

PRODUCT SELECTION GUIDE



Worldwide Leader Since 1911 for Positive Displacement Pumping Solutions for Industrial, OEM, and Sanitary Applications.



Behind Every Good Product is a Good Pump

And Engineering Expertise

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

- Nearly a century of service to industry
- Problem-solving from water to virtually any liquid
- Extensive engineering lab
- Broad range of positive displacement pumps to handle your application
- Pumps that accept industry standard seals
- Pumps with sealless design
- Pumps designed for abrasives
- Pumps with integrally cast jacketing
- Custom pump solutions offered beyond standard offering
- 11 active patents held



Setting World Class Standards

Viking[®] Pumps Keep the World's Processes Flowing

Six manufacturing centers around the globe provide world class solutions for precision fluid handling.

- Viking pumps are found in nearly 200 countries
- More than 245 authorized, stocking distributors
- Multi-million dollar point-of-sale inventory strategically located globally, backed by factory inventory
- Vertically integrated manufacturing with captive foundries
- Every pump tested before shipping
- ISO9001 and ISO14001 certified
- Longest warranty program in the industry



Focusing on Your Applications

Put Viking Pump's Experience to Work for You

We have documented experience on thousands of liquids 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 DI water)
- 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)

We're Familiar with Your Industry

What's Your Application?

Viking has the experience and product options to solve your fluid handling challenges. You have a choice of application specific products and positive displacement technologies including:

- Internal gear
- External gear
- Rotary lobe
- Rotary vane
- Gerotor

Accessories like:

- Helical gear reducers
- Power load monitor
- Basket strainers
- Pump systems

For examples of the industries and applications we are familiar with, refer to pages 4-9.



Chemicals

Markets and Applications Served in the Chemical Industry

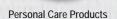




Polyurethane Foam Products



Paint & Applied Products



Soaps & Cleaning Compounds



Printing Inks



Drugs / Pharmaceutical

Plastics / Resins / Rubbers

Petrochemicals

Polyurethane Foam Products

Paint and Applied Products

Personal Care Products

Soaps and Cleaning Compounds

ENGINEERING I CONCERNENT IN CONCERNENT

Ethyl Alcohol Manufacturing

Other Basic Inorganic Chemicals

Printing Inks

Synthetic Dyes and Pigments

Other Basic Organic Chemicals

Plastic and Rubber Products

Drugs / Pharmaceutical

Chemicals and Allied Products Wholesaling

Explosives

All Other Chemicals

Food Processing

Grain and Oilseed

Chocolate and Confectionery

Animal Slaughtering / Processing

Other Food

Animal Food

Sugar

Beverage

Dairy Products

Markets and Applications Served in the Food Processing Industry





Animal Food



Grain & Oilseed



Sugar



Beverage



Dairy Products

Refined Petroleum & Coal

Markets and Applications Served in the Refined Petroleum & Coal Industries





Lubricating Oil & Grease Manufacturing



Asphalt Paving Mixtures

Asphalt Paving Mixtures

Oil and Gas Extraction

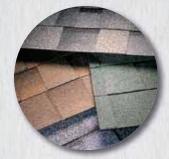
Lubricating Oil and Grease Manufacturing

