

# LIQUID LINE



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## Liquid Handling Equipment Hosts the Ninth Annual John Connor Charity Golf Classic

On September 10, 2020, Liquid Handling Equipment was honored to host the Ninth Annual John Connor Charity Golf Classic. Following precedent, all proceeds will be donated to the Connor Charitable Foundation. The charity proudly gives 100% of yearly donations to deserving area students to aid in the continuation of their educational pursuits.

**Question:** How to hold a golf tournament during a pandemic?  
**Answer:** Very carefully!

Because of the enthusiastic support and help of so many good people, Liquid Handling Equipment was able to prepare for the tournament, as well as meet all Covid-19 precautions. Our appreciation goes out to the brilliant help that made the tournament possible, particularly during such a challenging time.



Twenty-two teams participated in this year's event, resulting in a sizable contribution to the charity. Feeling fortunate and very happy to be together, everyone enjoyed the day, the sport, and each other.

Thank you to the sponsors, participants, and individuals who volunteered this year to make the event such a success. We invite you to be a part of next year's tournament that will mark the 10th anniversary of the Connor Charitable Foundation.



**Please email a request to be included on the invitation list:  
 lhe@liquidhandlingequip.com  
 We look forward to seeing you at next year's tournament!**

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## Farewell to Nancy Abernathy

The Liquid Handling Equipment family is sad to say good-bye to Nancy Abernathy as she leaves the company to enjoy a well-deserved retirement. In her 28 1/2 years here, Nancy has held a variety of positions that included administration, accounts receivable, invoicing, and tax reports. She excelled in each and every role.

Nancy was hired on April 1, 1992, shortly after the company opened its doors. As an integral member of the Liquid Handling family, she has been loyal, hard working, and steadfast. Needless to say, Nancy will be missed!

Excited about retirement, Nancy is looking forward to spending more time with her family, as well as becoming more active in her church. She has exciting plans to travel and participate as a community volunteer when she's home.

Good-bye and good luck Nancy. Cheers to a job well done!



**Nancy Abernathy**



### Technical Spotlight on: **The Interconnectivity of Pump Containment, Insulation, and Heating**

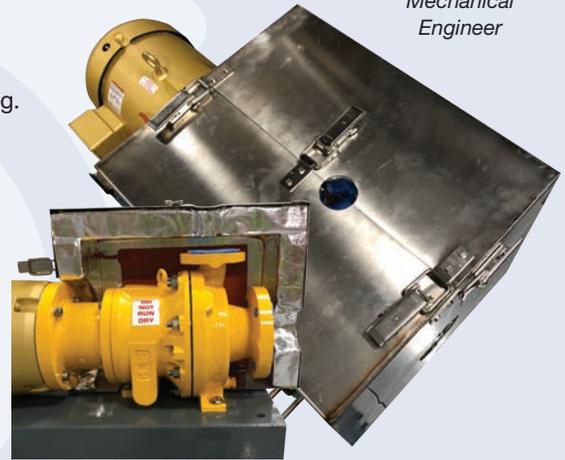
By John Hickner



**John Hickner**  
Mechanical  
Engineer

After selecting a pump for a specific application, it is wise to consider extra protection from the environment in which the pump will operate. On the other hand, it is often necessary to protect the environment from the liquid the pump is processing. Both of these scenarios require some kind of enclosure in which to place the pump in order to either insulate it from the elements or to contain the process fluid if the pump catastrophically fails.

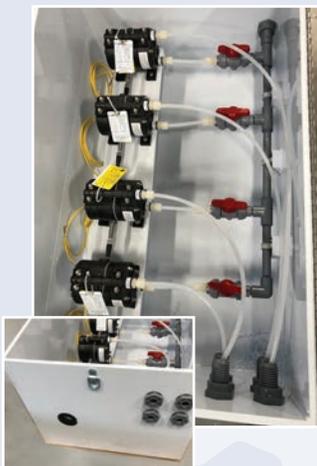
Over the past couple of years, Liquid Handling Equipment has designed and fabricated many different kinds of enclosures to accommodate customers' pumping needs, ranging from insulating pumps to heating pumps to containing pumps. Our specially engineered enclosures have been designed and fabricated primarily for the superior HMD Kontro pumps.



**120 VAC Heated SS Enclosure**

HMD Kontro pumps are sealless magnetic-drive pumps that are easier to maintain with fewer working parts and no potential leak paths. Often the fluids being pumped need to be maintained at higher temperatures to keep viscosity low. A pump jacket is the most frequent solution to keep the fluid warm. Jackets usually use steam or oil to achieve temperature control, but customers asked if an electrical solution were possible to accommodate available assets.

Liquid Handling Equipment can fabricate both 120VAC and 240VAC electrically-heated enclosures meant to keep process fluids at their required temperatures. These enclosures are made out of weather-resistant 316SS. The enclosures can also be equipped with RTDs and controllers, if the customer does not have a system in which to integrate the enclosures.



**Flame Retardant  
Containment Enclosure**

The second type of enclosure Liquid Handling offers prevents the process fluid from entering the surrounding environment. Either type of containment enclosure is designed and fabricated to prevent harmful process fluids from entering surrounding environments.

The containment enclosures are usually made out of polypropylene or other chemical-resistant plastics. They are commonly used with Yamada air-operated double diaphragm pumps. The enclosures can be fully piped to allow for simple system integration.

Sometimes the best pump for a particular application requires extra components to make the whole system safer, more durable, and longer lasting.

