

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

**Pump:**

Size: 8"5824
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 240804G
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 18.5 in
 Impeller: D8D1G
 Ns: 1242
 Nss: 11482
 Suction: 10 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.69 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

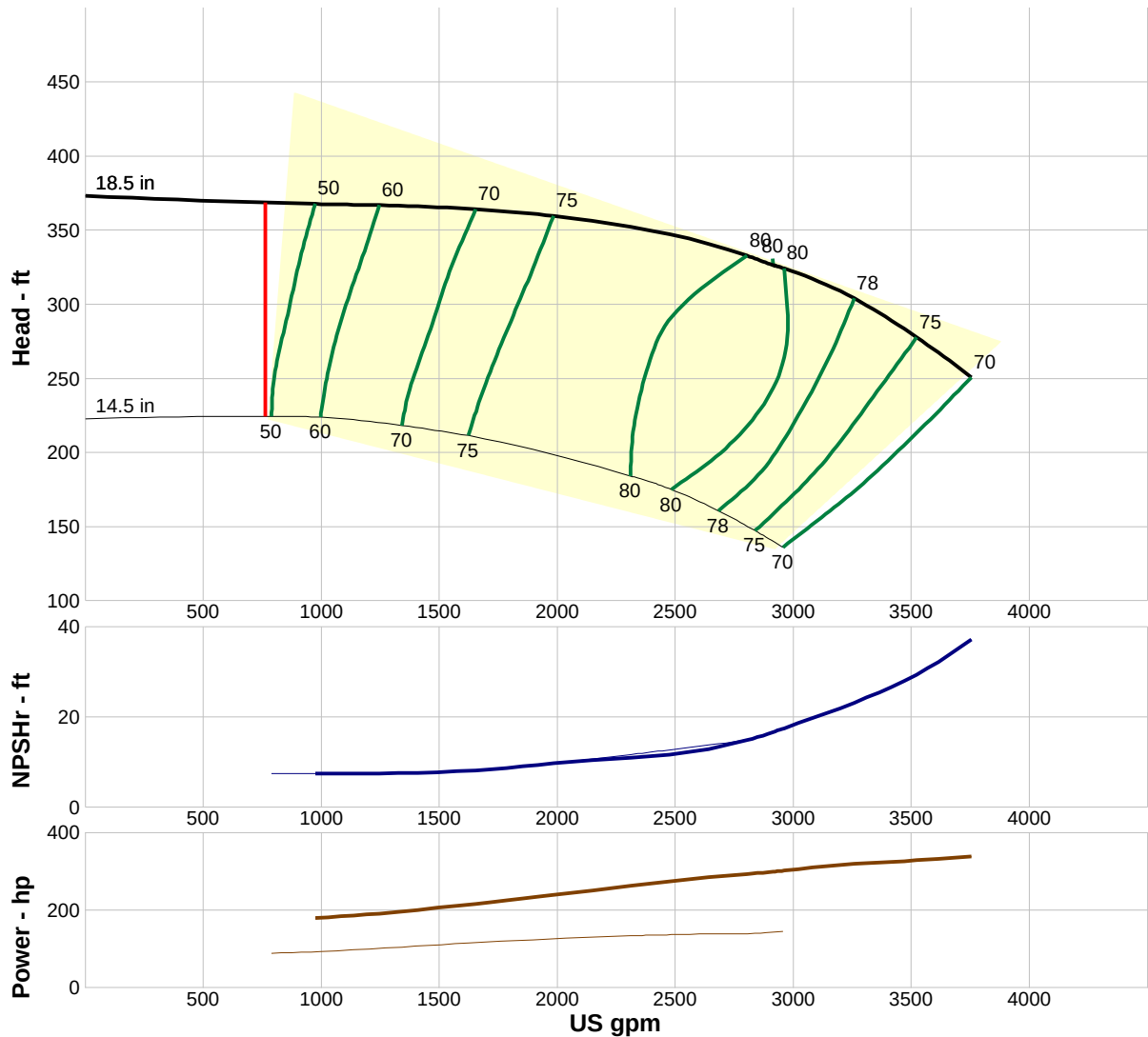
Fluid:

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:	2912 US gpm
Head:	326 ft
Eff:	80%
Power:	300 hp
NPSHr:	16.7 ft
---- Design Curve ----	
Shutoff head:	373 ft
Shutoff dP:	161 psi
Min flow:	760 US gpm
BEP:	80% @ 2912 US gpm
NOL power:	340 hp @ 3753 US gpm
-- Max Curve --	
Max power:	340 hp @ 3753 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3602	1785	268	73	333	32.2
3002	1785	321	80	305	18.4
2402	1785	346	78	268	12.4
1801	1785	362	72	227	8.91
1201	1785	367	58	190	7.5