Roofing Products

Petroleum Refineries

Petroleum, LPG, and CNG Distribution

Other Petroleum and Coal Products



Roofing Products



Petroleum Refineries



Other Petroleum and Coal Products

Machinery

Markets and Applications Served in the Machinery Industry





Engine and Turbine Manufacturing

Commercial Cooking Machinery

Pumps and Compressor Manufacturers

Non-Electrical Machinery

Construction / Mining / Material Handling Equipment

Special Industry Machinery

Construction

Semiconductor Machinery Manufacturing

Machine Tools

Farm Machinery

Packaging Machinery

Printing Machinery

Medical Equipment

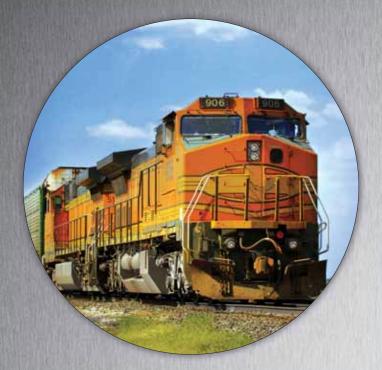
Other Machinery

Farm Machinery

Printing Machinery

Transportation

Markets and Applications Served in the Transportation Industry





Automotive



Automotive

Military

Truck

Pipelines

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Aircraft Equipment

Other Transportation



Military



Truck



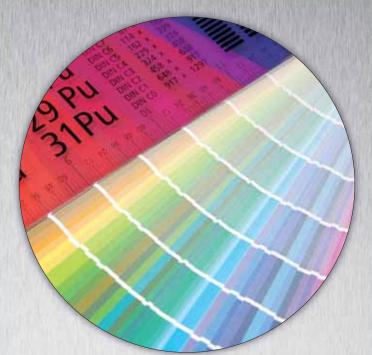
Pipelines



Aircraft Equipment



Markets and Applications Served in Other Industries



Pulp / Paper / Allied Products

Industrial Refrigeration Equipment

Utilities

Mining

Metals

Industrial Equipment and Supply Wholesalers



Heating Equipment



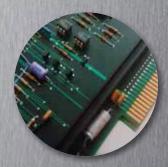
Pulp / Paper / Allied Products



Textile Manufacturing



Wastewater Treatment



Electronics / Electrical Equipment

Heating Equipment Printing and Publishing Fabricated Metal Product Textile Manufacturing Other Miscellaneous Manufacturing Wastewater Treatment Water Treatment / Conditioning Measuring and Controlling Devices Electronics / Electrical Equipment



SPECTRUM OF OPTIONS

There is Nothing Standard About Your Application or Our Heavy-Duty Pumps

General purpose gear pumps are well-suited for low-pressure transfer of lubricating fluids with moderate viscosities. For everything else, Viking's heavy-duty pumps offer a spectrum of options to match the pump to the application. These options can help reduce life cycle cost by minimizing corrosion and abrasive wear, by improving lubrication, and by minimizing leakage at shaft seals; reducing downtime, maintenance, and extending pump life.

Viking's heavy-duty gear pumps are versatile and rugged. They can be configured and tuned to the application and the fluid pumped, through use of specific materials of construction, setting of clearances and other optional features.

The table on page 11 lists some of the constructions and features offered.



ACCESSORIES (PAGES 28 - 31)

- Lid-Ease Strainer (Page 28)
- Duplex Fuel Oil Sets (Page 29)
- Gear Reducers Helical Offset and In-Line (Page 30)
- Drives (Page 31)

SEALING

The single most common cause of downtime is seal leakage. To keep pumps running, Viking offers these sealing options:

- Packing
- Single mechanical seals
- Double mechanical seals
- Triple lip seals
- Cartridge seals
- Sealless Mag Drive

CORROSION

To handle corrosive fluids, Viking offers various alloys, composites, and elastomers, including:

- 316 Stainless Steel
- 316 L Stainless Steel
- 316 Ti Stainless Steel
- Alloy C
- Alloy 20
- MonelBronze
- ETFE

VISCOSITY

Viking pumps can be configured for optimum performance on thin or thick liquids, or any combination including:

- Models for thin liquids
- Models for thick liquids
- Special decisions for multiple viscosities

TEMPERATURE

- For extreme temperature applications (hot or cold), Viking offers:
- Metals
- Seals
- JacketingTemperature Probes
- STANDARDS

Many Viking products meet industry standards for certifications such as UL, NSF, ANSI, ATEX and CE

ABRASION

To combat the effect of abrasives, Viking offers a variety of hard materials for various parts, including:

- Tungsten carbide
- Silicon carbide
- Ceramic
- Hardened iron, steel, and stainless steel
- Various hard coatings

