

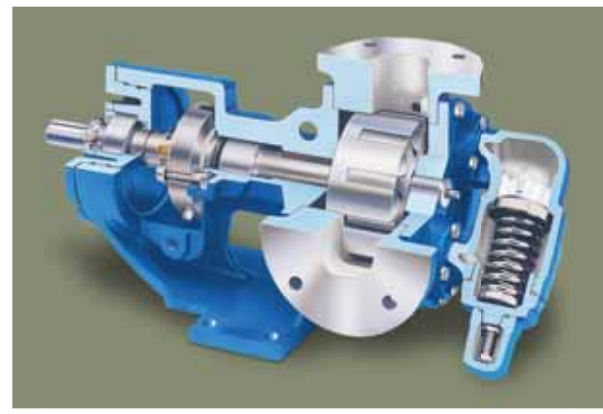
motrallec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48
Demande de prix / e-mail : service-commercial@motrallec.com
www.motrallec.com

VIKING PUMP

A Unit of IDEX Corporation

Leader in Positive Displacement Pumping Solutions



IDEX
CORPORATION



Behind Every Good Product is a Good Pump

And Engineering Expertise

Most pump companies talk about being innovative, but we have been the industry innovator since its initial introduction of the 'gear-within-a-gear' design back in 1911. Here are some examples of proven industry leading engineering capabilities:

- ' Product customization to handle virtually any liquid
- ' Extensive engineering lab capabilities
- ' Broad range of solutions for most fluid-handling problems
- ' Strong knowledge of industrial pump applications
- ' Custom pump solutions for unique applications



We're Familiar with Your Industry



Setting World Class Standards



Focusing on Your Applications

Put Viking Pump's Experience to Work for You

We have documented experience on thousands of liquids and applications that allow us to deliver proven solutions matched to your application.

- ' Thin to semi-solid (solvent to caulking compound)
- ' Cryogenic to molten (liquefied gases to molten sulfur)
- ' Inert to corrosive (oil to brine)
- ' Newtonian to non-newtonian (water to latex)
- ' Lubricating to non-lubricating (grease to hydrogen peroxide)
- ' Acidic to alkaline (citric acid to caustic soda)
- ' Clean to abrasive (liquid soaps to filled polymers)
- ' Low to high vapor pressure (heat transfer oil to ammonia)
- ' Edible to toxic (chocolate to sodium cyanide)

CHEMICALS



FOOD PROCESSING



REFINED PETROLEUM & CO



MACHINERY



TRANSPORTATION



OTHER



SPECTRIMMGE OPTICS



UNIVERSAL SEAL SERIES ES

Industrial-Duty Pumps Offering Design Flexibility and Easy-Maintenance

PERFORMANCE

Size	Standard Port Inches	Nominal Capacity At Maximum Speed		Maximum Speed RPM	Maximum Pressure **	
		M ³ /Hr	GPM		BAR	PSI

- ' Pumps accommodate virtually all sealing types and manufacturers
- ' Industry leading selection of application specific material options to maximize pump life
- ' 17 sizes offer unmatched hydraulic coverage
- ' Design adaptability for an unequalled range of viscosities and temperatures
- ' Easy clearance adjustment to maintain high efficiency
- ' Simple design with only two moving parts
- ' Back pull-out seals
- ' No special tools required for service
- ' One-piece, rigid cast bracket minimizes shaft deflection and tolerance stack up
- ' Rugged design with heavy-duty bearings extends pump life
- ' Proven success beyond catalog ratings with special construction and factory approval
- ' Industry standard for chemicals, polymers, petroleum, and thousands of other liquids

CAST IRON - DUCTILE IRON - STEEL
STAINLESS STEEL

- ' Cast Iron
- ' Ductile Iron
- ' Steel
- ' Stainless Steel
- ' Alloy C, Alloy 20, and others
- ' Hard Materials

To 360 M³/Hr (To 1,600 GPM)

To 14 BAR (To 200 PSI) **

To > 1,000,000 cSt (To 4,500,000 SSU)*

- ' Packing
- ' Component Mechanical Seal
- ' Cartridge Mechanical Seal
- ' Cartridge Triple Lip Seal
- ' Sealless Mag Drive (See Page 9)

-84°C to +37°C (-120°F to +70°F)*

* Special construction required.

** Higher pressures available with factory approval

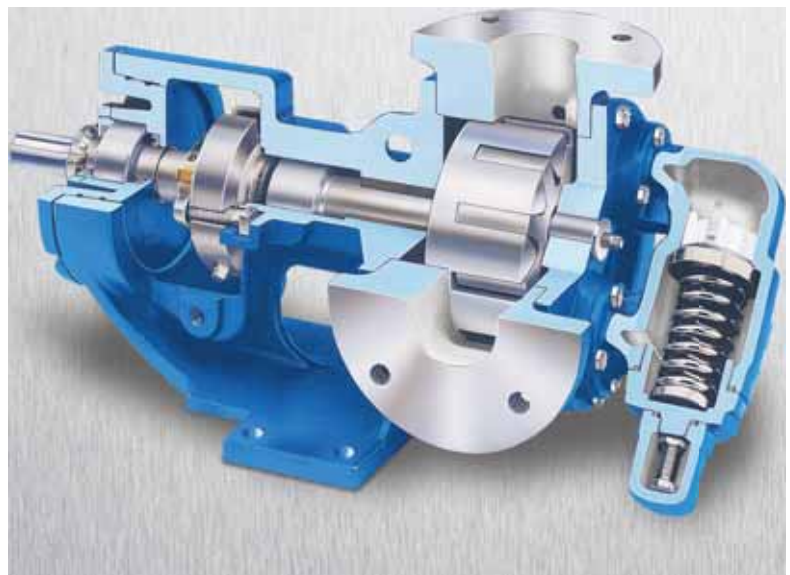
- ' Opposite (180° Rotatable Casing)
- ' Right Angle (90° Rotatable Casing)
- ' NPT / BSP
- ' Flanged (ANSI or DIN)
- ' Custom

- ' Foot Mount

- ' See chart on page 26 for drive options

- ' Application examples are available on Pages 3 - 5.

