

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 12"5823
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 231206A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 22 in
 Impeller: D12A1A
 Ns: 1859
 Nss: 13402
 Suction: 14 in
 Discharge: 12 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1.5 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

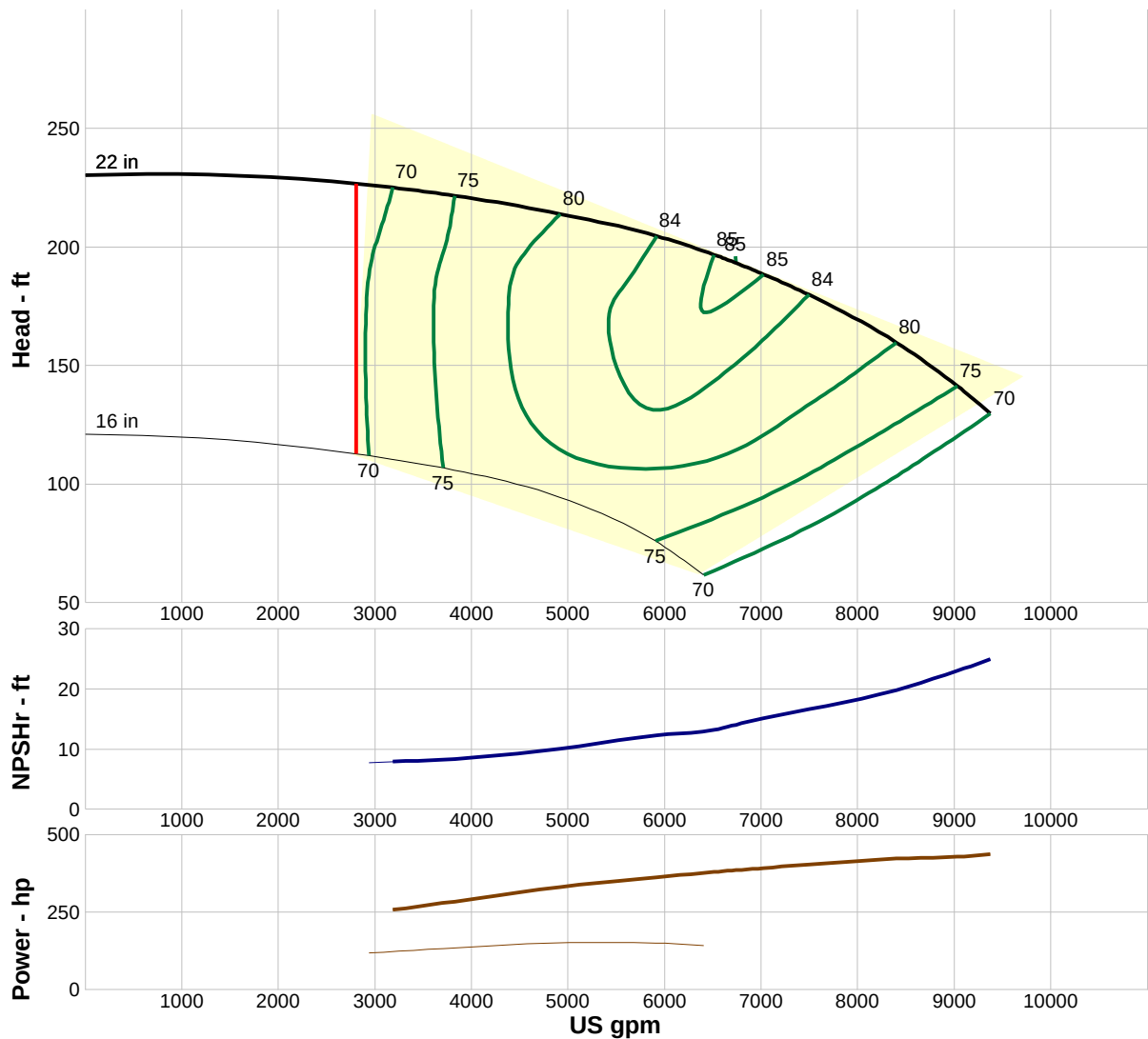
Fluid:

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:	6736 US gpm
Head:	193 ft
Eff:	85%
Power:	386 hp
NPSHr:	14.1 ft
---- Design Curve ----	
Shutoff head:	230 ft
Shutoff dP:	99.5 psi
Min flow:	2800 US gpm
BEP:	85% @ 6736 US gpm
NOL power:	438 hp @ 9371 US gpm
-- Max Curve --	
Max power:	438 hp @ 9371 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
8996	1185	142	75	429	22.9
7497	1185	180	84	405	16.7
5998	1185	203	84	366	12.5
4498	1185	217	78	314	9.45
2999	1185	225	69	251	7.82