

# FLUID & METERING TECHNOLOGIES, PUMPS

Precision Engineered Pumps that Move, Measure and Manage High Value Liquids.















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# **About IDEX Corporation**

IDEX Corporation (NYSE: IEX) designs and builds engineered products and mission-critical components for various industries.

- ▶ IDEX precision components help craft the microchip powering your electronics, treat water so it is safe to drink, and protect communities and the environment from sewer overflows.
- Our optics enable communications across outer space, and our pumps move challenging fluids that range from hot, to viscous, to caustic.
- IDEX components assist healthcare professionals in saving lives as part of many leading diagnostic machines, including DNA sequencers that help doctors personalize treatment.
- And our fire and rescue tools, including the industry-leading Hurst Jaws of Life®, are trusted by rescue workers around the world.

These are just some of the thousands of products that help IDEX live its purpose – Trusted Solutions, Improving Lives™.

For further information on IDEX Corporation and its business units, visit the company's website at https://www.idexcorp.com/





Global Headquartered Northbrook, Illinois, USA



Commercial Presence
5 Continents



Manufacturing Operations **20+ Countries** 



# **About FMT Pumps**

IDEX Fluid & Metering Technologies (FMT) division specializes in precision engineered pumps, meters and systems that move, measure and manage challenging liquids. Within the pump and flow metering world, our businesses are recognized for their expertise in handling of corrosive, abrasive, viscous, extreme temperature, fine particle, and many other challenging applications. With operations in five continents, our FMT businesses work continuously with customers to develop the right applied solution to meet their specifications, anywhere in the world.

From Oil & Gas, and chemical processing to food, beverage, and fuels, our pumps handle everything from thin to thick, hot to cold, and liquid to semi-solid materials with unmatched reliability.

We are committed to customer-centricity, working closely with you to understand your specific requirements and deliver customized solutions for all your industrial fluid transfer needs.

With our customers at the center, our teams of subject matter experts support industries across India, South East Asia (including Korea and Japan), China, the Middle East, Turkey, and Egypt. Our extensive distribution network is backed by a dedicated technical services group that provides hands-on training, technical documentation, application support, and more. Many of our channel partners have been with us for decades—some dating back to the inception of IDEX in the region.

With a robust library of online resources, experienced application engineers, a responsive technical services team, and a trusted network of channel partners, we are fully committed to solving your most complex pumping challenges. Rest assure, that when you choose FMT Pumps, you are not just purchasing a pump, you are gaining access to expert support throughout the products' lifecycle.

Certifications required for various industries like: ISO 9001, ISO 14001, ISO 45000, ATEX, CE, FDA, etc.

Air-Operated Double Diaphragm (AODD) Pumps









Electric Operated Double Diaphragm (EODD) Pumps



Gear Pumps (Internal and External) and Lobe Pumps







# **Our Expertise**



## **Project Management**

Our dedicated teams include experienced project managers, material planners, quality assurance professionals, and suppliers. Together, they ensure seamless coordination, timely execution, and adherence to quality standards across all your projects.



# **Application Engineering**

Our application engineering experts work closely with you to identify the most suitable pump and system combinations for your specific operational needs, ensuring optimal performance and reliability.



# **Design and Engineering**

With a strong foundation in fluid science, mechanics, materials, and structural analysis, our teams translate customer challenges into cost-effective, manufacturable solutions. Our teams are proficient in tools such as CAD, FEA, and CFD, and work with cutting-edge technologies including advanced electronics, control panels, and IoT integration.



# **Manufacturing and Quality**

Leveraging a rich database of both imported and locally soured components, our manufacturing processes are supported by Process Capability Studies and a world-class new product development framework, including PPAC, Control Plans, and Total Quality Management methodologies. Our state-of-the-art facility operates on advanced lean manufacturing principles.



# **Value Engineering and Skid Packaging**

With a dedicated manufacturing space for skid-building, our team of skilled engineers, certified fitters, and IRB-approved welders maintain strong partnerships with major EPC contractors and conduct thorough pre-test reviews to ensure quality and compliance.



