

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 10"2825A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: J10M1C1
 Specific Speeds:
 Dimensions:
 Speed: 1175 rpm
 Dia: 20.75 in
 Impeller: J10M1C1
 Ns: 1868
 Nss: 14561
 Suction: 10 in
 Discharge: 16 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 2 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

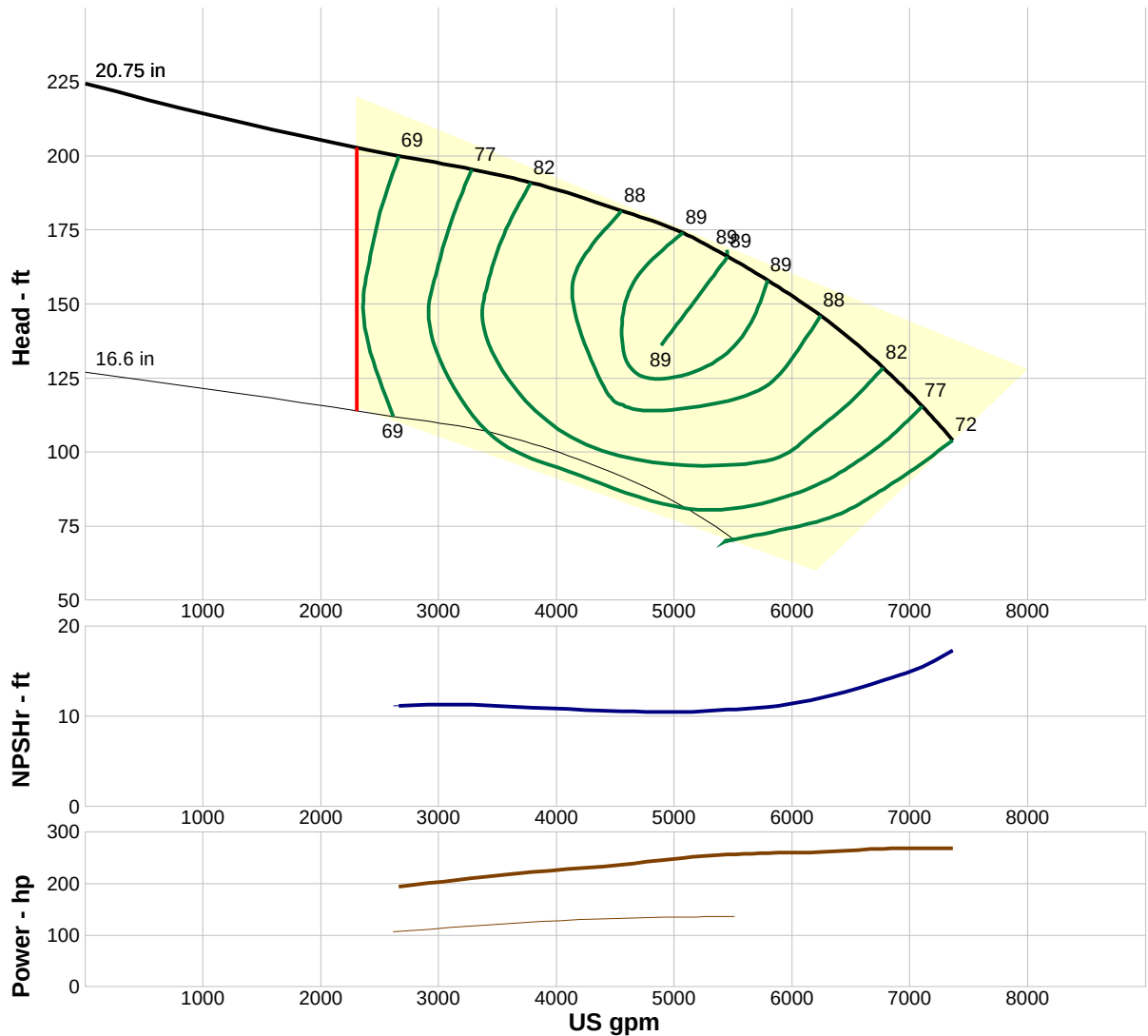
Fluid:

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: 300 hp
 Speed: 1200
 Frame: 449T

---- Data Point ----	
Flow:	5450 US gpm
Head:	166 ft
Eff:	89%
Power:	257 hp
NPSHr:	10.8 ft
---- Design Curve ----	
Shutoff head:	225 ft
Shutoff dP:	97 psi
Min flow:	2300 US gpm
BEP:	89% @ 5450 US gpm
NOL power:	269 hp @ 7100 US gpm
-- Max Curve --	
Max power:	269 hp @ 7100 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7066	1175	117	78	269	15.3
5888	1175	155	89	260	11.3
4710	1175	179	88	241	10.6
3533	1175	193	80	216	11.1
2355	1175	203	65	187	11.2