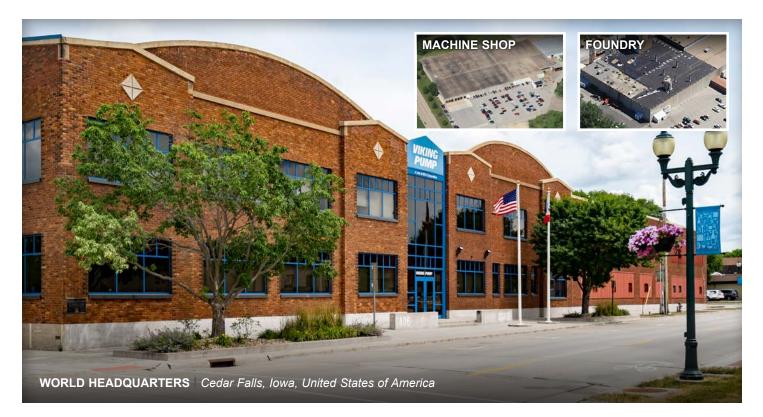


PRODUCT CATALOG

GLOBAL LEADER IN POSITIVE DISPLACEMENT PUMPING SOLUTIONS

VIKING PUMP[®]

GLOBAL **LEADER** IN POSITIVE DISPLACEMENT **PUMPING** SOLUTIONS



VIKING PUMP HYGIENIC Eastbourne, United Kingdom



VIKING PUMP CANADA Windsor, Ontario, Canada



IDEX PUMP TECHNOLOGIES Shannon, Ireland





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SOLUTIONS PROVIDER

With over 110 years of expertise, each Viking pump is uniquely designed for the task at hand, from simple solutions to your most advanced and demanding needs.

QUALITY MANUFACTURING

Viking's vertically integrated production process, from raw materials to finished product, meet ISO 9001:2015 quality standards. Global manufacturing footprint in the Americas, Europe and Asia use Six-Sigma and Lean Kaizen tools.

RELIABILITY, QUALITY & PERFORMANCE

Offering one of the broadest selections of pumping principles, designs, materials and options available, Viking pumps are time and field tested to meet or exceed your expectations.

APPLICATION & INDUSTRY SUPPORT

Channel support group of application, sales and design engineers develops unique pumping solutions for both OEM manufacturers and pump end users with unique requirements.

GLOBAL SALES & SERVICE

Viking pumps are in operation on all 7 continents. Our worldwide network of factory-trained distributors understand your application and service needs.

DID YOU KNOW?

Viking Pump founder, *Jens Nielsen,* invented the first ever internal gear pump; patented on February 4th, 1904.





QUALITY & LAB SERVICES

ANALYTICAL SERVICES FOR OPTIMUM PERFORMANCE



Enable best possible pump selection for your liquids and process conditions



Validate pump performance before installation with certified pump tests



Satisfy engineering specifications and governmental regulations



Test your pump only, or the complete unit (pump, reducer & drive)



Guarantee accuracy with NISTtraceable calibration



Test at your required viscosities



LAB RESOURCES

- Dynamometers
- Data Acquisition Tools
- Viscometer
- Test Liquids from 28 to 25,000 SSU
- Machine Shop

TESTING SERVICES

- Pneumatic Testing
- NPSHr Testing
- Sound & Vibration
- Visual Inspection & Measurements
- Material Testing
- Liquid Sample Analysis
- Positive Material Identification
- Traceability
- Magnetic Particle Testing

Watch our product engineering lab video



CERTIFIED PERFORMANCE TEST

- Factory testing to ensure your Viking pump meets your performance requirements
- Using state-of-the-art dynamometers and data gathering software, tests can be performed on a variety of liquids to best duplicate your unique conditions of service
- 9 dynamometers through 300 HP
- I Oils, solvents, water and other test fluids
- Witnessed testing available

Note: Not all tests are available at all manufacturing locations.



CERTIFIED HYDROSTATIC TEST

- Hydrostatic testing ensures that your pump will not leak at or beyond your application pressure, using petroleum-based or non-petroleum test fluid
- Test condition is at 1.5x the maximum operating pressure or 250 PSI (whichever is greater)
- Pressure and duration may be changed to meet customer specifications
- Pneumatic testing also available

4 **VIKING PUMP**



MARKETS & APPLICATIONS



WE HAVE THE PRODUCTS FOR YOUR INDUSTRY

We have experience with thousands of liquids that allow us to deliver proven solutions for your application, whether it is thin / thick, hot / cold, edible / toxic, liquid / solid and much more.



CHEMICALS

- Acids & Bases
- Alcohols & Solvents
- Soaps & Detergents



POLYMERS

- Rubbers & Plastics
- Fibers & Resins
- Polyurethanes



OILS

- Crude Oils Lube Oil & Greases
- Asphalt & Bitumens



FUELS

- Refined Fuels
- Biofuels
- Liquefied Gases



PHARMACEUTICAL

- Medicinal Chemicals
- Creams & Ointments
- Blood & Plasma Processing

PULP & PAPER

Coatings

Starch



MACHINERY

- Fuel & Lube
- Heat Transfer Liquids
- Filtration



PERSONAL CARE

- Lotions & Creams
- Toothpaste
- Hair & Skin Care



FOODS

WATER &

WASTEWATER

- Liquid Sugars
- Chocolate & Confectionery
- Edible Oils

Methanol

Polymers

Additives



DAIRY

Cream



COATINGS & SEALANTS

- Paints, Dyes & Inks
- Adhesives
- Caulks



BEVERAGES

- Distillers & Vinters
- Fruit & Vegetable Purees
- Carbonated Drinks





- Butter
- Cheese



PRODUCT QUICK VIEW GUIDE

SEGMENT					PUMP INDUST	RIAL SOLUTI	DNS
PRODUCT LINES		Universal			Motor	Speed	
EXTERNAL MATERIAL	Cast Iron	Steel Externals	Stainless Steel	Ductile Iron	Cast Iron	Steel Externals	Stainless Steel
PERFORMANCE*							
Maximum Flow – GPM	1,600	1,600	1,600	190	580	115	75
/laximum Flow – LPM	6,057	6,057	6,057	719	2,196	435	284
Maximum Flow – m³/h	363	363	363	43	132	27	17
Maximum Pressure – PSI	200	200	200	500	250	250	200
Maximum Pressure – BAR	14	14	14	34	17	17	14
Maximum Viscosity – SSU	2,000,000	2,000,000	2,000,000	1,000,000	25,000	25,000	25,000
Maximum Viscosity – cSt	440,000	440,000	440,000	250,000	5,500	5,500	5,500
Temperature Range – °F	-40°F to +450°F	-20°F to +800°F	-120°F to +500°F	-60°F to +450°F	-40°F to +350°F	-20°F to +350°F	-40°F to +350°F
Temperature Range – °C	-40°C to +230°C	-30°C to +430°C	-85°C to +260°C	-50°C to +230°C	-40°C to +180°C	-30°C to +180°C	-40°C to +180°C
SEALING							
Packing	\checkmark	\checkmark	\checkmark				
Lip Seal				\checkmark	\checkmark		
O-Pro [®] Seal	\checkmark		\checkmark				
O-Ring Seal							
Behind the Rotor Seal	\checkmark		\checkmark		\checkmark	\checkmark	\checkmark
Component Mechanical Seal	\checkmark	\checkmark	\checkmark	\checkmark			
Cartridge Mechanical Seal	\checkmark	\checkmark	\checkmark				
Cartridge Triple Lip Seal	\checkmark	\checkmark	\checkmark				
API 682 Seal		\checkmark	\checkmark				
Sealless Mag Drive	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
JACKETING OPTIONS							
Head / Bracket	\checkmark	\checkmark	\checkmark				
Casing / Head / Bracket (Full)	\checkmark	\checkmark	\checkmark				
PORTING							
Right Angle (90°)	\checkmark	\checkmark	\checkmark				
Opposite (180º)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
NPT	\checkmark		\checkmark	\checkmark	\checkmark		
Flanged	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
SAE Flange				\checkmark			
Rectangular Flange	1						
Threaded	1						
Hygienic Clamp							
SAE O-Ring	1			\checkmark			
MOUNTING							
Foot Mount	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Motor Mount (Close-Coupled)				\checkmark	\checkmark	\checkmark	\checkmark
Vertical Mount				\checkmark	· ·	\checkmark	
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ROTARY PUMP BENEFITS



OPERATES AT ANY POINT ON THE CURVE

- High efficiency at full range of speeds
- Flow rate largely independent of changes in pressure



LONG SEAL & BEARING LIFE

Generally operated at speeds from 10 to 1750 RPM, for increased seal and bearing life



Documented shear rates enable selection of proper pump and speed to protect shear-sensitive liquids



- Enables suction lifts, handling fluids prone to flashing, and pulling from
- vacuum vessels



Provides easy control of flow rate with a variable speed drive for excellent metering capabilities



HANDLES A WIDE RANGE OF VISCOSITIES

Capable of handling up to 2,000,000 SSU (440,000 cSt)

SIMPLE MAINTENANCE

Seal, head and gear replacement can usually be done in place without removing pump from piping

SELF-PRIMING

- Enables priming if pump is above liquid level
- Some Viking pumps are capable of suction lifts up to 20 ft (6 m)

REVERSIBLE DIRECTION OF FLOW

Use same pump for loading and unloading or line stripping

			VIKING PUMP HYG	ENIC SOLUTIONS
	Circumferential Piston	Rotary Lobe	Circumferential Piston	Rotary Lobe
	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	450	832	450	832
	1,703	3,149	1,703	3,149
	102	189	102	189
	500	218	500	218
	34	15	34	15
	2,000,000	2,000,000	2,000,000	2,000,000
	440,000	440,000	440,000	440,000
	to +300°F	to +355°F	to +300°F	to +355°F
	to +150°C	to +180°C	to +150°C	to +180°C
			-	
		\checkmark		\checkmark
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	V	V	V	V
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32-33



34-35

32-33

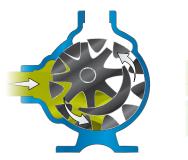
34-35



INTERNAL GEAR PUMPS

WHY? The internal gear pump is the "workhorse" of countless manufacturing processes.

- Broadest selection of materials, designs, seals, ports and displacements
- Adjustable clearances enable handling viscosities from 28 to 2,000,000 SSU (1 to 440,000 cSt)
- Low shear





INCLUDED PRODUCTS

MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

EXTERNALS (HEAD, CASING, BRACKET)

Cast iron, ductile iron, steel, stainless steel, and other alloys

INTERNALS (ROTOR, IDLER)

Cast iron, ductile iron, steel, hardened steel, stainless steel, and other alloys

BUSHINGS (SLEEVE BEARINGS)

Carbon graphite, bronze, hardened cast iron, silicon carbide, tungsten carbide, and other specials materials as needed

SHAFT SEAL

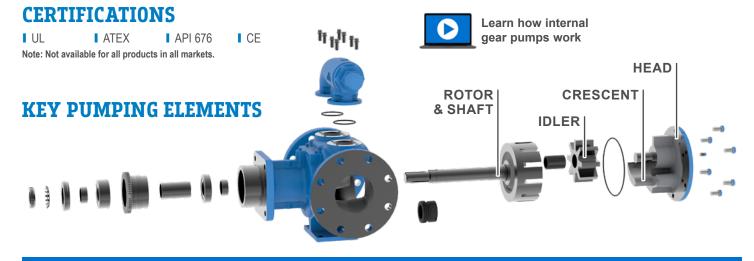
Lip seals, packing, O-Pro[®] seals, component mechanical seals, industry-standard cartridge mechanical seals, API 682 seals and sealless magnetic couplings

TYPICAL APPLICATIONS

Common internal gear pump applications include, but are not limited to:

- All varieties of refined fuels & lubricants
- Resins & polymers
- Alcohols & solvents
- Asphalt, bitumen & pitch
- Polyurethane foam (isocyanates, polyols & additives)

- Food products such as corn syrup, chocolate & peanut butter
- Paint, inks & pigments
- Soaps & surfactants
- Heat transfer fluids



8 **VIKING PUMP**

The Internal Gear Pump was invented by Viking Pump's founder, Jens Nielsen, in 1904. It is used in manufacturing many of the products that we all touch every day.

