

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 10"5823
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 231006A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 15 in
 Impeller: D10A1A
 Ns: 2024
 Nss: 12369
 Suction: 12 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

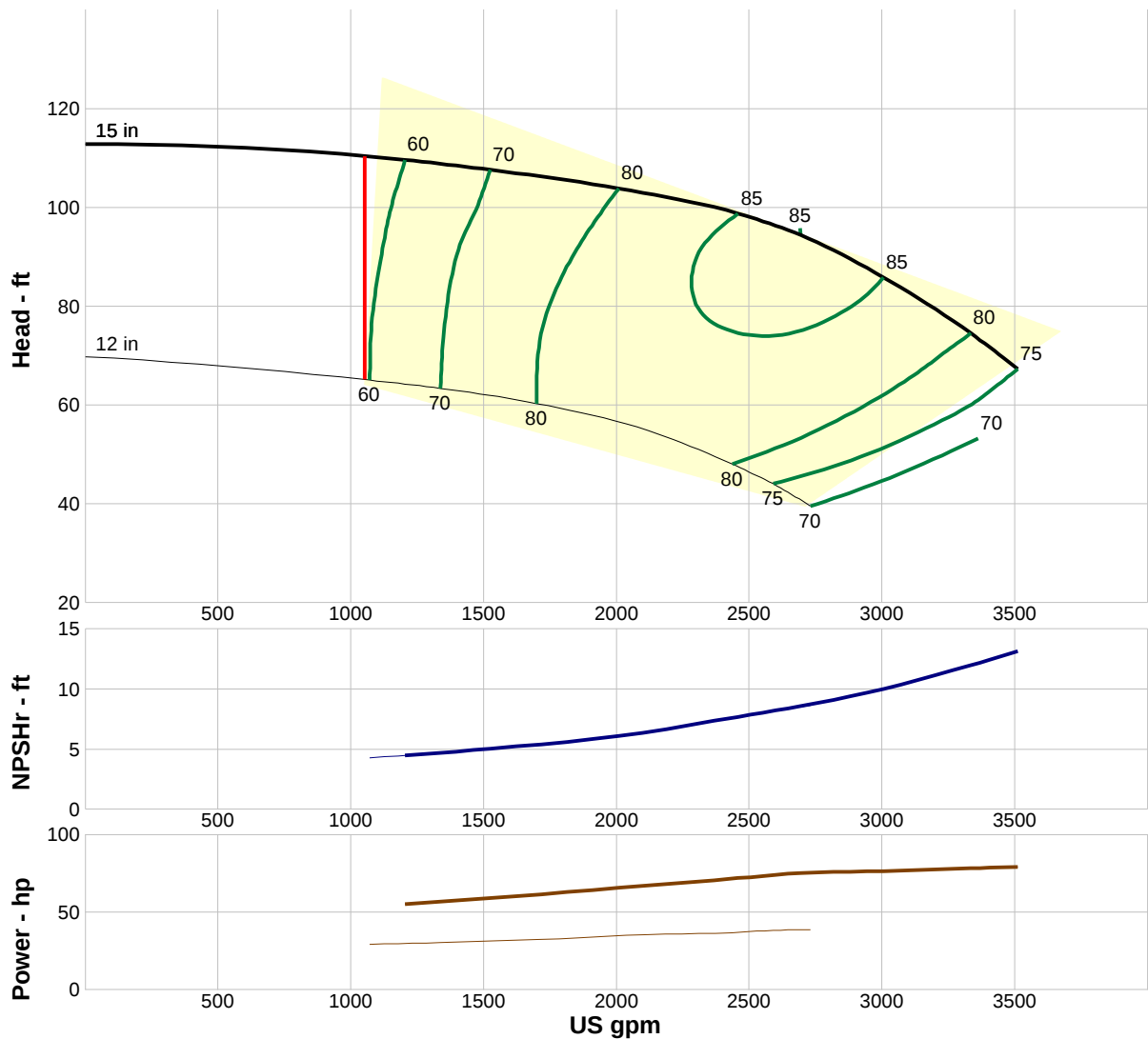
Fluid:

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:	2692 US gpm
Head:	94.4 ft
Eff:	85%
Power:	75.4 hp
NPSHr:	8.58 ft
---- Design Curve ----	
Shutoff head:	113 ft
Shutoff dP:	48.8 psi
Min flow:	1050 US gpm
BEP:	85% @ 2692 US gpm
NOL power:	79.5 hp @ 3510 US gpm
-- Max Curve --	
Max power:	79.5 hp @ 3510 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3370	1185	73	79	78.6	12.2
2808	1185	91.2	85	75.9	9.12
2246	1185	101	83	69.1	6.94
1685	1185	106	73	61.3	5.39
1123	1185	110	58	54.6	4.34