

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 12"5823
Type: 5800-HSC
Synch speed: 900 rpm
Curve: 231208A
Specific Speeds:
Dimensions:
Speed: 890 rpm
Dia: 22 in
Impeller: D12A1A
Ns: 1866
Nss: 12642
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

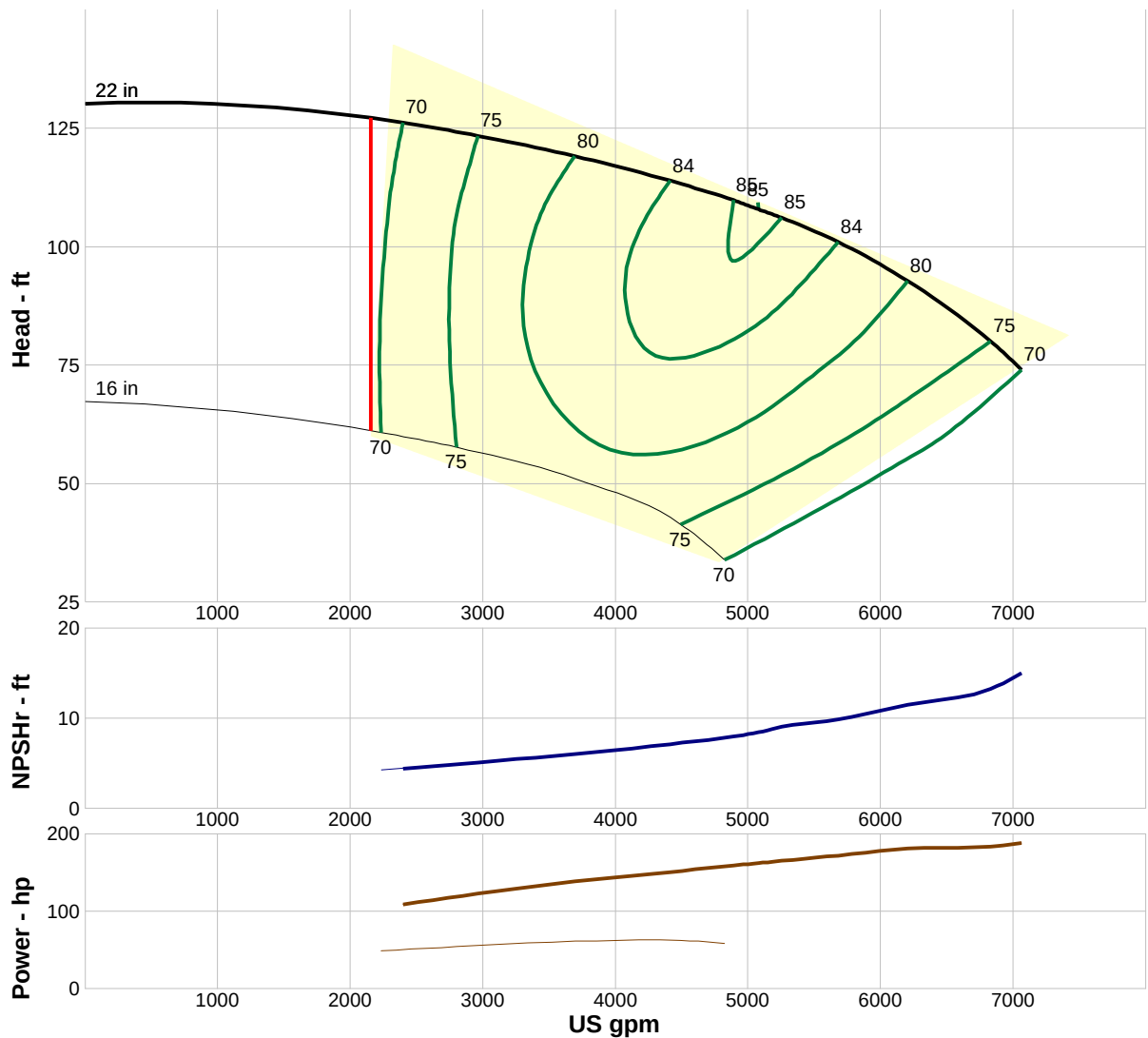
Fluid:

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
Size: 200 hp
Speed: 900
Frame: 449T

---- Data Point ----	
Flow:	5075 US gpm
Head:	108 ft
Eff:	85%
Power:	162 hp
NPSHr:	8.45 ft
---- Design Curve ----	
Shutoff head:	130 ft
Shutoff dP:	56.3 psi
Min flow:	2150 US gpm
BEP:	85% @ 5075 US gpm
NOL power:	189 hp @ 7062 US gpm
-- Max Curve --	
Max power:	189 hp @ 7062 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6780	890	81	75	184	13.2
5650	890	101	84	172	9.84
4520	890	113	84	153	7.34
3390	890	121	78	132	5.67
2260	890	126	69	106	4.26