**Contact Liquid Handling Equipment to determine the best containment solution for your fluid process application.**



## Spotlight on: Bendel Tank and Heat Exchanger Merger Expands Capabilities

Liquid Handling Equipment, Inc. has been proud to represent Bendel Tank and Heat Exchanger for the last 32 years. Bendel specializes in the design and shop fabrication of pressure vessels, reactors, heat exchangers, and storage vessels for many different end users. Originally organized in 1959 to manufacture storage tanks and mobile truck tanks for the petroleum industry, Bendel has continually updated, modernized, and expanded to become one of the largest custom fabricators of ASME, API, TEMA, and UL vessels in the Eastern United States.

In March 2020, **TransTech Energy** acquired Bendel Tank and Heat Exchanger. TransTech Energy is a leading provider of custom engineered and fabricated solutions for liquids processing, storage, and handling across a broad range of industries including Chemical, Oil & Gas, Petrochemical, Pharmaceutical, Food & Beverage, Textile, Paint, Water/Wastewater Treatment, and others.

In the seven months since the merger, TransTech has been making investments that are increasing Bendel's capacities and capabilities. These new capabilities will allow the expanded company to work with new and existing customers once unreachable, but now possible because of its enhanced capabilities. Some of which are:

- Increased plant capacity to allow for fabrication of larger vessels and heat exchangers; TransTech has fabrication facilities in Rocky Mount, NC, and McGregor, TX
- Investments in enhanced vessel finishing capabilities, providing the opportunity to quote a wider range of vessel finishing options
- Turnkey logistics, onsite tank and vessel installation, onsite vessel repairs, and tank and vessel decommissioning
- Pre-fabrication or onsite fabrication of process piping
- Process skid packaging and fabrication

Bendel is excited about the new opportunities the merger affords. It has built a reputation for fabricating a quality vessel over the years and its merger with TransTech Energy will open many new doors to and for customers.

***Please contact your local area Liquid Handling Equipment salesman to discuss how we can help with your process vessel needs.***

Website: [www.bendelcorp.com](http://www.bendelcorp.com)



API Tanks





### A Liquid Handling Equipment Success Story

by Brandon Barber



**Brandon Barber**  
Outside Sales

A company in the Northern GA region that uses several different adhesives and silicone-based products for the flooring industry contacted Liquid Handling Equipment about problematic diaphragm pumps currently in, and unfortunately at times, out of service. Even though the company utilizes different manufacturers in several of its applications, it continually experienced the same stalled and/or complete diaphragm failures. As a master distributor of Yamada Pumps, Liquid Handling was confident that it could not only rectify the plant's current issues but in fact provide a much more efficient operation via Yamada pumps.

After thoroughly learning about the plant's manufacturing process and gathering detailed information about each product in use, Liquid Handling suggested a slightly more robust Yamada diaphragm pump constructed from different materials to eliminate diaphragm failures. The customer was interested in testing different pump sizes for its most challenging applications. A trial ensued. After 30 days in service, there were no issues with a pump stalling or a single diaphragm failure.

As we began to replace the plant's problem diaphragm pumps with Yamada's, another issue was raised. Large progressive cavity pumps were used to move a thick silicone-based product from batching areas to production. The plant was interested in a possible alternative due to high operating costs, replacement part pricing, and downtime during cleaning or failure. After working closely with Yamada's technical team, Liquid Handling recommended an NDP-80BAS pump, which is a three-inch aluminum center-body pump with santoprene diaphragms.

With the robust diaphragm coupled with Yamada's superior design, the plant discovered it could run its batching processes as efficiently as before. It was a win/win because not only did the customer save money on pump pricing and parts, it also saved on downtime and labor to service and clean.

Concerned about its general knowledge of the Yamada pumps and how to properly service them, the plant was reassured with the promise of a lunch and technical session hosted by Liquid Handling Equipment. The lunch was a hit and with all applicable employees present, a pump was disassembled. Step by step, troubleshooting areas and what to be aware of were shared. As the pump was properly reassembled, parts and common pitfalls were addressed. The maintenance staff benefited from the educational session because now they are familiar with the Yamada Diaphragm pump's parts and how to successfully service their new pumps.

**Contact Liquid Handling Equipment to discover the quality and superiority of Yamada Pumps, as well as to benefit from comprehensive tutorials as to how to care for and address rare but possible problems with the pumps.**



### Meeting Your Process Needs

Liquid Handling Equipment carries a full line of products to meet all of your process needs.

#### Tanks & Heat Exchangers

Allen Industries, LLC  
Bendel Tank & Heat Exchanger  
Modern Welding  
Poly Processing Company  
Sharpsville Container

#### Pumps

Crane Pumps - Barnes / Burks / Crown / Deming / Weinman  
DESMI / Rotan  
Ebara  
Flux Pumps  
HMD Kontro / Sundyne  
Iwaki-America  
LC Thomsen  
Price  
Roper  
Walchem  
Watson-Marlow / MasoSine Pump  
Watson-Marlow Sanitary Process Pumps  
Yamada America  
Zoeller Pump Company

#### Agitators

MixMor Corporation

#### Filtration

Eaton / Hayward MFG  
Harmsco  
Pentair  
Strainrite

#### Flow & Liquid Level Management

FLOWLINE  
ICON Process Controls, Ltd.  
Red Seal Measurement

#### Accessory Equipment

Blacoh Fluid Products  
Dixon  
Garlock Sealing Technologies  
Novaflex  
OPW / Civacon Corp.