ADVANTAGES

Only Two Moving Parts | Reliable & easy to maintain

Adjustable End Clearances | For low or high viscosities, high temperatures, or to compensate for wear over time

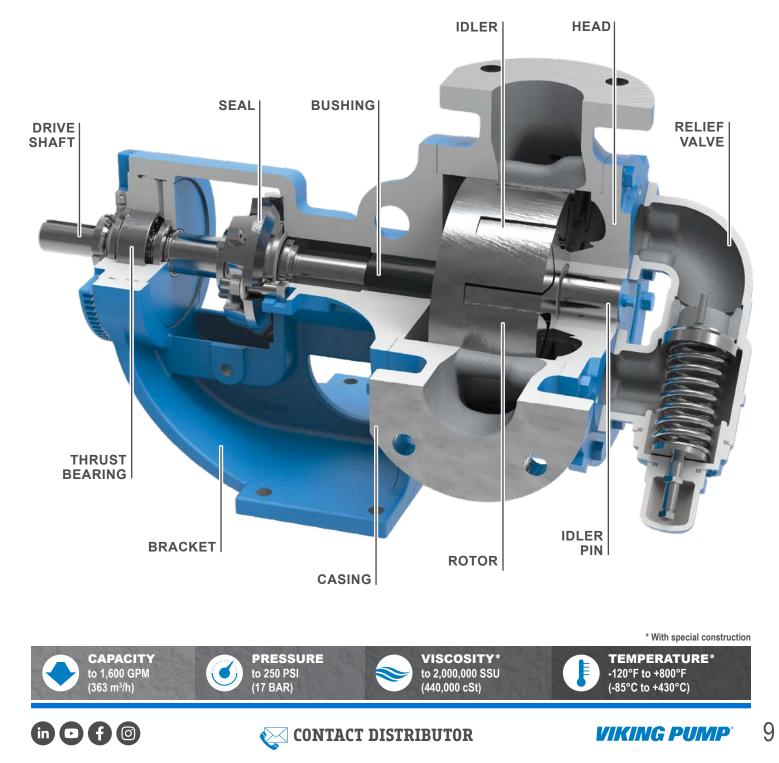
Shaft Seal Options | Including packing, lip seal, O-Pro[®] seals, component seal, cartridge seal and sealless mag drive

Porting Options | Viking's broadest selection of port locations, configurations and types

Smooth, Non-Pulsing Flow | For accurate flow measurement

One Shaft Seal | More reliable and lower cost than two or four seals used on timed lobe and screw pumps

Compact, Close-Coupled Options | For motor speed operation or with gearmotors

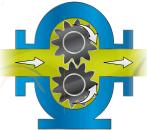


EXTERNAL GEAR PUMPS

WHY? The external gear pump is the ultimate solution for high pressure, low flow pumping.

- Bearing support on both sides of the gears enables differential pressures to 500 PSI (34 BAR), or Intermittent to 2,500 PSI (170 BAR)
- Motor speed operation eliminates cost of speed reducer
- Eliminates lubrication no external axial or radial bearing required in most applications





SG-10 Series™

SG-410 Series™

SG-14 Series™
SG-414 Series™

CMD Series™

ATEX

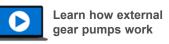
INCLUDED PRODUCTS

- SG-04 Series™
- SG-05 Series™
- SG-405 Series™
- SG-805 Series™
- SG-07 Series™
- SG-407 Series™
- SG-807 Series™

CERTIFICATIONS

NSF UL / CUL CE Note: Not available for all products in all markets.

irkets.



MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

EXTERNALS (HEAD, CASING, BRACKET*)

Ductile iron, carbon-filled PVDF

* SG-10 Series™ and SG-14 Series™ brackets are Cast Iron

INTERNALS (SHAFTS)

Steel, alumina ceramic

INTERNALS (GEARS)

Steel, carbon filled PTFE

BUSHINGS (SLEEVE BEARINGS)

Carbon, silicon carbide, needle bearings

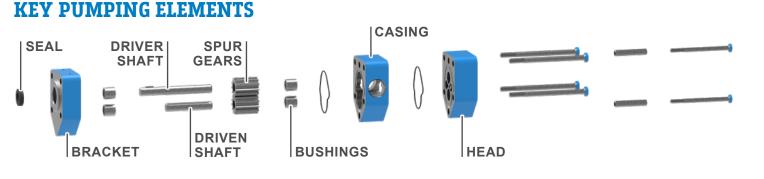
SHAFT SEAL

Lip seal, component mechanical seal, sealless magnetic couplings

TYPICAL APPLICATIONS

Common external gear pump applications include, but are not limited to:

- Various fuel oils & lube oils
- Chemical additive & polymer metering
- Cooking oil filtration / reclamation
- Isocyanates & polyols
- Industrial & mobile hydraulic applications
- Low volume transfer or application



10 VIKING PUMP



The External Gear Pump with spur gears offers higher pressures and unique abilities to supply multi-section specialty pumps with one driver.

ADVANTAGES

Higher Pressure Capabilities | With shaft support on both sides of the gears

Shaft Extension Options | Include keyed, tang and spline

Shaft Seal Options | Including lip seal, component mechanical seal and sealless mag drive options

Compact, Close-Coupled Options | For motor speed operation or with gearmotors

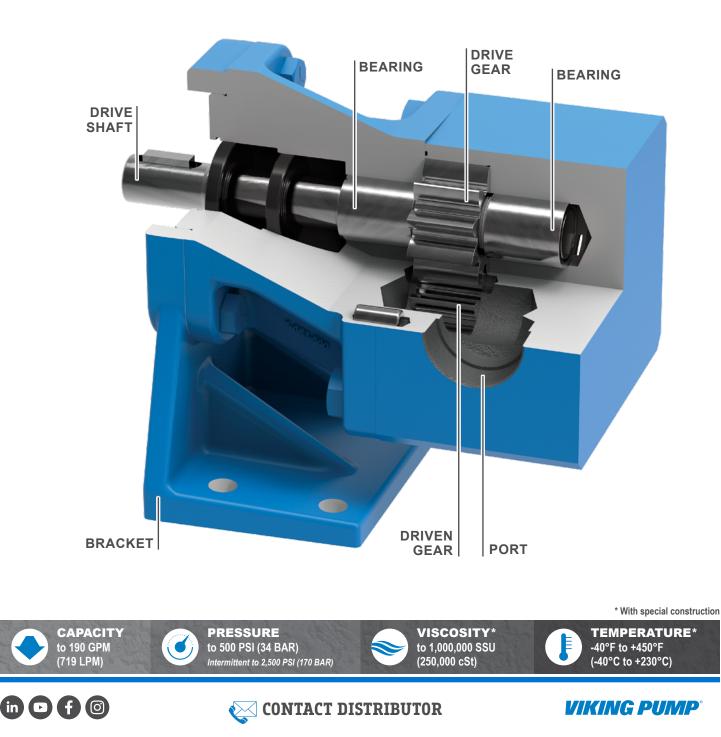
Smooth, Non-Pulsing Flow | For accurate flow measurement

Reliable & Easy to Maintain | With only two moving parts

One Shaft Seal | More reliable and lower cost than two used on timed lobe and screw pumps

Precision Clearances | For low flow metering and dosing applications down to 0.06 GPM (0.23 LPM)

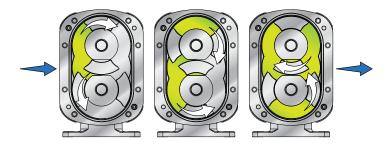
11



CIRCUMFERENTIAL PISTON PUMPS

WHY? Gentle handling of high value shear sensitive liquids across hygienic and industrial applications.

- Wide range of displacements with high pressure capabilities
- Excellent at solids handling
- Low shear characteristics across a wide range of product viscosities



INCLUDED PRODUCTS

- Revolution® Series
- TRA®20 Series
- TRA®10 Series

CERTIFICATIONS





Learn how circumferential piston pumps work

MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

PRODUCT WETTED

Rotorcase, Rotor Retainers, Front Cover: 316 / 316L stainless steel

Rotors: Alloy 808 & 316 / 316L stainless steel

GEARBOX (GEARBOX, MOUNTING FEET & BACK PLATES)

Stainless Steel & cast iron, dependent on pump series & size

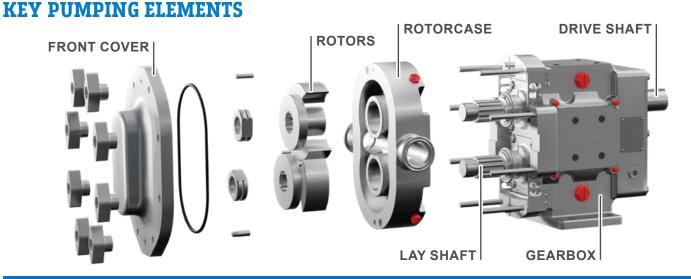
SHAFT SEALS

Single & double mechanical seals, single & double O-ring seals

TYPICAL APPLICATIONS

Common circumferential piston pump applications include, but are not limited to:

- Food products: processed meats, vegetables, sauces & condiments
- Confectionary: chocolate, fondants
- Beverages: alcoholic, soft
- Dairy products: milk, cheese, yogurts
- Personal care products: shampoo, soaps, deodorants, cosmetics
- Pet foods
- Pulp & paper
- Chemicals: lubricants, paints & pigments, polymers





Circumferential Piston Pumps are widely used in many hygienic and industrial fluid handling applications where gentle handling, cleanability and efficiency are paramount.

ADVANTAGES

Shaft Sealing Options | Include single & double mechanical seals, single & double O-ring seals

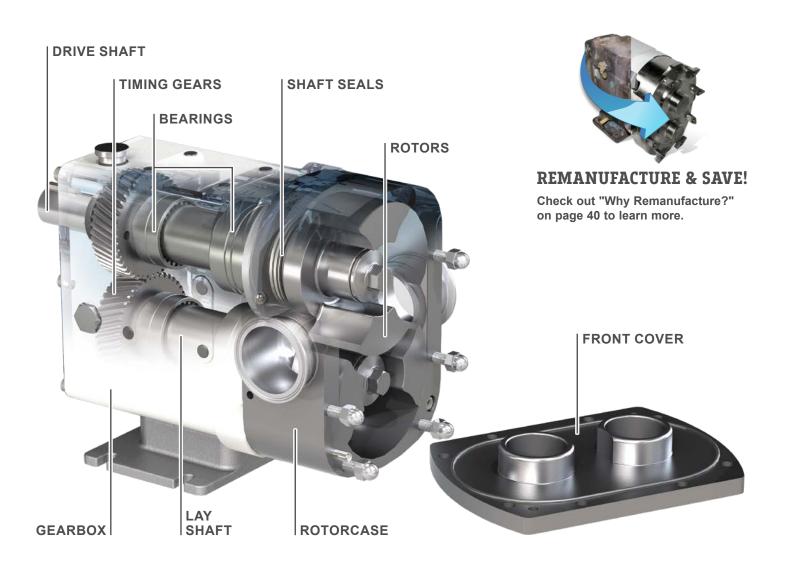
Porting Options | Multiple porting options cover hygienic and industrial threaded, clamp and flanges arrangements

Low Shear Pump Design | Gentle handling of delicate and shear sensitive products

Solids Handling | Will handle a wide range of products including suspended solids

Efficiency | High volumetric efficiency on low viscosity products

Hygienic Designs | Used in a wide range of hygienic industries where cleanliness is important



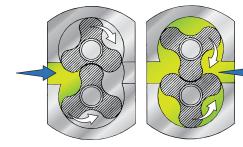


VIKING PUMP[®]

ROTARY LOBE PUMPS

WHY? Gentle handling of high value shear sensitive liquids across hygienic and industrial applications.

