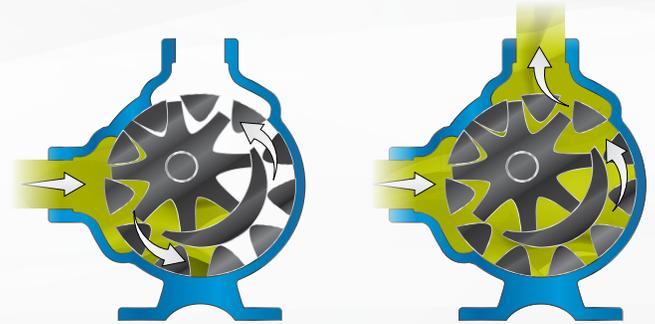


# INTERNAL GEAR PUMPS



**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



## 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

## 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, component mechanical seals, industry-standard cartridge mechanical seals, API 682 seals and sealless magnetic couplings

## KEY PUMPING ELEMENTS



*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

### Reliable & Easy to Maintain

Only two moving parts

### Adjustable End Clearances

For low or high viscosities, high temperatures, or to compensate for wear over time

### Shaft Seal Options

Including packing, lip seal, 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

## PERFORMANCE



### Flow Range

to 1,600 GPM (363 m<sup>3</sup>/h)



### Viscosity

28 to 2,000,000 SSU (1 to 440,000 cSt)  
*With special construction*



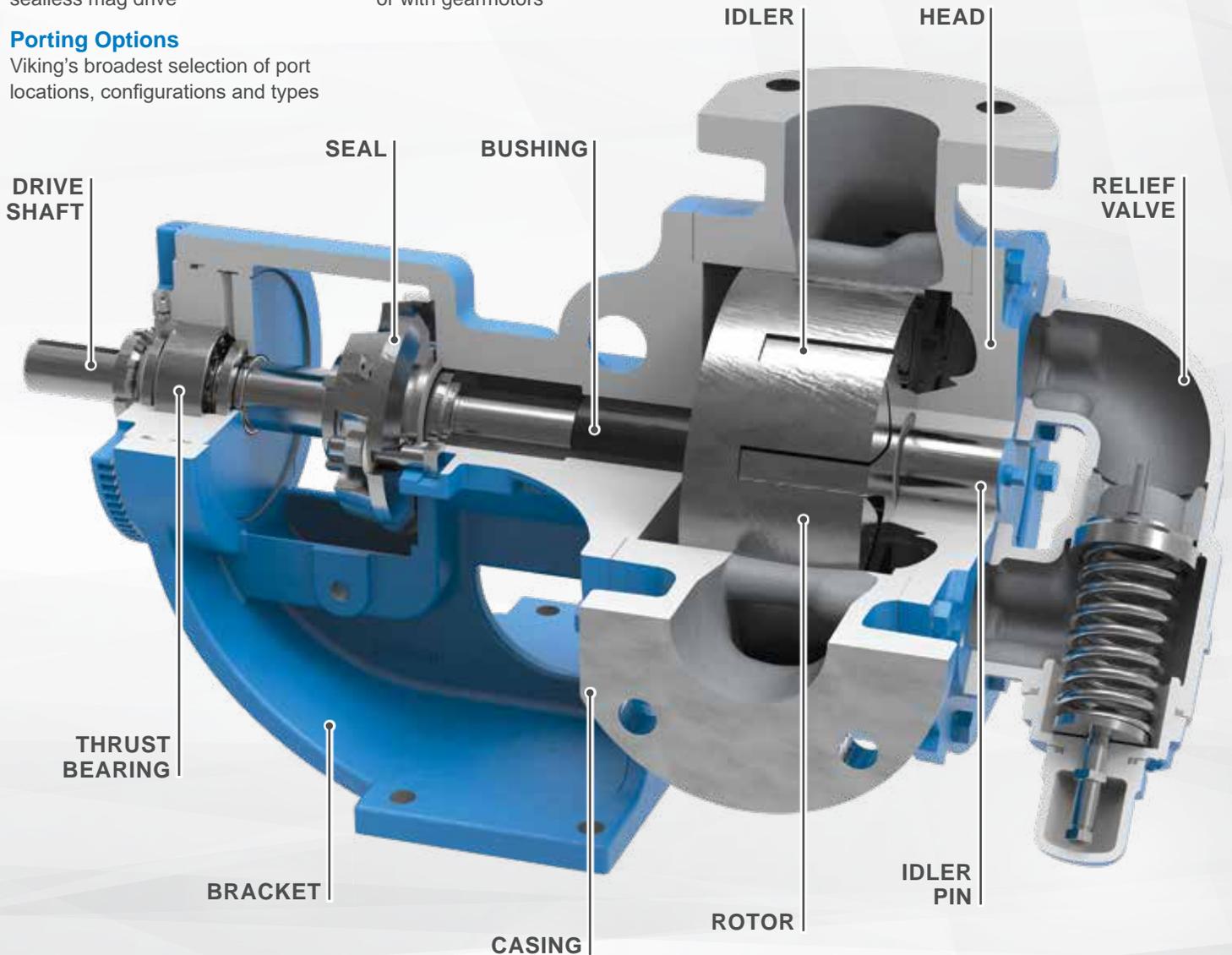
### Pressure

to 250 PSI (17 BAR)



### Temperature

-120°F to +800°F (-85°C to +430°C)  
*With special construction*





**FLOW RANGE**  
to 1,600 GPM  
(363 m<sup>3</sup>/h)



**PRESSURE**  
to 200 PSI  
(14 BAR)



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



**VISCOSITY**  
28 to 2,000,000 SSU  
(1 to 440,000 cSt)

# UNIVERSAL PRODUCT LINE

## CAST IRON CONSTRUCTION



## 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

## TYPICAL APPLICATIONS

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