PORTING

To accommodate various piping systems, Viking's heavy-duty pumps offer a variety of port orientation and configuration options, including:

- 90° and 180° ports
- Tapped ports
- ANSI, DIN and JIS compatible flanges
- Flat and raised face flanges
- Oversized ports
- Top, bottom, or side suction/discharge

SELECTION GUIDE

PUMPING PRINCIPLE		K THE THE	NAME AND A	INTER	RNAL GEA	R		10000	EX	TERNAL G	EAR	VANE	VANE LOBE		OEM
CATEGORY	Н	eavy Dut	v	Sealless		Special Purpose	9		Metal	Comp	osite				
SERIES	Universal Seal	Motor Speed	Motor Speed (Metric)	Viking Mag Drive	Abrasive Liquids	Thin, Volatile Liquids	Asphalt	General Purpose	Spur Gear	Non- Metallic Mag Drive		Rotary Vane	Stainless Steel Lobe	Industrial Lobe	Custom Solutions/
Performance	1977年1月	1-1127	MUM	ASPAN,	YE THERE		NA BE	2042	12.172	124,100	NAME.	20.35	at states		14.80.833
Max. Capacity, M³/Hr	360	17	45	114	36	21	360	102	7.2	4.5	7.2	36	230	186	360
Max. Capacity, GPM	1,600	75	200	500	160	95	1,600	450	32	20	32	160	1,014	820	1,600
Max. Capacity, LPM	6,056	284	757	1,193	606	360	6,056	1,703	121	75	121	606	3,838	3,104	6,056
Max. Pressure, BAR	14	17	17	14	10	7	14	17	34	10	14	14	15	27	172
Max. Pressure, PSI	200	250	250	200	150	100	200	250	500	150	200	200	215	400	2,500
Max. Viscosity, cSt	1,000,000	5,500	22,000	55,000	16,500	N/A	55,000	55,000	16,500	5,000	5,500	500	110,000	1,000,000	1,000,000
Max. Viscosity, SSU	4,500,000	25,000	100,000	250,000	750,000	N/A	250,000	250,000	75,000	25,000	25,000	2,300	500,000	4,500,000	4,500,000
Max. Temp. °C *	+371	+177	+150	+260	+232	-40 to +107	+371	+371	+232	+65	+93	+260	+149	+204	+371
Max Temp. °F *	+700	+350	+300	+500	+450	-40 to +225	+700	+700	+450	+150	+200	+500	+300	+400	+700
Sizes	RUN YOST	and also	Chirada and	542 B. 194	18558		NE DE T		11043	DATE P	1,21,11,11,5	105781	1211	11 2 1 2 1	(1) (1)
Number of Sizes in Series	16	6	6	15	12	11	14	17	23	5	4	6	15	3	1000+
Casing Material		1.482.4	Statistics.	120407			1.118.13	1.811.	10014	1200000		STATE	11111111	18 20 × 10	18/13/9/9
Cast Iron										0.2.02004920	ALL DOUBLY	100 100 100	NA SOFTAND		
Ductile Iron															
Steel															
Stainless Steel															
Composite										ETFE	PPS				
										LIIL	ггэ				
Alloy C, Alloy 20 & Others			der tradito						CONTRACTOR OF	CONTRACTOR IN	1.1124.94	11/10/16/90	CARL DOUGH	101030000000	NAME AND A DESCRIPTION OF
Sealing									11111		41919-13.6	0.5.0.30	27" A & B & B		
Packing															
Lip Seal															
Component Mechanical Seal															
Cartridge Mechanical Seal															
Cartridge Triple Lip Seal															
Sealless Mag Drive															
O-Ring															
Options	1.60.181						111815			1 Ball	1. 14		10-518416	it is the	
Jacketed (head/bracket)															
Fully Jacketed (casing/head/bracket)															
Ports	6.169.3						1220						122.4线路		
Opposite (180°)															
Right Angle (90°)															
Same Side (360°)															
Flanged															
NPT															
Mounting											101131		N. F. Sta	REAL	ST Part
Foot Mount															
Flange Mount (Close-Coupled)															
Vertical In-Line															
APPLICATIONS	3.111	133	1111	Stor III	and the		Sal Mill	12313	819313	LA STATA	A.V.C.S.	10.43	5019	11-11-2	N. C. C.
High Temperature															
Abrasives															
Corrosives															
High Viscosity						<u> </u>									
Medium Viscosity															
Low Viscosity															
PAGE	12 & 13	14	15	16	17	18	19	20	21	22		23	24	25	26

