



Company: CMCMUA  
 Name: Rosemary PS  
 Date: 4/20/2022

GPM-3200  
 TDH-79

**Pump:**

Size: 8NHTR  
 Type: Encl Solids Handling  
 Synch Speed: 1200 rpm  
 Curve: 8NHTR12  
 Specific Speeds:  
 Dimensions:  
 Speed: 1180 rpm  
 Line: 16.44" x 0°  
 Impeller:  
 Ns: 2200  
 Nss: ---  
 Suction: 10 in  
 Discharge: 8 in

**Search Criteria:**

Flow: 3200 US gpm Head: 79 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: 100 hp  
 Speed: 1200 rpm  
 Frame: 444T

**Pump Limits:**

Temperature: 250 °F  
 Pressure: 125 psi g  
 Sphere Size: 5 in  
 Power: ---  
 Eye Area: ---

**---- Duty Point ----**

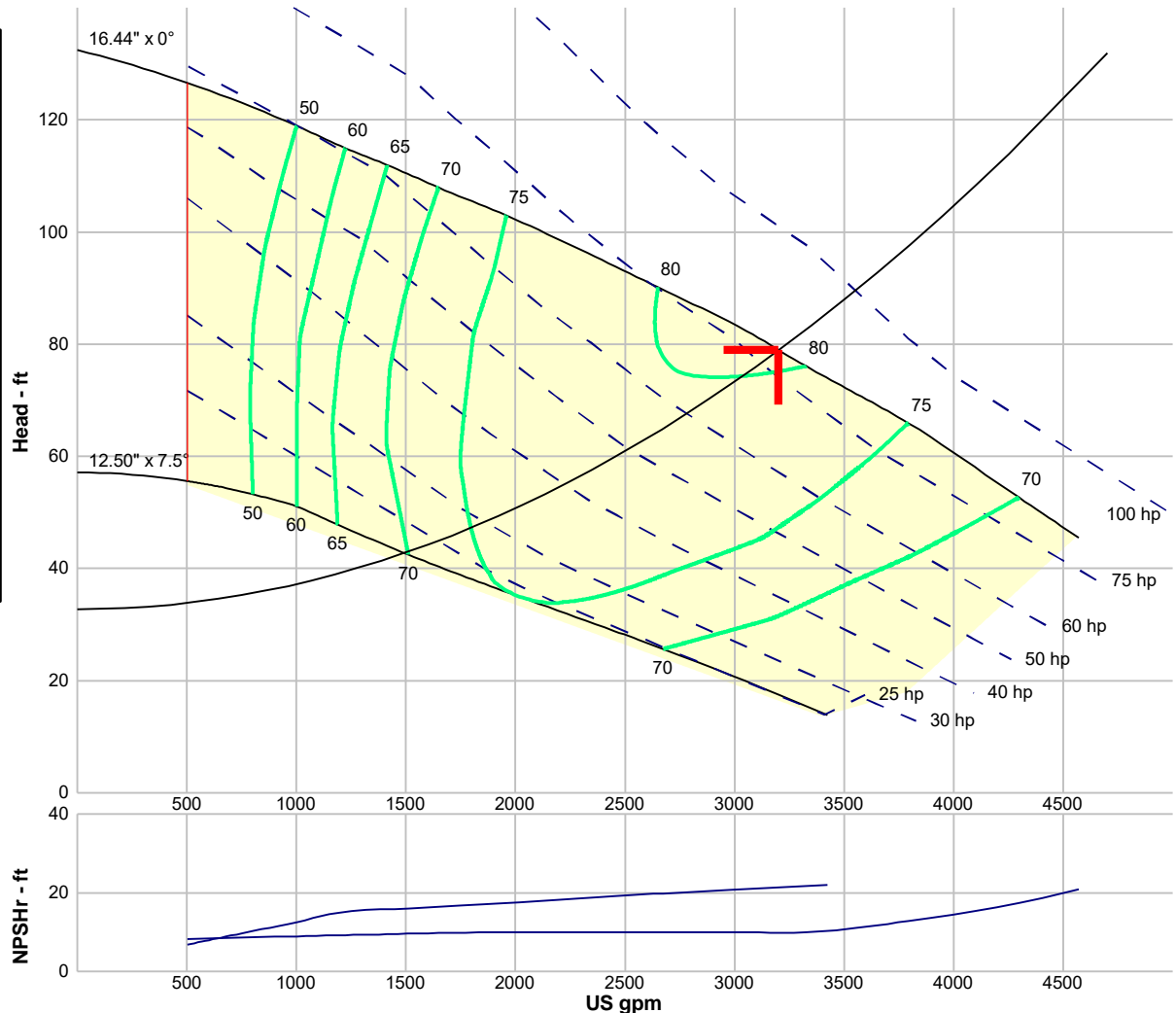
Flow: 3200 US gpm  
 Head: 79 ft  
 Eff: 81%  
 Power: 78.7 hp  
 NPSHr: 10 ft

**---- Design Curve ----**

Shutoff Head: 132 ft  
 Shutoff dP: 57.3 psi  
 Min Flow: 500 US gpm  
 BEP: 82% @ 3054 US gpm  
 NOL Power: 84.2 hp @ 3792 US gpm

**-- Max Curve --**

Max Power: 84.2 hp @ 3792 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
3840	1180	64.7	75	84	13.3
3200	1180	79	81	78.7	10
2560	1180	91.9	79	74.5	10
1920	1180	104	74	67.4	9.98
1280	1180	114	62	59.8	9.36