# **In-House Testing**

Our comprehensive testing infrastructure complies with API, ANSI, and ASME standards, and non-destructive examination (PMI, RT,UT, MPT, DPT), performance testing, mechanical run tests, factory acceptance testing, and vibration and noise level assessments, among others.



# **Painting and Packaging**

We employ certified painters and NACE Level 2 inspectors to ensure high-quality finishes. Our capabilities include epoxy, polyurethane, and water-based coatings, all compliant with ISPM 15 packaging standards for global shipping.



# **Logistics**

Our logistics network spans across the globe, supported by ARC and partnerships with major freight carriers. A dedicated EXIM department manages complex international logistics, ensuring smooth and efficient delivery worldwide.







#### Smart. Sustainable. Dependable.

Cognito EODD (electrically operated double diaphragm) pumps are designed to transfer the most challenging fluids efficiently, safely, and reliably.

- ▶ 30+ years of experience designing and developing industrial products, Warren Rupp, Inc., is a global leader in diaphragm pump design
- Recognized as the 'Most Innovative Energy Saving Product by CII' and 'Most Innovative Product Desing by India Design Mark'

# **Industries and Applications**



**Pulp, Paper and Packaging:** Slurry and Sludge Transfer, Filter Press Feeding, Sludge Transfer



**Ceramic, Tiles, Foundry, Refractory Tableware, Insulators:** Slip Recirculation / Casting / Filter Press, Mixing Tank Transfer, House Glazing / Glaze Transfer, Ball Mill Unloading



**Water & Wastewater, Building Products:** Slurry Transfer, Filter Press Feeding, Sludge Transfer, Effluent Transfer, Loading and Unloading Of Equalization Tank



Insulators: Slurry Transfer, Filter Press Feeding, Sludge Transfer



Specialty Chemicals: Raw Material Transfer, Acids and Alkalis



**Paint, Ink, Dyes, Lithium-ion Battery:** Transfer of Raw Material, Emulsation, Solvent, Slurry, Resin, Final Paint to Filler



Pharmaceuticals, Latex: Transfer of Latex, Glue, Solvents and Chemicals, Lacquer







COGNITO EODD		1"	2"	3"	4"	
Operations		Electric	Electric	Electric	Electric	
Max. Flow	LPM	110	300	510	800	
Max. Operating Pressure	BAR	6, 8	6, 8	6, 8	6	
Max. Suction Lift (Ref.: tested with water)	meter	8+ wet 4.5 dry	8.3 wet 4.2 dry	8.3 wet 5.1 dry	8.3 wet 5.5 dry	
Material of Construction	<u> </u>					
a) Pump		Aluminium / Stainless Steel / Polypropylene				
b) Diaphragm Check Ball Valve		Neoprene / Santoprene/ PTFE / Nitrile				
Motor and Gear Box	HP	1.5, 2	5, 3.5, 3	7.5, 5	10, 7.5	
Sound Level	DB	<80	<80	<80	<80	
Solid Handling	MM	5	5	7	9	
Max. Heads	meter	60, 80	80	80	60	
Displacement/Stroke	litre	0.3	1.48	2.9	4.75	









# **Key Features**

- Up to 75% less energy consumption than comparable AODD pumps
- Hardened seat and stopper cage design enhances manifold and seat durability
- Secondary static seals prevent fluid contact, protecting the pump in case of diaphragm failure
- Smoothly handles highly abrasive, corrasive, sheer sensitive and viscous fluids
- Proven swift ROI
- Heavy-duty construction with robust design
- ▶ Seal-less, dry-run capable and self-priming





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Sandpiper, one of the premium brands of Warren Rupp, has delivered application-driven AODD pumping solutions and continues to lead in performance, reliability, and innovation. The heavy-duty flap valve is ideal for fluids with large solids—handles up to line-size particles. The heavy-duty ball valve designed for fluids with settling, suspended, or floating solids. Containment duty ball valve has the only complete AODD pump line offering superior fluid containment—protecting people, the environment, and equipment. The standard duty ball valve is a versatile and portable with best-inclass flow rates and lowest air consumption.