* Maximum temperature with special construction

UNIVERSAL SEAL SERIES

Industrial-Duty Pumps Offering Design Flexibility and Easy-Maintenance

Viking's flagship series of industrialduty internal gear pumps, designed to accommodate virtually all seals. Proven design provides superior flexibility to adapt to the most challenging applications.

CUSTOMER BENEFITS

- Pumps accommodate virtually all sealing types and manufacturers
- Industry leading selection of application specific material options to maximize pump life
- 16 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 stackup
- 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

MATERIALS

- Cast Iron
- Ductile Iron
- Steel
- Stainless Steel
- Alloy C, Alloy 20, and othersHard Materials

SEALING

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

PORTS

- Opposite (180°) (Rotatable Casing)
- Right Angle (90°) (Rotatable Casing)
 NPT
- Flanged (ANSI or DIN)
 Custom
- MOUNTING
- Foot Mount
- Direct Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

 Application examples are available on Pages 4 - 9.

CAPACITY

To 360 M³/Hr (To 1,600 GPM)

PRESSURE

To 14 BAR (To 200 PSI) **

VISCOSITY

TEMPERATURE

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

-84°C to +371°C (-120°F to +700°F)*

- * Special construction required.
- ** Higher pressures available with factory approval

		Standard Port	Capad	ninal city At m Speed	Maximum Speed	Maxi Pres	
	Size	Inches	M³/Hr	GPM	RPM	BAR	PS
	G (1)	1.0	2	8			
	Н	1.5	3	15	1,750		
Ш	HL	1.5	7	30			
CAST IRON - DUCTILE IRON - STEEI	AK ①		11	50	1,150	. 14.0	
	AL ①		17	75	1,150		
	К	2.0	17	75	780		
	KK		23	100	700		200
Ξ	L		31	135	640		
UC ¹	LQ	2.5	51	100	040	14.0	20
D	LL	3.0	32	140	520		
NC	LS	5.0	45	200	640		
Щ Ц	Q	4.0	68	300	520		
VST	QS	6.0	114	500	520		
C	Ν	0.0	136	600	350		
	R	8.0	250	1,100	280		
	RS	10.0	365	1,600	280		
	F①	0.5	0.3	1.5	1800		
	FH ①	0.75	0.7	3	1000	28	40
	G (1)	1	1	5	1200		
	н	1.5	2	10	1,150		
	HL	1.0	5	20	1,100		
Ë	К	2.0	11	50	520	10.0	15
S	KK		15	65	020	10.0	
STAINLESS STEEI	LQ	2.5	21	90	420		
NLI	LL	3.0	25	110			
TAI	LS		36	160	520		
S	Q	4.0	71	200		8.5	12
	QS	6.0		310	350		
	Ν		138	600		14.0	20
	R	8.0	250	1,110	280	12.0	17
	RS	10.0	365	1,600	280	14.0	20

Integral relief valve is standard.

① Not a Universal Seal bracket design. Considered Heavy Duty design.



JACKETED UNIVERSAL SEAL PUMPS

Temperature Controlled Industrial-Duty Pumps

With all of the features and benefits of the Universal Seal series, these pumps offer a variety of jacketing options to easily handle fluids that require either heating or cooling. Standard jacketed pumps feature a jacketed head and bracket, ideal for applications like asphalt and chocolate. Fully-jacketed pumps add jacketed casing and flange areas, providing uniform temperature control for critical processes like ABS, epoxy, and PET resins.