## PERFORMANCE

MODELS							SPECIFICATIONS				
Non-Jacketed				Jacketed			Performance			Standard Ports	
Packing	Mechanical Seal	Behind the Rotor Seal	Mag Drive	Packing	Mechanical Seal	Behind the Rotor Seal	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
G124A	G4124A	G4124B	—	—	—	—	1750	8	1.8	1	NPT
H124A	H4124A	H4124B	H8124A	H224A	H4224A	H4224B	1750	15	3.4	1.5	NPT
HL124A	HL4124A	HL4124B	HL8124A	HL224A	HL4224A	HL4224B	1750	30	6.8	1.5	NPT
AK124A	AK4124A	AK4124B	—	—	—	—	1450	67	15	2	NPT
AL124A	AL4124A	—	—	—	—	—	1450	90	20	2	NPT
K124A	K4124A	K4124B	K8124A	K224A	K4224A	K4224B	780	80	18	2	NPT
KK124A	KK4124A	KK4124B	KK8124A	KK224A	KK4224A	KK4224B	780	100	23	2	NPT
L124A	L4124A	L4124B	L8124A	L224A	L4224A	L4224B	640	135	31	2	NPT
LQ124A	LQ4124A	LQ4124B	LQ8124A	LQ224A	LQ4224A	LQ4224B	640	135	31	2.5	Flange
LL124A	LL4124A	LL4124B	LL8124A	LL224A	LL4224A	LL4224B	520	140	32	3	Flange
LS124A	LS4124A	LS4124B	LS8124A	LS224A	LS4224A	LS4224B	640	200	45	3	Flange
Q124A	Q4124A	Q4124B	Q8124A	Q224A	Q4224A	Q4224B	520	300	68	4	Flange
QS124A	QS4124A	QS4124B	QS8124A	QS224A	QS4224A	QS4224B	520	500	114	6	Flange
M124A	M4124A	—	—	M224A	M4224A	—	420	420	95	4	Flange
—	—	—	—	N324A	N4324A	—	350	600	136	6	Flange
—	—	—	—	R324A	R4324A	—	280	1,100	250	8	Flange
—	—	—	—	RS324A	RS4324A	—	280	1,600	363	10	Flange

Refer to Appendix B on page 33 for more information on seals and porting.

