PRODUCTS AND SERVICES GUIDE



Now's the time. Don't put off until tomorrow what you can <u>buy direct today.</u>





Programmable Controllers



Motors and Motor Controls



Product Engineering Building



Motion Control



Software

Power Transmission



Operator Interface

Pneumatics





Process



Terminal Blocks & Wire

Safety

For over 20 years we've been saving our customers time and money on industrial automation products including PLCs and HMIs, pneumatics, sensors and even wire. We have a huge inventory that is constantly growing in order to provide you with the quality components you need to keep your projects moving. We have also invested heavily in new infrastructure that will allow us to continue offering the service and support you deserve. So don't put that project off any longer... buy direct today and save with AutomationDirect!



AutomationDirect.com HQ campus located just north of Atlanta GA, USA

Order Today, Ships Fast!



AUTOMATIONDIRECT 1-800-633-0405 the #1 value in automation

Most PLCs will do, but only some will Domore?

Modbus® EtherNet/IP ASCII





Starting at \$197.00 (BX-DM1-10AR-D) with FREE Software

The Do-more! BRX PLC series is loaded with hardware and software features that provide an extensive toolbox to satisfy even the most demanding projects.

- Four form factors to choose from
- Serial/Ethernet comm ports included on most models (with support for Modbus RTU/TCP, ASCII, EtherNet/IP, and MQTT)
- Hot-swappable communications port (optional)
- Built-in discrete, analog and high-speed I/O
- Advanced motion control including coordinated motion
- Internal RAM and microSD data logging
- Free PLC programming software with over 200 easy-to-use instructions, integrated video help and a convenient project simulator





AUTOMATIONDIRECT 1-800-633-0405 the #1 value in automation

CUSTOMER REVIEWS:

"When performance and capability are mapped against price, there is no better PLC on the market than the BRX. It can do everything. The BRX is lightening fast, is easy to program, has an extensive library of instructions, and can hold an enormous program. More and more of my clients are turning to the BRX as their PLC of choice..." Scott in Huntsville, AL

"The DoMore series of PLCs is the world's best. I would do nothing but DoMore-based projects if I had the choice. Watch out A-B! DoMore is going to show you how PLCs are done!"

Glenn in SEMINOLE, FL

Environment One Corporation

E/ONE BACKGROUND

For more than fifty years, Environment One Corporation has manufactured 1 horsepower SPD grinder pumps designed specifically for use in pressure sewer systems. From the 200 Series in the 1970s to the 2000 Series in the 1990s to today's Extreme model, almost two million end users in over forty countries rely on E/One grinder pumps daily.

SPD GRINDER PUMP FOR WASTEWATER APPLICATIONS

In a low-pressure sewer system, constant, predictable pump output is the foundation for proper hydraulic design. It enables the engineer to minimize retention time, pump wear, and keep scouring action at effective levels.

The system pressures to be overcome by any given grinder pump in a low-pressure sewer system vary dramatically over the course of a day. E/One's progressing cavity pump readily accommodates these pressure variations while maintaining a nearly constant flow without ever operating at "near shut off"—thus avoiding the wear and motor burnout suffered by other pump types.

E/One's SPD pump has a nearly vertical H-Q curve. It is by far the most "forgiving" pump design—providing predictable flow over the full range of typical system pressures; strengths critical in large-scale, low pressure sewer systems.

E/One's superior high head capability allows a system to have few, if any, lift stations. And, it easily accommodates additional future connections without compromising system performance. E/One grinder pumps offer reliable operation from negative heads to 185 feet of total head.

SEWER ANYWHERE, IN ANY TERRAIN

Pressure sewer systems are costeffective and can be installed in any terrain-flat, wet, rocky, even on sites with dramatic elevation changes. They are much more affordable than conventional gravity sewers, which require major excavation, and much safer for communities than septic systems, which can eventually fail, polluting ground and recreational water and endangering public health. Pressure sewer systems can cost as much as 80 percent less to install vs gravity sewers and reduce the number of lift stations required—or even eliminate lift stations altogether.

SEPTIC TO SEWER CONVERSION PROJECTS

E/One sewer systems have been chosen for septic-to-sewer conversion projects both in the United States and abroad, especially in coastal areas where the soil is not conducive to septic tank usage and as sea levels rise. At Rincon Point in California, failing septic tanks at oceanfront homes polluted the ocean. Surfers were getting sick and avoided the water after rainstorms. One resident could see the tide rise and fall inside his septic tank. Septic tanks were replaced with the E/One sewer system, resulting in a cleaner ocean.

