



VOGELSANG
ENGINEERED TO WORK



HIGH PERFORMANCE PUMPS DESIGNED FOR TOUGH APPLICATIONS

IQ-Series Pumps

The Next Generation Rotary Lobe Pump





ROBUST, RESILIENT, RELIABLE!

The Next Generation Rotary Lobe Pump!

The latest Vogelsang innovation in Rotary Lobe Pumps is here. Utilizing our exclusive HiFlo® rotor design, IQ series pumps have been specifically designed to reduce the number of spare parts, and maintenance time compared to any other lobe pump in the industry. The ability to pump highly viscous liquids, pulsation-free combined with unmatched design flexibility, makes IQ the next revolution of pumping technology.



IQ112-Series Rotary Lobe Pump



The IQ Rotary Lobe Pump Product Line.

The IQ is the latest addition to the Vogelsang line of Rotary Lobe Pump models. It does everything that our industry leading VX design will but has a one-piece housing that is incredibly easy to work on. The all new IQ design works well in applications requiring a positive displacement pump up to 339 g.p.m.

All Vogelsang pumps can run dry without damage, self prime and run in forward or reverse. Vogelsang pumps are great for suction lift applications up to 25'. The IQ features our standard 4 wing HiFlo® Lobe design, the pump delivers pulsation free pumping action making it ideal for many applications.

What makes the IQ a great advance in pump design is the simplified wet-end. We've eliminated 50% of the spare parts compared to traditional rotary lobe pumps. This translates into real savings when looking at overall operational costs.



How the IQ Rotary Lobe Pump Works

Two intermeshed rotors are affixed each to gear driven shafts. The shafts rotate in opposite directions. The rotating motion of the rotors creates an expanding cavity on the suction side. This allows fluid to enter and fill the suction side of the pump. The rotors carry the fluid around the housing to the discharge side where it is expelled out of the pump by the closing cavity. The IQ series was designed to prevent vortices at the pump inlet with its advanced suction path design.

Solids that need to be passed through the pump are directed with our exclusive InjectionSystem, built directly into the pump housing. The IQ series pumps can pass a non-compressible solids up to 1.3" in diameter.



IT'S ALL ABOUT THE LOBES

Pulsation Free, High Abrasives & Low Shear

The state of the art in positive displacement pumps. The HiFlo® Lobe has increased capacity compared with former lobe designs while eliminating pulsation. The convoluted design of the HiFlo® rotors provides a large cavity that's perfect for harsh and abrasive fluids. This design also makes it possible to achieve a required pressure at a slower rpm which results in less damage to lobes and minimal wear to the rest of the pump.

The gentle pumping action of the HiFlo® Lobe is also friendly to shear sensitive liquids. This also applies to applications where large amounts of entrained air is present in the liquid.

Vogelsang offers four lobe rotors in the IQ series. There are several elastomer options for maximum chemical compatibility, abrasiveness and temperature requirements.





50% less wet end parts compared to traditional rotary lobe pumps! Maintenance is performed in place without disturbing connected piping



The front cover is easily removed and comes off in one piece. There is no need to remove the pump from the assembly or disturb any connected piping.



After the cover is removed, the entire wet end of the pump is exposed and can easily be serviced.