## PORTING

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

## SEALING

- Packing
- Behind the Rotor Seal
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- Balanced Seal
- Sealless Mag Drive

## OPTIONS

- Jacketing
- Ductile Iron (Series 126A, 4126A, 226A, 4226A)

## DRIVES



Refer to Appendix A on page 32 for more information on drives.

## MOUNTING

- Foot Mount



## DID YOU KNOW?

This series offers Viking's widest range of sizes, including 17 different displacements. The "RS" size pump can deliver up to 1600 gallons per minute. The "G" size pump would take nearly 7 months to deliver the same volume of liquid that an "RS" size pump can deliver in 1 day.



**124A** (non-jacketed, packing)

**224A** (jacketed, packing)

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



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

**4224A** (jacketed, mechanical seal)

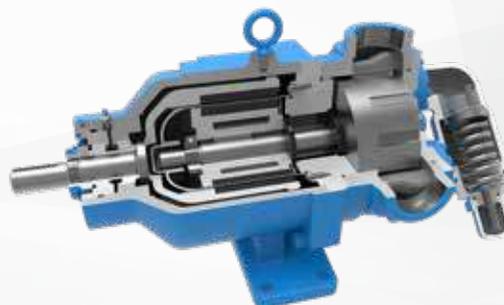
- Component mechanical seals handle lower viscosity liquids with minimal leakage
- Optional single or double mechanical cartridge seals enable seal plans to flush away contaminants and limit vapor emissions
- Cartridge triple lip seals enable the same high viscosities as pumps with packing, but without the necessary leakage
- Cartridge mechanical seals offer back-pull-out capability through the bearing housing opening to enable seal maintenance or replacement without removing the pump



**4124B** (non-jacketed, behind the rotor seal)

**4224B** (jacketed, behind the rotor seal)

- Value-oriented, low to medium viscosity pumps with a mechanical seal located directly behind the rotor and a greased bracket bushing that doesn't contact the process liquid, allowing for long life
- Grease barrier is retained by a lip seal in the bracket
- Optional hard-faced, pinned seat 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.





**FLOW RANGE**  
to 1,600 GPM  
(363 m<sup>3</sup>/h)



**PRESSURE**  
to 200 PSI  
(14 BAR)



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



**VISCOSITY**  
28 to 2,000,000 SSU  
(1 to 440,000 cSt)

# UNIVERSAL PRODUCT LINE

## STEEL EXTERNALS CONSTRUCTION



## FEATURES & BENEFITS

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

## TYPICAL APPLICATIONS

- Crude Oil
- Fuels
- Lube Oil
- Basic Petrochemicals
- Asphalts & Bitumens
- Heat Transfer Fluids

## PERFORMANCE

MODELS								SPECIFICATIONS				
Non-Jacketed				Jacketed				Performance			Standard Ports	
Packing	Mechanical Seal	Mag Drive	API 682 Seal	Packing	Mechanical Seal	API 682 Seal		Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
H123A	H4123A	H8123A	H4123AA	H223A	H4223A	H4123AA	—	1750	15	3.4	1.5	Flange
HL123A	HL4123A	HL8123A	HL4123AA	HL223A	HL4223A	HL4123AA	HL4223AX	1750	30	6.8	1.5	Flange
K123A	K4123A	K8123A	K4123AA	K223A	K4223A	K4123AA	—	780	75	17	2	Flange
KK123A	KK4123A	KK8123A	KK4123AA	KK223A	KK4223A	KK4123AA	KK4223AX	780	100	23	2	Flange
LQ123A	LQ4123A	LQ8123A	LQ4123AA	LQ223A	LQ4223A	LQ4123AA	—	640	135	31	2.5	Flange
LL123A	LL4123A	LL8123A	LL4123AA	LL223A	LL4223A	LL4123AA	—	520	140	32	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

Refer to Appendix B on page 33 for more information on seals and porting.