PRESSURE SEWER SYSTEM UPGRADES

E/One offers its grinder pump as a replacement for existing pressure sewer systems. E/One grinder pumps use integrated pressure switches instead of floats, which are less susceptible to grease buildup and eliminate nuisance alarms that result from stuck floats. The Upgrade is a onepiece pump that installs quickly and easily into the existing tank.

Environment One's Upgrade, the aftermarket grinder pump that works and goes on working without any preventive maintenance. It's the original grinder pump design, the one others have tried to copy but they just haven't gotten it right. Maybe that's why E/One's Upgrade has been the pump of choice for many pressure sewer upgrade projects in the mountains of Tennessee, the lakes of the Midwest, and many coastal communities.

E ONE SEWER SYSTEMS



THE E/ONE EXTREME SERIES GRINDER PUMP FOR PRESSURE SEWER SYSTEMS

The Best Performing Pump in the Industry

Featuring the longest average mean time between service calls with zero preventive maintenance and up to 185 feet TDH.

E/One can help you with design assistance and the strongest factory support in the category. Get our free design software or send us your topo map for analysis.

LEADING THE INDUSTRY WE INVENTED.

Environment One not only pioneered the grinder pump category, but consistently leads the industry both in system deployment and innovation. E/One remains dedicated to Total Quality, Continuous Improvement, and Extreme Customer Satisfaction.



E.S.

Environment One Corporation www.eone.com/sewers

Gorman-Rupp Pumps

For more than eighty-five years, Gorman-Rupp has manufactured the high performance, high quality pumps and pumping systems required for lasting service in the municipal, water, wastewater, sewage, industrial, construction, petroleum, and OEM markets. Our extensive line of pump products include self-priming centrifugal pumps, standard centrifugal pumps, submersible pumps, trash pumps, priming-assisted pumps, and rotary gear pumps. Gorman-Rupp also manufactures a complete line of stateof-the-art packaged lift stations and booster stations that include pumps, motors, controls, piping, accessories, and enclosures.

Through the years, our continued growth has focused on superior pump design, engineering, and customer service. As a result, Gorman-Rupp has become a company known for market innovations and improvements that continue to set standards for the pump industry.

Gorman-Rupp operates two manufacturing plants, producing a full line of pumps and sewage pumping stations with custom-made fiberglass enclosures and electrical control panels.

Gorman-Rupp has over 1,000 distributors throughout the United States and the world that are qualified to give expert advice on pump selection and applications. If you have a service problem, a factory-trained distributor is only a phone call away. Our distributors are backed by the fastest parts service in the industry. Gorman-Rupp stocks more than 60,000 pumps and parts and ships 99 percent of them within twenty-four hours so your parts will be there when you need them.

GORMAN-RUPP PUMPS

The fump feoples

CONSTRUCTION MARKET

Gorman-Rupp is the leading manufacturer of pumps for the construction market. Offering nearly 3,000 models, we have one of the largest selections of fluid-handling products in the world. We have built our reputation on the workhorses of the construction pump market: self-priming centrifugal trash pumps. These dependable, versatile performers help contractors move large volumes of water quickly. We also manufacture an extensive line of submersible, diaphragm, and primingassisted pumps that offer maximum reliability and service life.

INDUSTRIAL MARKET

You will find Gorman-Rupp pumps operating in the most hostile industrial environments—down in the subbasements; in the waste sumps; in the heat, steam, grease, and grime; handling the corrosive and abrasive industrial wastes other pumps cannot. Performing reliably month after month, year after year, in all types of waste control systems, pumping solids and debris that would shut other pumps down, Gorman-Rupp industrial pumps are designed for the people who service them.

MUNICIPAL MARKET

Gorman-Rupp sets the industry standard for sewage pumping systems including pumps, motors, and controls (complete sewage lift stations). Our solids handling self-priming and submersible sewage pumps offer maximum dependability and ease of service. Our commitment to "total system responsibility" means you only have to make one call should you encounter a problem with your system, from pumps and controls to the lights and fans in our enclosure. We simply offer the best sewage pumps and pumping systems in the industry. ◆



SILENT PUMP. SIZED FOR PERFORMANCE.

Gorman-Rupp Prime Aire® sound-attenuated pumps are engineered to operate much quieter than industry standards. And, they are now available in sizes up to 14" with flows up to 10,000 GPM to handle your toughest bypass and dewatering applications. Features include spill containment environmental base, corrosion-resistant, acoustically treated enclosure and the latest in Tier IV engine-driven technology.

Call Gorman-Rupp at 419-755-1011 or visit GRpumps.com to find a distributor near you.



