

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 8"2822A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 220806A
 Specific Speeds:
 Dimensions:
 Speed: 1180 rpm
 Dia: 11.47 in
 Impeller: J8E1A1
 Ns: 3166
 Nss: 10680
 Suction: 8 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 1.25 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

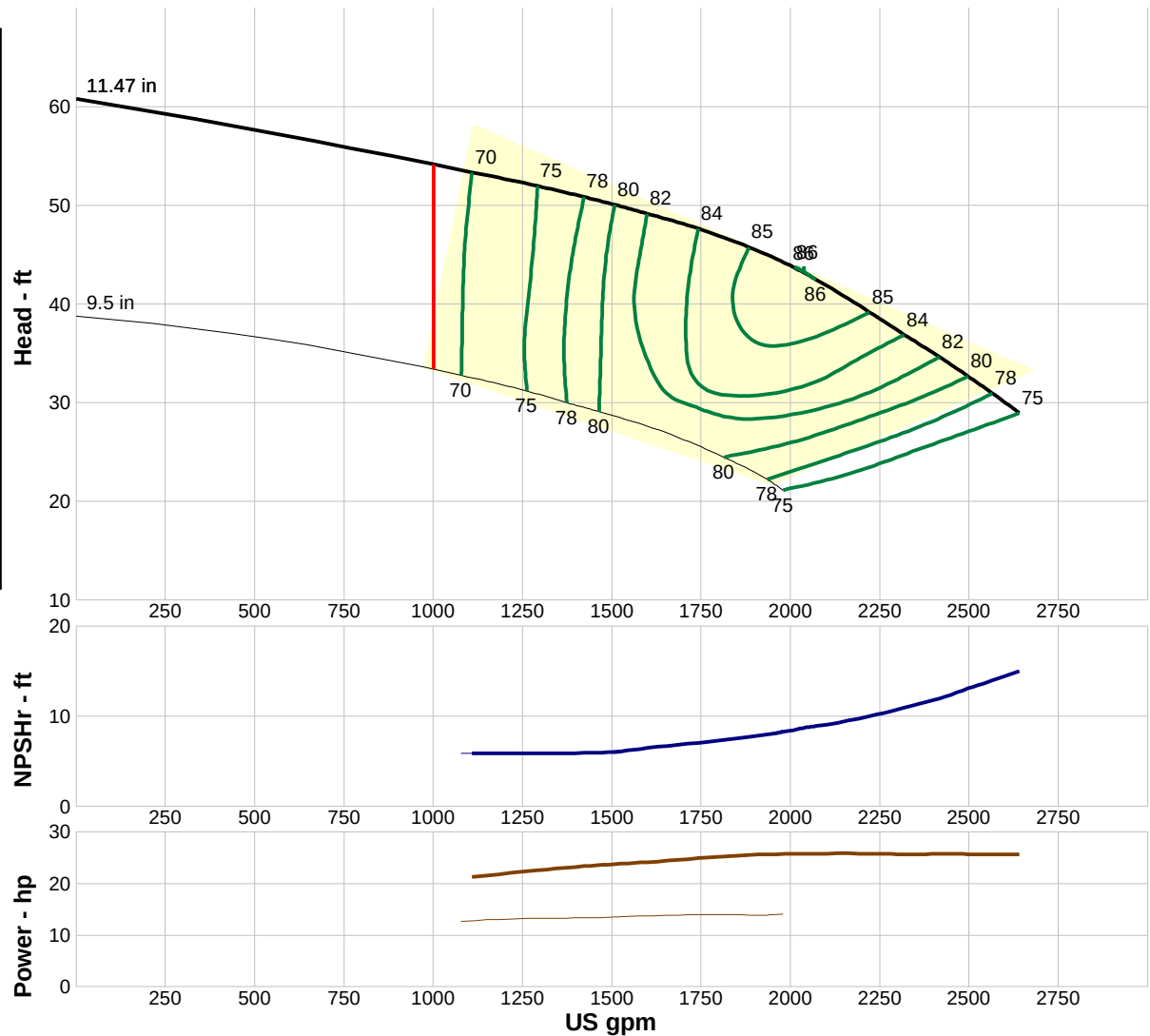
Fluid:

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: 30 hp
 Speed: 1200
 Frame: 326T

---- Data Point ----	
Flow:	2038 US gpm
Head:	43.1 ft
Eff:	86%
Power:	25.8 hp
NPSHr:	8.74 ft
---- Design Curve ----	
Shutoff head:	60.8 ft
Shutoff dP:	26.3 psi
Min flow:	1000 US gpm
BEP:	86% @ 2038 US gpm
NOL power:	25.8 hp @ 2221 US gpm
-- Max Curve --	
Max power:	25.8 hp @ 2221 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2534	1180	31.7	79	25.7	13.6
2112	1180	41.6	86	25.8	9.23
1690	1180	48.2	83	24.7	6.87
1267	1180	52.1	74	22.4	5.9
845	1180	---	---	---	---