- ' 124A/AE, 4124A/AE/B, 126A, 4126A, 123A, 4123A, 127A, 4127A, 324A, 4324A, 323A, 4323A, 327A, 4327A



SEALLESS UNIVERSAL MAGDRIVE PUMPS

Dimensionally Interchangeable Pumps for Crucial Liquid Containment Applications

- ' Eliminates maintenance costs associated with shaft seal failure and replacement
- ' Eliminates environmental costs associated with shaft seal leakage
- ' Minimize installation costs when upgrading existing Universal Series pumps to sealless with dimensionally interchangeable footprint
- ' Multiple port sizes, types and ratings are available, providing easy match to requirements for easy installation
- ' Bi-directional pumping design eliminates cost of second pump for loading or unloading



' 8124A, 8123A, 8127A

JACKETED-UNIVERSAL SERIES PUMPS

Temperature Controlled Industrial-Duty Pumps

- ' Jacketing options available for all critical areas of the provide rapid heating and cooling capabilities for faster startup
- ' Allows a variety of heating or cooling media including hot oil, steam and water
- ' Clearances optimized for maximum efficiency
- ' Numerous porting positions, configurations and sizes provide enhanced application flexibility
- ' Proven uniform temperature control for improved product consistency



' 224/AE, 4224/AE/B, 226A, 4226A, 223A, 4223A, 227A, 4227A, 324A, 4324A, 323A, 4323A, 327A, 4327A

HEAVY DUTY ALLOY PUMPS

Extra Value Pumps with Alloy Wetted Parts

PERFORMANCE

Size	Standard Port Inches	Nominal Capacity At Maximum Speed		Maximum Speed RPM	Maximum Pressure	
		M ³ /Hr	GPM		BAR	PSI

STAINLESS STEEL

- ' Jacketed bracket standard on H-LL sizes for heating or cooling. Option jacketed heads available.
- ' Integral thrust bearing standard for heavy duty applications
- ' Motor speed operation on smaller sizes – no reducer required
- ' Integral pressure relief valve standard on sizes G-LL

' 316 Stainless Steel
' Alloy C, Alloy 20, and others

To 25 M³/Hr (To 110 GPM)

' Packing
' Component mechanical seal in front
(sizes F-HL)
' Component mechanical seal behind-the-rotor
(sizes K-LL)

To 14 BAR (To 200 PSI)

To > 1,000,000 cSt (To 4,500,000 SSU)

-84°C to +260°C (-121°F to +501°F)

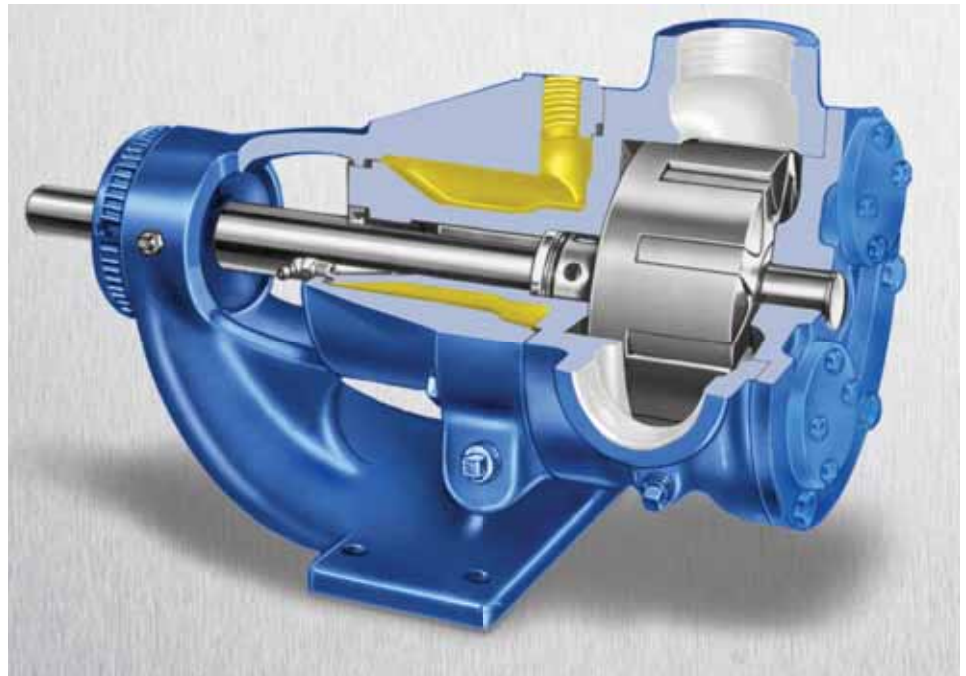
' Opposite NPT ports (sizes F - G)
' 90° NPT ports (sizes H-L)
' 90° 150 class ANSI flange ports (sizes LQ & LL)

' Foot Mount

' See chart on page 26 for drive options

' Application examples are available on
Pages 3 - 5.

