

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 5"2823A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 230504A
 Specific Speeds:
 Dimensions:
 Speed: 1780 rpm
 Dia: 14.25 in
 Impeller: J5H1A1
 Ns: 1495
 Nss: 9642
 Suction: 8 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 0.95 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

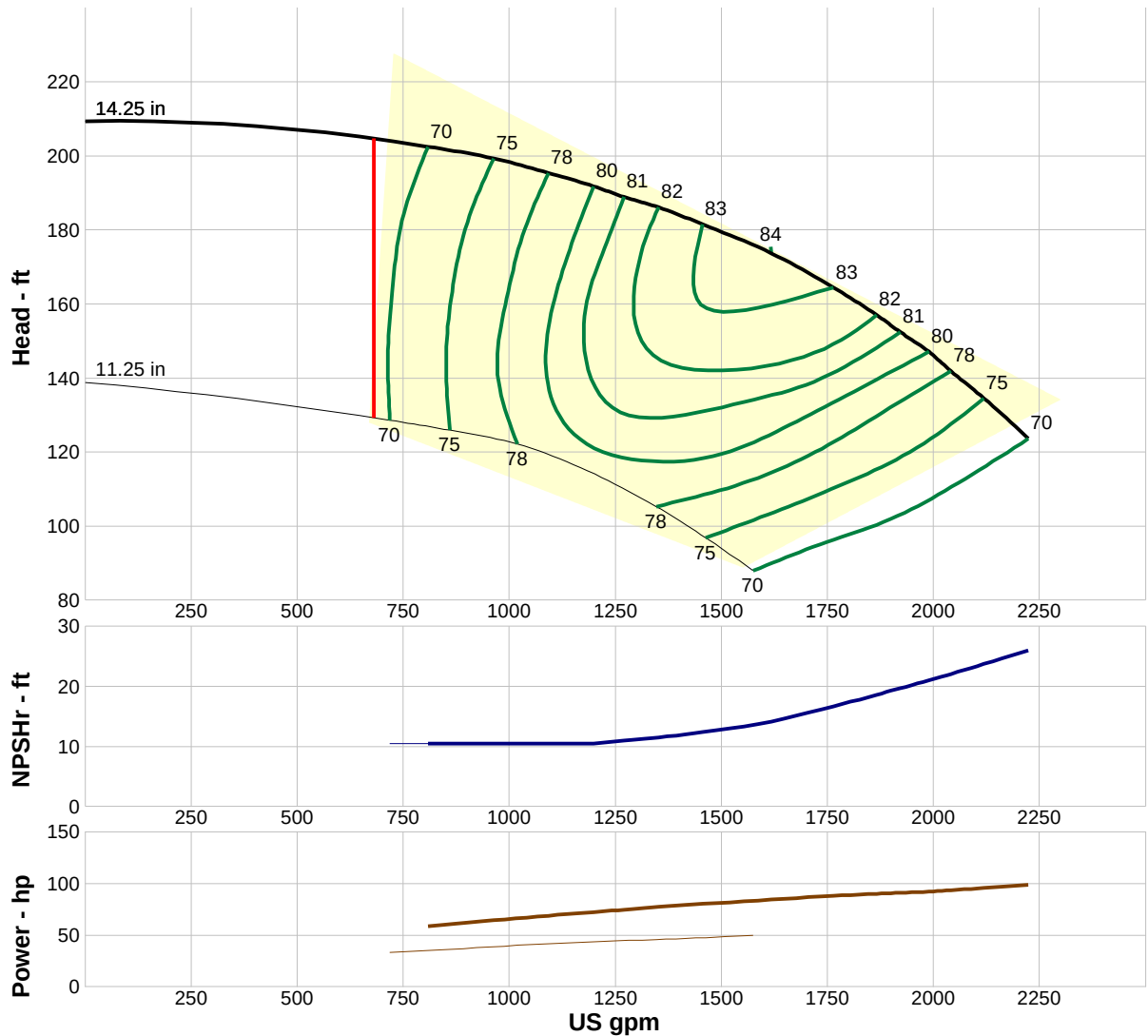
Fluid:

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: 1800
 Frame: 405T

---- Data Point ----	
Flow:	1617 US gpm
Head:	174 ft
Eff:	84%
Power:	84.4 hp
NPSHr:	14.2 ft
---- Design Curve ----	
Shutoff head:	209 ft
Shutoff dP:	90.5 psi
Min flow:	680 US gpm
BEP:	84% @ 1617 US gpm
NOL power:	99.1 hp @ 2223 US gpm
-- Max Curve --	
Max power:	99.1 hp @ 2223 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2134	1780	133	74	96.4	24.1
1778	1780	163	83	88.5	17
1422	1780	183	83	79.4	12.1
1067	1780	196	77	68.2	10.5
711	1780	203	67	55.5	10.5