



Customer:

Order No:

01/08

Pump:
 Type: 20GHC (3 stages)
 Type: Lineshaft
 Synchronous speed: 1200 rpm
 Curve: E8620GBPC1
 Specific Speeds:

Speed: 1180 rpm
 Dia: 13.375 in
 Ns: 4970

Search Criteria:

Flow: 7000 US gpm Head: 185 ft

Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft

Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Pump Notes for Standard Sizes:

Discharge Size-16"

Vertical Turbine:

Bowl size: 20.75 in
 Max lateral: 1.41 in
 Thrust K factor: 41.2 lb/ft

Motor:

Standard: NEMA Size: 400 hp
 Speed: 1200

Pump Limits for Standard Construction:

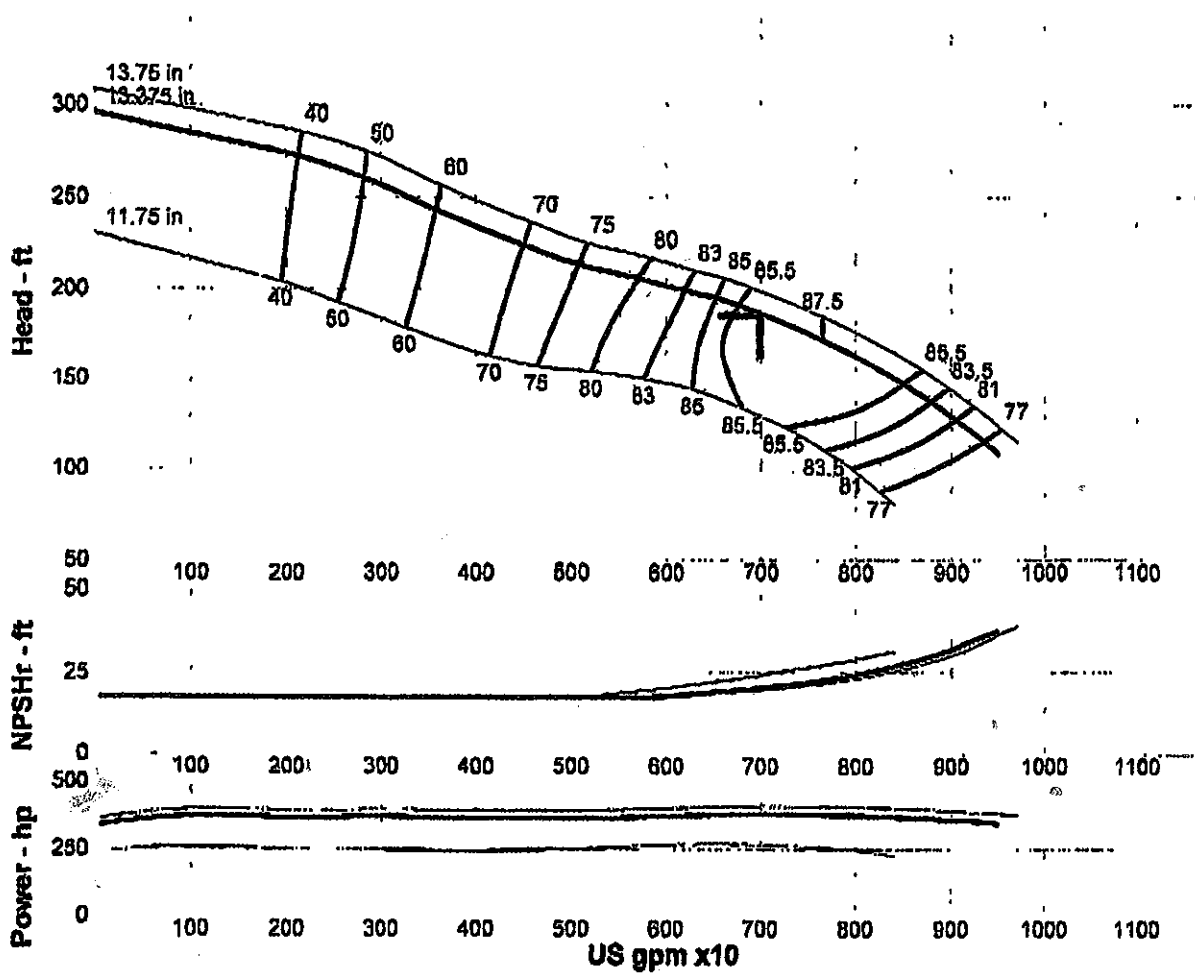
Temperature: 120 °F Pressure: 270 psi g
 Sphere size: 1.56 in

Sizing criteria: Max Power on Design Curve

--- Data Point ---
 Flow: 7000 US gpm
 Head: 186 ft
 Eff: 86%
 Power: 380 hp
 NPSHr: 20.5 ft

-- Design Curve --
 Shutoff Head: 296 ft
 Shutoff dP: 128 psi
 Min Flow: --- US gpm
 BEP: 87.5% eff
 @ 7660 US gpm
 NOL Pwr: 381 hp
 @ 6763 US gpm

-- Max Curve --
 Max Pwr: 409 hp
 @ 6899 US gpm



Performance Data

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
8400	1180	150	85.7	370	27
7000	1180	186	86	380	20.5
5600	1180	207	79.2	370	17.5
4200	1180	230	66.8	364	17.5
2800	1180	261	49.7	371	17.5