

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2876C
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 760402C
Specific Speeds:
Dimensions:
Speed: 3565 rpm
Dia: 11.2 in
Impeller: J4E1C1
Ns: 1450
Nss: 13193
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.6 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

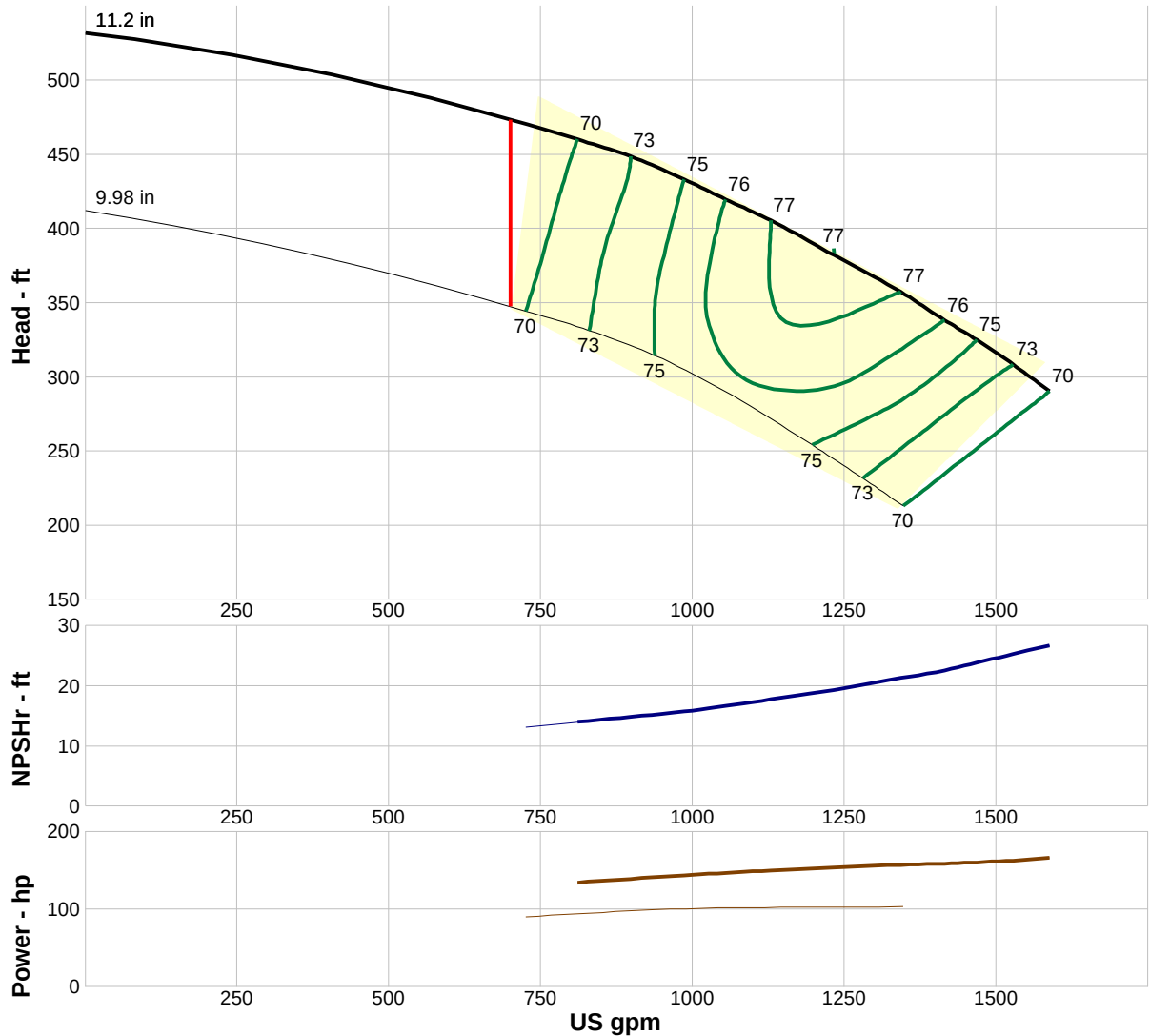
Fluid:

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: 3600
Frame: 447TS

---- Data Point ----	
Flow:	1233 US gpm
Head:	382 ft
Eff:	77%
Power:	154 hp
NPSHr:	19.3 ft
---- Design Curve ----	
Shutoff head:	532 ft
Shutoff dP:	230 psi
Min flow:	700 US gpm
BEP:	77% @ 1233 US gpm
NOL power:	166 hp @ 1588 US gpm
-- Max Curve --	
Max power:	166 hp @ 1588 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1524	3565	309	73	163	25.2
1270	3565	374	77	155	20
1016	3565	427	75	145	16.1
762	3565	464	68	132	13.5
508	3565	---	---	---	---