JWC Environmental

[WC Environmental, a Sulzer Brand, is a world leader in solids reduction and removal systems for municipal and industrial applications. The latest innovation to the JWC line-up is its Wipes Ready® technology. Municipal waste streams are being plagued by the recent shortage of toilet paper, which has led many people to use alternates such as baby wipes and wet wipes that ball together and shut down waste conveyance systems. The Wipes Ready technologies are designed to shred disposable wipes and rags into small pieces that are unable to reweave into ragballs. Conventional grinders shred wipes into long strips that may reweave into ropes and form ragballs, clogging pumps and other systems. The Wipes Ready technologies feature enhancements to the proven Muffin Monster[®] and Channel Monster[®] grinders-equipping them to better protect pumps and prevent unplanned maintenance and damage.

JWC's Muffin Monster grinders are designed to quickly cut problem solids down to size, preventing costly pump problems and sewer backups. They utilize two rows of sharp steel cutters that rotate slowly toward each other to actively pull materials into the grinder while using high torgue to breakdown the troublesome solids. Muffin Monster grinders have proven to be effective in dealing with the wide variety of solids that can be found in waste streams, including wood, plastics and other inorganic materials. The units are available with a variety of cutter configurations, and the design quickly adapts to existing pipeline and in-channel installations with little modification.

The expert JWC Service Solutions team is responsible for keeping JWC Environmental equipment running



at peak performance. This team of professionals is specially trained to help customers get the most out of their equipment and extend the life of their investments. JWC Service Solutions tackles system startups, upgrading equipment to the latest technology, on-site screen rebuilds, and simple replacement parts.

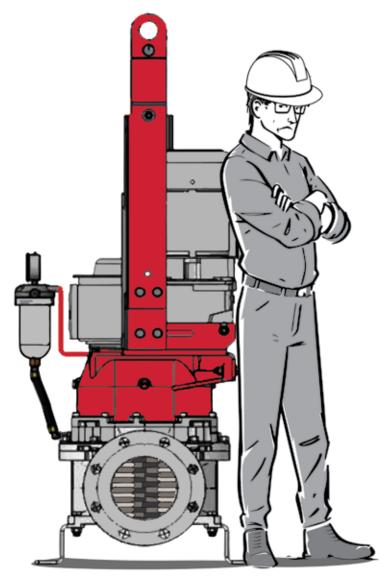
JWC solutions include its legendary Muffin Monster and Channel Monster sewage grinders, engineered systems such as its Auger Monster[®] and Honey Monster[®], its Monster Separation System[®] incorporating one of its course screens or fine screens with the superior screenings conditioning of the Monster Wash Press, and IPEC industrial screens to solve unique wastewater processing situations. JWC partners with its customers to help them run efficient and compliant wastewater treatment operations as well as solve challenging sizereduction problems.

JWC Environmental is headquartered in Santa Ana, California. The company is supported by a worldwide network of representatives, distributors and regional service centers to meet local customer needs.

More information on JWC Environmental is available at **www.jwce.com.**

JWC ENVIRONMENTAL 833.240.0117 • www.jwce.com

When **THEY** break your heart...



We're ready to grind!

Contact us today to see how our grinders drive Precision. Performance. Protection.

Protect your pumps
 Avoid costly repairs



Prevent dirty clean ups
Proven reliability



www.jwce.com/mpt | 833.240.0117 Protecting pumps and system components from clogs and damage for over 45 years.

Vaughan Company

Celebrating sixty years as your source for reliable chopper pumps and systems



OUR COMMITMENT TO YOU-RELIABILITY

As a pump user, you count on your equipment performing well every day. Who wants to worry about pump operations, especially when the pump is submerged in a greasy sump or stinky manure pit, or is otherwise difficult to reach?

Whether you operate a treatment plant that needs a cost-effective means of mechanical hydraulic mixing of sludge tanks, or you're a dairy farmer or corrections facility manager who needs to avoid clogged pumps to keep the wastewater flowing, Vaughan has you covered.

WE CHOP—AND MIX—IT ALL

We could simply tell you, "trust us, our pumps can chop and mix—it all," but here's a real-world story that shows how our pumps can handle the most demanding challenges.

The three standard pumps in the main lift station serving the wastewater treatment plant in Morgan's Point, Texas, often became clogged with shop rags, lumber, plastic bottles, gloves, and wet wipes when rainfall exceeded two inches. The city spent about \$100,000 to maintain and service those pumps over seven years. After the city installed a Vaughan Company SE-Series Submersible Chopper Pump in July 2016, they have experienced over 100 inches of rainfall with no plugging incidents or other issues. And, during 2017 Hurricane Harvey, the Vaughan pumps ran continuously for seventy-two hours with no plugging incidents and no problems while pumping more than 2.5 million gallons of unscreened sewage through the lift station.