Sandpiper was born in 1968 with the introduction of the BEAST Flap Valve pump—an industry-first double diaphragm design that redefined fluid handling.

# **Industries and Applications**



Oil & Gas: Refined Fuels, Biofuels, Liquefied Fuels



**Ceramic:** Glaze, Ceramic Slurry and Abrasive Slurry



**Pharmaceuticals:** Raw Materials and Chemicals



Water Treatment: Sludge, Slurries, Filter Press Feed, Corrosion and Scale Inhibitor, And Chemicals



Pulp & Packaging: Alum, Caustic Soda, Sulphuric Acid, Starch and Pulp



**Chemicals:** Acids And Bases, Alcohol and Solvents, Soaps and Detergents



Paint, Ink & Dyes: Raw Materials, Viscous Fluids and Finished Products



Automotive: Transfer of Oil, Fuel, Machine Coolents, Auto Lube and Wash, etc.

Pump Type	Flow Capacity	Application		
Standard Pump 1 to 1078 LPM		Used in speciality chemicals, paints and dyes with added solutions for food & beverages		
Containment Duty	Up to 1060 LPM	Used for highly corrosive, toxic and hazardous chemicals		
Heavy Duty Ball and Flap Valve	Up to 1173 LPM	Used for abrasive, viscous, suspended solids, and line size solid requirement		
Hygiene Pump	Up to 1078 LPM	FDA approved for Food and Beverage and Pharmaceuticals		
Gas Operated	Up to 1078 LPM	Natural gas operated pumps for oil & gas offshore		











#### **Products Details**

**MoC Options:** Stainless steel, aluminium, cast iron, duplex/super duplex stainless steel, alloy C-276, polypropylene and PVDF

Sizes: Up to 3 inch

Capacity: Up to 1173 LPM

Pressure: Max. up to 8.6 BAR

Diaphragm MoC: Santoprene, Neoprene, EPDM,

PTFE, Nitrile, FKM

# **Key Features**

- Being self-operated, self-primed, indefinitely stall-able, low shearing, solid handling ability, and uninterrupted operation even in submerged conditions.
- Designed to handle hazardous, abrasive, corrosive, viscous, flammable fluids and many other critical liquids with ease.
- To meet the expectation of the future for industry 4.0 Sandpiper has come up with IOT solutions to provide
- Complete monitoring of the pump performance and parts service life







Versamatic simplifies fluid handling with a complete line of bolted metal, bolted plastic, and clamped metal AODD pumps, available in a wide range of sizes and flow rates. Known for setting the standard in AODD pump performance, we're committed to delivering reliable, high-quality pumps with fast lead times and user-friendly service. Backed by an award-winning facility, Versamatic is one of the world's largest and most capable AODD pump manufacturers—offering the versatility and flexibility you need to keep operations running smoothly.

# **Industries and Applications**



**Ceramics:** Glaze, Ceramic Slurry and Abrasive Slurry



**Oil and Gas:** Crude Oils, Lube Oils and Greases, Asphalt and Bitumen



**Chemical:** Acids and Bases, Alcohol and Solvents, Soaps and Detergents



**Paints and Coatings:** Paints, Inks and Dyes, Resins, and Adhesives



**Food and Beverage:** Dairy Products, Purees, Juices, and Preserves



**Pharmaceutical:** Raw Materials and Chemicals



**Wastewater Treatment:** Sludge, Slurries, Filter Press Feed, Corrosion and Scale Inhibitor



Constrction, Marine and Mining, General Manufacturing



**Valor:** Effortless to maintain. Flexible by design. Built robustly for reliable performance.



**Bolted Metallic Pump:** Featuring an adjustable manifold for installation versatility.



**Rockstar:** The Flap Valve Pump was designed to offer superior solids handling in a chemically resistant light weight portable design.



