

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"2824A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 240804A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 17.75 in
Impeller: J8L1A1
Ns: 1734
Nss: 16490
Suction: 12 in
Discharge: 8 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 1.12 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

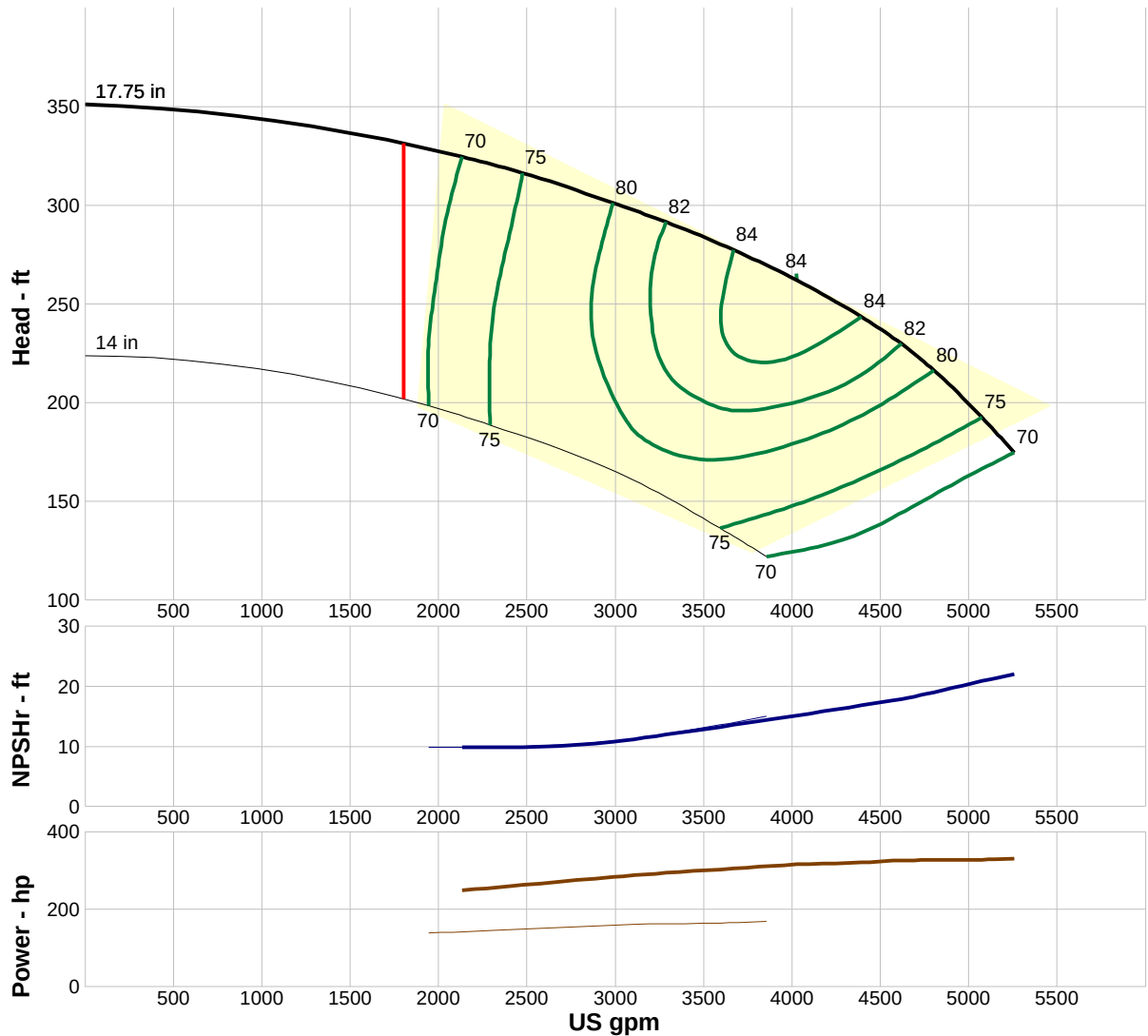
Fluid:

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:	4025 US gpm
Head:	262 ft
Eff:	84%
Power:	317 hp
NPSHr:	15.2 ft
---- Design Curve ----	
Shutoff head:	351 ft
Shutoff dP:	152 psi
Min flow:	1800 US gpm
BEP:	84% @ 4025 US gpm
NOL power:	331 hp @ 5254 US gpm
-- Max Curve --	
Max power:	331 hp @ 5254 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
5044	1785	195	76	329	20.7
4203	1785	253	84	319	16
3362	1785	289	82	297	12.3
2522	1785	315	75	265	9.99
1681	1785	---	---	---	---