



Company: CMCMUA
 Name: Rosemary Small Curve- Report
 Date: 2/10/2022
 Selection: CMCMUA-Rosemary Small

Pump:

Size: 8NNT
 Type: Encl Solids Handling
 Synch Speed: 1200 rpm
 Curve: 8NNT12
 Specific Speeds:
 Dimensions:
 Speed: 1180 rpm
 Dia: 13.25 in
 Impeller:
 Ns: 2451
 Nss: ---
 Suction: 10 in
 Discharge: 8 in

Search Criteria:

Flow: 1750 US gpm Head: 52 ft

Fluid:

Water
 Density: 62.32 lb/ft³
 Viscosity: 0.9946 cP
 NPSHa: ---
 Temperature: 68 °F
 Vapor Pressure: 0.3391 psi a
 Atm Pressure: 14.7 psi a

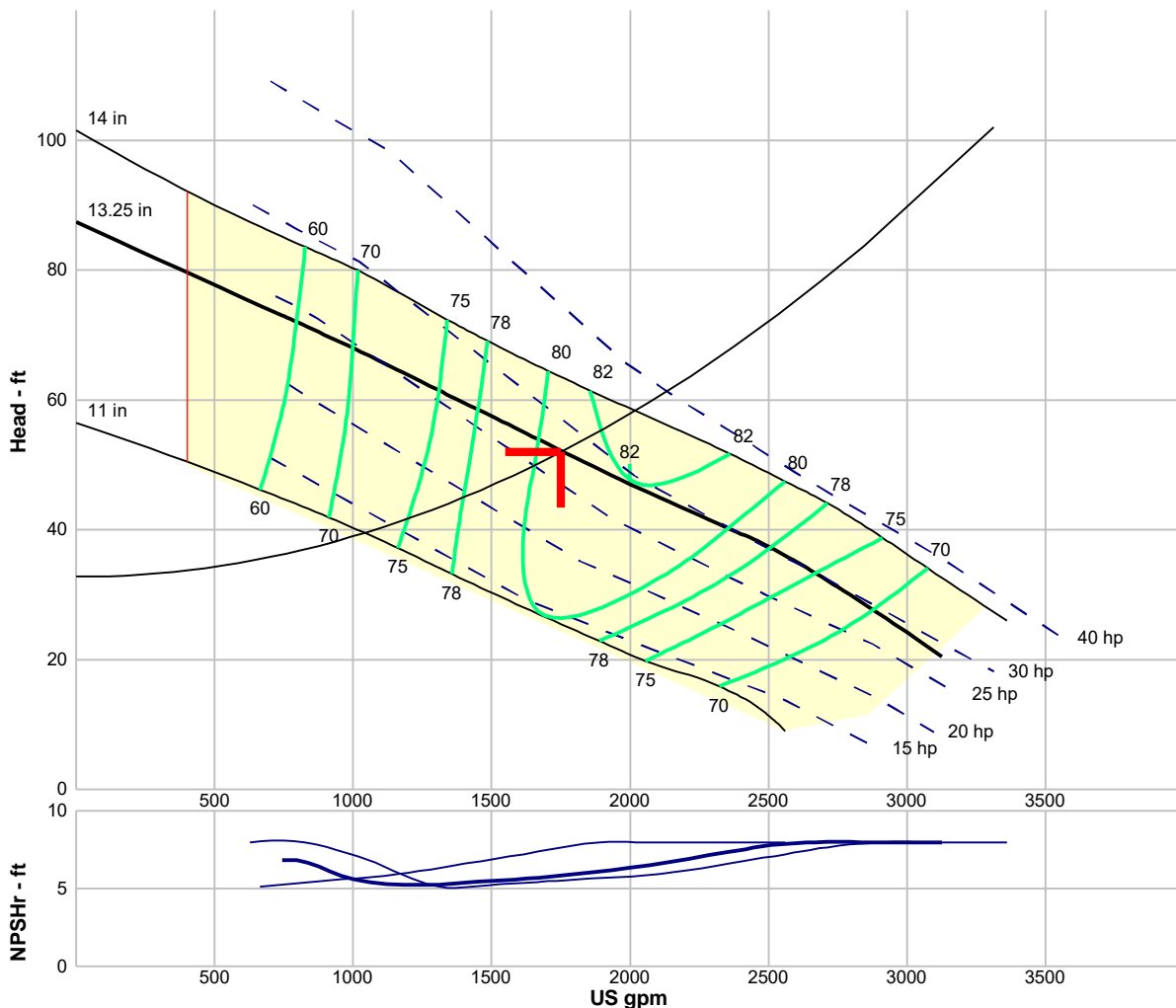
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing Criteria: Max Power on Design Curve
 Size: 40 hp
 Speed: 1200 rpm
 Frame: 364T

Pump Limits:

Temperature: 250 °F
 Pressure: 150 psi g
 Sphere Size: 3.38 in
 Power: ---
 Eye Area: ---

---- Duty Point ----	
Flow:	1756 US gpm
Head:	52.1 ft
Eff:	81%
Power:	28.5 hp
NPSHr:	5.89 ft
---- Design Curve ----	
Shutoff Head:	87.4 ft
Shutoff dP:	37.8 psi
Min Flow:	400 US gpm
BEP:	82% @ 1999 US gpm
NOL Power:	30.2 hp @ 2507 US gpm
-- Max Curve --	
Max Power:	38.7 hp @ 2713 US gpm



Min flow line represents the absolute lowest flow pump can operate. Consult with factory if operating below 50% of BEP flow

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2100	1180	45.2	81	29.2	6.64
1750	1180	52.3	80	28.5	5.88
1400	1180	59.6	77	27.3	5.38
1050	1180	66.9	71	24.9	5.55
700	1180	73.9	54	24	6.91