' 724, 4724



MOTOR SPEED PUMPS - MAG DRIVE

Sealless Pumps for Crucial Liquid Containment Applications

PERFORMANCE

Size	Ports *	Nominal Capacity At Maximum Speed		Maximum Speed RPM	Maximum Pressure	
		M ³ /Hr	GPM		BAR	PSI

SERIES 855 CAST IRON

SERIES 893, 895, 897 STEEL, CAST IRON, STAINLESS STEEL

- ' Proven internal gear design provides superior flexibility to the most challenging applications where shaft sealing is crucial
- ' Wide flow range to better match application requirements
- ' Pump design offers ANSI or DIN flanges, and IEC or NEMA motor mounts conform to international standards for enhanced application flexibility
- ' Short-term run-dry capabilities provide for line clearing or empty tank situations without damaging pump
- ' Robust design includes optimized bearing placement to extend pressure capabilities (14 BAR/200 PSI)
- ' Innovative thrust control design provides superior pump performance
- ' Space-saving mounting configurations available to better match your installation needs:
 - Close coupled to NEMA or IEC flange for motor speed operation
 - Bearing carrier design available for applications requiring speed reducers
- ' Casing and canister drains facilitate liquid capture during servicing
- ' ATEX conformity

Materials

- ' Cast Iron
- ' Steel
- ' Stainless Steel

Capacity

To 38 M³/Hr (To 130 GPM)

Pressure

To 14 BAR (To 200 PSI)

Drive Options

- ' Sealless Mag Drive

Flow Range

To 55,000 cSt (To 250,000 SSU)

Mounting Options

- ' Opposite (180°)
- ' Right Angle (90°)
- ' Flanged ANSI or DIN compatible
- ' NPT

Temperature Range

-5°C to +10°C (-60°F to +22°F)

* Max temperature, special construction, +260°C (+500°F)

Mounting Options

- ' Foot Mount
- ' Motor Mount (close-coupled)

Drive Options

' See chart on page 26 for drive options

Application Examples

' Application examples are available on Pages 3 - 5.

Series

' 855, 893, 895, 897



MOTOR SPEED PUMPS

Compact, Heavy-Duty Pumps for Clean, Less Viscous Liquids

Higher speed operation allows use of smaller pumps. Direct drive design eliminates need for speed reduction equipment. Delivers higher pressures on thin liquids like solvents, fuels, and lube oils. Component mechanical seals resulting in a more compact footprint are standard.

PERFORMANCE

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

ALL MATERIALS

- ' Motor speed operation reduces total cost of ownership by eliminating speed reduction equipment
- ' Heavy-Duty antifriction bearing shaft support for higher pressure and extended pump life
- ' Pressure lubrication system automatically lubricates the idler bushing, increasing pump life
- ' Space-saving, mounting configurations available to better match your installation needs:
 - Foot Mount
 - Motor Mount (Close-Coupled NEMA and IEC)
 - Vertical or Horizontal Inline Mount
- ' Precision thrust control mechanism allows adjustments for accurate rotor positioning, optimizing pump efficiency throughout life cycle

- ' Cast Iron
- ' Steel
- ' Stainless Steel
- ' Alloy C, Alloy 20, and others

To 21 M³/Hr (To 95 GPM)

- ' Packing
- ' Component Mechanical Seal

To 17 BAR (To 250 PSI) *

- ' Opposite (180°)
- ' Flanged
- ' NPT

0.1 to 5,500 cSt (28 to 25,000 SSU)

-40°C to +17°C (-40°F to +35°F)

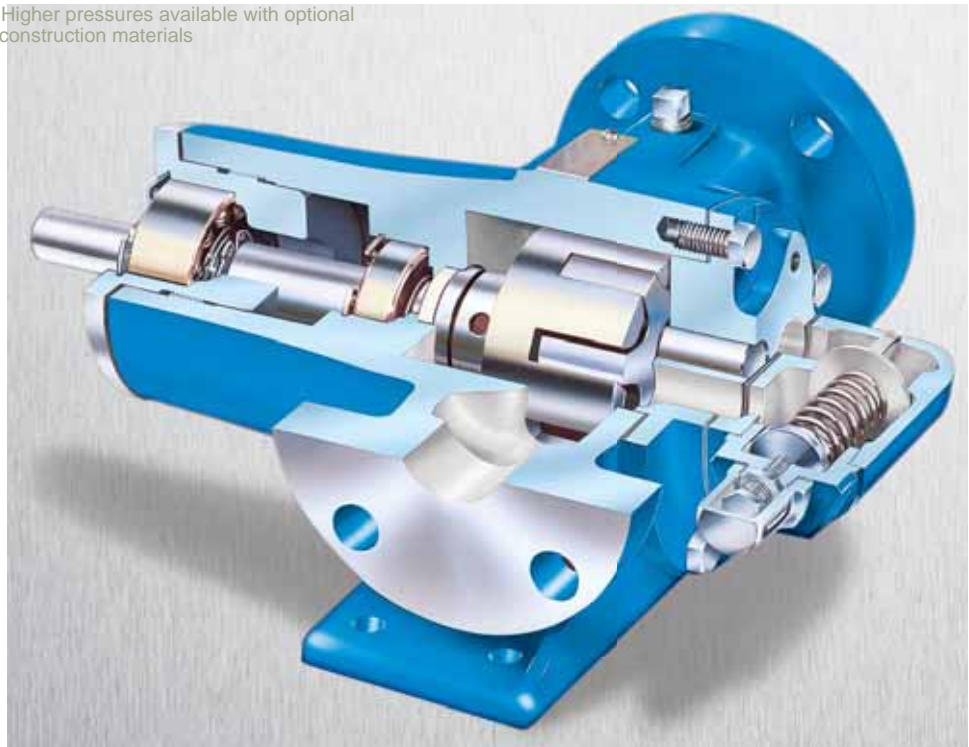
* Higher pressures available with optional construction materials

- ' Foot Mount
- ' Motor Mount (Close-Coupled)
- ' Vertical or Horizontal Inline Mount

' See chart on page 26 for drive options

' Application examples are available on Pages 3 - 5.

