



Company: Portable Pumping Systems
 Name: Donnie Wendell
 Date: 3/5/2015

Pump:

Size: 8NNT
 Type: Encl Solids Handling
 Synch speed: 1800 rpm
 Curve: 8NNT18
 Specific Speeds:
 Dimensions:
 Speed: 1780 rpm
 Dia: 11 in
 Impeller:
 Ns: 2450
 Nss: ---
 Suction: 8 in
 Discharge: 8 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

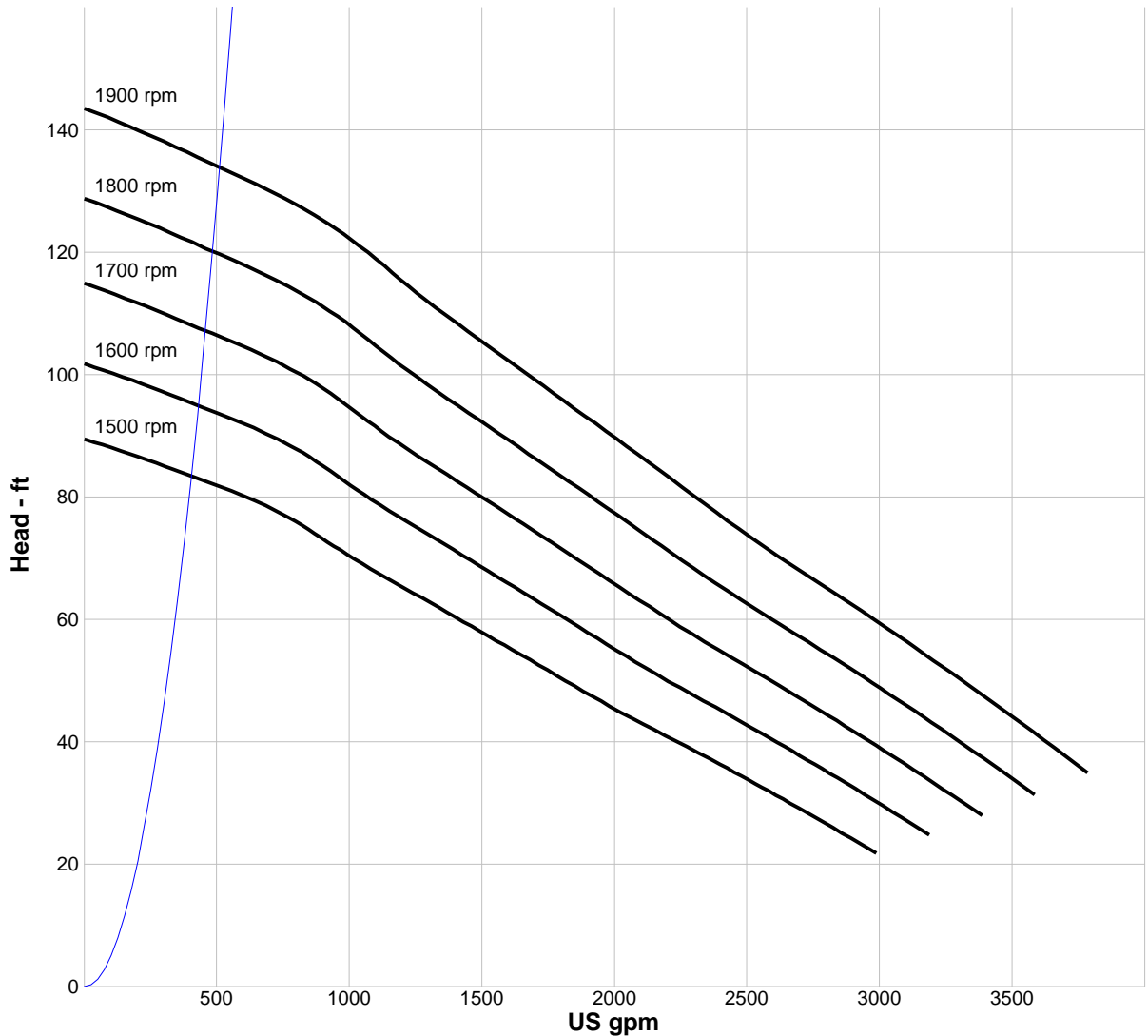
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 60 hp
 Speed: 1800
 Frame: 364T

Pump Limits:

Temperature: 250 °F
 Pressure: 150 psi g
 Sphere size: 3.38 in
 Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	2351 US gpm
Head:	64.6 ft
Eff:	75%
Power:	51.2 hp
NPSHr:	13 ft
---- Design Curve ----	
Shutoff head:	126 ft
Shutoff dP:	54.6 psi
Min flow:	400 US gpm
BEP:	75% @ 2351 US gpm
NOL power:	51.2 hp @ 2351 US gpm
-- Max Curve --	
Max power:	135 hp @ 4419 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3402	1780	35	63	47.6	14.5
2835	1780	51.4	74	49.6	13.4
2268	1780	67	75	51.1	13.1
1701	1780	83.9	71	50.2	13.7
1134	1780	101	58	49.9	14.7