

Company:
Name:
Date: 10/26/2020



Pump:

Size: FW14HC (stages: 3) **Dimensions:**
 Type: Vertical Turbine **Suction:** 12 in
 Synch Speed: 1800 rpm **Discharge:** 12 in
 Dia: 10.625 in **Vertical Turbine:**
 Curve: FT6414HC1 **Eye Area:** 30.2 in²
 Impeller Style: Enclosed **Bowl Size:** 13.4 in
Max Lateral: 2 in
Thrust K Factor: 13 lb/ft

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: 2250 US gpm **Near Miss:** ---
 Head: 235 ft **Static Head:** 0 ft

Pump Limits:

Temperature: --- **Sphere Size:** 0.98 in
 Wkg Pressure: 340 psi g

Motor:

Standard: NEMA **Size:** 200 hp
 Enclosure: TEFC **Speed:** 1800 rpm
 Frame: 447T
 Sizing Criteria: Max Power on Design Curve

Pump Selection Warnings:

None

--- Duty Point ---

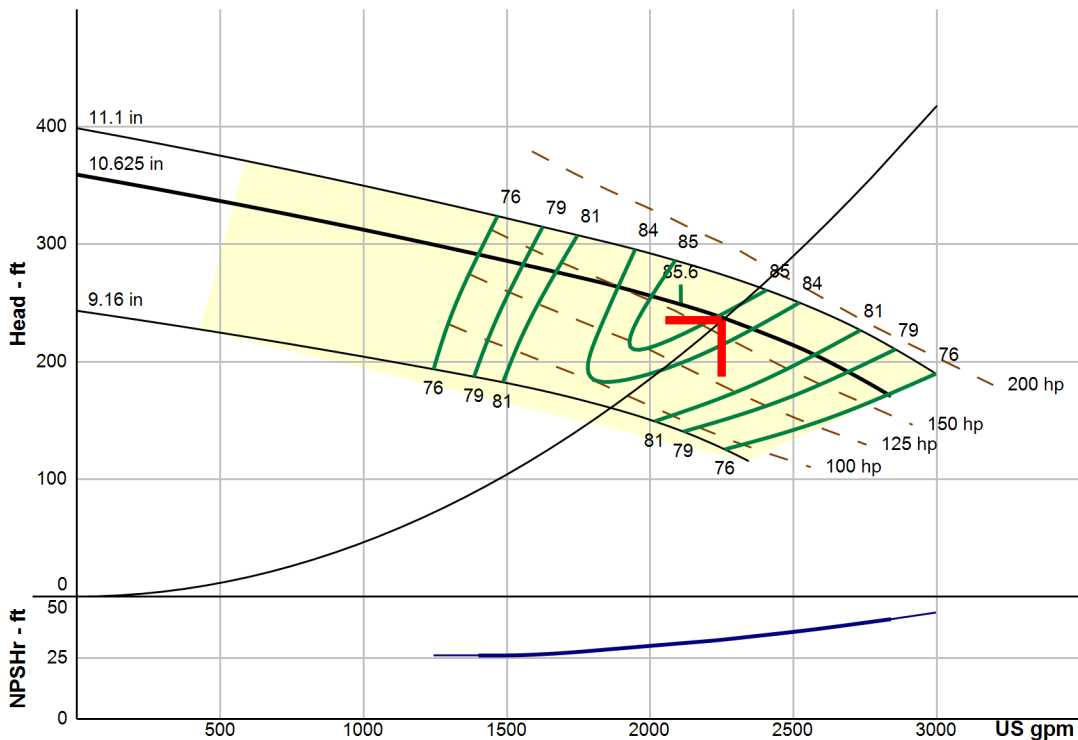
Flow: 2259 US gpm
 Head: 237 ft
 Eff: 84.8%
 Power: 159 hp
 NPSHr: 32.5 ft
 Speed: 1770 rpm

--- Design Curve ---

Shutoff Head: 359 ft
 Shutoff dP: 156 psi
 Min Flow: --- US gpm
 BEP: 85.6% @ 2107 US gpm
 NOL Power:
 165 hp @ 2574 US gpm

--- Max Curve ---

Max Power:
 193 hp @ 2733 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2700	1770	190	78.8	164	38.6
2250	1770	238	84.9	159	32.4
1800	1770	269	82.8	147	28
1350	1770	294	75	134	26
900	1770	316	66.3	119	26