## PORTING

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

## SEALING

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

## MOUNTING

- Foot Mount

## OPTIONS

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

## DRIVES

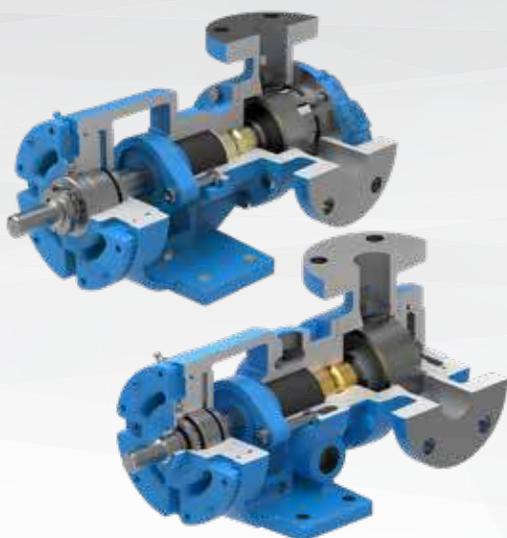


Refer to Appendix A on page 32 for more information on drives.



## DID YOU KNOW?

Viking Pump is the only gear pump manufacturer to manufacture a pump to meet the rigorous design, production, testing, and documentation requirements of API 676 3rd Edition.



**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 mechanical seals handle lower viscosity liquids with minimal leakage
- Optional single or double mechanical cartridge seals enable seal plans to flush away contaminants and limit vapor emissions
- Cartridge triple lip seals enable the same high viscosities as pumps with packing, but without the necessary leakage
- Cartridge mechanical seals offer back-pull-out capability through the bearing housing opening to enable seal maintenance or replacement without removing the pump



**4123AA**

**4323AA**

- Bracket features enlarged bearing housing to fit API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- Uses standard Universal Product Line casings and heads with many options for ports, jacketing and relief valves
- Conforms to API 676 3rd Edition, with exceptions



**4223AX**

**4323AX**

- Conforms fully to API 676 3rd Edition, no exceptions
- API 682 Cat. 1, 2 or 3 cartridge seals with seal plans
- Cast-in casing jacket with flanged casing drain
- 3mm corrosion allowance on pressure-containing parts
- Includes all NDE and performance testing required by API 676



**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.





**FLOW RANGE**  
to 1,600 GPM  
(363 m<sup>3</sup>/h)



**PRESSURE**  
to 200 PSI  
(14 BAR)



**TEMPERATURE**  
-120°F to +500°F  
(-85°C to +260°C)



**VISCOSITY**  
28 to 2,000,000 SSU  
(1 to 440,000 cSt)

# UNIVERSAL PRODUCT LINE

STAINLESS STEEL CONSTRUCTION



## FEATURES & BENEFITS

- For corrosion resistance over a wider pH range
- Non-galling gear materials available for handling thin liquid applications
- All stainless steel construction or economical 724 & 4724 series

## TYPICAL APPLICATIONS

- Soaps, Detergents & Surfactants
- Acids & Caustics
- Water-based Liquids
- Vegetable Oil
- General Chemicals

## PERFORMANCE

MODELS							SPECIFICATIONS				
Non-Jacketed			Jacketed				Performance			Standard Ports	
Packing	Mechanical Seal	Mag Drive	Mechanical Seal	Packing	Behind the Rotor Seal	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type	
—	—	—	—	—	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	H4127A	H8127A	H4227A	H227A	H724**	H4724**	1750	10	2.3	1.5 Flange	
HL127A	HL4127A	HL8127A	HL4227A	HL227A	HL724**	HL4724**	1750	20	4.5	1.5 Flange	
K127A	K4127A	K8127A	K4227A	K227A	K724**	K4724**	780	45	10	2 Flange	
KK127A	KK4127A	KK8127A	KK4227A	KK227A	KK724**	KK4724**	780	65	15	2 Flange	
—	—	—	—	—	L724	L4724	420	90	20	2 NPT	
LQ127A	LQ4127A	LQ8127A	LQ4227A	LQ227A	LQ724	LQ4724	640	90	20	2.5 Flange	
LL127A	LL4127A	LL8127A	LL4227A	LL227A	LL724	LL4724	520	110	25	3 Flange	
LS127A	LS4127A	LS8127A	LS4227A	LS227A	—	—	640	160	36	3 Flange	
Q127A	Q4127A	Q8127A	Q4227A	Q227A	—	—	520	200	45	4 Flange	
QS127A	QS4127A	QS8127A	QS4227A	QS227A	—	—	520	320	73	6 Flange	
—	—	—	N4327A	N327A	—	—	350	600	136	6 Flange	
—	—	—	R4327A	R327A	—	—	280	1,100	250	8 Flange	
—	—	—	RS4327A	RS327A	—	—	280	1,600	363	10 Flange	

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

Refer to Appendix B on page 33 for more information on seals and porting.