- Wide range of displacements
- Good solids handling capabilities
- Low shear characteristics across a wide range of product viscosities



INCLUDED PRODUCTS

- SteriLobe® Series
- Revolution[®] Series
- RTP[®] Series
- Classic+ Series™ / MultiPump® Series

CERTIFICATIONS





Learn how rotary lobe pumps work

KEY PUMPING ELEMENTS

MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

PRODUCT WETTED (ROTORCASE, ROTORS, ROTOR RETAINERS, FRONT COVER)

316L stainless steel, other alloys also available

GEARBOX (GEARBOX, MOUNTING FEET & BACK PLATES)

Cast iron & stainless steel, dependent on pump series & size

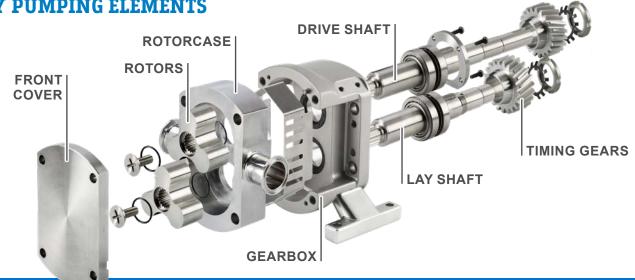
SHAFT SEALS

Single, single flushed & double mechanical seals; single & double O-ring seals; packed glands; composite seals, all dependent on pump series

TYPICAL APPLICATIONS

Common rotary lobe pump applications include, but are not limited to:

- Pharmaceutical & biotech, including vaccines
- Food products: processed meats, vegetables, sauces & condiments
- Confectionary: chocolate, fondants
- Beverages: alcoholic, soft
- Dairy products: milk, cheese, yogurts
- Personal care products: shampoo, soaps, deodorants, cosmetics
- Pet foods
- Pulp & paper
- Chemicals: lubricants, paints & pigments, polymers



VIKING PUMP



ADVANTAGES

Non Contacting Pumping Principle | No metal on metal contact, avoiding pump wear regardless of product viscosity

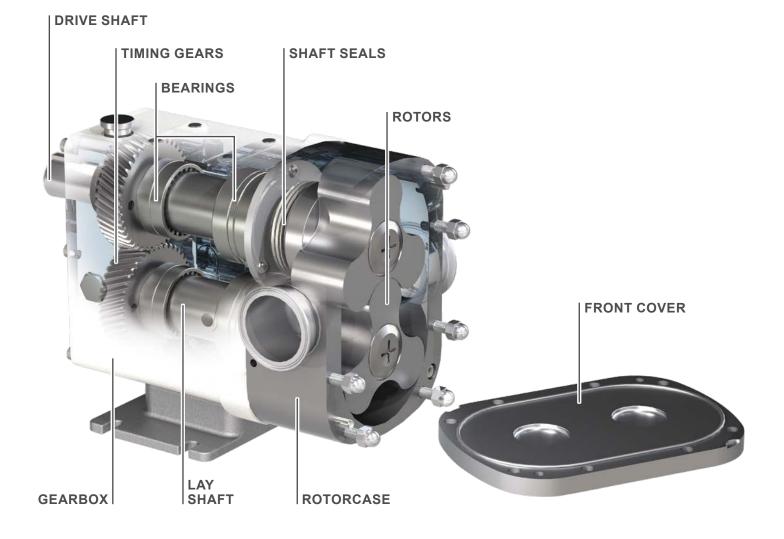
Shaft Sealing Options | Include single, single flushed and double mechanical seals, single and double O-ring Seals and packed glands

Porting Options | Multiple porting options cover hygienic and industrial threaded, clamp and flanges arrangements

Low Shear Pump Design | Gentle handling of delicate and shear sensitive products

Solids Handling | Will handle a wide range of products including suspended solids

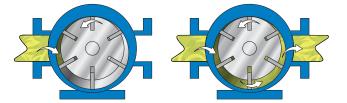
Hygienic Designs | Used in a wide range of hygienic industries where cleanliness is important





VANE PUMPS

WHY? The vane pump is the ideal solution for high pressure, thin liquid applications.



INCLUDED PRODUCTS

LVP Series™

MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

EXTERNALS (HEAD & CASING)

316 stainless steel

INTERNALS (ROTOR & SHAFT)

316 stainless steel

INTERNALS (VANES & PUSH RODS) PEEK

BUSHINGS

Silicon carbide

SHAFT SEAL

Component mechanical seal, cartridge mechanical seal, cartridge triple lip seal

TYPICAL APPLICATIONS

Common vane pump applications include, but are not limited to:

- Acids & alkalis
- Alcohols & solvents
- Aqueous solutions
- Monomers
- Hexane, pentane
- Refined fuels

- Reactor vessel ingredient metering
- Vacuum vessel service
- Suction lift applications
- Long suction or discharge line applications

PRESSURE

to 200 PSI

(14 BAR)



Learn how vane pumps work

ADVANTAGES

Opposite Porting | For easy in-line mounting

Seal Chamber | Accommodates the use of component and cartridge seals

Hardened 316SS Housing with Non-Metallic Pumping Elements | Offer broad chemical compatibility and enhanced application flexibility

Rated to 200 PSI | Even on the thinnest liquids

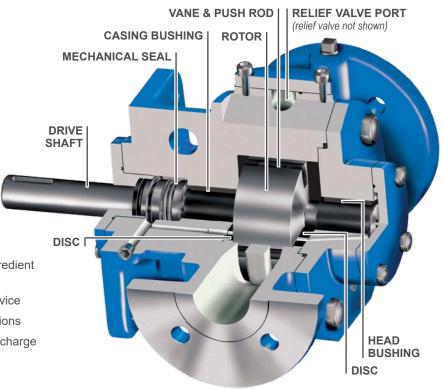
Self-Priming Capabilities | Simplify start-up process

Sliding Vane Design | Self-adjusts for wear to maintain consistent performance

Superior Volumetric & Mechanical Efficiency | For low energy consumption

Internal Relief Valve | Provides over pressure protection

Gauge Ports | Allow simple addition of local or remote monitoring systems





CAPACITY to 160 GPM

(36 m³/h)

VIKING PUMP

VIKINGPUMP.COM

VISCOSITY

to 2,300 SSU

(to 500 cSt)



TEMPERATURE

-60°F to +350°F

(-50°C to +175°C)

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PUMP PRINCIPLE COMPARISON

					Q
CHARACTERISTICS	INTERNAL GEAR	EXTERNAL GEAR	SLIDING VANE	ROTARY LOBE	CIRCUMFERENTIAL PISTON
Self-Priming / Pulls Suction Lift	Yes	Yes	Yes	Yes	Yes
Reversible Flow	Yes	Yes	Yes	Yes	Yes
Run-Dry Capability	Yes, for a short time, if fluid film in pump	Yes, for a short time, if fluid film in pump	Yes, for a short time, if fluid film in pump	Yes, indefinitely with seal flush	Yes, indefinitely with seal flush
Pulsation	Low	Low	Moderate	Moderate	Moderate
Flow Independent of Pressure	Yes	Yes	Yes	Yes	Yes
Soft Solids Handling	Small	No	Small	Yes	Yes
Abrasives Handling	Yes (with hardened parts)	No	No	No	No
Non-Lubricating Fluid Capabilities	Good	Good	Good	Excellent	Excellent
Max. Viscosity Limits (cPs)	1,000,000	1,000,000	25,000	1,000,000	1,000,000
Multi-Phase Flow Capability	Yes	Yes	No	No	No
Min Flow Range (GPM)	0.5	0.001	5	0.1	0.1
Max Flow Range (GPM)	1,500	1,500	2,000	3,000	3,000
Max Pressure (PSI)	250	3,000	150	500	500
Max Temperature (°F)	800	500	225	400	300
Efficiency	High	High	High	High	High
Shear Rate	Low (at low RPMs)	Medium	High	Low	Low
Metering Accuracy	High	High	Medium	High	High
Noise level	Medium	Medium	Medium	Medium	Medium
Sealless	Yes (with optional mag drive)	Yes (with optional mag drive)	No	No	No
Number of Shaft Seals	1	1	1	2 or 4	2 or 4
Sanitary Designs	No	No	No	Yes	Yes
Other Advantages	Simple, two-moving part design, easy to repair	Runs at motor speeds	Vanes compensate for wear to maintain	Clean-in-place and sterilize-in-place	Clean-in-place and sterilize-in-place
	Only one or two bearings run in pumpage	Low flow, high pressure	efficiency	capabilities	capabilities
Other Disadvantages	May require reduced speeds Overhung load	Four bearings run in pumpage	Vane wear	Requires timing gears Overhung load on shafts	Requires timing gears Overhung load on shafts
Relative Initial Cost	on rotor shaft Moderate	Moderate	Moderate	High	High



UNIVERSAL PRODUCT LINE | CAST IRON



FEATURES & BENEFITS

- Rugged and reliable, yet economical
- Widest range of sizes and options available to suit almost any non-corrosive application
- Tightest clearances for high efficiency and excellent priming capability
- Universal stuffing box that accepts packing, O-Pro[®] seals, component seals or cartridge mechanical seals

TYPICAL APPLICATIONS

- Adhesives
- Asphalt & Bitumens
- Paints & Inks
- Polymers
- ResinsChocolatePeanut Butter
- Molasses
- Refined Fuels
- Edible Oils
- Non-Corrosive
- Chemicals

PERFORMANCE

	INTERNAL GEAR MODELS										IFICAT	IONS	
	١	lon-Jacketed	ł		Jacketed			Performance			Standard Ports		
Packing	O-Pro [®] Seal	Mechanical Seal	Behind the Rotor Seal	Mag Drive	Packing	O-Pro [®] Seal	Mechanical Seal	Behind the Rotor Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре
G124A	—	G4124A	G4124B	—	—	—	—	—	1750	8	1.8	1	NPT
H124A	H1124A	H4124A	H4124B	H8124A	H224A	H1224A	H4224A	H4224B	1750	15	3.4	1.5	NPT
HL124A	HL1124A	HL4124A	HL4124B	HL8124A	HL224A	HL1224A	HL4224A	HL4224B	1750	30	6.8	1.5	NPT
AK124A	_	AK4124A	AK4124B	—	_	—	—	—	1450	65	15	2	NPT
AL124A	—	AL4124A	—	—	—	—	—	—	1450	90	20	2	NPT
K124A	K1124A	K4124A	K4124B	K8124A	K224A	K1224A	K4224A	K4224B	780	80	18	2	NPT
KK124A	KK1124A	KK4124A	KK4124B	KK8124A	KK224A	KK1224A	KK4224A	KK4224B	780	100	23	2	NPT
L124A	L1124A	L4124A	L4124B	L8124A	L224A	L1224A	L4224A	L4224B	640	135	31	2	NPT
LQ124A	LQ1124A	LQ4124A	LQ4124B	LQ8124A	LQ224A	LQ1224A	LQ4224A	LQ4224B	640	135	31	2.5	Flange
LL124A	LL1124A	LL4124A	LL4124B	LL8124A	LL224A	LL1224A	LL4224A	LL4224B	640	170	39	3	Flange
LS124A	LS1124A	LS4124A	LS4124B	LS8124A	LS224A	LS1224A	LS4224A	LS4224B	640	200	45	3	Flange
Q124A	Q1124A	Q4124A	Q4124B	Q8124A	Q224A	Q1224A	Q4224A	Q4224B	520	300	68	4	Flange
QS124A	QS1124A	QS4124A	QS4124B	QS8124A	QS224A	QS1224A	QS4224A	QS4224B	520	500	114	6	Flange
M124A	—	M4124A	_	_	M224A	—	M4224A	—	420	420	95	4	Flange
—	—	—	—	—	N324A	N1324A	N4324A	—	350	600	136	6	Flange
_	—	—	—	_	R324A	R1324A	R4324A	—	280	1,100	250	8	Flange
—	_	_	_	—	RS324A	RS1324A	RS4324A	—	280	1,600	363	10	Flange

NOTE: Refer to the catalog section of a particular product series for specific performance details.

