

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2825A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: J10M1C1
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 20.75 in
 Impeller: J10M1C1
 Ns: 1883
 Nss: 14546
 Suction: 16 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 2 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

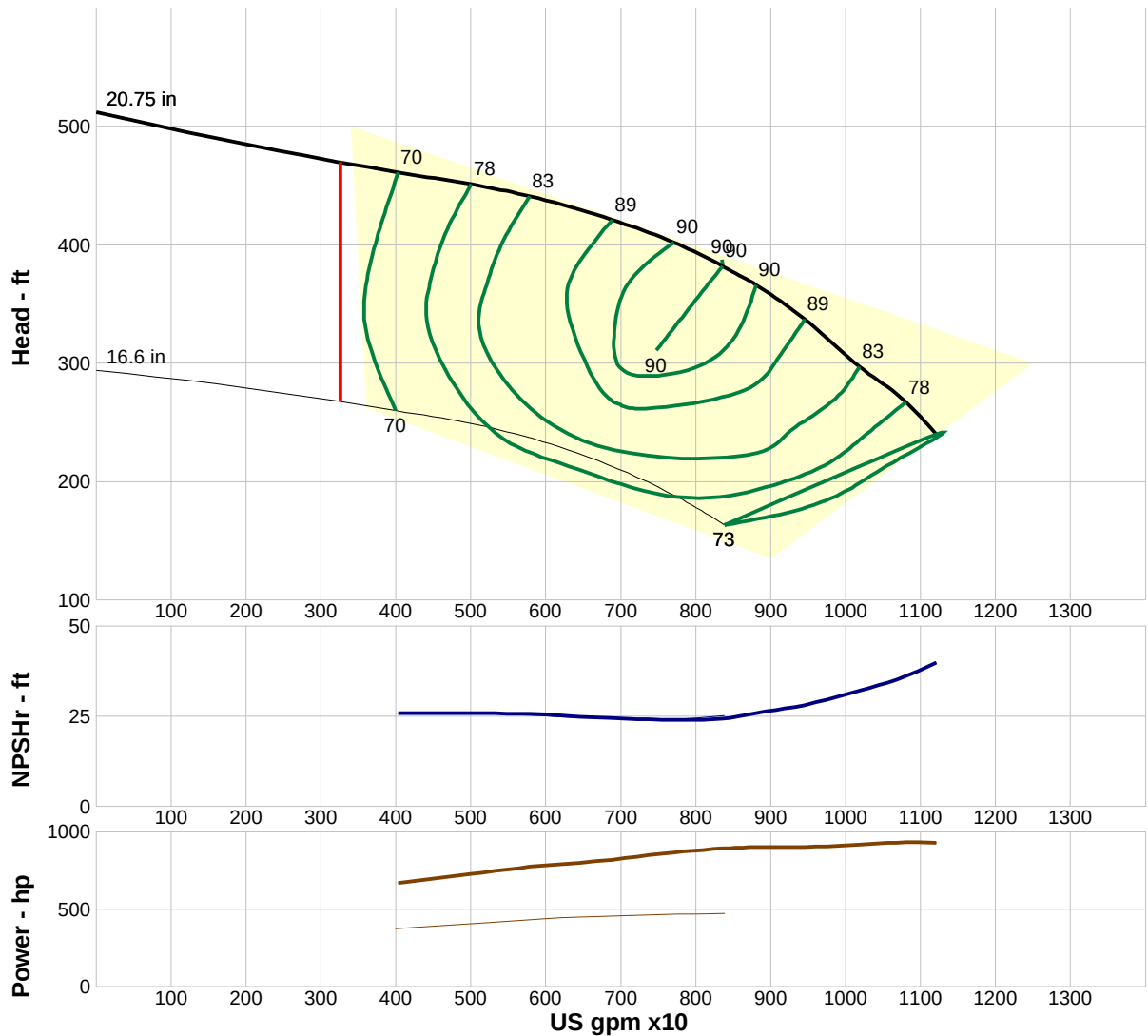
Fluid:

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:	8350 US gpm
Head:	382 ft
Eff:	90%
Power:	894 hp
NPSHr:	24.4 ft
---- Design Curve ----	
Shutoff head:	512 ft
Shutoff dP:	221 psi
Min flow:	3250 US gpm
BEP:	90% @ 8350 US gpm
NOL power:	934 hp @ 10800 US gpm
-- Max Curve --	
Max power:	934 hp @ 10800 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
10752	1785	269	78	933	35.9
8960	1785	359	90	904	26.5
7168	1785	414	89	838	24.4
5376	1785	446	80	752	25.8
3584	1785	467	66	642	26