CUSTOMER BENEFITS

- Jacketing options available for all critical areas of pump including bracket, seal, casing, flanges, head and relief valve
- Large available jacketing areas allow rapid heating and cooling capabilities for faster startup
- Allows a variety of heating or cooling media including hot oil, steam, and water
- Variety of jacket connection options including tapped and flange
- Multiple jacket connection locations allow for easier piping
- Clearances optimized for maximum efficiency
- Numerous porting positions, configurations and sizes provide enhanced application flexibility
- Proven uniform temperature control for improved product consistency

MATERIALS

- Cast Iron
- Ductile Iron
- Steel
- Stainless Steel
- Alloy C, Alloy 20 , and others
- Hard material options available for abrasive
 liquids

SEALING

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

PORTS

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

MOUNTING

- Foot Mount

Direct Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY

To 360 M³/Hr (To 1,600 GPM)

PRESSURE

To 14 BAR (To 200 PSI) **

VISCOSITY

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

TEMPERATURE *

-84°C to +371°C (-120°F to +700°F)

- * Max temperature, special construction, 371°C (700°F)
- ** Higher pressures available with factory approval

PERFORMANCE - UNIVERSAL SEAL								
		Standard Port	Capad	ninal city At m Speed	Maximum Speed	Maxi Pres	** mum sure	
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI	
	Н	1.5	3	15	1,750			
	HL	1.0	7	30	1,750			
ST	К		17	75	780			
- N	KK	2.0	23	100	100	-		
L S	L		31	135	640			
Ш	LQ	2.5		100	040			
CT	LL	3.0	32	140	520	14.0	200	
CAST IRON - DUCTILE IRON - STEEI	LS	0.0	46	200	640			
ż	Q	4.0	68	300	520			
R0	QS	6.0	114	500				
ST	Ν	0.0	138	600	350			
CA	R	8.0	250	1,100	280			
	RS	10.0	365	1,600	200			
	Н	1.5	2	10	1,150			
	HL	1.0	5	20	1,100			
	К	2.0	11	50	520	10.0	150	
	KK		15	65				
STI	LQ	2.5	21	90	420			
SS	LL	3.0	25	110	-			
STAINLESS STEEI	LS		36	160	520			
AIN	Q	4.0	71	200		8.5	125	
ST	QS	6.0		310	350			
	Ν		138	600		14.0	200	
	R	8.0	250	1,100	280	12.0	175	
	RS	10.0	365	1,600		14.0	200	
PE	_	1	1	1	TH IRON J			
	НŒ	1.5	2	10	1200	28	400	
	HL ①	1.5	5	20	1200	28	400	
SS	К 🛈	2	10	45	520	28	400	
ES	KK ①	2	15	65	520	28	400	
IN	L①	2	20	90	420	28	400	
STAINLESS STEEI	LQ ①	2.5	20	90	420	28	400	
	LL ①	3	25	110	420	28	400	

Integral relief valve is standard.

 Not a Universal Seal bracket design. Considered Heavy Duty design.



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, resulting in a more compact footprint. Delivers higher pressures on thin liquids like solvents, fuels, and lube oils. Component mechanical seals are standard.

CUSTOMER BENEFITS

- 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

MATERIALS

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

SEALING

- Component Mechanical Seal

PORTS

Opposite (180°)Flanged

MOUNTING

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

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

noughout me cycle
CAPACITY
To 17 M³/Hr (To 75 GPM)
PRESSURE
To 17 BAR (To 250 PSI) *
VISCOSITY
0.1 to 5,500 cSt (28 to 25,000 SSU)
TEMPERATURE

- -40°C to +177°C (-40°F to +350°F)
- Higher pressures available with optional construction materials

	PEF	PERFORMANCE											
State of the state			Standard Port	Capad	Nominal Capacity At Maximum Speed		Maximum Pressure						
		Size	Inches	M³/Hr	GPM	RPM	BAR	PSI					
1	S	GG	1.0	2	10								
ĥ	IAL	HJ	1.5	5	20	1,800	17	250					
1	LL MATERIALS	HL	1.5	7	30								
		AS	2.5	8	35		17	250					
		AK	2.5	11	50	1,200							

17

75

Integral relief valve is standard.