## PORTING

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

## SEALING

- Packing
- Behind the Rotor Seal
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- API 682 Seal
- Balanced Seal
- Sealless Mag Drive

## MOUNTING

- Foot Mount

## OPTIONS

- Jacketing

## DRIVES

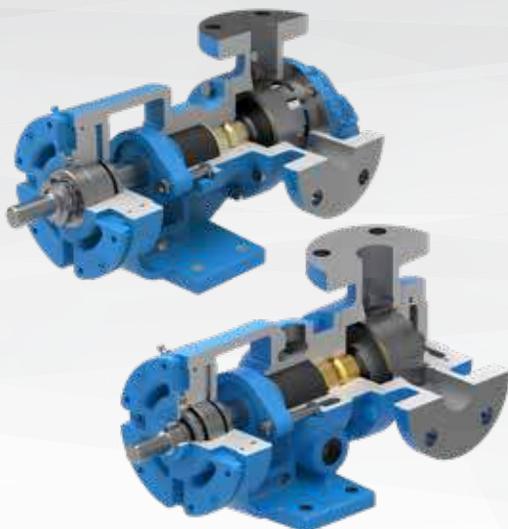


Refer to Appendix A on page 32 for more information on drives.



## DID YOU KNOW?

Viking pumps are used in the world's largest chocolate fountain in the Bellagio Hotel & Casino in Las Vegas, Nevada.



**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



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

**4227A** (jacketed, cartridge seal)

- Component mechanical seals handle lower viscosity liquids with minimal leakage
- Optional single or double mechanical cartridge seals enable seal plans to flush away contaminants and limit vapor emissions
- Cartridge triple lip seals enable the same high viscosities as pumps with packing, but without the necessary leakage
- Cartridge mechanical seals offer back-pull-out capability through the bearing housing opening to enable 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



**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.





**FLOW RANGE**  
to 580 GPM  
(132 m<sup>3</sup>/h)



**PRESSURE**  
to 250 PSI  
(17 BAR)



**TEMPERATURE**  
-40°F to +350°F  
(-40°C to +180°C)



**VISCOSITY**  
28 to 25,000 SSU  
(1 to 5,500 cSt)

# MOTOR SPEED PRODUCT LINE

CAST IRON CONSTRUCTION



## FEATURES & BENEFITS

- The most compact gear pump series available to fit tight space constraints
- High speed operation for the most economical pump option for thin to moderate viscosity applications
- Vertical mounting options to further reduce the unit footprint

## TYPICAL APPLICATIONS

- Refined Fuels
- Lube Oils
- Rotating Equipment Lubrication
- Mobile Pump Carts
- Glycols
- Pipeline Sampling
- Isocyanates

## PERFORMANCE

MODELS					SPECIFICATIONS				
Motor Mount		Foot Mount	Bracket Mount		Performance			Standard Ports	
Lip Seal	Mechanical Seal	Mechanical Seal	Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
G75	G475	G4195	G495	—	1750	8	1.8	1	NPT
GG75	GG475	GG4195	GG495	GG895	1750	10	2.3	1	NPT
H75	H475	H4195	H495	—	1750	15	3.4	1.5	NPT
HJ75	HJ475	HJ4195	HJ495	HJ895	1750	20	4.5	1.5	NPT
HL75	HL475	HL4195	HL495	HL895	1750	30	6.8	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

Refer to Appendix B on page 33 for more information on seals and porting.

\* KE, KKE, LQE and LSE sizes have a foot mount and flange for M-Drive Bracket.

