



Company: Bonneville Power Administration

Name:

Date: 11/25/2006

Pump:

Size: 6LC-2C (1 stage)
 Type: Submersible
 Synch speed: 3450 rpm
 Curve: S6LC-2C
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 3450 rpm
 Dia: 4.468 in
 Impeller:
 Ns: 3450
 Nss: ---
 Suction: 4 in
 Discharge: 4 in
 Bowl size: 5.65 in
 Max lateral: 0.281 in
 Thrust K factor: 1.5 lb/ft

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

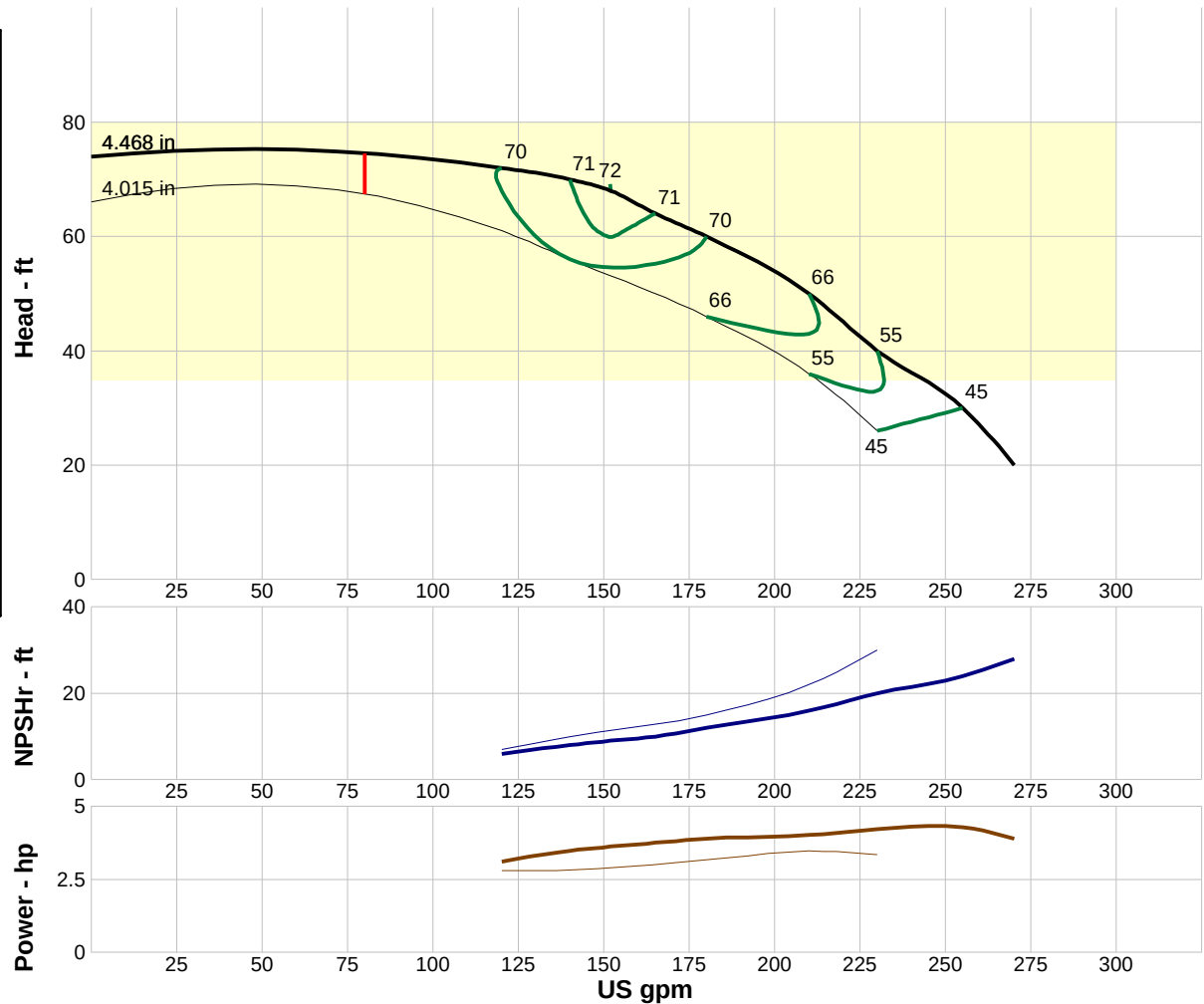
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 400 psi g
 Sphere size: 0.25 in
 Power: 60 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	152 US gpm
Head:	68 ft
Eff:	72%
Power:	3.63 hp
NPSHr:	9 ft
---- Design Curve ----	
Shutoff head:	74 ft
Shutoff dP:	32 psi
Min flow:	80 US gpm
BEP:	72% @ 152 US gpm
NOL power:	4.29 hp @ 255 US gpm
-- Max Curve --	
Max power:	4.29 hp @ 255 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
259	3450	27.3	42.3	4.19	25.1
216	3450	47	62.7	4.08	17.2
173	3450	61.9	70.5	3.83	11.1
130	3450	71	70.5	3.3	7
86.4	3450	72.6	68.3	2.5	2.64