3.0

AL

MOTOR SPEED PUMPS (Metric)

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

Metric design pump available with close-coupled IEC motor mount or foot mount. It offers motor speed operation to eliminate the speed reducer, which reduces overall system cost and space required, while offering relatively highviscosity capabilities. A wide variety of component mechanical seals are available.

CUSTOMER BENEFITS

- 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

MATERIALS

Ductile Iron

SEALING

- Component Mechanical Seal

PORTS

- Opposite (180°)
- Flanged

MOUNTING

- Foot MountIEC Motor Mount (Close-Coupled)

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY

To 45 M³/Hr (To 200 GPM)

PRESSURE

To 17 BAR (To 250 PSI) *

VISCOSITY

To 22,000 cSt (To 100,000 SSU)

TEMPERATURE *

-29°C to +150°C (-20°F to +300°F)
* Higher pressures available with optional construction materials

PERFORMANCE

1		ANGL					
		Standard Port	Maximum Speed		Maximum Speed	Maximum Pressure	
	Size	mm	M³/Hr	GPM	RPM	BAR	PSI
-	HLE	40	6	26	1,450		
lõ.	ATE	65	12	54		17	250
	ALE	00	21	94			
	KE	80	29	126			
DUCTILE IRON	KKE	00	38	170		12	215
	LQE	100	45	200	970		

Integral relief valve is standard.



VIKING MAG DRIVE® PUMPS

Sealless Pumps for Crucial Liquid Containment Applications

Magnetically driven pumps eliminate the need for mechanical shaft seals. Designed for transferring hazardous, hard-to-seal, or expensive liquids, these pumps eliminate the high cost associated with complex seals and auxiliary equipment. These pumps are ideal for applications like caustics, isocyanates, adhesives, solvents, and mercaptans.

CUSTOMER BENEFITS

- 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
 SEALING

- Sealless Mag Drive

OPTIONS

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

PORTS

- Opposite (180°)
- Right Angle (90°)
- Flanged
- (ANSI B16.5-compatible or DIN 2501-compatible)
 NPT

MOUNTING

- Foot Mount
- Motor Mount (close-coupled)

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

 Application examples are available on Pages 4 - 9.

2	Δ		Λ.	01	T.	11	
	А	P	41			Y	
-							

To 114 M³/Hr (To 500 GPM) **PRESSURE** To 14 BAR (To 200 PSI)

VISCOSITY

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

TEMPERATURE *

- -51°C to +107°C (-60°F to +225°F)
- * Max temperature, special construction, +260°C (+500°F)

		Ports *	Capad	ninal city At m Speed	Maximum Speed	Maxi Pres	
	Size	Inches (MM)	M³/Hr	GPM	RPM	BAR	PSI
	GS	1.0 (25)	1.1	5			
	GG	1.0 (23)	2.2	10		14.0	200
NO	HJ	1.5 (40)	4.5	20	1,750	14.0	200
SERIES 855 CAST IRON	HL	1.5 (40)	6.8	30			
355 C/	AS		12.5	42			150
RIES 8	AK	3.0 (65)	19.0	66	1,450	10.3	
SEF	AL		25.0	88	1,450		
	KE	2.0 (90)	28.0	94	1 150		
	KKE	3.0 (80)	38.0	130	1,150		
EL, 'EEL	GG	1.0 **	2.3	10			
SERIES 893, 895, 897 STEEL, AST IRON, STAINLESS STEEI	HJ	1.5 **	4.5	20	1,800	8.5	125
95, 89 [.]	HL	1.5	6.8	30			
393, 89 N, ST/	AS		8.0	35			120
RIES E	AK	3.0 **	11.0	50	1,200		
SER CAST	AL		17.0	75			
EL, 'EEL	К	2.0 **	18.0	80	780		
SERIES 823, 825, 827 STEE AST IRON, STAINLESS STE	KK	2.0	22.0	100	100		
IES 823, 825, 827 STE IRON, STAINLESS ST	LQ	2.5	31.0	135	640	8.5	125
323, 8. N, ST/	LS	3.0	45.0	200	040	0.0	120
RIES 8 T IRO	Q	4.0	68.0	300	520		
SER CAST	QS	6.0	114.0	500	520		

