

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"5821
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 210404A
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 9.75 in
 Impeller: D4C1A
 Ns: 1557
 Nss: 5755
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.63 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

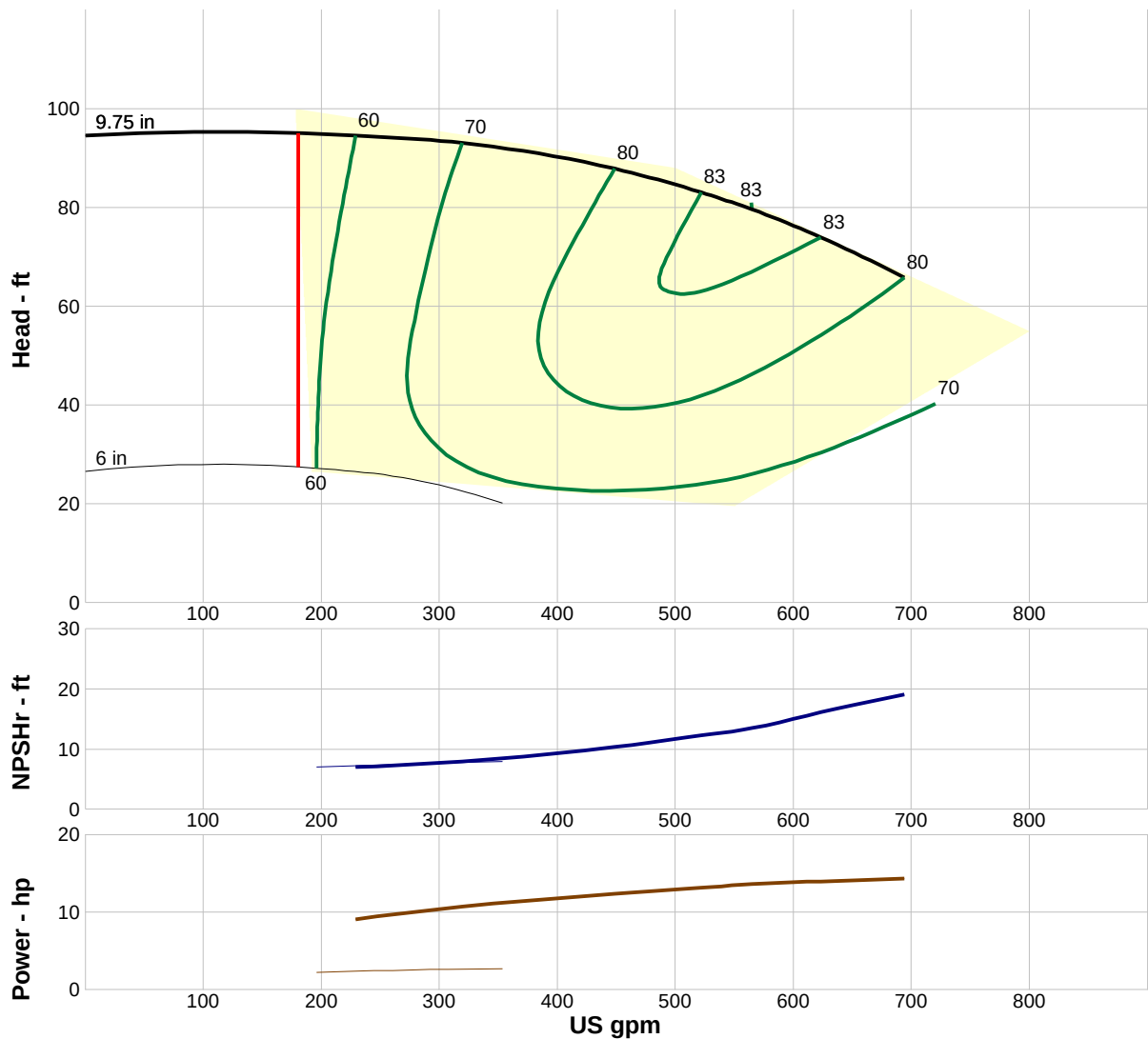
Fluid:

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: 15 hp
 Speed: 1800
 Frame: 254T

---- Data Point ----	
Flow:	565 US gpm
Head:	79.6 ft
Eff:	83%
Power:	13.7 hp
NPSHr:	13.5 ft
---- Design Curve ----	
Shutoff head:	94.6 ft
Shutoff dP:	40.9 psi
Min flow:	180 US gpm
BEP:	83% @ 565 US gpm
NOL power:	14.4 hp @ 694 US gpm
-- Max Curve --	
Max power:	14.4 hp @ 694 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
666	1760	68.9	81	14.2	18
555	1760	80.4	83	13.5	13.2
444	1760	88	80	12.4	10.3
333	1760	92.5	71	10.9	8.25
222	1760	94.5	59	8.98	6.95