SEALING

Behind the Rotor Seal

Component Mechanical Seal

Cartridge Mechanical Seal

Cartridge Triple Lip Seal

Sealless Mag Drive

Packing

O-Pro[®] Seal

PORTING

- Right Angle (90°) (Rotatable Casing)
- Opposite (180°) (Rotatable Casing)
- NPT
- Flanged
- (ANSI/ASME or DIN Compatible)

MOUNTING

Foot Mount

OPTIONS

- Jacketing
- Ductile Iron (126A Series[™], 4126A Series[™])



Refer to "Appendix B" on page 43 for more information on seals and porting.







TEMPERATURE -60°F to +450°F (-50°C to +230°C)

18 VIKING PUMP

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124A (non-jacketed, packing)224A (jacketed, packing)324A (jacketed, packing)

- Handle the highest viscosity liquids, up to 2,000,000 SSU
- Packing requires some minimal leakage for cooling and lubrication



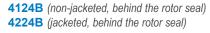
1124A (non-jacketed, O-Pro[®] Barrier seal) **1224A** (jacketed, O-Pro[®] Barrier seal) **1324A** (jacketed, O-Pro[®] Barrier seal)

O-Pro[®] Barrier is a single piece seal that replaces both the shaft bushing and seal, provides easy maintenance for high viscosity and hard to seal liquids



4124A (non-jacketed, mechanical seal) **4224A** (jacketed, mechanical seal) **4324A** (jacketed, mechanical seal)

- Component and cartridge mechanical seals handle lower viscosity liquids with minimal leakage
- The bearing housing opening enables seal maintenance or replacement without removing the pump



- Value-oriented pumps, with a mechanical seal located directly behind the rotor, and a greased bracket bushing not contacting the process liquid, allowing for long life
- Optional hard-faced, pin driven mechanical seals enable operation on abrasive liquids and on viscosities up to 250,000 SSU (55,000 cSt)



8124A (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous and difficult-to-seal liquids

Note: Product images may not reflect standard construction.



UNIVERSAL PRODUCT LINE | STEEL EXTERNALS



FEATURES & BENEFITS

- For refinery and petrochemical applications
- Widest range of sealing options available
- Recommended for extremely high temperatures

TYPICAL APPLICATIONS

- Crude Oil
- Fuels
- Lube Oil

- Basic Petrochemicals
- Asphalts & Bitumens
- Heat Transfer Fluids

PERFORMANCE

		INTE	RNAL G	SPECIFICATIONS								
	Non-Ja	acketed		Jacketed				Performance			Standa	rd Ports
Packing	Mechanical Seal	Mag Drive	API 682 Seal	Packing	Mechanical Seal	API 68	32 Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре
H123A	H4123A	H8123A	H4123AA	H223A	H4223A	H4123AA	—	1750	15	3.4	1.5	Flange
HL123A	HL4123A	HL8123A	HL4123AA	HL223A	HL4223A	HL4123AA	HL4223AX	1750	30	7	1.5	Flange
K123A	K4123A	K8123A	K4123AA	K223A	K4223A	K4123AA	_	780	80	18	2	Flange
KK123A	KK4123A	KK8123A	KK4123AA	KK223A	KK4223A	KK4123AA	KK4223AX	780	100	23	2	Flange
LQ123A	LQ4123A	LQ8123A	LQ4123AA	LQ223A	LQ4223A	LQ4123AA	_	640	135	30	2.5	Flange
LL123A	LL4123A	LL8123A	LL4123AA	LL223A	LL4223A	LL4123AA	_	640	170	39	3	Flange
LS123A	LS4123A	LS8123A	LS4123AA	LS223A	LS4223A	LS4123AA	LS4223AX	640	200	45	3	Flange
Q123A	Q4123A	Q8123A	Q4123AA	Q223A	Q4223A	Q4123AA	Q4223AX	520	300	68	4	Flange
QS123A	QS4123A	QS8123A	QS4123AA	QS223A	QS4223A	QS4123AA	QS4223AX	520	500	114	6	Flange
_	_	_	N4323AA	N323A	N4323A	N4323AA	N4323AX	350	600	136	6	Flange
—	—	—	R4323AA	R323A	R4323A	R4323AA	R4323AX	280	1,100	250	8	Flange
_	_	_	_	RS323A	RS4323A	_	_	280	1,600	363	10	Flange

NOTE: Refer to the catalog section of a particular product series for specific performance details.

PORTING

- Right Angle (90°) (Rotatable Casing)
- Opposite (180°) (Rotatable Casing)
- Flanged (ANSI/ASME or DIN Compatible)

SEALING

- Packing
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- API 682 Seal
- Sealless Mag Drive

MOUNTING

Foot Mount

OPTIONS

- Jacketing
- Low temperature carbon steel down to -50°F (-45°C)

DRIVES

Refer to "Appendix A" on page 42 for more information on drives.

Refer to "Appendix B" on page 43 for more information on seals and porting.





TEMPERATURE -20°F to +800°F (-30°C to +430°C)











123A (non-jacketed, packing) **223A** (jacketed, packing)

- Handle the highest viscosity liquids, up to 2,000,000 SSU
- Packing requires some minimal leakage for cooling and lubrication





4123A (non-jacketed, mechanical seal) **4223A** (jacketed, cartridge seal)

- Component and cartridge mechanical seals handle lower viscosity liquids with minimal leakage
- The bearing housing opening enables seal maintenance or replacement without removing the pump





4223AA (API 682 Seal, API 676 Compliant w/ minor Exceptions) **4323AA** (API 682 Seal, API 676 Compliant w/ minor Exceptions)

- Bracket features enlarged bearing housing to fit API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- Conforms to API 676 3rd Edition, with exceptions
- NDE and performance testing required by API 676 is optional



4223AX (API 682 Seal, API 676 Full Compliance) 4323AX (API 682 Seal, API 676 Full Compliance)

- Conforms fully to API 676 3rd Edition, no exceptions
- API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- All NDE and performance testing required by API 676 is included, as standard



8123A (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous and difficult-to-seal liquids

Note: Product images may not reflect standard construction.



CONTACT DISTRIBUTOR



UNIVERSAL PRODUCT LINE | STAINLESS STEEL



FEATURES & BENEFITS

- For corrosion resistance over a wider pH range
- Non-galling gear materials available for handling thin liquid applications

TYPICAL APPLICATIONS

- Soaps, Detergents & Surfactants
- Acids & Caustics
- Water-Based Liquids

- All stainless steel construction or economical 724 Series[™] & 4724 Series[™]
- Vegetable Oil
- General Chemicals

PERFORMANCE

	INTERNAL GEAR MODELS										IFICAT	IONS	
	١	Non-Jacketed	I		Jacketed			Performance			Standard Ports		
Packing	O-Pro [®] Seal	Mechanical Seal	Mag Drive	Packing	Packing	O-Pro [®] Seal	Mechanical Seal	Behind the Rotor Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре
—	—	—	_	_	F724*	_	—	F4724*	1750	1.5	0.3	0.5	NPT
—	_	—	—	—	FH724*		_	FH4724*	1750	3	0.7	0.75	NPT
—	—	—	—	_	G724*	—	—	G4724*	1150	5	1	1	NPT
H127A	H1127A	H4127A	H8127A	H227A	H724**	H1227A	H4227A	H4724**	1750	15	3.4	1.5	Flange
HL127A	HL1127A	HL4127A	HL8127A	HL227A	HL724**	HL1227A	HL4227A	HL4724**	1750	30	6.8	1.5	Flange
K127A	K1127A	K4127A	K8127A	K227A	K724**	K1227A	K4227A	K4724**	780	80	18	2	Flange
KK127A	KK1127A	KK4127A	KK8127A	KK227A	KK724**	KK1227A	KK4227A	KK4724**	780	100	23	2	Flange
_	_	_	_	_	L724**	_	_	L4724**	420	90	20	2	NPT
LQ127A	LQ1127A	LQ4127A	LQ8127A	LQ227A	LQ724	LQ1227A	LQ4227A	LQ4724	640	135	30	2.5	Flange
LL127A	LL1127A	LL4127A	LL8127A	LL227A	LL724	LL1227A	LL4227A	LL4724	640	170	39	3	Flange
LS127A	LS1127A	LS4127A	LS8127A	LS227A	_	LS1227A	LS4227A	_	640	200	45	3	Flange
Q127A	Q1127A	Q4127A	Q8127A	Q227A	_	Q1227A	Q4227A	_	520	300	68	4	Flange
QS127A	QS1127A	QS4127A	QS8127A	QS227A	_	QS1227A	QS4227A	—	520	500	114	6	Flange
_	_	_	_	N327A	_	N1327A	N4327A	_	350	600	136	6	Flange
—	—	—	—	R327A	_	R1327A	R4327A	—	280	1,100	250	8	Flange
_	_	_	—	RS327A	_	RS1327A	RS4327A	_	280	1,600	363	10	Flange

* Stuffing box seal, non-jacketed ** These 724 & 4724 models are standard with NPT ports.

NOTE: Refer to the catalog section of a particular product series for specific performance details.

PORTING

- Right Angle (90°) (Rotatable Casing)
- Opposite (180°) (Rotatable Casing)
- NPT
- Flanged
- (ANSI/ASME or DIN Compatible)

CAPACITY

to 1,600 GPM

(363 m³/h)

- SEALING
- Packing
- O-Pro[®] Seal
- Behind the Rotor Seal
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- API 682 Seal
- Sealless Mag Drive

Refer to "Appendix B" on page 43 for more information on seals and porting.



Foot Mount

OPTIONS

Jacketing









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127A (non-jacketed, packing) **227A** (jacketed, packing)

- Handle the highest viscosity liquids, up to 2,000,000 SSU
- Packing require some minimal leakage for cooling and lubrication

1127A (non-jacketed, O-Pro[®] Guard seal) 1227A (jacketed, O-Pro[®] Guard seal) 1327A (jacketed, O-Pro[®] Guard seal)

- O-Pro[®] Guard provides a robust sealing solution for high viscosity and hard to seal liquids
- O-Pro[®] Guard rebuildable design offers minimal downtime and low cost

4127A (non-jacketed, mechanical seal) **4227A** (jacketed, cartridge seal)

- Component and cartridge mechanical seals handle lower viscosity liquids with minimal leakage
- The bearing housing opening enables seal maintenance or replacement without removing the pump

724 (jacketed, packing)

- 4724 (jacketed, mechanical seal)
- Non-wetted cast iron mounting bracket
- Behind the rotor mechanical seal
- Jacketed bracket standard
- Most economical stainless steel series

4227AA (API 682 Seal, API 676 Compliant w/ minor Exceptions) **4327AA** (API 682 Seal, API 676 Compliant w/ minor Exceptions)

- Bracket features enlarged bearing housing to fit API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- Conforms to API 676 3rd Edition, with exceptions
- NDE and performance testing required by API 676 is optional

4227AX (API 682 Seal, API 676 Full Compliance) 4327AX (API 682 Seal, API 676 Full Compliance)

- Conforms fully to API 676 3rd Edition, no exceptions
- API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- All NDE and performance testing required by API 676 is included, as standard

8127A (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous, corrosive and difficult-to-seal liquids

Note: Product images may not reflect standard construction.



