

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2823A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 231004A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 14.25 in
 Impeller: J10H1A3
 Ns: 3159
 Nss: 13597
 Suction: 14 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 1.22 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

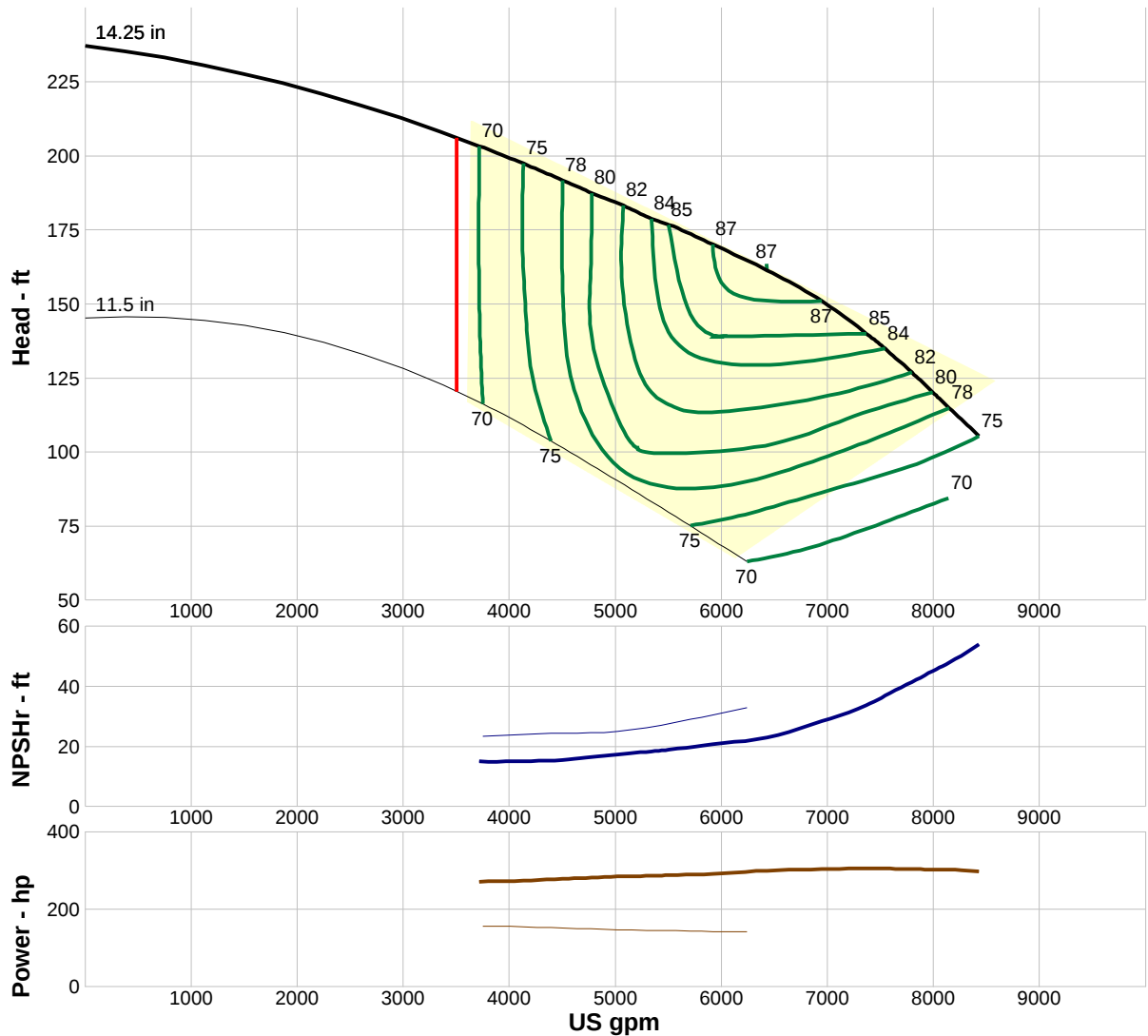
Fluid:

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: 350 hp
 Speed: 1800
 Frame: 449T

---- Data Point ----	
Flow:	6426 US gpm
Head:	161 ft
Eff:	87%
Power:	301 hp
NPSHr:	23 ft
---- Design Curve ----	
Shutoff head:	237 ft
Shutoff dP:	103 psi
Min flow:	3500 US gpm
BEP:	87% @ 6426 US gpm
NOL power:	306 hp @ 7365 US gpm
-- Max Curve --	
Max power:	306 hp @ 7365 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
8089	1785	117	79	303	46.9
6741	1785	155	87	303	26.3
5393	1785	178	84	288	18.6
4045	1785	199	74	274	15.1
2696	1785	---	---	---	---