

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2823C
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 230404C
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 14.4 in
Impeller: J4H1C1
Ns: 1139
Nss: 8344
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

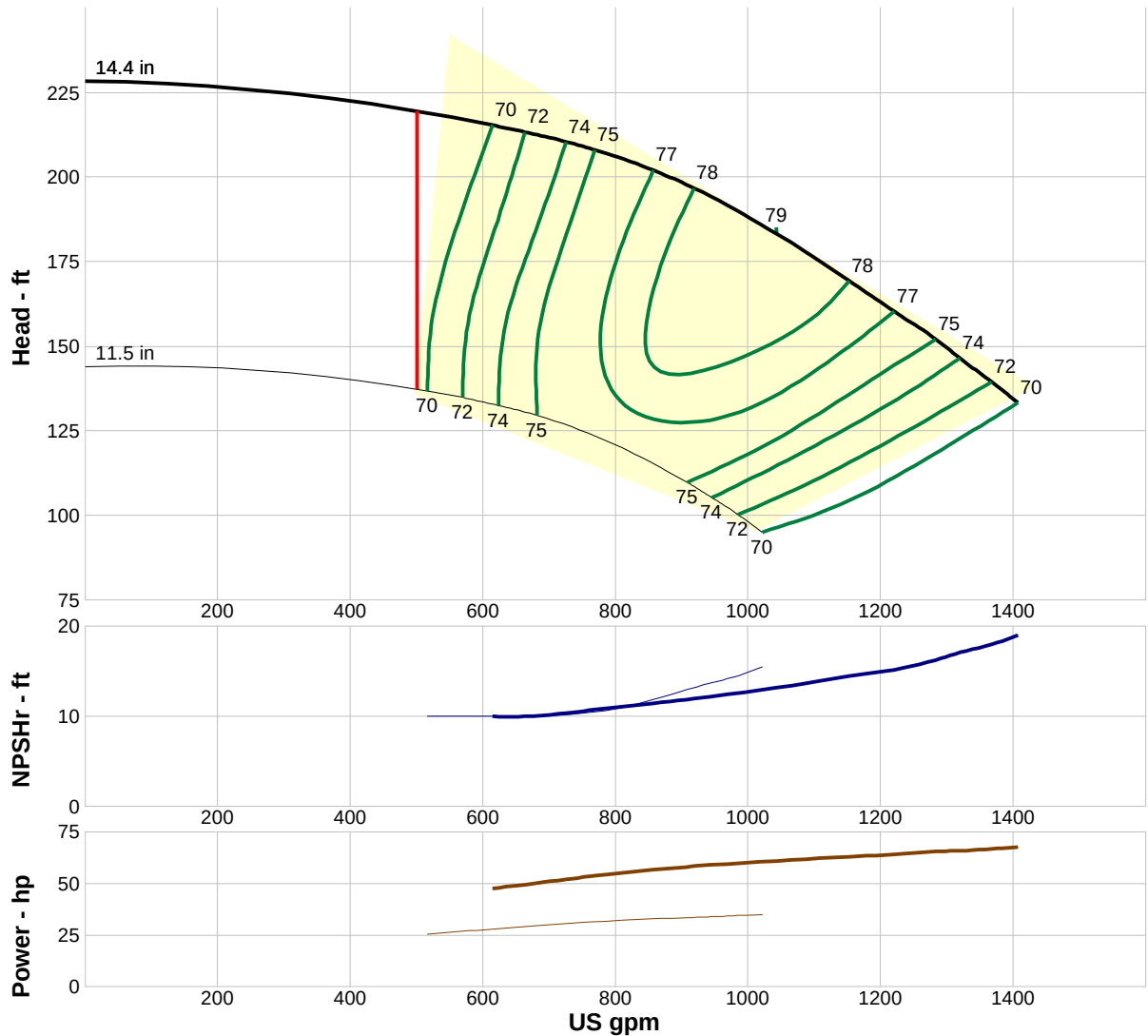
Fluid:

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: 75 hp
Speed: 1800
Frame: 365T

---- Data Point ----	
Flow:	1043 US gpm
Head:	183 ft
Eff:	79%
Power:	61.1 hp
NPSHr:	13.2 ft
---- Design Curve ----	
Shutoff head:	228 ft
Shutoff dP:	98.7 psi
Min flow:	500 US gpm
BEP:	79% @ 1043 US gpm
NOL power:	67.7 hp @ 1407 US gpm
-- Max Curve --	
Max power:	67.7 hp @ 1407 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1351	1780	142	73	66.6	17.7
1126	1780	173	78	62.7	14.2
901	1780	198	78	58	11.8
676	1780	213	72	50.1	10.1
450	1780	---	---	---	---