

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"5876
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 760504A
 Specific Speeds:
 Dimensions:
 Speed: 1765 rpm
 Dia: 10 in
 Impeller: G5B1A
 Ns: 1668
 Nss: 13966
 Suction: 8 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.63 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

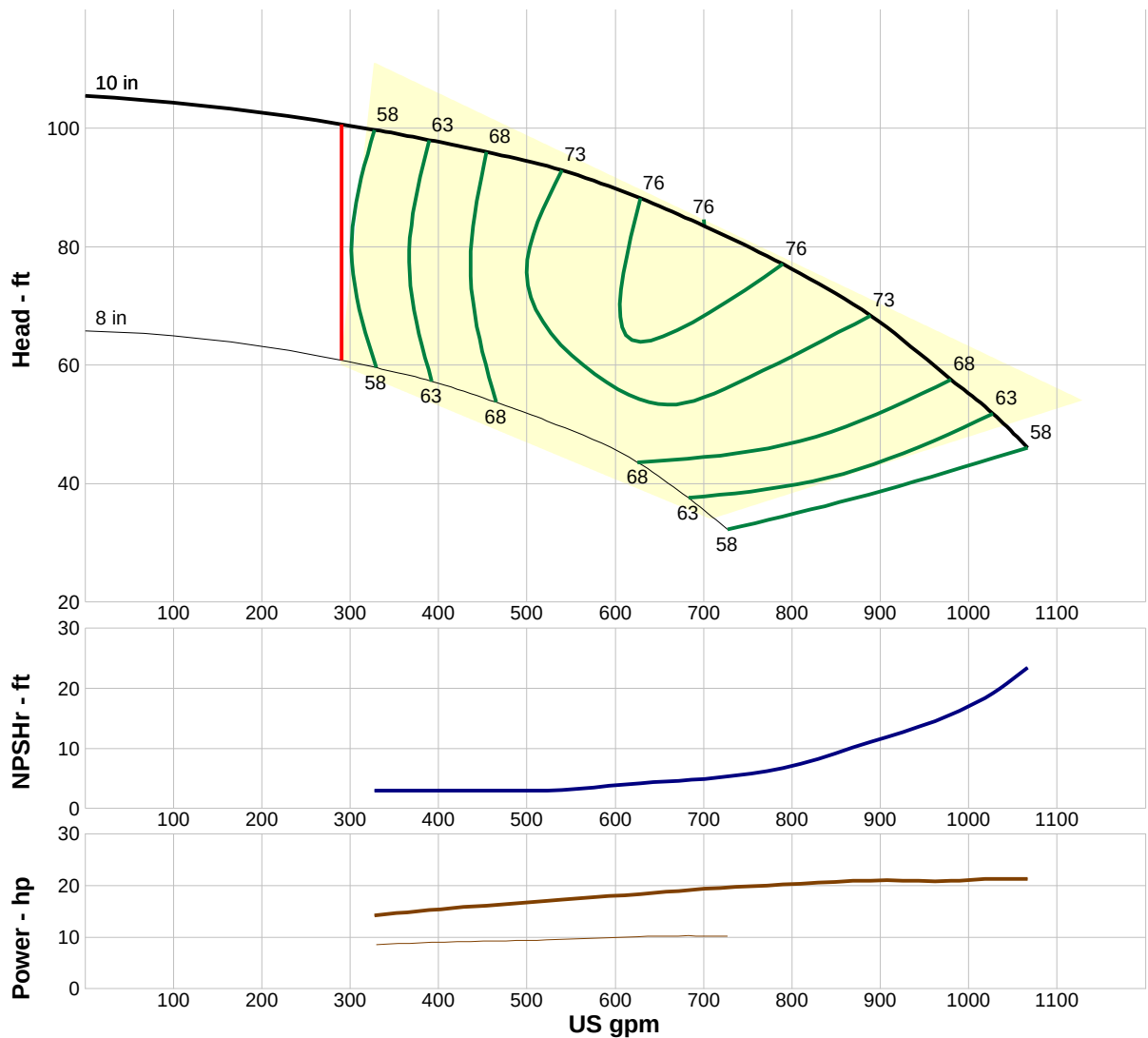
Fluid:

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: 25 hp
 Speed: 1800
 Frame: 284T

---- Data Point ----	
Flow:	700 US gpm
Head:	83.5 ft
Eff:	76%
Power:	19.4 hp
NPSHr:	4.95 ft
---- Design Curve ----	
Shutoff head:	105 ft
Shutoff dP:	45.6 psi
Min flow:	290 US gpm
BEP:	76% @ 700 US gpm
NOL power:	21.4 hp @ 1066 US gpm
-- Max Curve --	
Max power:	21.4 hp @ 1066 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1024	1765	52.2	63	21.3	19
853	1765	71.5	74	20.7	9.56
682	1765	84.7	76	19.1	4.77
512	1765	93.9	71	17	3.06
341	1765	99.3	59	14.4	3