"I just wish we had purchased these pumps years ago to eliminate the maintenance headaches we endured, and the costs we incurred keeping our previous pumps in operation," says Brian Schneider, city administrator for Morgan's Point.

WHY YOU SHOULD CARE THAT WE'RE FAMILY OWNED AND MADE IN THE USA

Adding to exceptional pump reliability and performance, with Vaughan Company you get the advantages of buying from a family-owned, made-in-the-USA company. We source nearly all of our materials in the United States and manufacture 100 percent of our pumps here. We support American jobs and American companies, and by sourcing U.S. materials and making our pumps here, we reduce the costs incurred from international suppliers.



SIXTY YEARS OF BENEFITING CUSTOMERS

In 1960, company founder Jim Vaughan invented the world's first chopper pump to solve the problem of clogged manure pumps for local farmers in Washington. sixty years later, Vaughan Company is still making the world's most reliable chopper pumps and pump systems—and providing unique solutions for farmers, treatment plant operators, and other pumping professionals.

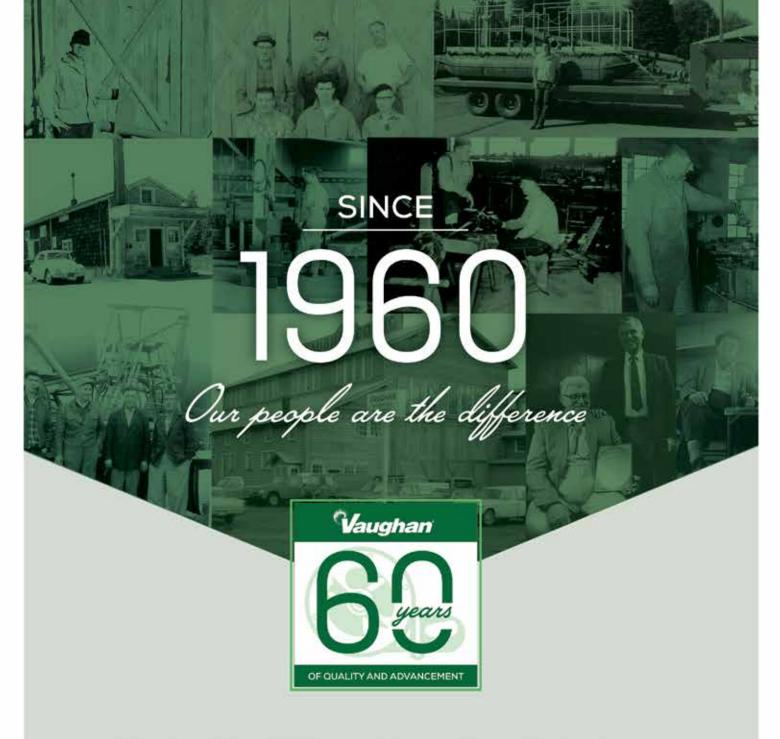
Today, we continue to live Jim's philosophy of "what could make this better?" From in-house 3D computer modeling to Computational Fluid Dynamics (CFD) analysis, Vaughan Company remains committed to giving our customers outstanding service and the most dependable product solutions in the world.

Further, all of us at the Vaughan Company understand the importance of exceptional customer service; take time to understand your needs; and work closely with you to tailor pump solutions that solve your unique challenges.

Contact us to learn how Vaughan Company can help you ensure reliable operations.

VAUGHAN COMPANY

888.249.CHOP (2467) • info@chopperpumps.com • www.chopperpumps.com



"WHAT COULD MAKE THIS BETTER?" WAS THE UNWAVERING MOTIVATION JIM VAUGHAN USED TO INVENT THE WORLD'S FIRST CHOPPER PUMP. NOW 60 YEARS LATER, THIS SPIRIT OF INNOVATION CONTINUES TO INSPIRE THE PEOPLE OF VAUGHAN, AS WE EXPERTLY CRAFT OUR INDUSTRY-LEADING PRODUCTS AND THOROUGHLY SUPPORT OUR VALUED CUSTOMERS.

