

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2822A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 220606A
Specific Speeds:
Dimensions:
Speed: 1175 rpm
Dia: 11.48 in
Impeller: J6E1A1
Ns: 2592
Nss: 8894
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1.06 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

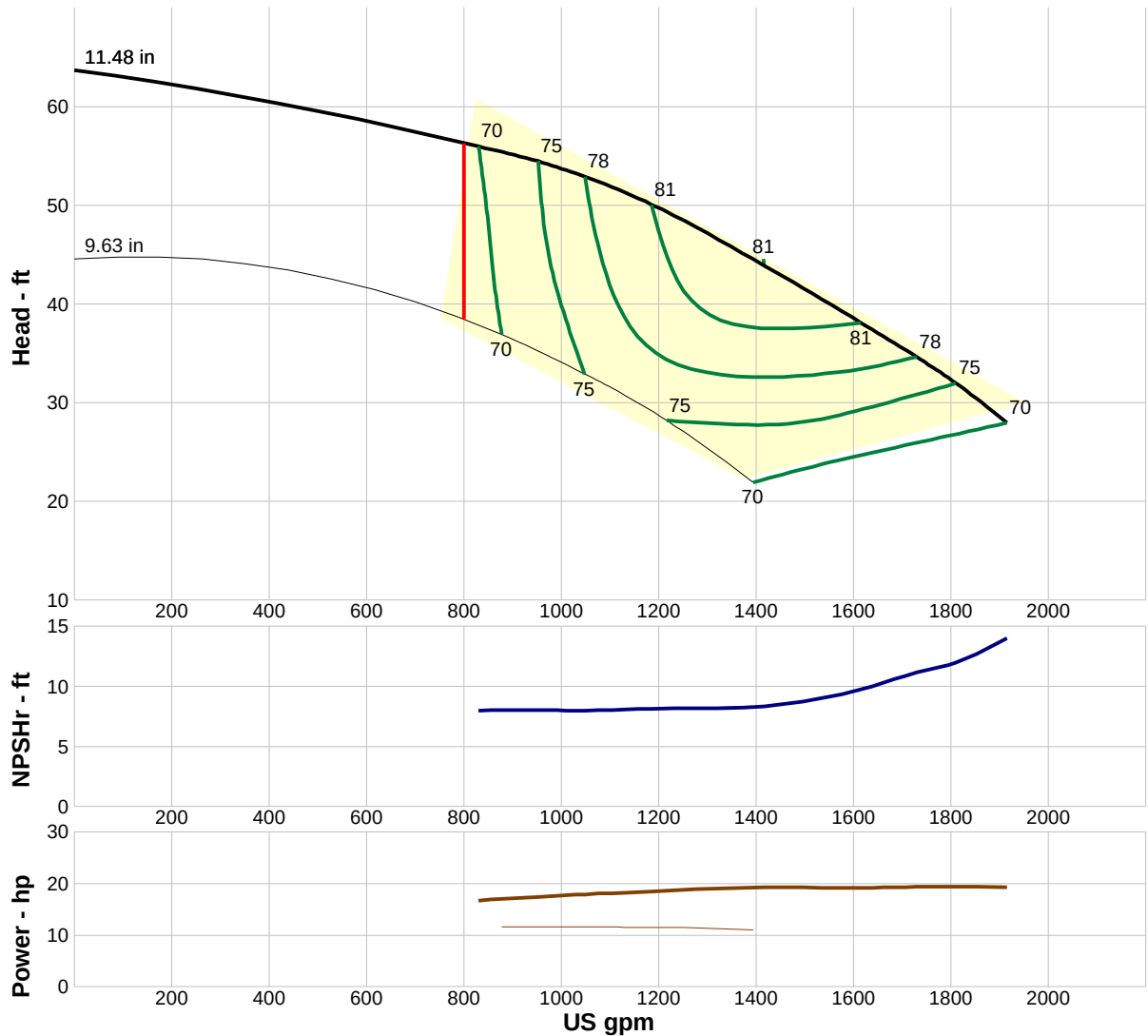
Fluid:

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: 20 hp
Speed: 1200
Frame: 286T

---- Data Point ----	
Flow:	1416 US gpm
Head:	43.9 ft
Eff:	81%
Power:	19.3 hp
NPSHr:	8.35 ft
---- Design Curve ----	
Shutoff head:	63.7 ft
Shutoff dP:	27.5 psi
Min flow:	800 US gpm
BEP:	81% @ 1416 US gpm
NOL power:	19.5 hp @ 1810 US gpm
-- Max Curve --	
Max power:	19.5 hp @ 1810 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1837	1175	30.9	74	19.4	12.5
1531	1175	40.5	81	19.2	9.16
1225	1175	49	81	18.6	8.18
919	1175	54.9	74	17.3	8.01
612	1175	---	---	---	---