CONTACT DISTRIBUTOR



MOTOR SPEED PRODUCT LINE DUCTILE IRON



FEATURES & BENEFITS

- Needle bearings provide high pressure capabilities, sleeve bearing options available
- Close-coupled motor mount or foot bracket options to match space or motor requirements

TYPICAL APPLICATIONS

- Pipeline Injection
- Pipeline Sampling
- Oil Polishing

Double pump configurations offer two flow rates operating from a single power source, reducing equipment costs

High Pressure Lubrication

Hydraulics

PERFORMANCE

EXTERNAL GEAR MODELS SPECIFICATIONS Nominal Flow Range At 1750 RPM **Continuous Pressure** Intermittent Pressure **Standard Ports** Mag Drive BAR Lip Seal Mechanical Seal GPM LPM PSI PSI BAR Size, Inches SG-0417 0.06 0.23 500 34 750 52 0.375 SG-0418 0.14 0.53 500 34 1,250 86 0.375 SG-0425 0.18 0.68 500 34 1,500 103 0.375 _ SG-0470 0.5 1.89 500 34 1.500 103 0.375 SG-0518 ① SG-40518 SG-80518 0.7 26 500 34 1.500 103 0.5 SG-0525 ① SG-40525 SG-80525 3.8 500 34 2,500 172 0.5 1 34 172 SG-0535 ① SG-40535 SG-80535 1.4 5.3 500 2,500 0.5 SG-0550 ① SG-40550 SG-80550 7.6 500 34 2,500 172 0.5 2 10.6 124 0.5 SG-0570 ① SG-40570 SG-80570 28 500 34 1,800 SG-40510 SG-0510 ① SG-80510 4 15.1 500 34 1,250 86 0.5 SG-0514 ① SG-40514 900 0.75 SG-80514 56 21.2 500 34 62 SG-0519 ① SG-40519 SG-80519 7.6 28.8 200 14 400 28 0.75 SG-0528 ① SG-40528 SG-80528 11.2 42.4 100 7 200 14 0.75 SG-0729 SG-40729 2.8 10.6 34 2,500 172 500 1 SG-0741 SG-40741 SG-80741 4 15.1 500 34 2,500 172 1 SG-0758 SG-40758 SG-80758 5.6 212 500 34 2,500 172 1 30.3 34 SG-40782 SG-80782 8 500 2,250 155 SG-0782 1 SG-0711 SG-40711 SG-80711 11.2 42.4 500 34 1,600 110 1 34 SG-0716 SG-40716 SG-80716 16 61 500 1,100 75 SG-40722 SG-80722 22 83 500 34 1,600 110 1.50 X 1.25 SG-0722 SG-0732 SG-40732 SG-80732 32 121 500 34 1,100 75 1.50 X 1.25 SG-1013 SG-41013 25 95 500 34 1,900 131 15 189 SG-1026 SG-41026 50 500 34 1,000 69 2 SG-1420 SG-41420 70 2 265 500 34 1 100 76 SG-1436 SG-41436 125 473 290 20 580 40 3 SG-1456 SG-41456 190 719 190 13 380 26 4

Integral pressure relief valve standard (single pump).

① SG-05 models available with UL 343 listing for fuel oil.

PORTING SEALING

- Opposite (180°) ■ NPT

- SAE O-Ring SAE Flange

24

- Lip Seal Component Mechanical Seal
- Sealless Mag Drive

Refer to "Appendix B" on page 43 for more information on seals and porting.



Vertical Mount

MOUNTING

Motors (Close-Coupled)

Foot Mount (with Footed Bracket)

Motor Mount Bracket to IEC & NEMA

OPTIONS DRIVES

NOTE: Refer to the catalog section of a particular product series for specific performance details.

Double Pump



TEMPERATURE -40°F to +450°F (-40°C to +230°C)

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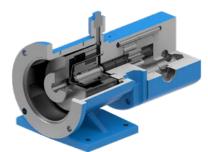


SG-05 (lip seal)

- Wide range of viscosities
- Economical option for clean lubricating liquids
- I Needle bearings as standard



- SG-407 (mechanical seal)
 Used for thin liquids
- Carbon graphite bearings as standard



SG-807 (sealless mag drive)

Sealless technology to eliminate seal leakage at pressures to 500 PSI (34 Bar)



ALSO AVAILABLE:

CMD Series[™] Composite Mag Drive

Non-metallic external gear design for corrosive and difficult to seal liquids.

MODELS		SPECIFICATIONS									
	Nominal Flow At 1450 RPM				Pres	sure	Standard Ports				
Sealless Mag Drive	GPM	LPM	GPM	LPM	PSI	BAR	Size, Inches	Туре			
CMD-E02	0.34	1.3	0.4	1.5	150	10	1/4	NPT			
CMD-E05	1.3	4.9	1.5	5.8	150	10	3/8	NPT			
CMD-E12	2.6	10	3.2	12.1	150	10	3/4	NPT			
CMD-E25	0.5	21	6.5	24.6	150	10	1	Flange			
CMD-E75	16.5	62.5	20	75	150	10	11/2	Flange			

In-line valve sold separately.

Note: Product images may not reflect standard construction.



MOTOR SPEED PRODUCT LINE CAST IRON



FEATURES & BENEFITS

- I The most compact gear pump series available to fit tight space constraints
- Vertical mounting options to further reduce the unit footprint

TYPICAL APPLICATIONS

- Refined Fuels
- Lube Oils
- Rotating Equipment Lubrication
- Mobile Pump Carts

- High speed operation for the most economical pump option for thin to moderate viscosity applications
- Glycols
- Pipeline Sampling
- Isocyanates

PERFORMANCE

	INTERN	IAL GEAR	MODELS	SPECIFICATIONS						
Moto	or Mount	Foot Mount	Bracket	Mount	Per	formance		Standard	Standard Ports	
Lip Seal	Mechanical Seal	Mechanical Seal	Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре	
G75	G475	G4195	G495	_	1750	8	1.8	1	NPT	
GG75	GG475	GG4195	GG495	GG895	1750	10	2	1	NPT	
H75	H475	H4195	H495	_	1750	15	3	1.5	NPT	
HJ75	HJ475	HJ4195	HJ495	HJ895	1750	20	5	1.5	NPT	
HL75	HL475	HL4195	HL495	HL895	1750	30	7	1.5	NPT	
_	_	AS4195	AS495	AS895	1750	55	12	2.5	NPT	
—	_	AK4195	AK495	AK895	1750	85	19	2.5	NPT	
_	_	AL4195	AL495	AL895	1750	115	26	3	NPT	
—	_	KE4195*	_	_	1750	150	34	4	Flange	
_	_	KKE4195*	_	_	1750	205	47	4	Flange	
—	_	LQE4195*	_	_	1150	235	53	4	Flange	
_	_	LSE4195*	_	_	1150	350	80	4	Flange	
—	_	Q4195	_	_	750	460	104	6	Flange	
_	_	QS4195	_	_	640	580	132	6	Flange	

* KE, KKE, LQE and LSE sizes have a foot mount and flange for M-Drive Bracket. NOTE: Refer to the catalog section of a particular product series for specific performance details.

PORTING

- Opposite (180°)
- NPT
- Flanged (ANSI/ASME or DIN Compatible)High Pressure Flanges

(ANSI 250# or DIN PN25)

- SEALING I Lip Seal
 - Behind the Rotor Seal
 - Balanced Seal
 - Sealless Mag Drive

MOUNTING

- Motor Mount
- Foot Mount
- Vertical Mount

DRIVES M D R P Refer to "Appendix A" on page 42 for more information on drives.

Refer to "Appendix B" on page 43 for more information on seals and porting.



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4195 (foot mount, behind the rotor seal)

- Behind the rotor mechanical seal with antifriction bracket bearing for motor speed operation
- Optional balanced seal for high inlet pressures
- NPT or Class 125 flange ports with optional Class 250 or DIN PN-25/40 flanges



(Pump shown mounted to a motor)



- **495** (bracket mount, behind the rotor seal)
- Flanged bracket for bell housing to close couple NEMA C or IEC B-14 motors
- Eliminates shaft alignment, easy mounting on equipment frames
- KE, KKE, LQE, LSE 4195 models have both foot for long-couple and bracket flange for close coupling



(Pump shown mounted to a motor)



475 (motor mount, behind the rotor seal) **75** (motor mount, lip seal)

- NEMA C-face mount for easy installation and a small footprint
- Simplified rotor retention system, economical for medium duty applications
- IEC mount option available



895 (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous and difficult-to-seal liquids
- Optional high pressure canister for inlet pressures up to 1,500 PSI (103 BAR)

Note: Product images may not reflect standard construction.



CONTACT DISTRIBUTOR

VIKING PUMP[®] 27

MOTOR SPEED PRODUCT LINE STEEL EXTERNALS



FEATURES & BENEFITS

- Close coupled to fit tight space constraints with vertical mount options for reduced unit footprint
- High speed operation for economical steel pump offering

TYPICAL APPLICATIONS

- Pipeline Sampling
- Compressor Lubrication

High working pressures for compressor lubrication and pipeline sampling applications

Fuels

Lube Oils

Class 300 flanges standard on all sizes and models

PERFORMANCE

INTERI	NAL GEAR M	ODELS		SPECIFICATIONS							
Foot Mount	Foot Mount Bracket Mount			Performance		Standard	d Ports				
Mechanical Seal	Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре				
GG4193	GG493	GG893	1750	10	2.3	1	Flange				
HJ4193	HJ493	HJ893	1750	20	4.5	1.5	Flange				
HL4193	HL493	HL893	1750	30	6.8	1.5	Flange				
AS4193	AS493	AS893	1750	55	12	3	Flange				
AK4193	AK493	AK893	1750	85	19	3	Flange				
AL4193	AL493	AL893	1750	115	26	3	Flange				

NOTE: Refer to the catalog section of a particular product series for specific performance details.

PORTING

- Opposite (180°)
- Flanged (ANSI/ASME or DIN Compatible)

SEALING

- Behind the Rotor Seal
- Balanced Seal
- Sealless Mag Drive

MOUNTING

- Motor Mount
- Foot Mount
- Vertical Mount

DRIVES



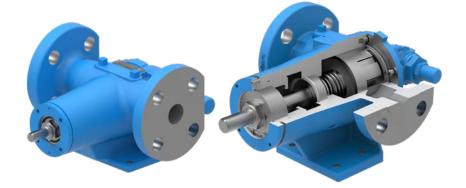
Refer to "Appendix B" on page 43 for more information on seals and porting.











4193 (foot mount, behind the rotor seal)

- Behind the rotor mechanical seal with antifriction bracket bearing for motor speed operation
- Optional balanced seal for high inlet pressures
- Class 300 flange ports
- Conforms to API 676, with exceptions

493 (bracket mount, behind the rotor seal)

- Flanged bracket for bell housing to close couple NEMA C or IEC B-14 motors
- Eliminates shaft alignment, easy mounting on equipment frames

893 (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous and difficult-to-seal liquids
- Optional high pressure canister for inlet pressures up to 1,500 PSI (103 BAR)

Note: Product images may not reflect standard construction.



MOTOR SPEED PRODUCT LINE STAINLESS STEEL



FEATURES & BENEFITS

- For corrosion resistance over a wider pH range
- Compact gear pump series to fit tight space constraints

TYPICAL APPLICATIONS

- Water-Based Liquids
- Acids & Caustics

Non-galling gear materials standard for handling thin liquid applications

- Additives
- General Chemical

PERFORMANCE

INTERNAL GI	EAR MODELS		SPECIFICATIONS							
Foot Mount	Bracket Mount		Performance		Standard Ports					
Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре				
GG4197	GG897	1750	10	2.3	1	Flange				
HJ4197	HJ897	1750	20	4.5	1.5	Flange				
HL4197	HL897	1750	30	6.8	1.5	Flange				
AS4197	AS897	1150	35	8	3	Flange				
AK4197	AK897	1150	50	11	3	Flange				
AL4197	AL897	1150	75	17	3	Flange				

NOTE: Refer to the catalog section of a particular product series for specific performance details.