LEARN MORE ABOUT THE VALUE OF VAUGHAN AT CHOPPERPUMPS.COM



Yaskawa The Yaskawa Quality Experience



YASKAWA

U1000 INDUSTRIAL MATRIX DRIVE

Increase efficiency in your industrial pumping applications with Yaskawa's U1000 Industrial Matrix Drive, the product that goes beyond conventional drives, providing outstanding harmonic performance and regeneration in a single standalone compact drive solution.

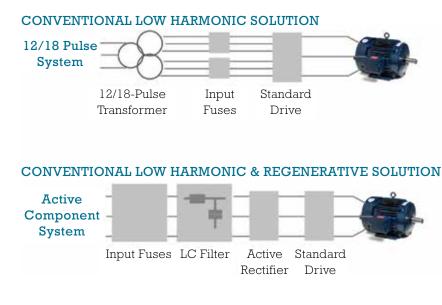
Enjoy low harmonic distortion and regeneration in a space-saving design, completely without the need for additional components.

Unlike conventional drives, Yaskawa's Matrix technology creates a variable output by switching directly from the input power (AC to AC), eliminating the DC bus. Additionally, the Matrix drive is a member of the Yaskawa industrial drive family, and provides the same user experience. Yaskawa is the leading global manufacturer of low and medium voltage inverter drives, servo systems, machine controllers, and industrial robots. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.

We're the only industrial drives manufacturer to win the Deming prize—the most prestigious quality award in manufacturing. But we know that tells only part of the quality story. What about innovative design, knowledgeable, responsive engineers who understand your business, and superior support and training? Those crucial assets are a vital part of how a company is ultimately judged and what we mean by the Yaskawa Quality Experience.

At Yaskawa, Quality is more than numbers, more than awards—it's the total experience of purchasing and owning Yaskawa products and working with Yaskawa people. ◆







- Fewer Components
- Less Space
- Faster Setup
- Higher Efficency

Prime Mover The U1000 Industrial Matrix Drive

Yaskawa U1000 Industrial Matrix Drives are a proven and reliable pumpjack motor control solution. Whether on grid or generator power, the U1000 keeps your prime mover pumping even in pump-off conditions with its inherent regenerative capability.

Make the complex simple. Our U1000 Industrial Matrix Drives are the smallest, fastest to commission, low harmonic, regenerative drives on the market.

Want reduced energy costs and lower harmonics?

Call Yaskawa at 1-800-YASKAWA today.







https://www.yaskawa.com/u1000 Yaskawa America, Inc. Drives & Motion Division

1-800-YASKAWA yaskawa.com



YASKAWA

Blacoh Fluid Control

BLACOH CHATTERLESS VALVES

Blacoh's team of engineers have recently released the SENTINEL™ line of chatterless back pressure and pressure relief valves designed to eliminate valve chatter. These valves are CNC precision machined in sizes up to 2 inches (50 millimeters) and can withstand operating pressure up to 350 psi (24.1 bar).

Back Pressure Valves enhance the performance of pumping systems by applying a continuous back pressure to the system pump, while also acting as an anti-syphon valve.

Pressure Relief Valves protect pumping systems from over pressure damage caused by defective equipment or blockage in the pump system line.

Offered in a full range of options, Blacoh's chatterless valves are in a league of their own. The union-style



www.blacoh.com/valves.

TIRED of hearing the RATTLE & HUM of your OLD VALVES?

Blacoh's New Chatterless Valves

construction and threaded ring design provide superior

sealing for maximum fluid containment. A variety of

chemical resistance requirements. Find out more at

plastic and metal materials are available to meet your

- Back Pressure & Pressure Relief Valves
- Design Eliminates Valve Chatter
- Protects Your Fluid System
- Up to 350 psi (24.1 bar)
- Sizes up to 2" (50mm)
- CNC Machined

For more information go to Blacoh.com/Valves 800.603.7867 951.342.3100 Sales@Blacoh.com

MADE IN USA

Check-All Valve Mfg. Co.

Since 1958, Check-All Valve Mfg. Co. has manufactured a complete line of in-line spring-loaded pistontype check valves. With worldwide service, Check-All Valve serves a wide range of industries including the chemical, petrochemical, pharmaceutical, food and beverage, water treatment, OEM, MRO, and many others. Lightweight, efficient, and rugged, every Check-All valve is designed and built to perform to exact needs and specifications. The company is ISO 9001-2008 certified and manufactures product lines compliant with CE/PED requirements, Canadian Registration Number guidelines, 3A Sanitary Standards, and others.