* ANSI = Inches / DIN = MM

** Cast Iron models have NPT ports, AS & AK models are 2.5".



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. A proven design for handling slurries, paints, inks, filled asphalts, and other abrasive liquids.

CUSTOMER BENEFITS

- 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 bushing
 - Standard, 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

MATERIALS

Cast Iron

SEALING

Component Mechanical Seal

OPTIONS

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

PORTS

- Opposite (180°)
- Right Angle (90°)
- Same Side (360°) (F and FH sizes)
- FlangedNPT
- INF 1

MOUNTING

- Foot Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY
To 36 M ³ /Hr (To 160 GPM)
PRESSURE
To 10 BAR (To 150 PSI)
VISCOSITY
To 16,500 cSt (To 750,000 SSU)
TEMPERATURE *

- -51°C to +121°C (-60°F to +250°F)
- * Max temperature, special construction, +232°C (+ 450°F)

F	PEF	RFORM	ANCE					
			Standard Port		ninal city At m Speed	Maximum Speed	Maximum Pressure	
K.		Size	Inches	M³/Hr	GPM	RPM	BAR	PSI
		F	0.5	0.17	0.75	870	7.0	100
8		FH	0.5	0.34	1.5		7.0	100
8		Н	1.5	1.10	5.0	640		
1		HL	1.5	2.30	10.0	040		
	CAST IRON	Κ		5.60	25.0	280		
		KK	2.0	7.90	35.0		10.0	150
ŀ	VST	L		11.30	50.0			
	ີ ປ	LQ	2.5	11.30	50.0	230		
		LL	3.0	14.80	65.0			
		Q	5.0	25.00	110.0	190		
9		М	4.0	32.00	140.0	155	8.5	125
		QS	6.0	36.00	160.0	190		

Abrasion resistant components also available in other series and sizes.

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.

CUSTOMER BENEFITS

- 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

MATERIALS	CAPACITY
Cast Iron	To 14 M ³ /Hr (To 60 GPM)
SEALING	PRESSURE
- Double Mechanical Seal	To 3.5 BAR (To 50 PSI)
PORTS	TEMPERATURE
 Opposite (180°) Right Angle (90°) 	-40 to +107°C (-40 to +225°F)
• NPT	DRIVES
Flanged	- See chart on page 31 for drive option
MOUNTING	APPLICATIONS
- Foot Mount	 Application examples are available Pages 4 - 9.

PERFORMANCE - AMMONIA PUMPS									
		Standard Port	Nom Capac Maximui	city At	Maximum Speed	Maximum Pressure			
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI		
١	HL	1.5	2	10	780				
SO ^N	Κ	2.0	5	20		3.5	50		
Ĕ	KK	2.0	7	30	200				
CAST IRON	LQ	LQ 2.5		50	280				
0	LL	3.0	14	60					



SPECIAL LIQUID PUMPS - LP GAS

Heavy-Duty Pumps for Thin, Volatile Liquids

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

ions

on

CUSTOMER BENEFITS

- 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

Ν	NA	١T	E	R	IA	L	S

- Cast Iron
- Ductile Iron

SEALING

Mechanical Seal

- PORTS
- Opposite (180°)
- Right Angle (90°)
 NPT
- Flanged
- MOUNTING

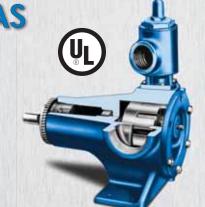
- Foot Mount

1	valve
	CAPACITY
	To 21 M ³ /Hr (To 95 GPM)
	PRESSURE
	To 7 BAR (To 100 PSI)
	TEMPERATURE
	To -40°C (-40°F)
	DRIVES

- See chart on page 31 for drive options

APPLICATIONS

Application examples are available on Pages 4 - 9.