' 495, 4195, 493, 4193, 4197



MOTOR SPEED PUMPS - METRIC

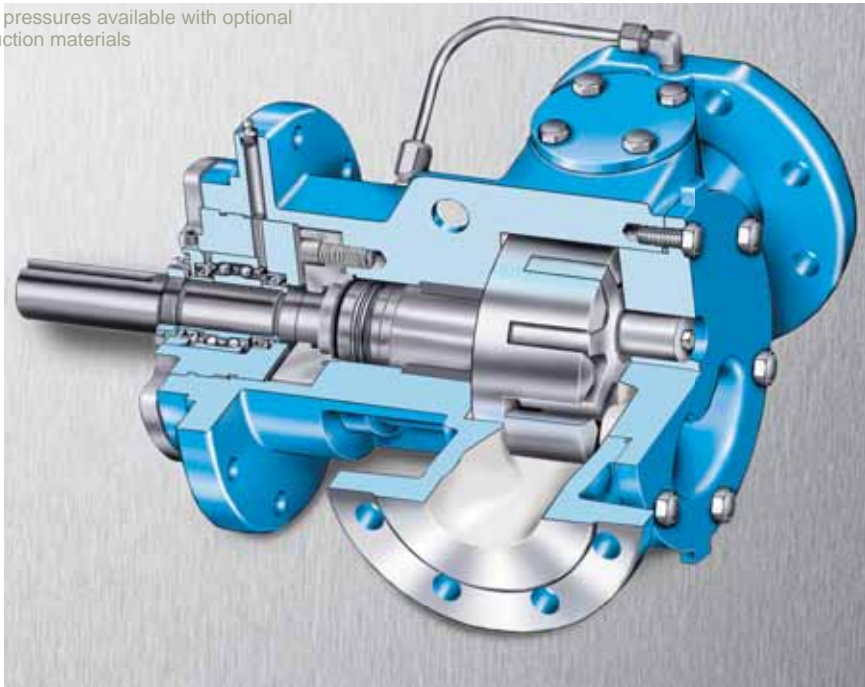
Compact, Metric Heavy-Duty Pump for Clean, Less Viscous Liquids

PERFORMANCE						
Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
		mm	M ³ /Hr		GPM	RPM

DUCTILE IRON

- ' Compact, close-couple design reduces total cost of ownership by eliminating speed reduction equipment
- ' Patented root feed groove and advanced gear geometry optimizes high speed operation
- ' Precision thrust control mechanism allows adjustments for accurate rotor positioning, optimizing pump efficiency throughout life cycle
- ' Robust, large diameter shaft design minimizes shaft deflection, extending mechanical seal life
- ' Space-saving mounting configurations available to better match your installation needs:
 - Foot Mount
 - IEC Motor Mount (Close-Coupled)
- ' DIN seal chamber accepts a wide range of seal options to better match your application requirements

' Ductile Iron	To 45 M ³ /Hr (To 200 GPM)
' Component Mechanical Seal	To 17 BAR (To 250 PSI) *
' Opposite (180°) ' Flanged	To 22,000 cSt (To 100,000 SSU)
' Foot Mount ' IEC Motor Mount (Close-Coupled)	-29°C to +15°C (-20°F to +30°F)
' See chart on page 26 for drive options	* Higher pressures available with optional construction materials
' Application examples are available on Pages 3 - 5.	
' 4076, 4176	



ABRASIVE LIQUID PUMPS

Industrial-Duty Pumps for Abrasive Liquids

This pump is equipped with tungsten carbide wear parts and silicon carbide mechanical seal faces, extending service life and reducing total cost of ownership. Proven design for handling slurries, paints, inks, filled asphalt, and other abrasive liquids.

PERFORMANCE

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

CAST IRON

- ' Extended service life and lower overall cost of ownership provided by:
 - Solid, tungsten carbide components in critical wear areas of pump
 - Other hardened component options available
 - Solid, 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
 - Reduced speed operation
 - Easy clearance adjustment capabilities
- ' Pin drive mechanical seal increases viscosity range
- ' Numerous porting positions, configurations and sizes provide enhanced application flexibility
- ' Simple design with only two moving parts for easy maintenance
- ' A number of drive options available to match customer preference

Abrasion resistant components also available in other series and sizes.

' Cast Iron

To 36 M³/Hr (To 160 GPM)

' Component Mechanical Seal

To 10 BAR (To 150 PSI)

' Jacketed (head and casing)

To 16,500 cSt (To 750,000 SSU)

' Opposite (180°)

-5°C to +12°C (-60°F to +25°F)

' Right Angle (90°)

' Same Side (360°) and FH sizes)

' Flanged

' NPT

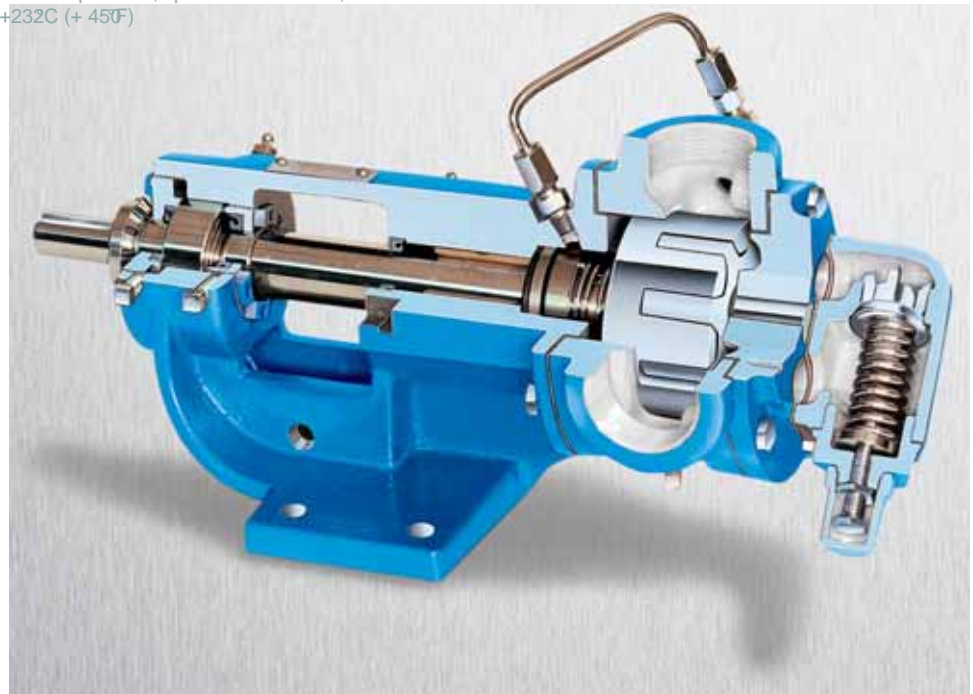
* Max temperature, special construction, +232°C (+450°F)

' Foot Mount

' See chart on page 26 for drive options

' Application examples are available on Pages 3 - 5.

