

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 16"5823 (L)
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 231608L
 Specific Speeds:
 Dimensions:
 Speed: 890 rpm
 Dia: 28.5 in
 Impeller: M16A1L
 Ns: 1552
 Nss: 10317
 Suction: 20 in
 Discharge: 16 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

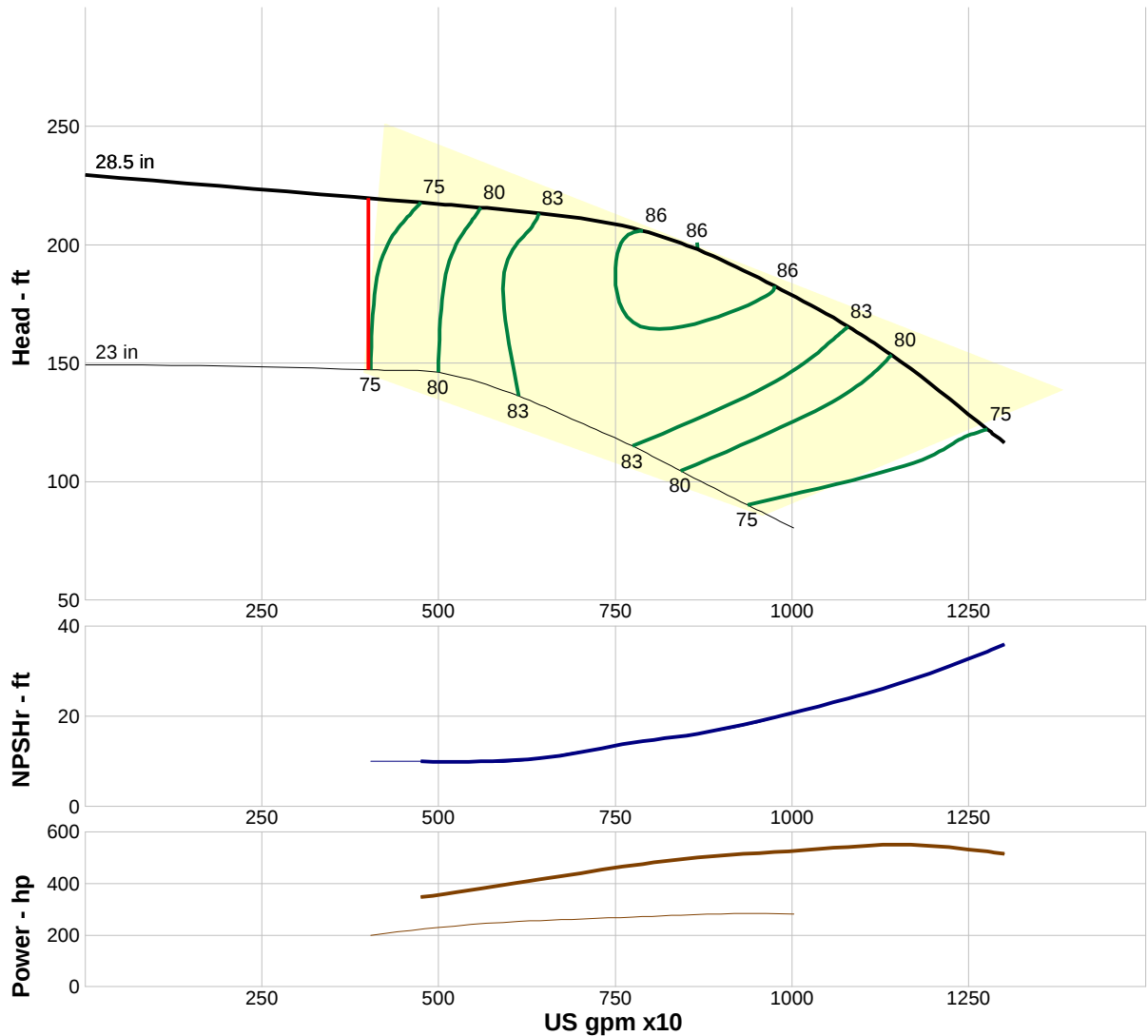
Fluid:

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:	8655 US gpm
Head:	198 ft
Eff:	86%
Power:	503 hp
NPSHr:	16.1 ft
---- Design Curve ----	
Shutoff head:	229 ft
Shutoff dP:	99.2 psi
Min flow:	4000 US gpm
BEP:	86% @ 8655 US gpm
NOL power:	552 hp @ 11401 US gpm
-- Max Curve --	
Max power:	552 hp @ 11401 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
12480	890	129	76	530	32.9
10400	890	172	84	535	22.5
8320	890	201	86	491	15.4
6240	890	214	82	409	10.6
4160	890	219	72	325	10