

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2824A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 240604A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 17.57 in
Impeller: J6L1A1
Ns: 1412
Nss: 11540
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 1.13 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

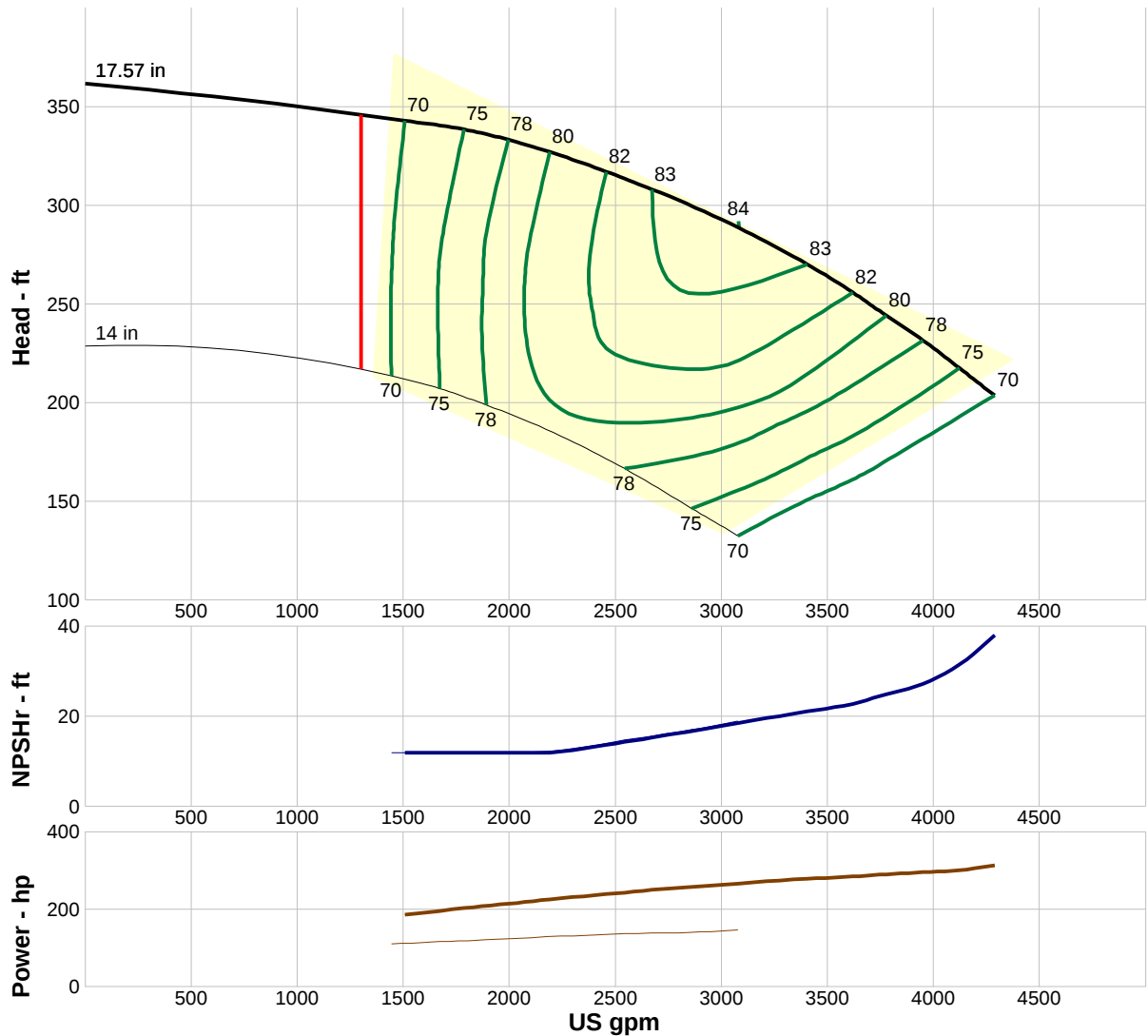
Fluid:

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:	3081 US gpm
Head:	289 ft
Eff:	84%
Power:	267 hp
NPSHr:	18.6 ft
---- Design Curve ----	
Shutoff head:	362 ft
Shutoff dP:	156 psi
Min flow:	1300 US gpm
BEP:	84% @ 3081 US gpm
NOL power:	315 hp @ 4286 US gpm
-- Max Curve --	
Max power:	315 hp @ 4286 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4115	1785	218	75	302	31.4
3429	1785	268	83	280	21.3
2743	1785	305	83	253	15.9
2057	1785	331	79	219	12
1372	1785	344	68	178	12