

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 6"2822X
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 220604F
 Specific Speeds:
 Dimensions:
 Speed: 1775 rpm
 Dia: 11.38 in
 Impeller: J6E1F
 Ns: 1489
 Nss: 8938
 Suction: 6 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 200 psi g
 Sphere size: 0.44 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

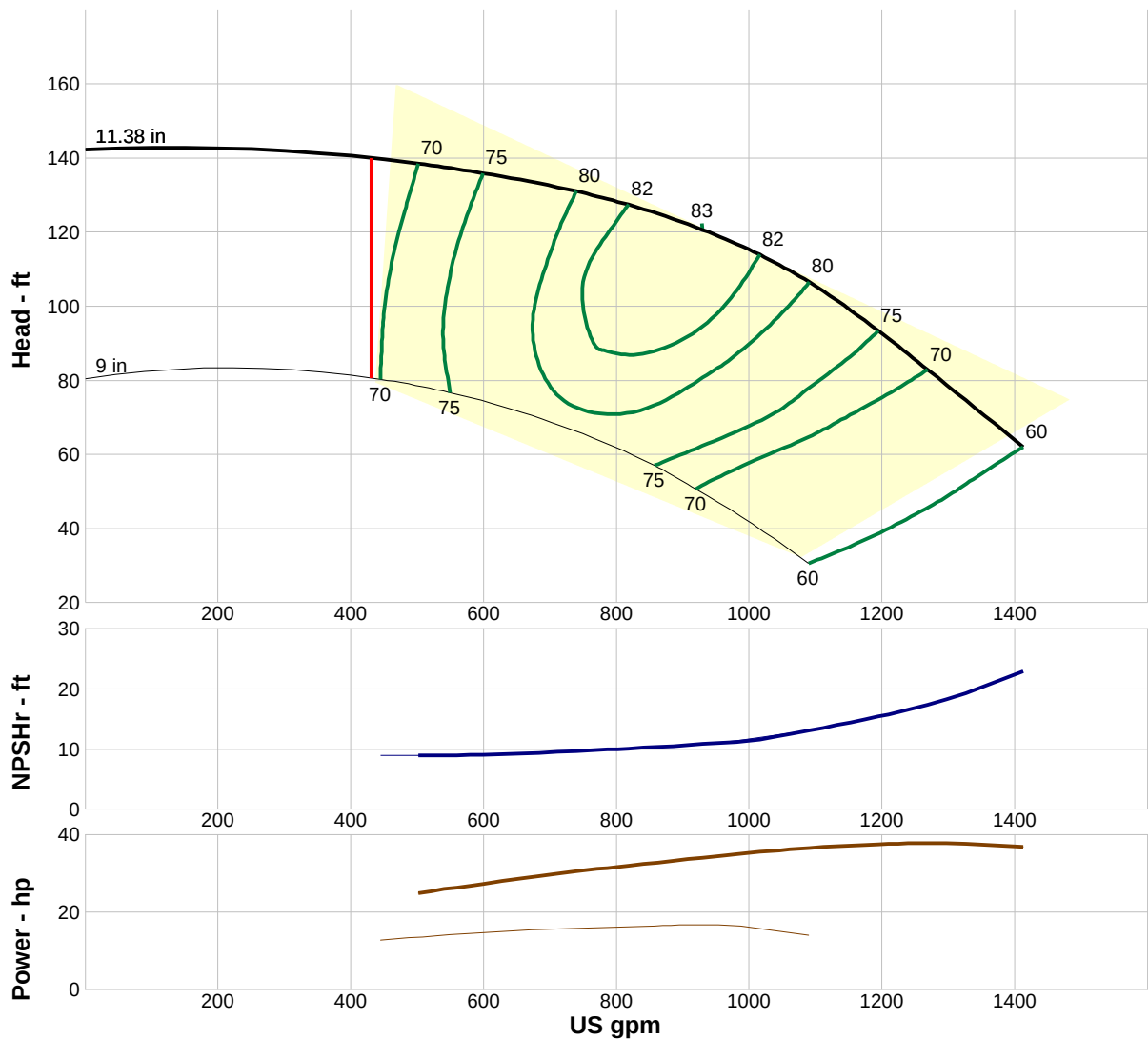
Fluid:

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: 40 hp
 Speed: 1800
 Frame: 324T

---- Data Point ----	
Flow:	929 US gpm
Head:	121 ft
Eff:	83%
Power:	34.1 hp
NPSHr:	10.8 ft
---- Design Curve ----	
Shutoff head:	142 ft
Shutoff dP:	61.5 psi
Min flow:	430 US gpm
BEP:	83% @ 929 US gpm
NOL power:	37.9 hp @ 1268 US gpm
-- Max Curve --	
Max power:	37.9 hp @ 1268 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1356	1775	70.1	64	37.3	20.8
1130	1775	101	78	37	14
904	1775	122	83	33.6	10.7
678	1775	133	78	29.2	9.43
452	1775	139	67	23.8	8.97