

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 6"2824A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 240606A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 17.57 in
 Impeller: J6L1A1
 Ns: 1393
 Nss: 12391
 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

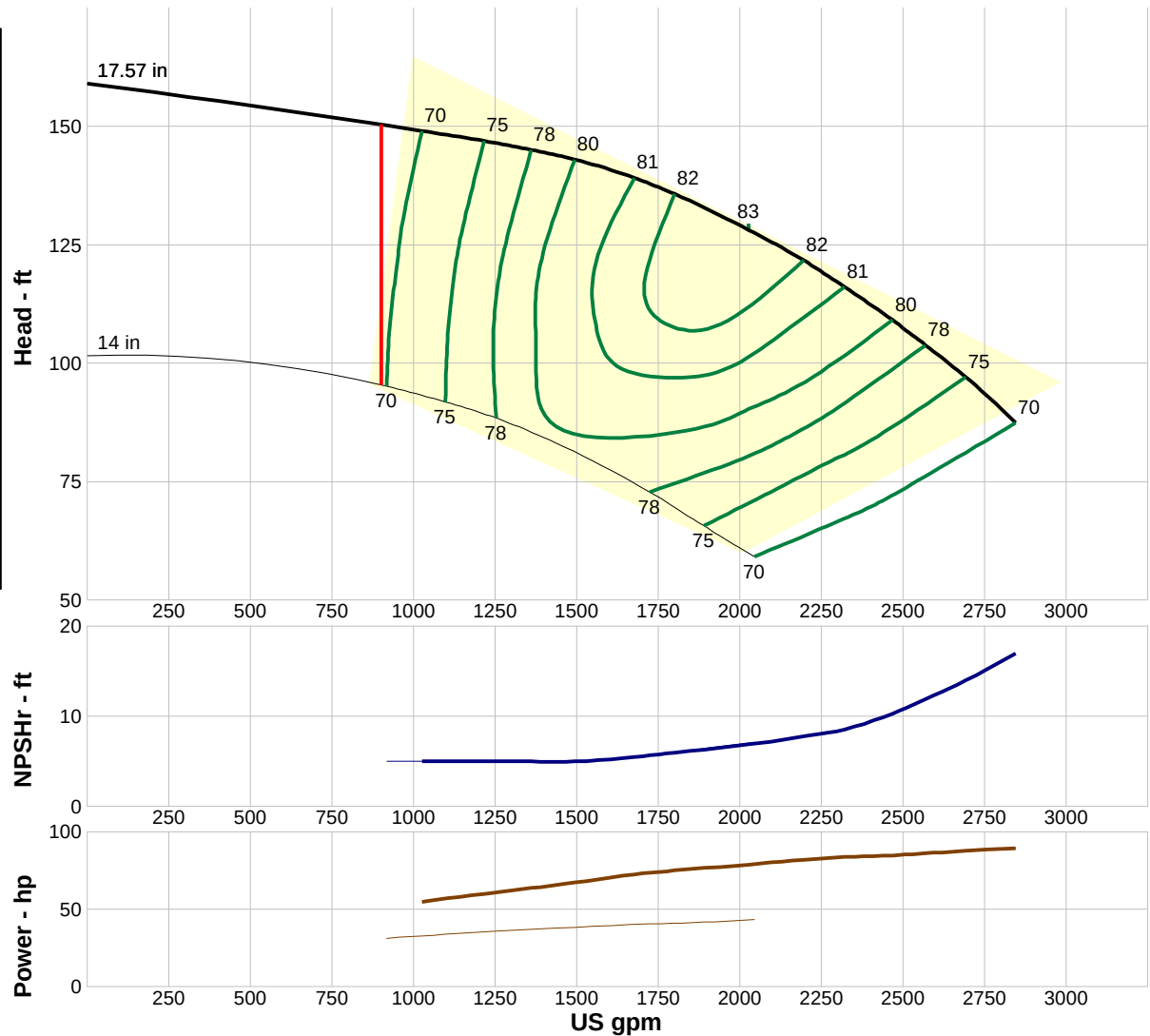
Fluid:

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: 100 hp
 Speed: 1200
 Frame: 444T

---- Data Point ----	
Flow:	2027 US gpm
Head:	128 ft
Eff:	83%
Power:	79 hp
NPSHr:	6.89 ft
---- Design Curve ----	
Shutoff head:	159 ft
Shutoff dP:	68.7 psi
Min flow:	900 US gpm
BEP:	83% @ 2027 US gpm
NOL power:	89.7 hp @ 2845 US gpm
-- Max Curve --	
Max power:	89.7 hp @ 2845 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2731	1185	94.6	74	88.4	14.8
2276	1185	118	81	83.4	8.29
1821	1185	135	82	75.6	6.08
1366	1185	145	78	64	5
910	1185	150	67	52.1	5