

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 5.5SS150 (1 stage)
 Type: Submersible
 Synch speed: 3450 rpm
 Curve: 5.5SS150
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4 in
 Impeller:
 Ns: 3450
 Nss: ---
 Suction: --- in
 Discharge: --- in

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

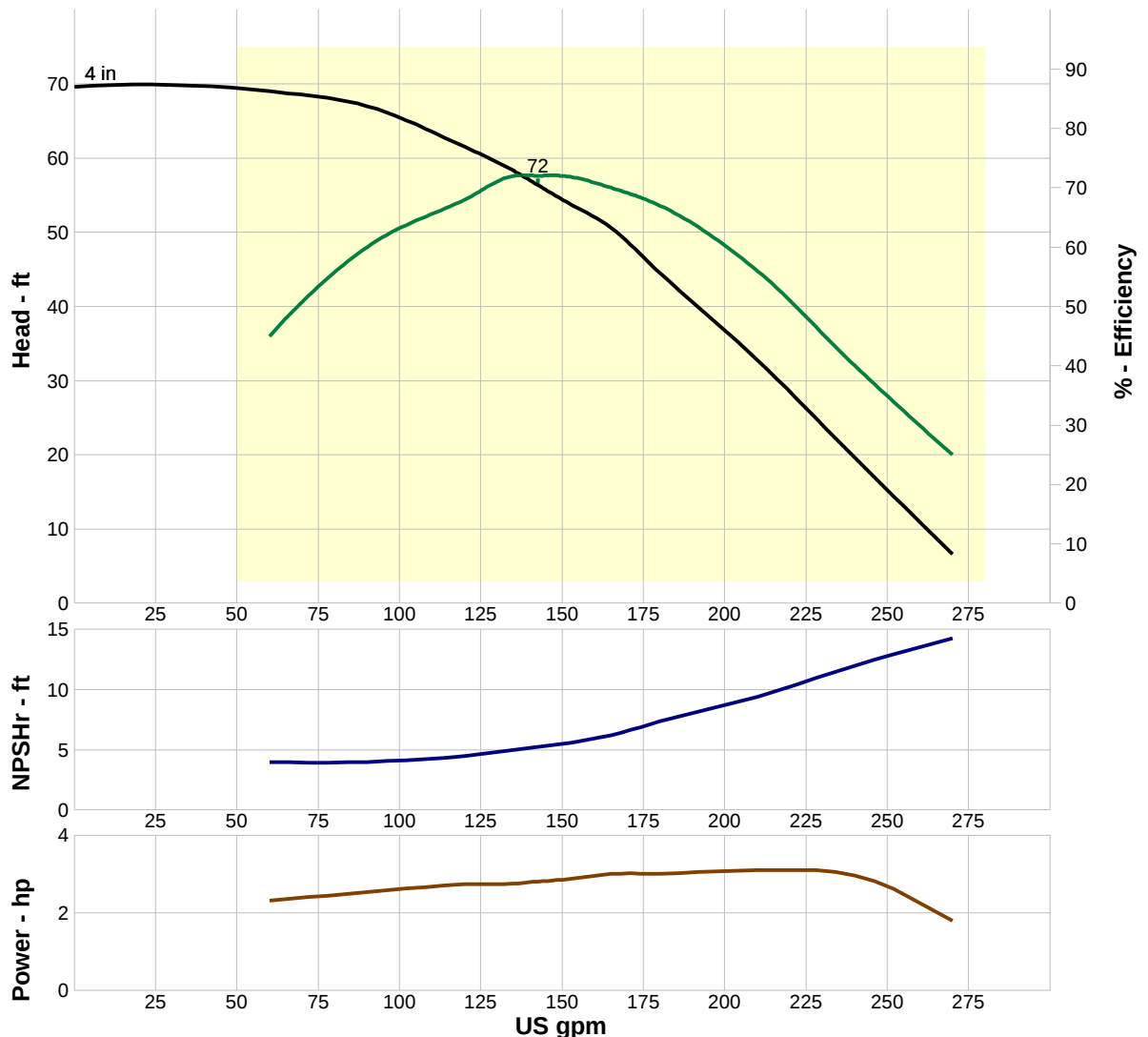
Motor:

Standard: NEMA --- hp
 Enclosure: TEFC Speed: ---
 Frame: ---
 Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: 140 °F
 Pressure: 540 psi g
 Sphere size: 0.125 in
 Power: --- hp
 Eye area: --- in²

---- Data Point ----	
Flow:	143 US gpm
Head:	56.2 ft
Eff:	72%
Power:	2.82 hp
NPSHr:	5.27 ft
---- Design Curve ----	
Shutoff head:	69.6 ft
Shutoff dP:	30.1 psi
Min flow:	28.5 US gpm
BEP:	72% @ 143 US gpm
NOL power:	3.11 hp @ 210 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
259	3450	11.4	30.5	2.23	13.4
216	3450	30.2	52.8	3.08	9.94
173	3450	47.4	68.4	3.02	6.83
130	3450	59.4	70.7	2.75	4.83
86.4	3450	67.2	58.2	2.51	4