## PORTING

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

## SEALING

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

## MOUNTING

- Motor Mount
- Foot Mount
- Vertical Mount

## DRIVES

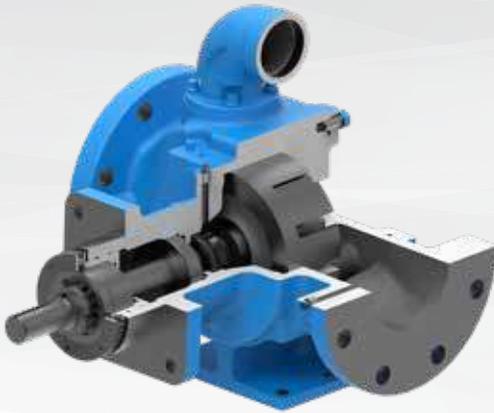


Refer to Appendix A on page 32 for more information on drives.



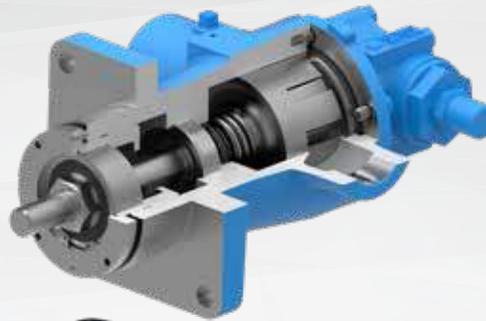
## DID YOU KNOW?

Viking was the first to develop a commercially available mag drive internal gear pump over 30 years ago. Since then, Viking has built and installed thousands of mag drive pumps all over the world. Many of those original installations are still in operation today, which speaks to the durability of this design.



**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- LSE 4195 models have both foot for long-couple and bracket flange for close coupling

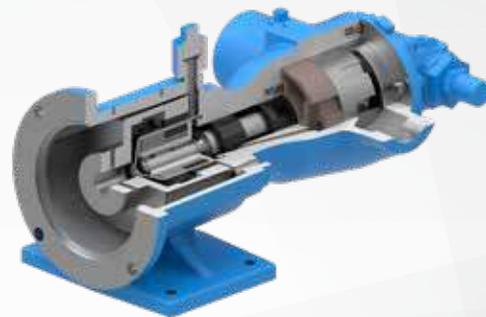


(Pump shown mounted to a motor)

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

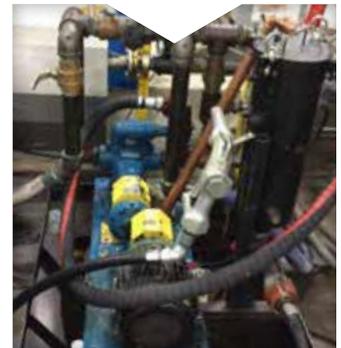
**75** (motor mount, lip seal)

- 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 2,250 PSI (155 BAR)



Note: Product images may not reflect standard construction.



