

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2824A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 241004A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 17.38 in
 Impeller: J10L1A1
 Ns: 2663
 Nss: 14137
 Suction: 14 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 1.41 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

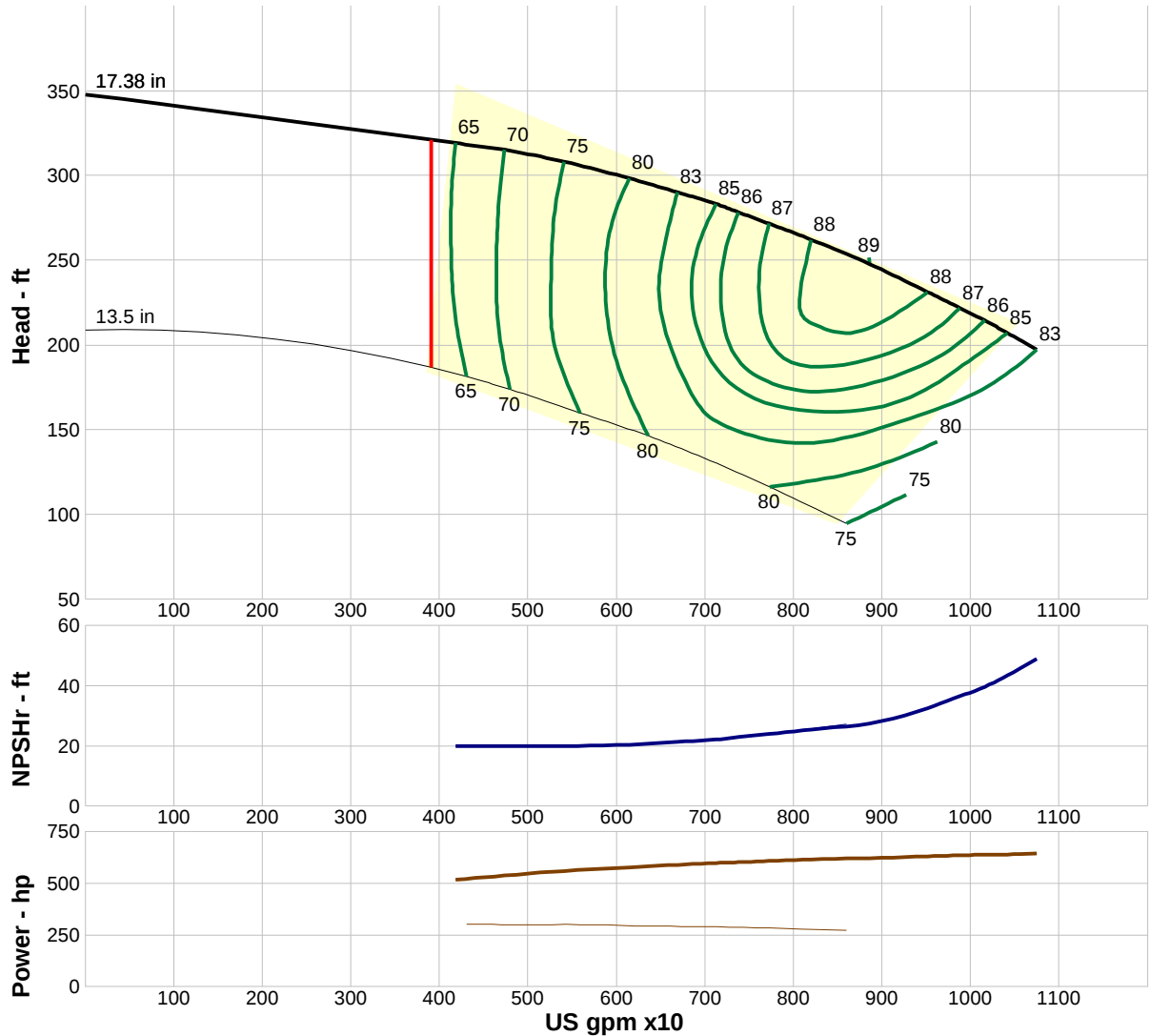
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	8853 US gpm
Head:	248 ft
Eff:	89%
Power:	622 hp
NPSHr:	27.5 ft
---- Design Curve ----	
Shutoff head:	348 ft
Shutoff dP:	150 psi
Min flow:	3900 US gpm
BEP:	89% @ 8853 US gpm
NOL power:	645 hp @ 10745 US gpm
-- Max Curve --	
Max power:	645 hp @ 10745 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
10315	1785	210	85	640	42
8596	1785	253	89	620	26.7
6877	1785	287	84	594	21.7
5158	1785	311	73	552	20
3438	1785	---	---	---	---