' 4625



SPECIAL LIQUID PUMPS & AMMONIA

Heavy-Duty Pumps for Thin, Volatile Liquids

Designed exclusively to handle ammonia and other high-vapor pressure fluids in both refrigeration and transfer applications, these pumps are operated at low speeds to minimize flashing.

PERFORMANCE - AMMONIA PUMPS

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

CAST IRON

- ' Reduced speed operation for extended pump life
- ' Double mechanical seals with pressurized seal chamber and oil reservoir
- ' Pressure-lubricated idler bushing maximizes bushing life
- ' Adjustable return-to-tank pressure relief valve

' Cast Iron	To 14 M ³ /Hr (To 60 GPM)
' Double Mechanical Seal	To 3.5 BAR (To 50 PSI)
' Opposite (180°) ' Right Angle (90°)	' NPT ' Flanged
' Foot Mount	' Application examples are available on Pages 3 - 5.
' See chart on page 26 for drive options	' 4925



SPECIAL LIQUID PUMPS & LP GAS

Heavy-Duty Pumps for Thin, Volatile Liquids

Designed exclusively to handle LP applications. These pumps are UL listed and other high-vapor pressure liquids for LP service. in both filling and intermittent transfer

PERFORMANCE - LP GAS PUMPS

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

CAST IRON

- ' Motor speed operation eliminates need for speed reduction for easy installation
- ' Heavy-duty anti-friction bearings extend service life
- ' Pressure-lubricated idler bushing maximizes bushing life
- ' Adjustable return-to-tank pressure relief valve

' Cast Iron ' Ductile Iron	To 21 M ³ /Hr (To 95 GPM)
' Mechanical Seal	To 7 BAR (To 100 PSI)
' Opposite (180°) ' Right Angle (90°)	' NPT ' Flanged
' Foot Mount	' Application examples are available on Pages 3 - 5.
' See chart on page 26 for drive options	' 4195G, 4205G



ASPHALT PUMPS

PERFORMANCE - General Purpose

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

CAST IRON

- ' Economical, general purpose and superior performance heavy-duty pumps available
- ' Universal seal capability: packing or cartridge seals
- ' Durable, cast iron construction
- ' Hard materials available for filled asphalt
- ' Jacketing suitable for hot oil or steam for enhanced application flexibility
- ' Variety of jacket connection options including tapped and flange

PERFORMANCE - Heavy Duty

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

CAST IRON

'Cast Iron

To 360 M³/Hr (To 1,600 GPM)

'Packing

To 14 BAR (To 200 PSI)

'Cartridge Mechanical Seal

'Cartridge Triple Lip Seal

'Component Mechanical Seal

To 1,000,000 cSt (To 4,500,000 SSU)

'Jacketed (head and bracket)

To +37°C (To +70°F)

'Fully-Jacketed (casing, head, and bracket)

'Jacketed Relief Valve

'Opposite (180

'Right Angle (90

'Flanged

'NPT

'Foot Mount

'See chart on page 26 for drive options

'Application examples are available on Pages 3 - 5.

'General Purpose: 34, 434

'Heavy Duty: 224A/AH/AE, 4224A/AH/AE/B, 324A/AH, 4324A/AH



GENERAL PURPOSE PUMPS

Economical, Simple Design Pumps for Medium-Duty Applications

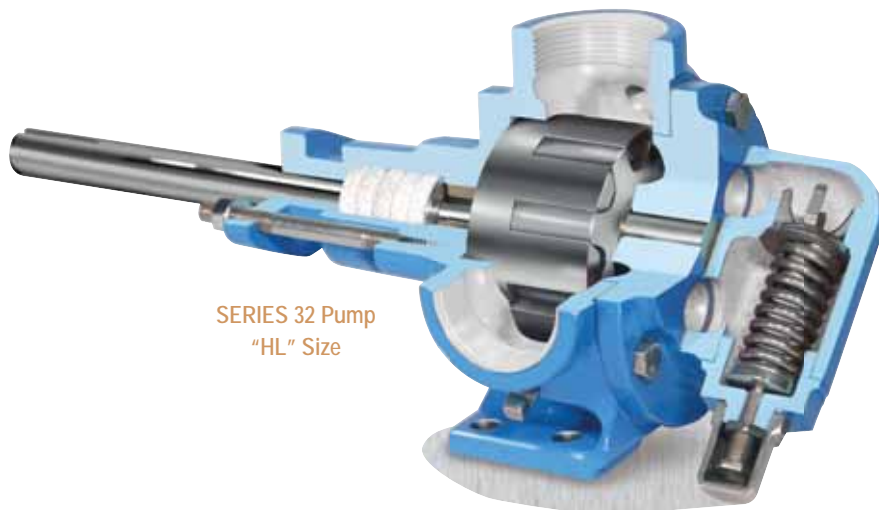
The General Purpose pump uses a simplified rotor retention system available with UL listing for use in power operated oil burners or for use that is well-suited to many medium-duty applications. Some models are

- ' Proven, simple pump design with only two moving parts provides maximum application flexibility
- ' Self-priming pump for applications with suction lift
- ' Choice of shaft seals to match application requirements
- ' UL listing available on selected models
- ' Motor mount option for ease of installation on selected models
- ' Durable, cast iron construction

