

PORTABLE PUMP INQUIRY FORM

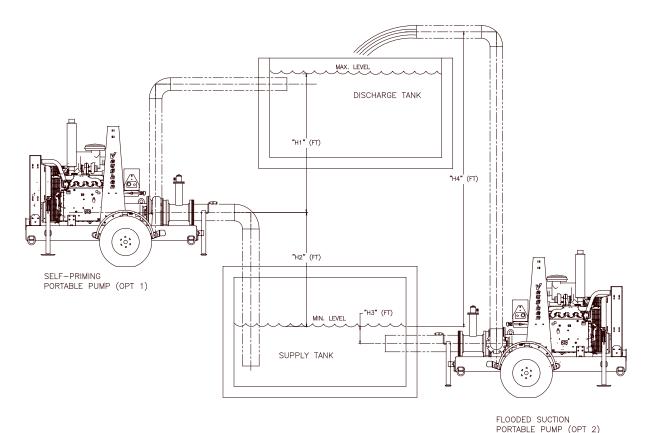
Name:	Phone:
Company:	Fax:
Address:	e-mail:
City: Zip/Codo:	Project Name:
State/Country: Zip/Code:	Project Location:
TYPE OF PUMP:	PACKAGE OPTIONS:
DRY PRIME Horizontal Chopper Horizontal Screw	FRAME Trailer Skid TYPE OF UNIT
WET PRIME ☐ Self-Prime Chopper	☐ Open ☐ Enclosed ☐ Sound Attenuated POWER
HYDRAULIC	☐ Diesel ☐ Electric ☐ Hydraulic
Submersible Chopper PROPERTY OF LIQUIDS:	PUMP PRIMING Venturi Float Prime Vacuum Float Prime
Temperature: °F °C Solids (Wt): % / Solids (Vol): % PH: Specific Gravity: Viscosity (cps): (ssu): Describe Solids:	PUMP CONTROLS Manual Auto-Start High-Low Control - Floats Auto-Start Level Control - Transducer
SITE ELEVATION: feet	REMOTE MONITORING Messenger Kit None
PUMP PERFORMANCE: Capacity: GPM M3/Hr Head (TDH): feet m	BRAKES □ Electric □ Hydraulic Surge □ None
PSI SYSTEM DESCRIPTION: SELF-PRIMING	DOT LIGHT PACKAGE Turn Signal, Brake and Marker Lights None
Suction Head-'H2':feet m Static Head-'H1': feet m	TRAILER HITCH ☐ Lunette Eye ☐ Ball Hitch (2 ⁵/₁6") ☐ None
FLOODED SUCTION Suction Head-'H3': feet m Static Head-'H4': feet m	ELECTRIC CABLE (Connector) Georgia 6-Pin Georgia 7-Blade Georgia 4-Flat (Hydraulic Brakes Only) Decrease None
HOSE SIZING Hose Dia Discharge: inch mm Hose Length Dischg: feet m	HOSE RACK ☐ Rigid & Flat Lay hose
Hose Length Dischg: feet m Hose Dia Suction: inch mm Hose Length Suct: feet m Note: For maximum re-prime height 'H2', see applicable Portable Pump product brochure, specification sheet and/or pump curves.	SPARE TIRE Frame Mount WithTire Upgrade Options: Include, exterior work lights, interior LED lights, battery charger, cold climate package, remote monitoring, and hose with fittings (Camlock or Bauer).

Fax, e-mail or mail form directly to:

Vaughan Company, Inc. 364 Monte Elma Road Montesano, WA 98563

Phone: 360-249-4042; Fax: 360-249-6155 e-mail: info@chopperpumps.com

TOTAL HEAD CALCULATIONS PORTABLE



TOTAL HEAD:

- TDH = Pipeline Friction + Vertical Lift (H) + Velocity Head (V²/2g)
 - 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.
 - The pump shutoff head must be higher than H4 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/sec²)

NOTE:

For specific pump characteristics, refer to applicable Vaughan specification sheets, performance curves and drawings.

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.

V802 Rev. 3 6/8/2023