#### **Products Details**

**Capacity:** 1 to 1000 LPM **Temperature:** -40°C to 150°C **Pressure:** Up to 8.6 BAR

# **Key Features**

- Bolted metallic and plastic construction, capable of 125 PSI (8.6 BAR) pressure
- Leak-free operations even while pumping thin liquids
- ► FDA approved construction with improved surface finish, suitable for food processing applications
- High pressure full flow available with weighted valve balls for filter press feed applications
- Clamped option for easy dismantling

- Flap valve for superior solids handling
- Simple six bolts clean-out cap to clear simple clogs without disassembling the pump
- Modular check valve access for quick maintenance and repair
- Rugged, compact and submersible operated by 12-volt battery
- Light weight portable design options available







Blagdon AODD pumps have found application in the transfer, circulation, unloading, mixing, pressurizing of both very thin and highly viscous fluids as well as both clean and particulate-laded liquids. Our pumps are used in a wide range of industries including oil and gas, food and beverage, chemical processing, wastewater, water, and marine industries.

# **Industries and Applications**



Wastewater: Chemical Waste and General Waste



**Ceramic:** Slip And Glaze, Filter Presses, Abrasive Fluids Sanitary Products



**Pharmaceuticals:** Raw Materials and Chemicals



Pulp & Paper: Paper, Wood, Sizes, Bleaches



Chemical & Petrochemical: Acids & Alcohols, Hydrocarbons, Solvents and Organics



Paint & Coatings: Paints, Inks & Dyes, Resins, And Adhesives



Standard Series Non Metallic Pump

High Pressure Pump









#### **Products Details**

Capacity: 1 to 1000 LPM

**Temperature:** -40°C to 150°C

Pressure: Up to 12 BAR

Capacity: 1 to 1100 LPM

# **Key Features**

- Can run dry without damage or heat buildup / fully submersible
- Designed to operate at low noise levels
- Leak-free air valves, easily removed for servicing
- Easily maintained, stripped down quickly without any specialist tools
- ▶ Self-priming to over 6 metre (19.7 feet)
- Can safely "dead head" against closed discharge
- Low degradation and minimum product agitation

- Safe in hazardous areas no sparking airdriven
- Only AODD pump in the world to have No-Pilot Valve
- Includes SS316L Air Valve
- Pump comes complete with Lip Seals fitted into bushes
- Premium Leak Detection sensors continuously monitor both diaphragm to alert for any rupture





Viking Pump is a global leader in the design and manufacture of rotary positive displacement pumps, trusted in some of the world's toughest applications. Our industrial gear pumps are the benchmark in positive displacement technology, offering consistent flow, high efficiency, and proven performance across light, medium, and heavy-duty applications. This versatility stems from a simple yet robust design.

Founded in 1911, the innovative 'gear within a gear' principle by Danish immigrant Jens Nielsen in Cedar Falls, Iowa, Viking Pump has built a legacy of engineering excellence and industry-first solutions

## **Industries and Applications**



Polymers: Rubber and Plastic, Fibers and Resins, Polyurethanes



Chemicals: Acids and Bases, Alcohol and Solvents, Soaps and Detergents Additives



Oils: Crude Oils, Lube Oils and Greases, Asphalt and Bitumen



Personal Care: Lotions and Creams, Toothpaste, Hair and Skin Care



Machinery: Fuels and Lube, Heat Transfer Liquids, Filtration, Refrigerants, Ammonia, polyol, TDI/MDI, PU Foam



Foods & Dairy: Liquid Sugars, Chocolate & Confectionery, Edible Oils, Animal Feed



Coating & Sealeants: Paints, Dyes & Inks, Adhesives, Caulks



Petrochemicals: Asphalt, Bitumin, Vacuum Residue, Greese, Molten Sulphur

Internal Gear Pumps

External Gear Pumps

Rotary Vane Pumps

**Engineered SKID** 









# **Products Details**

Sizes: Up to 10 inch Capacity: 365 M3/HR Pressure: 170 BAR

**MOC Options:** Stainless steel, cast iron and carbon steel

**Viscosity:** 1 to 440,000 CST

# **Key Features**

Universal seal bracket accepts multiple seal

Adjustable end clearances

- ▶ Fully rotatable casing
- Single piece casted footed bracket





The Viking Pump Hygienic business expands our product range to includes rotary lobe, circumferential piston, providing comprehensive solutions for hygienic applications across food, beverage, pharmaceutical, and personal care industries.