' Cast Iron	To 102 M ³ /Hr (To 450 GPM)
' Packing ' Lip Seal ' Mechanical Seal	To 17 BAR (To 250 PSI)
' Opposite (180°) ' Right Angle (90°) ' Same Side (360°) ' Flanged ' NPT	To 55,000 cSt (To 250,000 SSU)
	-5°C to +10°C (-60°F to +22°F) (Mech. Seal) -5°C to +14°C (-60°F to +30°F) (Packed)

- ' Foot Mount
- ' Flange Mount (Closed-Coupled)
- ' See chart on page 26 for drive options
- ' Application examples are available on Pages 3 - 5.
- ' 32, 432, 56, 456, 75, 475

PERFORMANCE						
Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI
C-FLANGE MOUNTED						
FOOT-MOUNTED						



SERIES 32 Pump
"HL" Size



SERIES 475 Pump
"HL" Size

IRON EXTERNAL GEAR PUMPS

Viking's External Gear pumps are ideal for handling volatile, odorless and hazardous additives into processes at motor speeds. Used in industrial and pipelines. Its compact, rugged design provides an excellent value and industry leading versatility. Applications such as chemical transfer, lubrication, filtering, packaging and metering. Mag drive configurations available.

- ' Precision machined components afford precise metering and flow control for increased process accuracy
- ' Variety of sealing options including sealless Viking® Mag Drive prevent leakage
- ' Double pump configurations offer two flow rates operating from single motor source, reducing equipment costs
- ' Close-coupled motor mount, foot bracket, and base-mounting options available to match space or motor requirements
- ' Hardened gears and shafts offer long-life performance
- ' Needle bearings provide high pressure capabilities, other bearing configurations available.
- ' UL or NSF listing available on select models

- ' Cast Iron
- ' Ductile Iron (SG-05 & SG-07 only)

To 43 M³/Hr (To 190 GPM)
Custom Pumps to 120 M³/Hr (To 530 GPM)

- ' Lip Seal
- ' Mechanical Seal (Component or Cartridge)
- ' Sealless Viking Mag Drive

To 34 BAR (To 500 PSI) — Continuous
To 170 BAR (To 2,500 PSI) — Intermittent

- ' NPT
- ' BSP
- ' SAE O-Ring
- ' SAE Flange

To 1,000,000 cSt

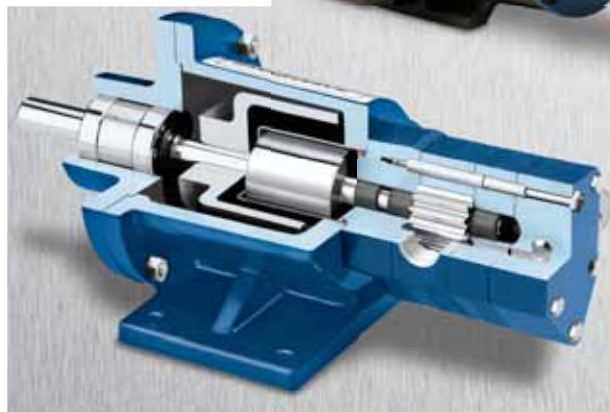
-40°C to +26°C (-40°F to +50°F)

- ' Foot Mount
- ' Motor Mount (close-coupled) for IEC & NEMA Motors

' See chart on page 26 for drive options

' Application examples are available on Pages 3 - 5.

' SG



PERFORMANCE					
Size	Standard Port	Nominal Capacity At 1450 RPM		Nominal Capacity At 1750 RPM	
		LPM	GPM	LPM	GPM
SG-04					
SG-05					
SG-07					
SG-10					
SG-14					

COMPOSITE EXTERNAL GEAR PUMPS

Magnetically driven pumps eliminate associated with complex seals and the need for mechanical shaft seals auxiliary equipment. These pumps are designed for transferring hazardous materials for applications like acids, bases, hard-to-seal, or expensive liquids, halides, volatile organic chemicals and these pumps eliminate the high cost flammable liquids.

PERFORMANCE - CMD SERIES

Size	Standard Port Inches	Nominal Capacity At Maximum Speed				Maximum Pressure	
		1,500 RPM		1,800 RPM		BAR	PSI
		GPM	LPM	GPM	LPM		

- ' Sealless, non-metallic all wetted component construction eliminates mechanical seal and eddy current energy loss for lower cost of owners
- ' Robust design includes heavy-duty, self lubricating materials and patent pending geometry for run-dry capabilities (CMD)
- ' Front pullout design provides simplified in-line servicing (CMD)
- ' Patent pending liner protects casing from wear, extending pump life (CMD)
- ' Regain 100% performance with recommended spare parts kit, for optimal productivity (CMD)
- ' Universal flanges with PTFE inserts mate to both ANSI and DIN flange systems for ease of installation and retrofit (CMD)
- ' Universal motor adapters mate to multiple NEMA and IEC motors for ease of installation
- ' Variety of seal options (VI-CORR)
- ' NPT or ANSI flange available
- ' Higher pressure capability - VI-CORR: 14 BAR (200 PSI), CMD: 10 BAR (150 PSI)
- ' Internal relief valve standard (VI-CORR)

PERFORMANCE - VI-CORR RP SERIES

Size	Standard Port Inches	Nominal Capacity At Maximum Speed				Maximum Pressure	
		1,500 RPM		1,800 RPM		BAR	PSI
		GPM	LPM	GPM	LPM		

- ' Carbon Reinforced ETFE (CMD)
- ' PPS (VI-CORR)
- ' O-Ring (VI-CORR)
- ' Lip Seal (VI-CORR)
- ' Sealless Mag Drive
- ' NPT
- ' Flanged (ANSI or DIN)
- ' Motor Mount
- ' Foot Mount (CMD)
- ' See chart on page 26 for drive options
- ' Application examples are available on Pages 3 - 5.
- ' Composite Mag Drive: CMD
- ' VI-CORR: RP

To 125 LPM (To 33 GPM) (CMD)
To 121 LPM (To 32 GPM) (VI-CORR)