**FLOW RANGE**  
to 115 GPM  
(27 m<sup>3</sup>/h)



**PRESSURE**  
to 250 PSI  
(17 BAR)



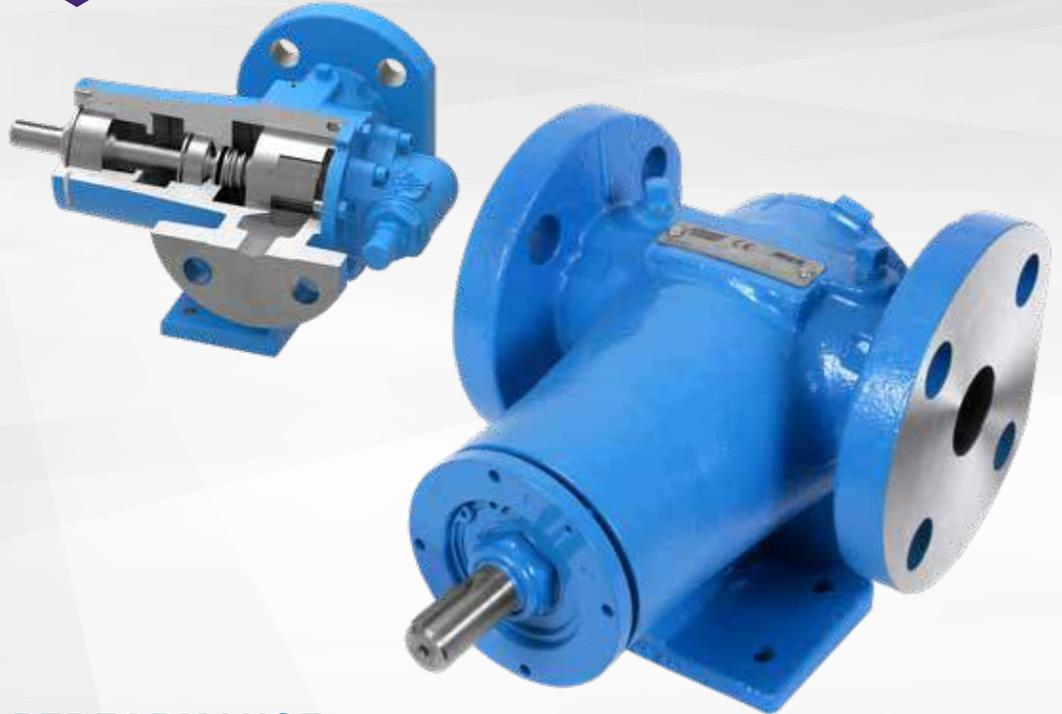
**TEMPERATURE**  
0°F to +350°F  
(-20°C to +180°C)



**VISCOSITY**  
28 to 25,000 SSU  
(1 to 5,500 cSt)

# MOTOR SPEED PRODUCT LINE

## STEEL EXTERNALS CONSTRUCTION



## 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
- High working pressures for compressor lubrication and pipeline sampling applications
- Class 300 flanges standard on all sizes and models

## TYPICAL APPLICATIONS

- Pipeline Sampling
- Compressor Lubrication
- Fuels
- Lube Oils

## PERFORMANCE

MODELS			SPECIFICATIONS				
Foot Mount	Bracket Mount		Performance			Standard Ports	
Mechanical Seal	Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
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

Refer to Appendix B on page 33 for more information on seals and porting.

## PORTING

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

## SEALING

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

## MOUNTING

- Motor Mount
- Foot Mount
- Vertical Mount

## DRIVES



Refer to Appendix A on page 32 for more information on drives.



## DID YOU KNOW?

Viking's foundries convert over 3,000,000 pounds of raw materials each year into pump parts and other cast products. Steel parts, like those used in this series, are produced in the Viking Alloys Foundry along with stainless steel. Cast and Ductile Iron are produced at Viking's Iron Foundry.



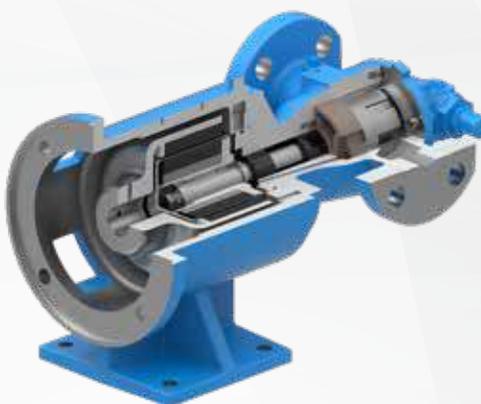
**4193** (foot mount, behind the rotor seal)

- 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 2,250 PSI (155 BAR)



Note: Product images may not reflect standard construction.