VANE MODELS		S	PECIFICATION	IS	
Foot Mount		Performance		Standard	l Ports
Mechanical Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре
LVP40017	1750	20	4.5	1.5	Flange
LVP41017	1750	20	4.5	1.5	Flange
LVP40027	1750	40	9	1.5	Flange
LVP41027	1750	40	9	1.5	Flange
LVP41057	1150	80	18	2	Flange
LVP41087	950	100	23	2	Flange
LVP41197	520	125	28	3	Flange
LVP41237	520	160	36	3	Flange

Integral pressure relief valve is standard.

NOTE: Refer to the catalog section of a particular product series for specific performance details.

PORTING

- Opposite (180°)
- Flanged
- (ANSI/ASME or DIN Compatible)

SEALING

- Behind the Rotor Seal
- Component Mechanical Seal (LVP)
- Cartridge Mechanical Seal (LVP)
- Cartridge Triple Lip Seal (LVP)
- Sealless Mag Drive

Refer to "Appendix B" on page 43 for more information on seals and porting.

MOUNTING

Motor MountFoot Mount

DRIVES



M = LVP40017 & LVP 40027 only Refer to "Appendix A" on page 42 for more information on drives.













4197 (foot mount, behind the rotor seal)

- Behind the rotor mechanical seal with antifriction bracket bearing for motor speed operation
- PTFE wedge-type mechanical seal standard for corrosive liquids
- Class 150 flange ports

897 (sealless mag drive)

- Eliminates the shaft seal to provide the highest level of liquid and vapor containment
- All liquid and vapor is hermetically sealed in the pump
- Used especially for hazardous, corrosive and difficult-to-seal liquids
- Optional high pressure canister for inlet pressures up to 1,500 PSI (103 BAR)



LVP (mechanical seal)

- Vane pump design offers ANSI or DIN flanges, and IEC or NEMA motor mounts to conform to international standards for enhanced application flexibility
- High pressure and high efficiency with thin liquids
- 20 minute inline vane replacement reduces scheduled downtime
- Harder components than other vane pumps extend pump life
 - 62 Rockwell C surface-hardened one-piece, 316 stainless steel casing
 - Silicon carbide sleeve bearings
 - Chrome oxide shaft coating

Note: Product images may not reflect standard construction.



CIRCUMFERENTIAL PISTON PRODUCT LINE | STAINLESS STEEL



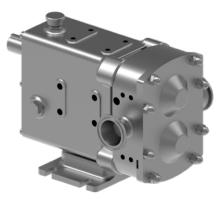
FEATURES & BENEFITS

- Low shear pump design for gentle handling of delicate and shear sensitive products
- Handles a wide range of products including suspended solids

TYPICAL APPLICATIONS

- Dairy
- Bakery
- Meat Processing
- Foods
- Beverage

- High volumetric efficiency on low viscosity products
- Used in a wide range of hygienic industries where cleanliness is important
- Confectionary
- Personal Care
- Pharmaceutical
- Paints
- Chemical



Revolution® Series



PORTING

- Hygienic port options: Tri-clamp, DIN 11864, DIN 11851 Male, SMS Male (Revolution[®])
- Industrial port options: ASA/ANSI 150 lb. or 300 lb. RF, DIN 2633, BSP Male, NPT Male (Revolution[®])
- Complete range of hygienic clamp, screw, flange & industrial screw connections (TRA)
- Tri-clamp, flanged, DIN, IMDA, NPT, BSP, etc. (TRA)
- Rectangular flange/hopper inlet available on select sizes

Refer to "Appendix B" on page 43 for more information on seals and porting.



VIKING PUMP

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SEALING

- Single mechanical
- Double mechanical w/ flushSingle O-ring
 - (Revolution[®], TRA[®]10)
- Double O-ring w/ flush (Revolution[®], TRA[®]10)



TRA®20 Series



ROTORS

- Non-galling WFT 808[®] nickel alloy standard
- Optional clearances: front face, hot, high temperature/ high viscosity (chocolate)
- Twin wing rotors standard, single wing rotors optional (TRA)



TRA®10 Series



GEAR BOX

Stainless steel

_

PRESSURE

to 500 PSI

(34 BAR)



VISCOSITY

to 2,000,000 SSU

(440,000 cSt)



TEMPERATURE

to +300°F

(to +150°C)



PERFORMANCE

REVOLUTION[®] MODELS										
		Max Ca	apacity	Displac	ement	Max Pr	essure	Max Speed	Standard Ports	
Size	Model	GPM	m³/h	USG/rev.	l/rev.	PSI	BAR	RPM	In	mm
2	R0150X	11	2.6	0.014	0.055	305	21	800	1.5	38.1
2	R0180P	23	5.3	0.029	0.11	203	14	800	1.5	38.1
3	R0200X	34	8	0.04	0.16	305	21	800	1.5	38.1
3	R0300X	48	11	0.06	0.23	247	17	800	1.5	38.1
3	R0400X	62	14	0.08	0.29	203	14	800	2	50.8
4	R0450X	67	15	0.1	0.42	450	31	600	2	50.8
4	R0600P	92	21	0.2	0.58	305	21	600	2.5	63.5
4	R0800X	122	28	0.2	0.77	247	17	600	2.5	63.5
4	R1300X	159	36	0.3	1	203	14	600	3	76.2
5	R1800X, R1830X	231	53	0.4	1.46	450	31	600	3	76.2
5	R2200X, R2230X	313	71	0.5	1.98	305	21	600	4	101.6
5	R2600P, R2630P	399	91	0.7	2.52	203	14	600	4	101.6

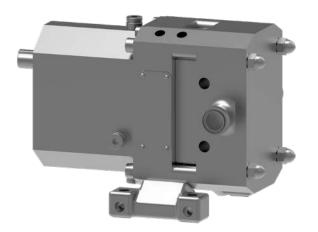
TRA°20 & TRA°10 MODELS										
		Max C	apacity	Displac	ement	Max Pr	ressure	Max Speed	Standard Ports	
Series	Model	GPM	m³/h	USG/rev.	l/rev.	PSI	BAR	RPM	In	mm
TRA [®] 20	0060	8	1.8	0.008	0.03	300	21	1000	1	25.4
TRA [®] 20	0150	11	2.5	0.014	0.052	250	17	800	1.5	38
TRA [®] 20	0180	20	4.5	0.029	0.108	200	14	700	1.5	38
TRA®20	0300	36	8.2	0.06	0.227	250	17	600	1.5	38
TRA®20	0450	58	13.2	0.096	0.366	450	31	600	2	51
TRA®20	0600	90	20.4	0.15	0.568	300	21	600	2.5	64
TRA®20	1300	150	34.1	0.25	0.946	200	14	600	3	76
TRA®20	1800	230	52.2	0.383	1.45	450	31	600	3	76
TRA®20	2100	300	68.1	0.5	1.89	500	34	600	4	102
TRA®20	2200	310	70.4	0.516	1.95	300	21	600	4	102
TRA®20	3200	450	102	0.75	2.85	300	21	600	6	152
TRA®10	0060	6	1.3	0.008	0.03	200	14	800	1.5	38
TRA®10	0150	9	2	0.014	0.052	200	14	700	1.5	38
TRA®10	0180	17	3.8	0.03	0.11	200	14	600	1.5	38
TRA®10	0300	36	8.2	0.06	0.23	200	14	600	1.5	38
TRA®10	0450	59	13.3	0.1	0.38	400	27	600	2	51
TRA®10	0600	90	20.4	0.15	0.58	200	14	600	2.5	64
TRA®10	1300	150	34.1	0.25	0.96	200	14	600	3	76
TRA®10	2200	310	70.4	0.52	1.98	200	14	600	4	102
TRA®10	3200	450	102	0.75	2.85	200	14	600	6	152

	RECTANGULAR FLANGE MODELS											
		Max Capacity Displacement			Max P	Max Pressure Max Speed		Inlet	Outlet			
Series	Model	GPM	m³/h	USG/rev.	l/rev.	PSI	BAR	RPM	In	mm	In	mm
Revolution [®]	0340	11	48	0.06	0.23	247	17	800	1.85 x 6.81	47 x 175	2	50.8
Revolution ®	0640	21	92	0.2	0.58	305	21	600	2.36 x 8.90	60 x 226	2.5	63.5
Revolution [®]	1340	36	159	0.3	1	203	14	600	3.19 x 9.29	81 x 236	3	76.2
Revolution ®	2240	71	313	0.5	1.98	305	21	600	4.06 x 11.22	103 x 285	4	101.6
TRA®20	0340	24	5.4	0.06	0.23	200	14	400	1.75 x 6.75	44.50 x 171.45	1.5	38.1
TRA®20	0640	60	13.6	0.15	0.57	200	14	400	2.24 x 8.82	56.90 x 224.03	2.5	57.15
TRA®20	1340	100	22.7	0.25	0.95	200	14	400	2.97 x 9.25	75.44 x 234.95	3	76.2
TRA®20	2240	200	45.4	0.52	1.95	200	14	400	3.87 x 11.00	98.30 x 279.40	4	101.6
TRA®10	0340	24	5.4	0.06	0.22	200	14	400	1.75 x 6.75	44.50 x 171.45	2	50.8
TRA®10	0640	60	13.6	0.15	0.57	200	14	400	2.24 x 8.82	56.90 x 224.03	2.5	57.2
TRA®10	1340	100	22.7	0.25	0.96	200	14	400	2.97 x 9.25	75.44 x 234.95	3	76.2
TRA®10	2240	200	45.4	0.52	1.97	200	14	400	3.87 x 11.00	98.30 x 279.40	4	101.6





ROTARY LOBE PRODUCT LINE | STAINLESS STEEL



FEATURES & BENEFITS

- Low shear pump design for gentle handling of delicate and shear sensitive products
- Handles a wide range of products including suspended solids

TYPICAL APPLICATIONS

- Pharmaceutical
- Personal Care
- Foods
- Beverage
- Dairy

- High volumetric efficiency on low viscosity products
- Used in a wide range of hygienic industries where cleanliness is important

Confectionary

- Chemical
- High Fructose Corn Syrup
- Vinegar
- Vegetable Oils



SteriLobe® Series



PORTING

- Complete range of hygienic clamp, screw, flange & industrial screw connections (C+/MP)
- Tri-clamp, flanged, DIN, IMDA, NPT, BSP, etc. (C+/MP)
- Hygienic port options: Tri-clamp, DIN 11864, DIN 11851 Male, SMS Male (Revolution[®])
- Industrial port options: ASA/ANSI 150 lb. or 300 lb. RF, DIN 2633, BSP Male, NPT Male (Revolution[®])
- Rectangular flange/hopper inlet available on select sizes (Rev)
- Camlock, ACME & DIN 11851 ports available (RTP[®])

VIKING PUMP

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Revolution® Series

SEALING

- Single O-ring (C+/MP, Rev, RTP®)
- Single mechanical (C+/MP, Rev)Single mechanical with flush or
- quench (C+/MP)
- Double O-ring (RTP®)
- Double O-ring with flush (Rev)
- Double mechanical with flush (C+/MP, Rev)
- Gland packing (C+/MP)
- Gland packing with lantern ring with flush (C+/MP)
- Mechanical Seals (RTP®)



Classic+ / MultiPump® Series



ROTORS

- 316L standard
- Optional clearances: Different temperature clearance bands available dependent on application and cleaning requirements



RTP[®] Series



GEAR BOX

- Stainless Steel, Powder coated or painted cast Iron dependent on series and model
- Oil lubrication standard, grease optional (Revolution[®])
- Ingress protected and sealed lightweight aluminum gearbox (RTP[®])

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Refer to "Appendix B" on page 43 for more information on seals and porting.