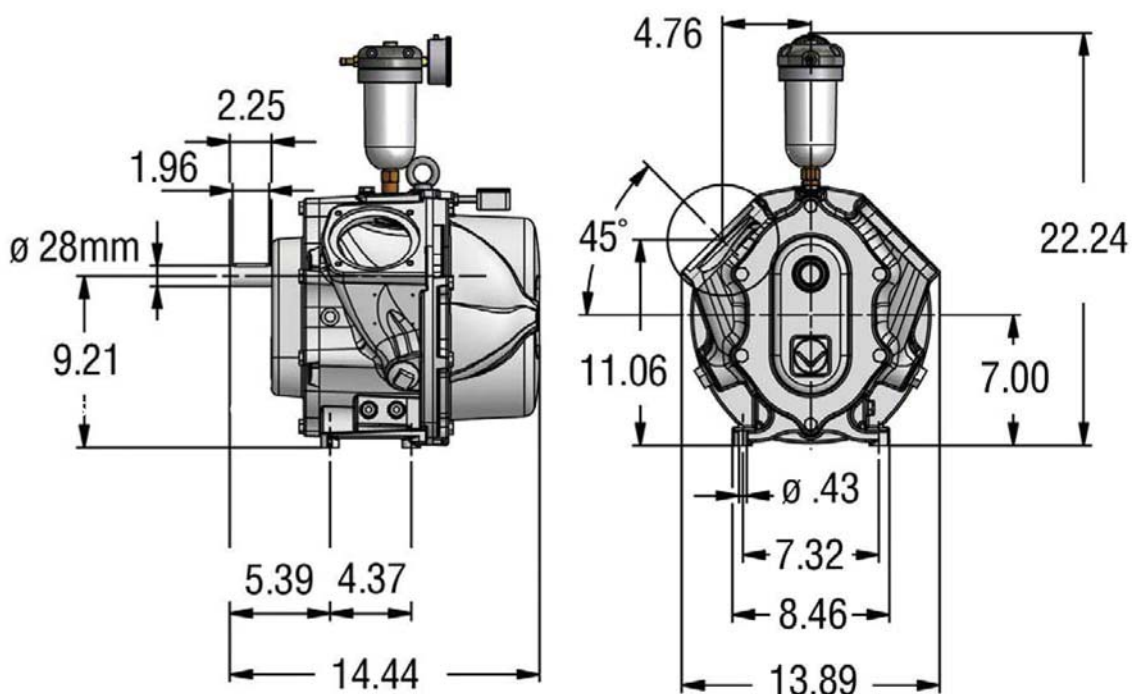


With access like this, maintaining your rotary lobe pump has never been easier!

QUICK & EASY INLINE MAINTENANCE

IQ Pump Series Performance Specifications:

Model	Capacity		Displacement		Max. Solids		Flange Size		Max Pressure		Max. Speed
	gpm	m ³ /h	gal/100rev	l/100rev	in	mm	in	mm	Q: psi	bar	
IQ112-81	242	55	27	102	1.3	33	4	100	116	8	900
IQ112-114	339	77	38	144	1.3	33	4	100	72	5	900





APPLICATIONS

Wastewater

Vogelsang pumps are widely specified for common wastewater applications. Typical applications include: Primary & Secondary Sludge, Digested & Thickened Sludge, WAS, RAS & TWAS, Sludge Transfer, Dewatering, Scum & Septage.

Our pumps are specified because they are built to handle thick sludge that contains grit, abrasives and debris often found in wastewater sludges.

Our pumps provide an even, pulsation-free flow of liquid which makes them ideal for transferring sludge and feeding dewatering equipment such as Belt Press, Centrifuge and Screw Presses.

In DAFT applications we provide a slower operating pump that can handle excessive air through the pump, along with other floatable debris such as hair and rags.

Industry

A majority of industrial clients use Vogelsang pumps for transfer, or process pumps throughout their plants. Our small & compact design provides a pump that can be installed in a variety of ways such as in-line, belt drive, hydraulic and even cart mounted. Processes requiring pumping liquids such as ceramics, bentonite, oils, chemical wastes, molasses, paraffin, paints, and even wines & juices use Vogelsang pumps due to their high quality and smooth pumping action.

Vogelsang offers several material options to best suit the intended application. For abrasion and caustics resistance we have high-wearing metals and elastomers for the best life cycle. Chemical compatibility testing is available to determine the correct material for chemical applications.

Mobile Tankers

The IQ-Series pump is extremely compact in relation to its capacity. As shown above, the integrated flanges can be oriented in any direction to fit into tight areas and adapt to complex piping arrangement commonly found on mobile tankers.

