Unmatched Reliability

Vaughan®

Triton Pumps Inquiry Form

Name: _____
Company: _____
Address: _____
City: _____
State/Country: _____ Zip/Code: _____

Phone: _____
Fax: _____
e-mail: _____
Project Name: _____
Project Location: _____

Application:_____

Industry Type:_____

Type of Pump:

- ○ Vertical Wet Well: Length:_____Feet
- ○ Vertical Recirculator: Length:____Feet
- ○ Horizontal ○ Vertical Pedestal
- ○ Submersible ☐ Explosion Proof
- ☐ Guide Rail System
- ☐ Recirculator
- ☐ Hydraulic Submersible

Property of Liquids:

Temperature: _____ °F _____ °C

PH: _____ % SOLIDS: _____

Specific Gravity: _____

Viscosity (cps): _____ (ssu):_____

Requested Solids Passage Size:_____

Type/Size of Upstream Screening (if any):

_____

Upstream Grit Removal (if any):_____

Feedstock Sources:_____

Describe Solids:_____

Pump Performance:

Capacity:_____ GPM _____ M^3/Hr

Head: _____ feet _____ meters

_____ psi

System Description

Inlet Pipe Diameter: ___inch ___mm
Inlet Length: ___feet ___meters
Inlet Static Head: ___feet ___meters
Disch. Pipe Diameter: ___inch ___mm
Disch. Length: ___feet ___meters
Disch. Static Head: ___feet ___meters
Net Static Head: ___feet ___meters
Header PSI: ___PSI
Other:_____

Sump Dimensions:

___ ft deep x ___ ft wide x ___ ft long

___ M deep x ___ M wide x ___ M long

___ ft, ____meters diameter x____deep

Electric Motor Requirements:

___ HP, ____ RPM, ___ Volts, __ Ph, __ Hz

___ KW, ____ RPM, ___ Volts, __ Ph, __ Hz

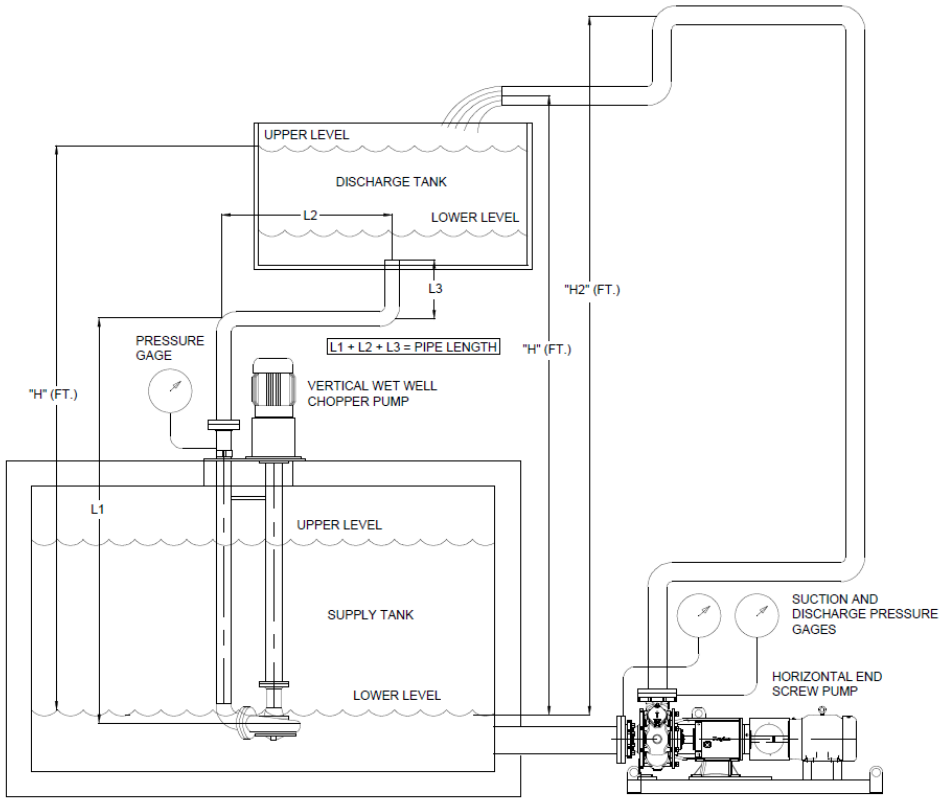
Enclosure Type:_____

Please tell us how you heard about Vaughan:_____

Fax, e-mail or mail form directly to:

Vaughan Company, Inc.
364 Monte Elma Road
Montesano, WA 98563
360-249-4042
Fax: 360-249-6155
e-mail: info@chopperpumps.com

TOTAL HEAD CALCULATIONS



TOTAL HEAD:

TDH = Pipeline Friction + Vertical Lift (H) + Velocity Head ($V^2/2g$)

- Pipeline Friction = [Pipe Length (ft) / 100] x friction factor (table on form V137)

Water friction tables are suitable for sewage & most water-borne slurries up to 5% solids. For high solids loadings & heavy organic sludge, use the biological friction table on form V137.

- Vertical Lift = feet up from supply tank low-water level to high level in discharge tank, or to the center of the open discharge pipe.
  Note: - Lift may be negative (-) if the pipeline is downhill.
  - Intermediate pipeline elevations (H2) higher than the final discharge can be ignored, except that the pump shutoff head must be higher than H2 in order to initiate flow.

- Velocity Head = Energy in the liquid being discharged due to its velocity.
  Note: - Usually ignored as insignificant in low head sump pump systems.
  - For high head systems, use nozzle manufacturer's printed data, or calculate using data as follows:
    V = Velocity of the stream at the discharge diameter (ft/sec)
    G = Acceleration due to gravity (32.2 ft/sec^2)

SPECIAL CASES:

Pipelines with valves & fitting, add appropriate equivalent pipe length.
Pressurized supply or discharge tanks, add the discharge tank pressure, in feet, less any supply tank pressure, in feet, to the above Total Head calculation. Gauge pressure, in psi x 2.31 = head in feet.
Very high solids content sludges & slurries, contact Vaughan on reliable test data for friction values.