PERFORMANCE

ROTARY LOBE MODELS										
	Max Capacity Displacement						essure	Max Speed	Standa	ard Ports
Series	Model	GPM	m³/h	USG/rev.	l/rev.	PSI	BAR	RPM	In	mm
SteriLobe®	SLAS	14	3.18	0.0103	0.039	218	15	1400	.75	19
SteriLobe®	SLAL	22	5	0.0156	0.059	145	10	1400	1	25
SteriLobe®	SLBS	25.7	5.8	0.0214	0.081	218	15	1200	1	25
SteriLobe®	SLBL	38.7	8.8	0.0322	0.122	145	10	1200	1.5	38
SteriLobe®	SLCS	53.6	12.2	0.0446	0.169	218	15	1200	1.5	38
SteriLobe®	SLCL	80.5	18.3	0.0671	0.254	145	10	1200	2	50
SteriLobe®	SLDS	93	20.5	0.093	0.352	218	15	1000	1.5	38
SteriLobe®	SLDL	139.5	31.7	0.1395	0.528	145	10	1000	2	50
SteriLobe®	SLES	154.7	35.1	0.1934	0.732	218	15	800	2	50
SteriLobe®	SLEL	232.3	52.8	0.2903	1.099	145	10	800	3	76
SteriLobe®	SLFS	241.5	54.8	0.4026	1.542	218	15	600	3	76
SteriLobe®	SLFL	362.2	82.3	0.6036	2.285	145	10	600	4	101
SteriLobe®	SLGS	502.5	114.1	0.8374	3.17	218	15	600	4	101
SteriLobe®	SLGL	753.5	171.1	1.2559	4.754	145	10	600	6	152
Revolution®	(Size 2) R0150X	16	3.6	0.016	0.061	218	15	1000	1.5	38.1
Revolution®	(Size 2) R0160L	22	4.9	0.021	0.081	145	10	1000	1.5	38.1
Revolution®	(Size 2) R0180L	29	6.6	0.029	0.11	102	7	1000	1.5	38.1
Revolution ®	(Size 3) R0200X	47	11	0.05	0.18	203	14	1000	1.5	38.1
Revolution®	(Size 3) R0300X	66	15	0.07	0.25	131	9	1000	1.5	38.1
Revolution®	(Size 3) R0400X	86	20	0.09	0.33	102	7	1000	2	50.8
Revolution®	(Size 4) R0450X	95	22	0.1	0.45	218	15	800	2	50.8
Revolution®	(Size 4) R0800X	173	39	0.2	0.82	131	9	800	2.5	63.5
Revolution ®	(Size 4) R1300X	226	51	0.3	1.07	102	7	800	3	76.2
Revolution®	(Size 5) R1800X	246	56	0.4	1.55	218	15	600	3	76.2
Revolution ®	(Size 5) R2200X	333	76	0.6	2.1	116	8	600	4	101.6
Classic+ / MultiPump®	10/0005/12	17.1	3.9	0.0122	0.046	174	12	1400	1	25
Classic+ / MultiPump®	10/0008/08	30.7	7	0.0219	0.083	115	8	1400	1 1/2	38
Classic+ / MultiPump®	10/0011/05	41	9.3	0.0293	0.111	70	5	1400	1 1/2	38
Classic+ / MultiPump®	20/0020/12	53.4	12.1	0.0534	0.202	174	12	1000	1 1/2	38
Classic+ / MultiPump®	20/0031/07	82.7	18.8	0.0827	0.313	100	7	1000	2	50
Classic+ / MultiPump®	30/0069/12	137.6	31.2	0.1834	0.694	174	12	750	2	50
Classic+ / MultiPump®	30/0113/07	222.9	50.6	0.2972	1.125	100	7	750	3	76
Classic+ / MultiPump®	40/0180/12	332.9	75.6	0.4756	1.8	174	12	700	3	76
Classic+ / MultiPump®	40/0250/07	462.4	105	0.6605	2.5	100	7	700	4	101
Classic+ / MultiPump®	50/0351/12	603.5	137	0.9284	3.514	174	12	650	4	101
Classic+ / MultiPump®	50/0525/08	832.2	189	1.387	5.25	115	8	600	6	150
RTP [®]	RTP20	264	60	0.264	1	145	10	1000	2 or 3	50 or 75
RTP [®]	RTP30	338	76.8	0.338	1.28	174	12	1000	3 or 4	75 or 100

	RECTANGULAR FLANGE MODELS											
	Max Capacity Displacement Max Pressure Max Speed Inlet (W x L) Outlet											
Series	Model	GPM	m³/h	USG/rev.	l/rev.	PSI	BAR	RPM	In	mm	In	mm
Revolution ®	0340	11	48	0.06	0.23	247	17	800	1.85 x 6.81	47 x 175	2	50.8
Revolution ®	0640	21	92	0.2	0.58	305	21	600	2.36 x 8.90	60 x 226	2.5	63.5
Revolution ®	1340	36	159	0.3	1	203	14	600	3.19 x 9.29	81 x 236	3	76.2
Revolution ®	2240	71	313	0.5	1.98	305	21	600	4.06 x 11.22	103 x 285	4	101.6



LIQUID-SPECIFIC PRODUCT LINE

Through 110+ years of pumping experience, our engineers have developed uniquely designed products with a specific application in mind. These products focus on solving targeted challenges that exist within that liquid application.

From speed to viscosity, sealing or shear, these products provide additional security that the product is right for the applications they are built for.

ABRASIVE LIQUID

4624B Series™

FEATURES & BENEFITS

Extended service life provided by:

- Tungsten carbide components in critical wear areas of pump
- Other hardened component options available
- Silicon carbide mechanical seal faces
- Positive seal flush to keep fresh supply of liquid at seal faces
- Behind the rotor seal placement eliminates abrasive wear on shaft bushing
- Pin drive mechanical seal increases viscosity range
- For abrasive liquids such as paints, inks and waste oil



MODELS	SP]	TIONS				
Non-Jacketed	Performa	ince		Standard Ports		
Behind the Rotor Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре	
F4624B	870	0.75	0.2	0.5	NPT	
FH4624B	870	1.5	0.3	0.5	NPT	
H4624B	640	5	1.1	1.5	NPT	
HL4624B	640	10	2.3	1.5	NPT	
K4624B	280	25	5.7	2	NPT	
KK4624B	280	35	8	2	NPT	
L4624B	230	50	11	2	NPT	
LQ4624B	230	50	11	2.5	Flange	
LL4624B	230	65	15	3	Flange	
LS4624B	230	72	16	3	Flange	
Q4624B	190	110	25	3	Flange	
QS4624B	190	182	41	6	Flange	

Integral pressure relief valve is standard.

Abrasion resistant components also available in other series and sizes.

AMMONIA (REFRIGERATION)

4924A Series™

FEATURES & BENEFITS

- Double mechanical seal with pressurized seal chamber and oil reservoir pressurized by ammonia, no external flush system required
- Adjustable return-to-tank pressure relief valve
- Pressure-lubricated idler bushing maximizes bushing life
- Designed for liquid overfeed ammonia refrigeration systems
- New bearing housing design simplifies end clearance adjustment and maintenance



MODELS	SPECIFICATIONS						
	Performa	ince		Standard Ports			
Mechanical Seal	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре		
HL4924A	780	10	2.3	1.5	NPT		
K4924A	280	20	4.5	2	NPT		
KK4924A	280	30	6.8	2	NPT		
LQ4924A	280	45	10	2.5	Flange		
LL4924A	280	60	14	3	Flange		

Return-to-tank relief valve standard.

Note: Product images may not reflect standard construction. Refer to "Appendix B" on page 43 for more information on seals and porting.



ASPHALT

34 Series™

FEATURES & BENEFITS: JACKETED, PACKING

- Jacketing suitable for hot oil or steam for enhanced application flexibility
- Belt drive or reducer drive options available
- Economical option for clean asphalt at low to moderate pressure



MODELS	S	PECII	FICAT	IONS		
	Perfor	mance		Standard Ports		
	Max Speed, RPM	GPM	m³/h	Size, Inches	Туре	
LQ34	420	90	20	2.5	Flange	
Q34	350	200	45	3	Flange	
M34	280	280	64	4	Flange	
N34	280	450	102	5	Flange	
H124E*	1750	15	3.4	1.5	NPT	
HL124E*	2900	50	11	1.5	NPT	
K124E*	950	90	20	2	NPT	
KK124E*	950	120	27	2	NPT	
L124E*	950	210	48	2	NPT	
LQ124E*	950	210	48	2.5	Flange	
LL124E*	520	140	32	3	Flange	
LS124E*	720	230	52	3	Flange	
Q124E*	520	300	68	4	Flange	
QS124E*	520	500	114	6	Flange	
N324E*	420	685	156	6	Flange	
K1224A-ASP	780	80	18	2	NPT	
KK1224A-ASP	780	100	23	2	NPT	
L1224A-ASP	640	135	31	2	NPT	
LQ1224A-ASP	640	135	31	2 1/2	Flange	
LL1224A-ASP	520	140	32	3	Flange	
LS1224A-ASP	640	200	45	3	Flange	
Q1224A-ASP	470	275	62	4	Flange	
QS1224A-ASP	470	400	91	6	Flange	
M1224A-ASP	420	420	95	4	Flange	
N1324A-ASP	330	550	125	6	Flange	
R1324A-ASP	260	1,000	227	8	Flange	
RS1324A-ASP	260	1,500	340	10	Flange	

* Total Watts by Size: H-HL = 275, K-KK = 690, L-LS = 1,200, Q-QS = 2,200, N = 2,500

124E Series™, 324E Series™

FEATURES & BENEFITS: ELECTRICALLY HEATED, PACKING

- Lower installation costs in remote locations when steam or hot oil is not available or long piping runs are required
- Reduced environmental costs by eliminating hot oil leaks
- Reduced energy costs with heat source in pump vs. external heat tracing
- Simplified service by eliminating hot oil or steam pipe connections
- Optional closed loop PID control system maintains tight control



1224A-ASP Series™, 1324A-ASP Series™

FEATURES & BENEFITS: JACKETED, O-PRO° CARTRIDGE SEAL

- Rugged design provides superior performance in asphalt applications
- Tight clearances offer high efficiency and excellent priming capabilities
- O-Pro[®] Cartridge seal combines reliable sealing with easy maintenance



Note: O-Pro® Cartridge Seal is patented.

Note: Product images may not reflect standard construction. Refer to "Appendix B" on page 43 for more information on seals and porting.