The pump can be driven hydraulically, engine or pto. It can pump forward and reverse on the fly making it ideal to strip back hoses. The high suction capability allows for complete evacuation of liquid from the tank.

All of these features combined make it the ideal choice for mobile applications involving highly viscous liquids containing abrasives and solids.



APPLICATIONS

Food Processing

The unique geometry of the Vogelsang rotary lobe pump design ensures a gentle pumping action that will not damage your products. Typical food products include handling tomatoes, potatoes, juice, grapes or pastes.

Vogelsang pumps are commonly chosen for food applications such as Transfer, Centrifuge Feed or Thickening, Waste and Mash & Peel. Each application has its challenges but the overall factors for specifying Vogelsang are: low shearing, zero pulsation, high solids handling lobe design provides unmatched quality to our process.

We also have the ability to pump both forward and reverse so a single pump can be used for multiple purposes without a dedicated pump or complicated valve structure.

Mining

Our pumps have been widely chosen for handling abrasive slurries, pumping silica suspensions up to 85% solid by weight. Transferring tailings including particles up to 5mm in diameter, our pumps help recover waste materials that are used to mine metals such as gold, platinum, vanadium, nickel, coal, copper, kaolin, trona and uranium.

Our pumps are maintained inline without removing connected piping. Removing a few bolts allows replacement of wear parts in under an hour. The advantages include reduced manpower and low cost spare parts.

Vogelsang Pumps also have applications in various tailings, natural kaolin, acid slurry, platinum waste, ammonia metavanadate slurry, thickener underflow, flocculent, and dewatering to be more specific.

Oil & Gas

Our pumps have been designed for use in a variety of oil-related pump applications and are able to pump a wide range of viscous liquids that contain heavy abrasives and solids, or refined clean materials.

Typical applications for Vogelsang pumps including Barge Loading, Drilling Fluids, Tank Cleaning, Transfer, Centrifuge Feed, Offloading, Tank Stripping. In addition Vogelsang is chosen by many OEM Environmental Cleanup Equipment manufacturers for Skimming, Side Collectors, Transfer and Offloading.

Vogelsang pumps are widely specified due to their small size, high capacity and ability to handle tough operating conditions.



VOGELSANG
ENGINEERED TO WORK

Our company

Innovation and progress have been hallmarks of Vogelsang for over 80 years and have made us a leading designer and manufacturer of pumping, solids handling and process products. Time and time again we have achieved significant milestones of innovation and product development. Today, we manufacture some of the most innovative and reliable products for municipalities, industry and agriculture.

Our products are proudly made and assembled in Ravenna, Ohio, USA.



Our product range

We offer solutions for the following areas:

- Industry & Processing
- Wastewater treatment
- Biogas
- Railway wastewater disposal
- Agriculture

We offer a broad range of products:

- Rotary lobe pumps
- Grinding technology
- Distributors
- Spreading technology
- Supply and disposal systems
- Complete solutions

We also offer customized solutions for your specialized applications.

How to reach us

Vogelsang is present worldwide. Visit us online for more information about our company and wide range of services:

Vogelsang

7966 State Route 44 • P.O. Box 751
Ravenna, Ohio 44266, USA

Toll Free: 800.984.9400

Tel: 330.296.3820

Fax: 330.296.4113

www.vogelsangusa.com

sales@vogelsangusa.com

vogelsangusa.com



RotaCut®

Inline macerator cuts and separates damaging solids suspended in liquid process stream.



BioCut®

Pump & RotaCut® combines the power of both products into one compact unit.



XRipper®

Low-maintenance, drop-in alternative to other inline twin shaft grinders.



HiFlo® Rotary Lobe Pump

Designed to handle viscous liquids and tough solids.



RotaCut® RCX48 & RCX58

Inline macerator offers higher pressure, lower headloss and maximum solids reduction.



QuickMix®

Dry Solids & Slurry Mixing System creates optimum slurry mixtures for maximum gas output.