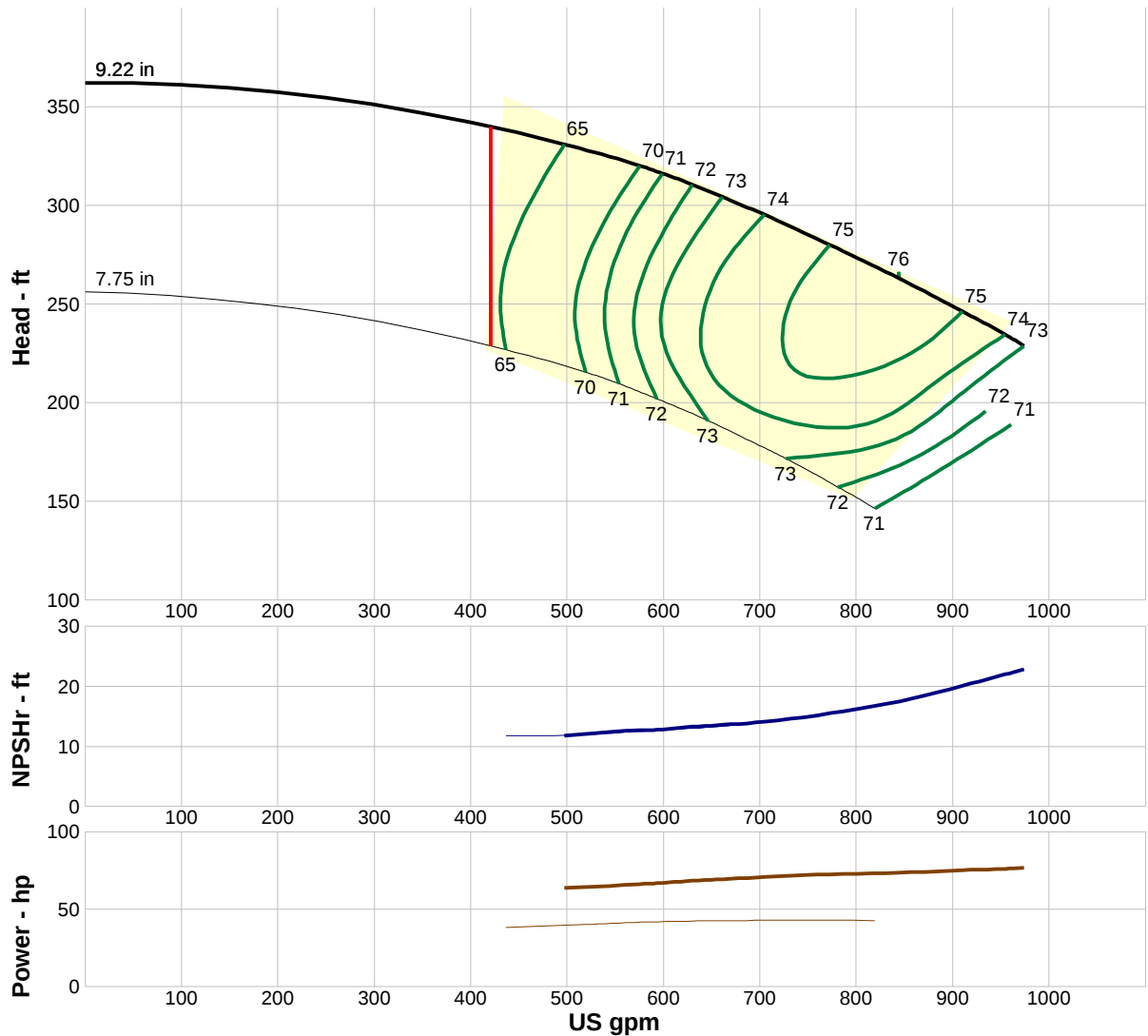
Fluid:

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:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 100 hp
Speed: 3600
Frame: 405TS

---- Data Point ----	
Flow:	844 US gpm
Head:	263 ft
Eff:	76%
Power:	73.7 hp
NPSHr:	17.5 ft
---- Design Curve ----	
Shutoff head:	362 ft
Shutoff dP:	156 psi
Min flow:	420 US gpm
BEP:	76% @ 844 US gpm
NOL power:	77 hp @ 973 US gpm
-- Max Curve --	
Max power:	77 hp @ 973 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
935	3570	240	74	75.9	21.2
779	3570	278	75	72.9	15.7
623	3570	312	72	68.3	13.2
467	3570	333	63	62.9	11.5
312	3570	---	---	---	---