To 10 BAR (To 150 PSI) (CMD)
To 14 BAR (To 200 PSI) (VI-CORR)

To 5,500 cSt (To 25,000 SSU)

-40°C to +6°C (-40°F to +15°F) (CMD)
-40°C to +9°C (-40°F to +20°F) (VI-CORR)



CMD SERIES PUMP



VI-CORR SERIES

VANE PUMPS

Vane Pumps for Corrosive, Thin Liquids at Higher Pressures

A stainless steel vane pump design applications ranging from harsh chemicals to liquefied gases to deionized water. Rugged, industrial-duty pump to handle liquid transfer

PERFORMANCE

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

STAINLESS STEEL

- ' 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
- ' Superior suction lift capability for enhanced self-priming ability
- ' Non-metallic vanes and push rods extend pump life
- ' Short-term dry-run-capability tolerates process upsets without pump damage
- ' 20 minute in-line vane replacement reduces scheduled downtime for lower cost of ownership
- ' Smooth, non-pulsing flow with reversible direction of flow for application flexibility
- ' Tailored sealing solutions for application flexibility
- ' Pump design offers ANSI or DIN flanges, and IEC or NEMA motor mounts to conform to international standards for enhanced application flexibility

' Stainless Steel

To 36 M³/Hr (To 160 GPM)

- ' Component Mechanical Seal
- ' Cartridge Mechanical Seal
- ' Cartridge Triple Lip Seal

To 14 BAR (To 200 PSI)

To 500 cSt (To 2,300 SSU)

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

-29°C to +10°C (-15°F to +22°F)

* Temperature range, special construction, -51°C to 260°C (-60°F to 500°F)

- ' Motor Mount (Size 017/027 only)
- ' Foot Mount

' See chart on page 26 for drive options

' Application examples are available on Pages 3 - 5.

' LVP



INDUSTRIAL LOBE PUMPS

High Pressure Performance With Superior Sealing Flexibility

Proven design of the RL series handles sealing, porting, and lobe clearance adjustment to optimize the pump for a broad range of fluid viscosities when higher pressures are required. Unique patented design emphasizes flexibility

PERFORMANCE

Size	Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
	Inches	M ³ /Hr	GPM	RPM	BAR	PSI

- ' Accepts industry standard cartridge seals for maximum flexibility
- ' Port sizes from 3 to 10 inches to handle a broad range of fluid viscosity
- ' Rugged rotor shaft support for longer life and higher pressure capability
- ' Shimless design for ease of maintenance
- ' Bi-directional design for easy loading and unloading applications
- ' Proven success beyond catalog ratings with special construction and factory approval

' 316 Stainless Steel

To 186 M³/Hr (To 820 GPM)

- ' Packing
- ' Component Mechanical Seal
- ' Cartridge Mechanical Seal
- ' Cartridge Triple Lip Seal

To 27 BAR (To 400 PSI)

- ' Opposite (180°)
- ' Flanged

To 440,000 cSt (To 2,000,000 SSU)

- ' Foot Mount

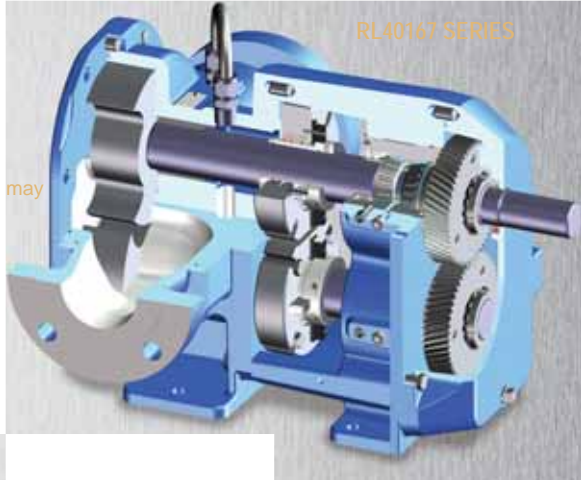
-40°C to +20°C (-40°F to +40°F)

* Special sealing or materials of construction may be required.

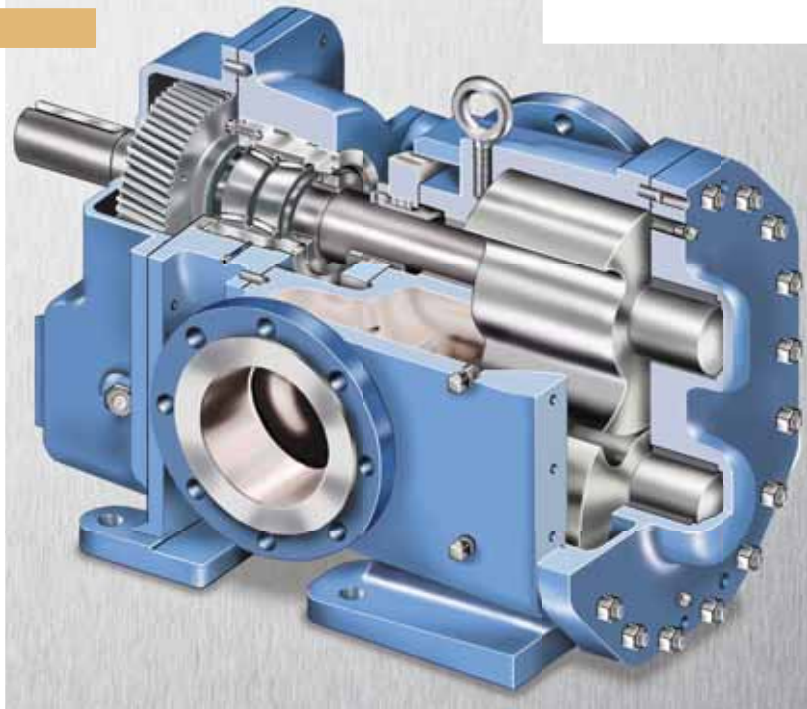
' See chart on page 26 for drive options

' Application examples are available on Pages 3 - 5.