Check-All valves are engineered for silent operation. They close quickly and smoothly to eliminate hammer noise. They are designed to function equally well in either a vertical or horizontal position, with proper spring selection. They are also designed to reduce installation costs. The insert series check valves easily fit into existing line components, which reduces initial cost and installation time. The seating surfaces are parallel to each other thereby eliminating the excessive wear occurring in plug, cone and ball seats. Check-All valves can also be used as low-pressure relief valves and vacuum breakers.

With many styles available, Check-All Valve provides check valves for practically every service application. Valves are offered with metal-tometal or soft seats in sizes ranging from 1/8-inch NPT to 20-inch flange connections. Pressure ratings are available from full vacuum to 10,000 PSI. Standard or exotic materials are available and you can choose from a wide variety of spring settings and seat materials for any valve. Most options are available with fast delivery. Specially designed valves are another option that Check-All Valve performs on a regular basis. Check-All Valve Mfg. Co. is staffed to supply you with a quality product as well as personal technical services. ◆

CHECK-ALL VALVE MFG. CO.

Contact us for a complete catalog or see us at www.checkall.com.

More than a Check valve It's a Check-All®

SILENT OPERATIONI Our check valves close quickly and smoothly to avoid water hammer noise and vibration.

UPSTREAM TRIM!

The upstream trim is protected from corrosive media mixing; thereby, extending valve service life.

> MANY SPRINGS OPTIONSI Multiple spring settings available. Assembled to your exact needs.

Most lead times are less than one week.

call us at 515-224-2301 or email us at sales@checkall.com

Proudly manufactured in the USA

Lovato Electric Where Technology Meets Tradition

For nearly 100 years, Lovato Electric has been designing and manufacturing low voltage electrical devices for industrial applications.

Established in 1922 in Bergamo, Italy, Lovato Electric is a private company, managed by the same family of entrepreneurs for four generations.

Among the first companies in Italy to obtain ISO 9001

certification in 1992, Lovato Electric has a range of over 10,000 products complying with the strictest requirements of international standards including UL and CSA.

Manual motor protectors, contactors, overload relays, electro-mechanical starters, softstarters, variable speed drives, pushbuttons and selector switches, signal towers, limit switches, cam switches, disconnect switches, miniature circuit breakers, time relays, protection relays, level control relays, general purpose relays, micro PLCs, power supplies, battery chargers, metering, automatic power factor controllers, automatic transfer switch controllers, engine and generator controllers, supervision, and energy management software are the types of products and solutions designed and produced by Lovato Electric.

To provide competitive products and services in the industrial automation and energy management fields is our company's mission.

Our thirteen branches abroad and a network of over ninety

importers guarantee the availability of Lovato Electric products in more than 100 countries all over the world.

Lovato Electric, Inc. (USA) is headquartered in Chesapeake, Virginia, and supports the U.S. market through authorized distributor partners.

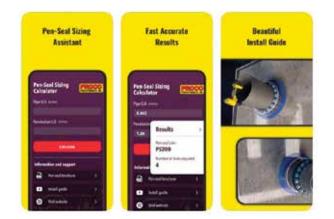
LOVATO ELECTRIC INC. (USA) 757.545.4700 sales@lovatousa.com • www.lovatousa.com





Proco Products, Inc.

Proco Products, Inc. encourages you to download a useful tool to help aid in the proper selection and installation of pipe penetration seals (Pen-Seals) into a piping system. The Proco Pen-Seal Calculator is designed to assist in selecting the correct number of links and the correct size of link for pipe penetrations passing through walls or floors. To achieve a 100 percent water or gas tight seal, enter in the pipe O.D and the penetration I.D. to provide the required size/link combination.



What exactly is a Pen-Seal? Pipe Penetration seals have been designed to assist in achieving an efficient, low-cost mechanical seal when piping passes through walls, floors, tanks, pipeline castings, or vaults. The unique design of the Pen-Seal helps to provide a gas or watertight seal, filling any space around a pipe. The standard elastomer for the Pen-Seal is EPDM and can be used in various applications in power generation, HVAC, water and wastewater, mining, and more.

We encourage you to download this exciting and useful tool today on the appropriate platform for your device.

iOS: itunes.apple.com/us/app/proco-pen-seal-calculator/ id1447513170

Android: play.google.com/store/apps/details?id=com. procoproducts.pensealcalculator Installation Video: youtu.be/lUuvkLTRRFo

Within the Pen-Seal Calculator, you can also access the company website, view the Pen-Seal brochure PDF, contact a Proco representative, and view an installation video. This video gives you a step-by-step visual of how to properly install a Pen-Seal from Proco.



