

# Vertical Turbine Pump

## State-of-the-Art Submerged Motor Pump



VTK-240

### Specifications

|                    |       |                              |
|--------------------|-------|------------------------------|
| Flow Range         | gpm   | 1,000 – 2,500                |
|                    | lpm   | 3,785 – 9,462                |
| NPSHR              | feet  | 2 – 5 (162 – 2,800 gpm)      |
|                    | meter | 0.6 – 1.5 (613 – 10,598 lpm) |
| Differential Head  | feet  | 46 – 1,937                   |
|                    | meter | 14 – 590                     |
| Pump Design Rating | hp    | 167.5 – 335                  |
|                    | kw    | 125 – 250                    |
| RPM Range          | rpm   | 2,000 – 4,200                |

Consult ACD engineering for actual performance ratings.

### Features & Benefits

- Highly efficient, over 70% – lower operating costs and heat input into the fluid
- Modular design, 60 PSI/stage
- Active thrust balancing system for extended bearing life
- High efficiency hydraulics with extremely low NPSHR inducer
- Light weight and compact
- Available in sump and in-tank designs
- Special design VFD drive provides operation point control over the entire pump operating range
- Features a quick electrical disconnect for ease of maintenance
- Permanent magnet motor
- All parts from wrought aluminum precision machined
- Vacuum jacketed sump
- Heavy duty ceramic bearings

### Applications

- Bunkering – barge-to-ship
- Low pressure marine fuel systems
- Send-out pump
- Liquid storage transfer
- Bunkering operations – ship-to-ship
- Pipeline feed
- FSRU loading/off-loading
- Railcar tender car loading and unloading

### Liquids Pumped

- Nitrogen
- Argon
- Ethylene
- Ethane
- Methane (LNG)
- Propane

### Complete Pumping System

- High-efficiency submerged pump
- Removeable in-tank with foot valve
- Custom made VFD drive – factory string tested
- Dual electrical feed thru hermetically sealed up to 500A

### Optional Accessories

- Differential pressure gauge
- Loss of prime detector (cavitation protection)
- Safety relief valve
- Dual conduit box per NFPA standards for LNG services
- Complete removal systems
- Long term storage container