' RL



RL40167 SERIES



RL41507 SERIES

LID-EASE STRAINERS



GEAR REDUCERS

Pump Requirements

line
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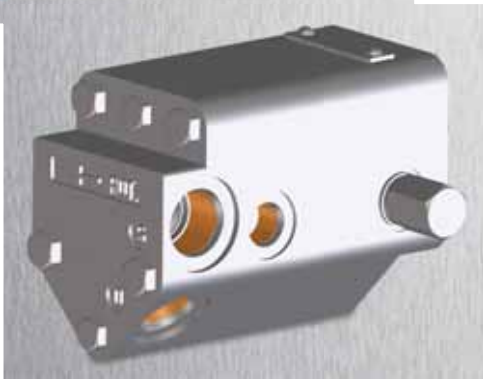
IN-LINE REDUCE



heights

OF

CUSTOM SOLUTIONS



DUPLIX FUELED DIESEL

Factory engineered and built to order duplex fuel oil sets and control panels for oil transfer applications like fueling diesel generators and oil filtration / recirculation.

PERFORMANCE									
Duplex Package Model	Viking Pump Model	Suction Header	Discharge Header	Relief To Tank	Nominal Pump Rating			Max. Recomm. Discharge Pressure	
		Pipe Size (NPT)			GPM	LPM	RPM	PSI	BAR

SUCTION LINE

- ' 2 - Viking Lid-Ease basket strainers
- ' 2 - Ball valves
- ' 2 - Compound gauges with gauge valves

- ' Pressure switches
- ' Pressure control valves
- ' Flow switches
- ' Thermometers
- ' Flexible connectors
- ' Water removal filters
- ' Galvanized base plates
- ' Flow meters and totalizers
- ' Control panels
- ' In-line or side-by-side mounting

DISCHARGE LINE

- ' 3 - Check valves
- ' 2 - Ball valves
- ' 2 - Relief valves
- ' 2 - Pressure gauges with gauge valves

0.2 to 284 LPM (1 to 75 GPM)
Larger capacities available, consult factory.

SUCTION/DISCHARGE PIPING

- ' Schedule 40 carbon steel piping
- ' Leak tested with 100 PSI air and soap water (0.3 to 34 BAR to 500 PSI)
- ' Coated with Vinyl Toluene Alkyd, quick dry enamel

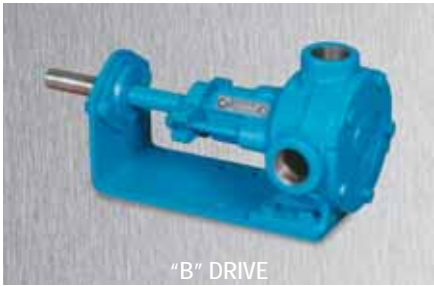
3 to 2,500 cSt (38 to 25,000 SSU)

- ' Fueling diesel generators for backup electrical power generation
- ' Fuel oil transfer from storage to day tank
- ' Boosting low pressure fuel oil to oil-boilers and fired furnaces
- ' Oil filtration recirculation to ensure clean and/or water-free oil

-20°C to +82°C (4°F to 180°F)



DRIVES



"B" DRIVE



"M" DRIVE



"D" DRIVE





A Unit of IDEX Corporation

Leader in Positive Displacement Pumping Solutions.

Innovation and Experience

Viking Pump has been a pump industry leader and innovator since its founding in 1911. We continue to build on our ever growing experience delivering innovative new pumping solutions, including custom designs, to thousands of customers who use Viking pumps in some of the world's toughest applications.

Broad Performance Range

Capacity:
0.5 to 360 M³/Hr (0.1 to 1,600 GPM)
Pressure:
0 to 172 Bar (0 to 2,500 PSI)
Temperature:
-84°C to 370°C (-120°F to 700°F)
Viscosity:
0.5 to 1,000,000 cSt (28 to 4,500,000 SSU)

Ultimate in Sealing Solutions

Viking's offering of packing, component mechanical seals, cartridge seals and sealless Mag Drive technology provides the best choices for sealing flexibility needed to provide your application a customized sealing solution every time - saving you, time and unplanned downtime.

Material Options Matched to Application

Viking's dedicated iron and alloys foundries provide pump construction materials from cast iron to Alloy C. Application-specific materials of construction extend a pump's life significantly while reducing maintenance and unplanned downtime, enabling increased production and a better bottom line.

Liquid Integrity Protection

Viking has developed multiple positive displacement pump principles to protect shear-sensitive liquids, and low-shear options to prevent damage to herbs, polymers and solids. Full-jacketing options provide precise temperature control throughout the pump. The Viking Mag Drive and other seal options prevent fluid contact with, assuring liquid integrity.

Local Applications and Engineering Support

Over 245 Authorized Viking Pump Distributors in 68 countries provide local application support. They are backed by Viking Application Engineers and Viking Region Managers strategically located around the world.

Quality Manufacturing

Viking uses ISO9001-2008, Six-Sigma, and Lean/Kaizen in its worldwide manufacturing and assembly processes to remove waste, reduce development costs, and deliver superior products. Dedicated Viking foundries and manufacturing facilities utilize state-of-the-art CNC equipment that ensures unmatched quality is built into every pump.

Custom Designed Solutions

Viking has provided custom designed pumps to end-users and OEMs since its inception in 1911, when Viking invented the gear-within-a-gear pumping principle to remove water from rock quarries. Today enabled by Viking's engineering staff, extensive applications experience and in-house foundries, more than 20% of Viking's sales are new designs or pump designs derived from one of our 40,000 active correlations. Whether you are an end-user or an OEM, Viking can provide custom designed pumping solutions to meet your specific needs.



4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX
Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48
Demande de prix / e-mail : service-commercial@motralec.com
www.motralec.com