**FLOW RANGE**  
to 75 GPM  
(17 m<sup>3</sup>/h)



**PRESSURE**  
to 200 PSI  
(14 BAR)



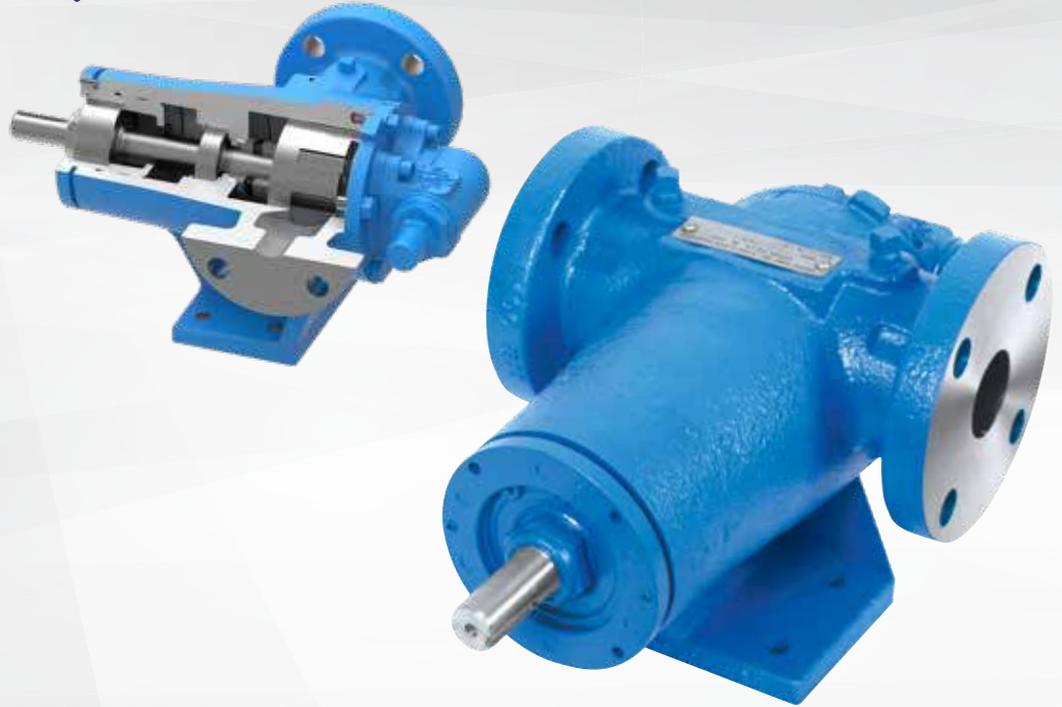
**TEMPERATURE**  
0°F to +350°F  
(-20°C to +180°C)



**VISCOSITY**  
28 to 25,000 SSU  
(1 to 5,500 cSt)

# MOTOR SPEED PRODUCT LINE

STAINLESS STEEL CONSTRUCTION



## FEATURES & BENEFITS

- For corrosion resistance over a wider pH range
- Non-galling gear materials standard for handling thin liquid applications
- Compact gear pump series to fit tight space constraints

## TYPICAL APPLICATIONS

- Water-Based Liquids
- Acids & Caustics
- Additives
- General Chemical

## PERFORMANCE

MODELS		SPECIFICATIONS				
Foot Mount	Bracket Mount	Performance			Standard Ports	
Mechanical Seal	Mag Drive	Max Speed, RPM	GPM	m <sup>3</sup> /h	Size, Inches	Type
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

Refer to Appendix B on page 33 for more information on seals and porting.

## PORTING

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

## SEALING

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

## MOUNTING

- Motor Mount
- Foot Mount

## DRIVES



Refer to Appendix A on page 32 for more information on drives.



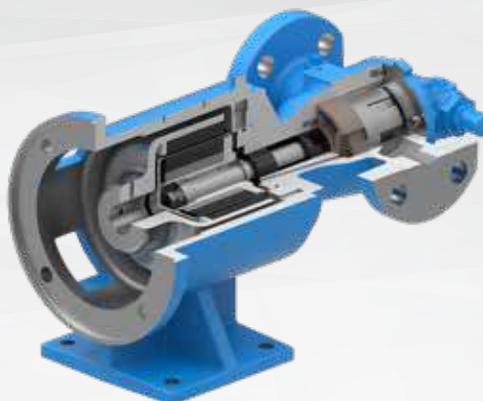
## DID YOU KNOW?

Viking pumps have been installed on all 7 continents, including Antarctica.



**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 2,250 PSI (155 BAR)



Note: Product images may not reflect standard construction.