These pumps are available with EHEDG and 3-A Sanitary certifications, ensuring they meet the highest standards of hygienic performance. These certifications guarantee compliance with stringent sanitary requirements, making them ideal for applications where maximum cleanliness and product safety are critical.

# **Industries and Applications**



Beverage: Fruit Pulps, Alcoholic and Non Alcoholic Beverages



Personal Care: Oral Care, Skin Care and Hair Care



**Bio-Pharmaceuticals:** Vaccines, Blood Filtration, Filter Aid Transfer, Downstream And Upstream Bio-Pharma



Dairy: Butter, Paneer, Ghee, Cheese



**Food:** Processed Food, Jam, Ketchup, Neutraceuticals, Chutneys, Chocolate, Sugars, Oil, Meat



**Chemicals:** Soap Industry, Ink Industry and Paint Industry, Petrochemicals and Chemicals



Circumferential Piston Pumps

Rotary Lobe Pump









#### **Products Details**

**Capacity:** 0.1 cubic meter / hour **Temperature:** -70°C to 180°C **Pressure:** Maximum 34 BAR to 180 cubic meter / hour

## **Key Features**

- Ultra-Hygienic Design: Certified to 3-A Sanitary and EHEDG standards for maximum cleanliness
- CIP-Enabled: Designed for Clean-in-Place operations, ensuring easy and effective cleaning and SIP sterilized in place
- Self-Draining: Promotes complete evacuation of product and cleaning fluids
- Corrosion Resistant: Built to resist roughing and prevent oxide layer formation

- Low Shear Handling: Preserves product integrity, ideal for shear-sensitive fluids
- Precision Performance: Accurately handles a wide range of fluid viscosities
- Special Materials Available: Options include exotic alloys for demanding applications Abrasive Resistance - Special Coating Internal



# **\*PULSAFEEDER®**

Since the 1940, Pulsafeeder has led innovation in fluid handling, introducing the first hydraulically actuated diaphragm metering pump that comes with XAE, a state-of-the-art microprocessor-based stroke length control device for use with PULSAPRO.

With advanced material expertise, we deliver customized solutions for demanding applications. Our chemical injection systems are essential in chemical, petrochemical, refining, and oil & gas sectors. Pulsafeeder provides complete documentation, fabricates skids to specification, and ensures compliance with global standards such as ASME, API, and ATEX.

## **Industries and Applications**



**Refinery and Petrochemicals:** DMDS, Chlorides, Catalyst, Phosphates, Corrosion And Scale Inhibitors



Power: Ammonia, Phosphate, Corrosion and Inhibitor



Pharmaceuticals: Caustics, Acids, Calcium Chloride



Water Treatment: Acids, Caustic, Bactericide, SMBS, Antiscalents



Chemicals: HF, Chlorine, Acids, Ammonia, Methanol, Diester



Oil & Gas: MEG, Methanol, Biocides, Corrosion and Scale Inhibitors



Pulsa and Pulsapro Series PULSA GLM Series Electronic Pumps Engineered Systems External Gear











#### **Products Details**

<b>Pump Type</b>	Hydraulic Diaphragm Pump	External Gear Pump
MoC Options	SS316L / PVC, GF-PPL, GF-PTFE, Alloy C, Monel, PVDF, Titanium, CPVC & Alloy	SS316, Alloy C, Alloy20, , PVDF
Capacity	Up to 8676 LPH (in single head)	Up to 12480 LPH
Temperature	Up to 350° C	Up to 232° C
Pressure	Maximum 300 BAR	Maximum 20.7 BAR

