

Company: ---
 Name: ---
 Date: 04/15/2024



Pump:

Size: 1.5x1.25x5 **Dimensions:**
 Type: 3112-Small ESCC Suction: 1.5 in
 Synch Speed: 3600 rpm Discharge: 1.25 in
 Dia: 4.375 in
 Curve: PC3938
 Impeller: 29788
 Specific Speeds: Ns: 1011
 Nss: 5794

Fluid:

Name: Water
 SG: 1 Vapor Pressure: 0.256 psi a
 Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a
 Viscosity: 1.1 cP
 Temperature: 60 °F Margin Ratio: 1

Search Criteria:

Flow: --- Near Miss: ---
 Head: --- Static Head: 0 ft

Pump Limits:

Temperature: 250 °F Sphere Size: 0.25 in
 Wkg Pressure: 100 psi g

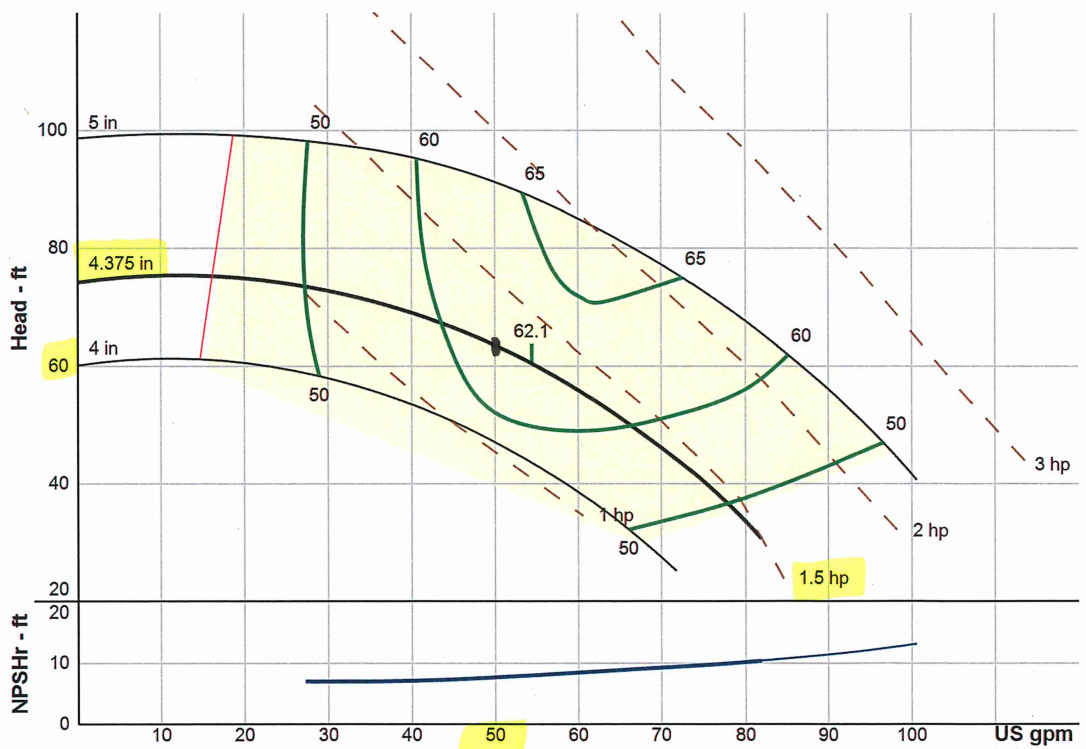
Motor:

Standard: NEMA Size: 1.5 hp
 Enclosure: TEFC Speed: 3600 rpm
 Frame: 143T
 Sizing Criteria: Max Power on Design Curve

Pump Selection Warnings:

None

--- Duty Point ---	
Flow:	54.4 US gpm
Head:	60.4 ft
Eff:	62%
Power:	1.34 hp
NPSHr:	7.99 ft
Speed:	3500 rpm
--- Design Curve ---	
Shutoff Head:	74.2 ft
Shutoff dP:	32.1 psi
Min Flow:	16.3 US gpm
BEP:	62.1% @ 54.4 US gpm
NOL Power:	1.5 hp @ 81.9 US gpm
--- Max Curve ---	
Max Power:	2.29 hp @ 96.6 US gpm



Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
78.6	3500	35.6	49	1.45	9.99
65.5	3500	50.7	60	1.39	8.87
52.4	3500	61.7	62	1.32	7.85
39.3	3500	68.9	57	1.18	7.18
26.2	3500	73.6	49	0.997	7