Scalewatcher

Developed and patented in the Netherlands by Mr. Jan P. de Baat Doelman, Scalewatcher technology was introduced to the European market in the 1980s. With immediate market success, Mr. Doelman brought the technology to the United States and applied and



eco-friendly hard water conditioning no salt, no chemicals, no maintenance

102

Patented

Easily installed and truly maintenance free

- Removes scale from pipe work
- Removes scale from heat exchangers and steam boilers
- Saves energy by keeping heating elements scale free
- Increases life of capital equipment
- Reduces cleaning costs, chemicals & labor
- Saves 50% on cooling tower make up water
- Saves irrigation water
- Provides short term payback

Applications:

Residential • Commercial • Industrial

Dealer territories available. Scalewatcher North America Inc., Oxford PA Call Toll Free (800) 504-8577 or by email: sales@scalewatcher.com

www.scalewatcher.com

received a patent in 1991. From that moment on, Scalewatcher North America has been on the forefront of environmentally-sensitive water treatment. Located in Oxford, Pennsylvania, Scalewatcher North America continues to lead the industry in descaling products that do no harm to the environment.

Scalewatcher North America focuses on the elimination of scale and the problems associated with scale build up. Industries know the costs involved in keeping their capital investments running smooth. Scalewatcher is there to help. Scaled cooling towers, chillers, and associated equipment can negatively impact a company's bottom line, and not just in cash. The caustic chemicals used to remove scale only create more problems with the environment. Your company can "GO GREEN" and stay within your budget.

If our product does not work for your application, we will buy it back! With our "Performance Guarantee," you never have to worry about losing cash on a product that does not work.

Scalewatcher North America Inc. manufactures its products in Oxford, Pennsylvania, so you know they're MADE IN THE USA! We can treat pipe sizes from ½ inch up to and including 120 inches. Cooling towers, chillers, evaporative condensers, and boilers can all benefit from Scalewatcher water treatment. If it scales up, we can break that scale bond and show you cost savings on maintenance. No plumbing required!

Why keep adding chemicals when Scalewatcher can reduce your chemical dependency?

Break the cycle now and save on energy, water, and maintenance costs with Scalewatcher products!

For more information, call 800.504.8577 and visit www.scalewatcher.com.

Continental Pump Co.

We are a family-owned progressive cavity pump company that has been in business since 1946, George Heath Jr. is the second generation owner. Our 22,000 square foot facility is located in the Midwest, sixty miles west of Saint Louis, Missouri. We house over two million dollars in inventory for quick order processing and shipping.

Our pumps, drive units, and replacement parts are compatible with numerous progressive cavity pump brands. Our sales staff is knowledgeable and offers great customer service and support. Our loyalty to our distributors is unmatched, and we stand behind our products.

You can contact us or visit our website for product information and locate a local distributor. \blacklozenge

CONTINENTAL PUMP CO.

636.456.6006 www.continentalultrapumps.com



Ebac Industrial Products

Ebac, located in Newport News, Virginia, was opened in 1978 to serve and support the North and South America markets. With over forty product lines and a new location in Riverside, California, Ebac specializes in providing pre-engineered dehumidification solutions for military, industrial, commercial, and residential applications, such as:

- Cleaning and Restoration: A wide variety of portable dehumidifiers used to dry rooms and materials after water damage has occurred.
- **Rental:** Rugged portable and semi-permanent dehumidifiers made available to the public through national tool rental companies.
- **HVAC:** Moisture removal and air quality solutions including residential, pool, industrial processes, archival storage, commercial, and municipal applications.

Ebac strives to provide the highest quality product, service, and application engineering support to each one of its diversified market segments. An active, ongoing research, and development program ensures that Ebac clients are supplied with the latest and most cost effective moisture removal solutions. \blacklozenge



Graphite Metallizing Corporation

GRAPHALLOY[®] case rings and bushings allow pumps to survive repeated "run-dry" conditions, slow roll operation, and frequent stop/starts—conditions where metal and plastics fail.

GRAPHALLOY can improve the reliability and efficiency of your pumps. In horizontal and vertical pumps, GRAPHALLOY will not seize or gall if run dry or with marginal lubrication. The GRAPHALLOY fitted pump is able to survive upsets, dry running, loss of suction, slow roll on standby, and other transient conditions that would damage a conventionally fitted pump.