🟹 CONTACT DISTRIBUTOR



CHEMICAL TANKER

RTPe Series[™]

CLEANABILITY

- The simple design behind the rotor makes strip cleaning easy and fast
- Choose the cleaning process that fits your needs: COP (Clean Out of Place) or CIP (Clean In Place)

EASE OF MAINTENANCE

- Innovative front loading seal design enables quick inspection and easy servicing
- Sealed gearcase with long-life lubrication eliminates oil inspection and filling
- Easy to service design requires no special tools for disassembly and eliminates need for end clearance adjustments

PERFORMANCE

- Wide range of chemical compatibility
- Efficiently handles both low and high viscosity liquids with improved pressure capabilities for faster loading and unloading
- Excellent displacement/weight ratios, which means more in the tank and less in the cabinet (1 I/rev. / 0.264 USG/rev.)
- Precision helical gears, rotors and shaft design, with optimized bearing position, minimize overhung load – extending seal & bearing life



CHOCOLATE

1224A-CHC Series™, 1227A-CHC Series™

FEATURES & BENEFITS

- EC1935 Compliant constructions
- Internal O-rings create a sealed lubrication chamber for the bracket bushing, increasing bushing life
- I Trusted and proven with world leading chocolate manufacturers
- Low shear design protects delicate chocolate suspensions
- Hardened materials provide long life on abrasive liquors and chocolates



CHC1			POR	TS	CH		
O-Pro [®] Seal	GPM	Max Speed, RPM	Size, Inches	Туре	O-Pro [®] Seal	GPM	Max Speed, RPM
H1224A-CHC1	2	280	1.5	NPT	H1224A-CHC2	8	1000
H1224A-CHC1	2	280	2	Flange	H1224A-CHC2	8	1000
HL1224A-CHC1	4.6	280	1.5	NPT	HL1224A-CHC2	17	1000
HL1224A-CHC1	4.6	280	2	Flange	HL1224A-CHC2	17	1000
K1224A-CHC1	17	190	2	NPT	K1224A-CHC2	80	780
K1224A-CHC1	17	190	2/3	Flange	K1224A-CHC2	80	780
KK1224A-CHC1	23	190	2	NPT	KK1224A-CHC2	100	780
KK1224A-CHC1	23	190	2/3	Flange	KK1224A-CHC2	100	780
LQ1224A-CHC1	25	125	2.5/3/4	Flange	LQ1224A-CHC2	135	640
LL1224A-CHC1	31	125	3/4	Flange	LL1224A-CHC2	140	520
LS1224A-CHC1	38	125	3/4	Flange	LS1224A-CHC2	200	640
Q1224A-CHC1	57	100	4	Flange	Q1224A-CHC2	275	470
QS1224A-CHC1	88	100	6	Flange	QS1224A-CHC2	400	470
H1227A-CHC1	2	280	2	Flange	—	—	—
HL1227A-CHC1	4.6	280	2	Flange	—	—	—
K1227A-CHC1	17	190	3	Flange	_	_	—
KK1227A-CHC1	23	190	3	Flange	—	—	—
LQ1227A-CHC1	25	125	4	Flange	_	_	_
LL1227A-CHC1	31	125	4	Flange	—	—	—
LS1227A-CHC1	38	125	4	Flange	_	_	_
Q1227A-CHC1	57	100	4	Flange	_	—	—
QS1227A-CHC1	88	100	6	Flange	_	_	_

CHC1 Models for Cocoa Liquor, All Chocolates, Pastes (≈5,000 to 200,000 cPs) CHC2 Models for Cocoa Butter, Oils, Lecithin (≈1 to 5,000 cPs)

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Note: Product images may not reflect standard construction. Refer to "Appendix B" on page 43 for more information on seals and porting.

COLD ETHANOL - SOLVENT

4197-SEP Series™

FEATURES & BENEFITS

- Superior self-priming capabilities
- Low temperature mechanical seal
- Quiet pulsation-free flow
- Designed for continuous or intermittent duty cycle
- Assembled and tested with food grade liquids
- Reliable, steady flow regardless of changes in pressure or viscosity
- Electric motor driven and VFD compatible



MODELS	SPECIFICATIONS							
Behind the	Nominal F	low (60 Hz)	Max. Differential Pressure	Standard Class 150 Flanged Ports				
Rotor Seal	GPM	RPM	PSIG	Size, Inches				
GG4197-SEP1	10	1750	200	1				
HJ4197-SEP1	20	1750	200	1.5				
HL4197-SEP1	30	1750	200	1.5				
AS4197-SEP1	35	1150	200	3				
AK4197-SEP1	50	1150	200	3				
AL4197-SEP1	75	1150	200	3				

NOTE: Contact Viking Pump for performance curves specific to your application.

FUEL OIL

432-X Series™, SG-X Series™

FEATURES & BENEFITS

- UL343 listed for the handling of various fuel oils
- Intended for use in the assembly of power-operated, oil-burning appliances in accordance with ANSI/NFPA 31
- Products achieved UL certification through testing at the UL laboratory
- Capacities range from 0.5 to 20 GPM, with lip seal or mechanical seal options



Note: Product images may not reflect standard construction. Refer to "Appendix B" on page 43 for more information on seals and porting.





PARTS & ACCESSORIES



There are millions of Viking pumps installed throughout the world. Our parts and accessories are built to keep them running efficiently and make repairs easy.

Not all parts are created equal. Viking Genuine Parts come with a guarantee to dimensionally fit Viking products, as well as having consistent construction, including material grade and quality.

Whether purchasing an individual part, ordering a full repair kit, or choosing an accessory to make your systems work smoothly, ensure that you are maintaining your Viking pumps with the same quality of parts that it left the factory with. Choose Viking Genuine Parts when servicing your pumps. Reach out to your local stocking distributor to get parts on your shelves for proactive operational management.

PARTS & KITS



Viking Pump parts kits provide customers with the ability to do a complete repair at once vs. each time a part wears. Everything needed is included in the kit, ready before you open the pump. Both seal kits and repair kits are available. Reduce your downtime by contacting your local stocking distributor to have a kit on your shelf ready to go when it is needed.

DESIGN

Only Viking Genuine Parts are specifically designed to meet performance requirements for Viking pumps

QUALITY

Viking Genuine Parts are tested to ensure optimum reliability

8

- SUPPORT
- Viking backs all Genuine Parts with its own warranty and stocking distributor network

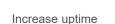
PARTS KITS VS. PARTIAL REPAIR

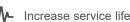


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Everything you need in one place

Save time & money





VIKING PUMP

Reduce frequency of repairs

WHY REMANUFACTURE?

(Unique to circumferential piston products)

- Worn pump is returned to like-new condition & performance
- Vour remanufactured pump carries a full 1 year factory warranty
- All remanufactured pumps are tested & certified
- Save big compared to purchasing an entirely new pump
- Pumps can be remanufactured up to four times, depending on model & wear

WHAT YOU GET

- NEW Rotors
- NEW Bearings
- NEW Seal Components
- NEW Shafts
- NEW Gears



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REBUILD VS. REPLACE

- Hygienic parts kits are designed to save time and money, making preventive maintenance and rebuilding easier and more cost-effective
- Hygienic pumps are designed and built to the highest standards, for long life and to be rebuilt instead of replaced when applicable
- Tool kits also available



REDUCERS

OFFSET

- Fully interchangeable ratios in each gearbox
- Gearbox is rotatable on mounting bracket to enable multiple mounting brackets enable output shaft to match Viking shaft heights



Learn about Reducers

STRAINERS

LID-EASE STRAINERS

- Quarter-turn, easy opening breechlock lid simplifies routine cleaning
- Inclined basket design provides low pressure drop for high system efficiency
- Top basket removal eliminates the need to drain the strainer and minimizes product loss



_earn about Strainers



IN-LINE

- Available in multiple sizes and a variety of ratios to 200 HP / 160 kW
- Universal mounting solid input shaft or motor mount option (IEC or NEMA)



BOLTED-LID STRAINERS

- High quality, easy to clean simplex strainers
- Low pressure drop
- Gauge ports standard (plugged)
- Lid vent standard (plugged)
- Bottom drain (plugged)



MOTORS

DRIVE MOTORS

- I Ease of ordering to get pump and motor from one supplier
- Competitive pricing direct through Viking Pump
- All major brands and types available
- Energy efficient, compliant with EISA and EC640/2009 standards



Note: Product images may not reflect standard construction.





APPENDIX A

MATERIALS



CAST IRON

For most non-corrosive applications. Least cost, best resistance to galling. (Various coating options for hardness)



DUCTILE IRON

Alternative to steel for refinery and petrochem applications, used on some rotors for higher viscosity. (*Grades range from pearlitic to ferritic*)



STEEL

For refinery and petrochem applications or extremely high temperatures. Optional rotor material for highest viscosities. (Grades range from cast low alloy to various types of carbon steel)

STAINLESS STEEL

For corrosion resistance over a wider pH range. (*Grades range from 316L, 317, 347 and 770, to duplex and martensitic*)



ALLOY 20

Austenitic stainless steel for sulfuric acid.

DRIVES





"B" DRIVE

Pump is mounted to a bracket (32 Series) or foot (SG Series).

"D" DRIVE

Pump is direct connected to a motor or gear motor.

"IM" DRIVE

Vertically inline mounted motor speed product line steel pumps.

"M" DRIVE

Pump is mounted to a bell housing which accepts a C-face NEMA or IEC motor. A flexible coupling connects pump shaft to drive shaft.

"M4" DRIVE

Tang shaft spur gear product line pumps mounted directly to tang drive motors.

"P" DRIVE

Pump unit (pump, gear reducer, motor, base, couplings and guards) using a non-standard "purchased" gear reducer.



"R" DRIVE

Pump unit (pump, gear reducer, motor, base, couplings and guards) using a Viking offset gear reducer.



"V" DRIVE

Pump unit (pump, motor, base, sheaves, belts and guard) using v-belts for speed reduction.





APPENDIX B

SEALS



PACKING

For highest temperatures and a wide range of viscosities.



0-PR0° BARRIER SEAL

Prevents leakage on hard to seal, viscous liquids. Incorporates shaft bushing protection from pumped liquid.



0-PR0° CARTRIDGE SEAL

Prevents leakage on hard to seal, viscous liquids. Available with FFKM elastomers for high temperature or corrosive service.



COMPONENT MECHANICAL SEAL

Located in stuffing box or behind the rotor, component seals are an economical means of limiting leakage.



SEALLESS MAG DRIVE

Eliminates shaft seals altogether, the ultimate solution to preventing seal leakage.



LIP SEAL

Dynamic elastomeric seals energized with a spring, for very high viscosity capabilities.



0-PRO° GUARD SEAL

Prevents leakage on hard to seal, viscous liquids. Sleeved design avoids shaft wear concerns.



O-RING SEAL

A simple low cost seal design with a wide range of application areas.



CARTRIDGE SEAL

Single or double mechanical, or triple lip seals; back pull-out design simplifies replacement.



API 682 SEAL

Category 1, 2 or 3, with API seal plans for petroleum and petrochemicals.

NOTE: O-Pro® seals are patented.

PORTING



OPPOSITE (180°)



TOP PORT







THREADED



SANITARY CLAMP





NPT

SALES TOOLS

VERTICAL INTEGRATION



WEBSITE VIKINGPUMP.COM

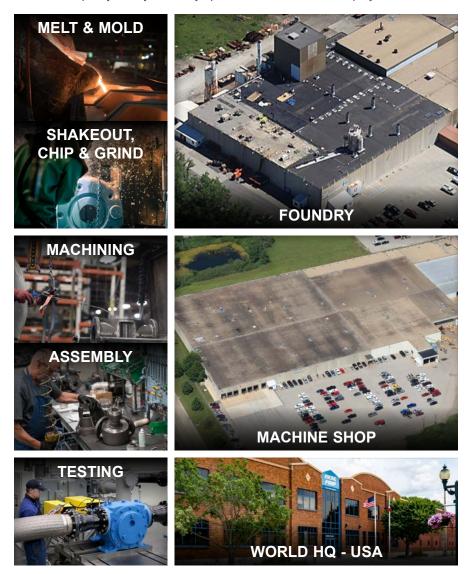


LITERATURE VIKINGPUMP.COM/DOWNLOADS



VIKINGPUMP.COM/VIKINGTV

Viking Pump operates a foundry, a 250,000+ sq. ft. machining, assembly and testing center, and an extensive product engineering and testing lab in its world headquarters in Cedar Falls, Iowa, USA. This level of vertical integration ensures maximum quality, ability to satisfy special needs, and to meet project schedules.



CONTACT YOUR STOCKING DISTRIBUTOR TODAY



VIKING PUMP, INC. A Unit of IDEX Corporation 406 State Street Cedar Falls, Iowa 50613 U.S.A. vikingpump.com