# **Key Features**

- +/-0.5% accuracy
- 4 bolt tie bar for easy access to replaceable items
- Push to purge valves, hydraulic bypass valve, high performance valve to keep the pump health in check
- Vertical motor for less footprint



# **Pulsation Dampener**

Cognito Pulsation Dampeners minimize vibration and pressure spikes in positive displacement pumps by absorbing fluctuations and self-adjusting to current pressure. A flexible diaphragm with a central rod ensures steady operation, protecting the system. Compatible with AODD, EODD and Dosing pumps, available in aluminum or stainless steel housings.

# **Certified Quality**









Compound Pressure

Gauge





#### **Features and Benefits**

- Smooth pulsation-free flow
- Hassle-free automatic controlling
- Stabilizes pressure

- Vibrations-free pipes
- Compatible to variable pressure application
- Helps improve pump life

Air Supply

Figure - 8



# **Nearly Surge-Free Flow**

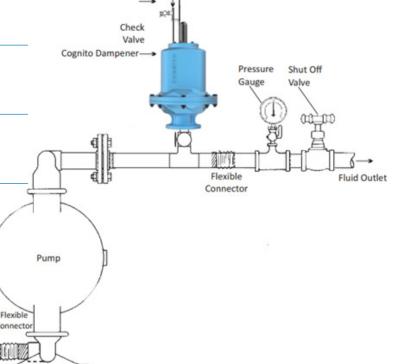


**Maintain Steady Pressure** 



**Reduced Vibration** 

Fluid Inlet



# Skid / Engineered System













# Why our customers choose IDEX Pump

"We needed a pumping solution that could handle high viscosity paints with precision and zero tolerance for downtime. The difference in performance of Cognito pump, durability, and maintenance requirements has been remarkable. We've not only improved efficiency but also reduced energy and operational costs significantly. The energy savings and reliability have been outstanding—and the post-sales service is among the best we've experienced in the industry."

Customer – Paint Industry High-volume operation "Transferring abrasive and slurry-heavy fluids used to be a nightmare—until we switched to Sandpiper's AODD pump. To our surprise, this heavy-duty flap valve was the only option that helped us address the challenge we were facing moving our highly stubborn application."

Customer – Ceramic Industry Challenging fluid transfer "In chemical processing, reliability and safety are non-negotiable. Viking Pumps delivered both—with robust designs that stand up to corrosive fluids and modular features that enhance operational control. What impressed us most was their team's deep understanding of our application needs and their commitment to helping us optimize performance."

Customer – Chemical Industry

# Pumps with **Smart Insights**



# **Smart EODD Pumps**

Cognito's IoT-enabled feature offers real-time updates for all your installed pumps. With its userfriendly web-based dashboard, you can monitor critical applications and track key performance indicators from anywhere. SmartInsights helps you connect, monitor, and analyze your equipment remotely. This allows you to make faster, better decisions to optimize equipment performance and improve overall process efficiency. Its advanced smart technology provides instant alerts for any abnormalities, enhancing both process and operator safety.

#### **Features:**

#### Our web-based portal can be accessed from anywhere.

- 24/7 Real-Time Condition Monitoring
- Preventive Maintenance Alerts
- Remote Health Monitoring
- Central Reporting for All Departments
- Actionable Insights

# **Smart AODD Pump**

# The Smart AODD Pump addresses key customer pain points:

- Air valve failure and clogging
- Manual cleaning after diaphragm failure
- Material wastage and media leakage

- Secured Solution for Data Integrity
- User-Friendly Dashboard: Monitor key performance indicators and the health of the pump.
- Analyze Data: Make appropriate decisions to improve pump performance and reduce downtime.

# **Experience the Smart Advantage:**

- Minimize loss of high-value materials
- Eliminate spillage and surrounding cleanup
- Cut pump maintenance time and cost by up to 50%

# Notes




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