GRAPHALLOY can be the solution to the toughest bearing, bushing, thrust washer, cam follower, or pillow block bearing design problem. It is available in over 100 grades with specific properties that meet a wide range of engineering solutions and specifications. FDA acceptable grades of GRAPHALLOY are available for food contact equipment. NSF[®] International has certified two grades of GRAPHALLOY material for use in municipal well pumps and water treatment plant applications. ◆

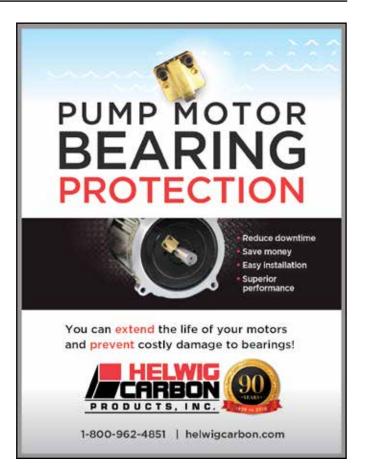
Visit us at **www.graphalloy.com** or call 914.968.8400.



Helwig Carbon Products

One of the fastest growing areas in the pumping industry is bearing protection. When VFD drives control pump motors, you get significant energy savings and longer pump life. The downside is the induced shaft currents that are created in the pump motor will discharge through the motor bearings and cause frosting, fluting, noise, and eventual failure. This downtime can be costly. These induced currents can be mitigated by installing a Bearing Protection Kit (BPK) with a silver graphite brush on the motor or pump. This engineered solution will provide a path of least resistance for the induced currents and lead them to ground without going through the bearings. You will experience longer pump life, less costly downtime, fewer returns, and satisfied end users with a Helwig Carbon Products BPK.

Helwig Carbon also makes mechanical carbons for pump applications. These components are used for vanes, rotors, seals, bushings, and bearings in a variety of pumps. These precision machined carbon components maintain tight tolerances. Carbon graphite bushings are self-lubricated and can operate at high temperatures. A wide variety of grades and sizes are in stock, plus we can manufacture custom parts quickly. For more information, visit **www.helwigcarbon.com**.

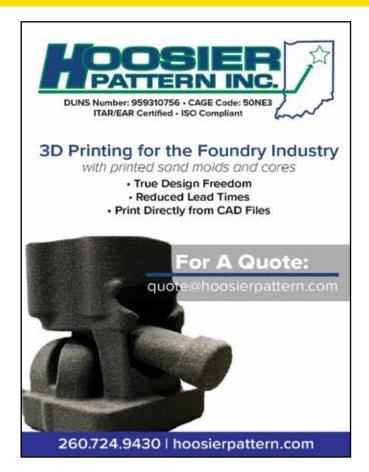


Hoosier Pattern

Hoosier Pattern prides itself on being innovative and consistently raising the bar within the industry while maintaining the level of quality they are known for. Back in 2013, Hoosier was the first top service center to own and operate their own 3D sand printer in the United States. As of January 2020, Hoosier Pattern owns three out of four 3D sand printers under their roof. The fourth machine is owned by a customer and was placed in Hoosier's facility where it is operated and maintained by Hoosier employees.

Customers are the driving force behind everything Hoosier does and this expansion is no different. This will allow Hoosier to take on jobs that once had to be turned away due to capacity restrictions. The current turnaround time for printed sand of ten days will remain standard; however, the possibility to turn printed parts around sooner—if needed—for customers has greatly increased.

On top of the addition of the fourth sand printer in house, Hoosier has recently added a five-axis machining center as well as three Doosan DNM 650s and a robotic milling cell for machining sand to the hard tooling side of the shop. All of these additions allow Hoosier to maintain current customers as well as take on new customers with more complex projects. ◆



InfoSight

In industrial environments, accurately tracking assets means knowing what you have, where it is, and its condition. InfoSight Corporation's metal tags withstand physical challenges including heat, abrasion, and exposure to ultraviolet light and enable error-proof tracking that can be maintained throughout an asset's lifespan.

InfoSight's tags can be used to track a wide variety of assets. One application is for plants that are required to have Leak Detection and Repair Programs. InfoSight's LDAR Tag System gives plants control over each LDAR component's unique ID number and tag supply. Customers order blank tags and print new ones only as needed. Additionally, InfoSight's unique LDAR tag design allows the attached tag to be read from either side.

InfoSight's durable metal tags can be applied directly to the asset or attached using a flexible wire type tie. The software included with InfoSight's laser tag printers allows the user to design tags that include alphanumeric messages, barcodes, and logos. A scan of the barcoded tag can confirm that the operator is checking the correct asset, update service records to show the completed work, or access notes and technical information via a customer's IT system.

InfoSight tags make asset identification and tracking simple. ◆



Available in 8 colors plus white - preprinted to your specifications or blank for printing on-site.

www.infosight.com Chillicothe, OH 45601 740-642-3600 sales@infosight.com