PERFORMANCE - LP GAS PUMPS

	Size	Standard Port Inches	Nominal Capacity At Maximum Speed M ³ /Hr GPM		Maximum Speed RPM	Maximum Pressure BAR PSI			
	GG	1.0	2	8		7.0			
	HJ	1.5	4	17	1,800		100		
	HL		6	25					
2	AS	2.5	7	30	1,800	7.0	100		
No.	AK	2.5	10	45					
CAST IRON	AL	3.0	15	65					
SAS	К	2.0	7	30					
	KK	2.0	9	40		1.0			
8	L	3.0	17	75	420				
	LQ			15					
	LL		21	95					

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LP Gas pumps are UL listed for propane or butane liquid transfer applications.

ASPHALT PUMPS

Jacketed Pumps Designed Specifically for Asphalt Applications

The Asphalt Pumps with temperature control options provide quick time to temperature to melt asphalt that has solidified in the pump prior to startup. Jacketing available in bracket, head, and bearing area keeps bitumen from solidifying in pump.

CUSTOMER BENEFITS

- 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
- Jacketed heating options available
- Jacketing suitable for hot oil or steam for enhanced application flexibility
- · Variety of jacket connection options including tapped and flange

MATERIALS

Cast Iron

SEALING

- Packing
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal

OPTIONS

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

PORTS

- Opposite (180°)
- Right Angle (90°)
- Flanged
- NPT

MOUNTING

- Foot Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

A D	ACI	ΓV
AP/	HUI	I I

С

To 360 M³/Hr (To 1,600 GPM) PRESSURE

To 14 BAR (To 200 PSI)

VISCOSITY

To 216,000 cSt (To 1,000,000 SSU)

TEMPERATURE

To +371°C (To +700°F)

PERF	ORMANCE	- General	Purpose

			Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure	
		Size	Inches	M³/Hr	GPM	RPM	BAR	PSI
		HL	1.5	4.5	20	1,200	7.0	
3	NO	KK	2.0	10.0	50	420		100
8	IR(LQ	2.5	20.0	90	420		
Î	CAST IRON	Q	3.0	45.0	200	350		
ê	CA	М	4.0	64.0	280	200	5.2	75
		Ν	5.0	102.0	450	280		

PERFORMANCE - Heavy Duty

		Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maxi Pres	
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI
	Н	1.5	3	15	1,750	14.0	
	HL		7	30	1,750		
	К		17	75	780		200
	KK	2.0	23	100	700		
_	L		31	135	640		
NO NO	LQ	2.5					
CAST IRON	LL	3.0	32	140	520		
AS	LS	5.0	45	200	640		
0	Q	4.0	68	300	520		
	QS	6.0	114	500	520		
	N 6.0	0.0	136	600	350	1	
	R	0.0	250	1,100	200		
	RS	8.0	365	1,600	280		

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GENERAL PURPOSE PUMPS

Economical, Simple Design Pumps for Medium-Duty Applications

The General Purpose pump uses a simplified rotor retention system that is well-suited to many medium-duty applications. Some models are available

with UL listing for use in power operated oil burners or for use as fuel oil transfer pumps.

CUSTOMER BENEFITS

- 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
- Temperature control available through jacketing option
- UL listing available on selected models
- Motor mount option for ease of installation on selected models
- Durable, cast iron construction

MATERIALS

Cast Iron

SEALING

- Packing
- Lip Seal
- Mechanical SealCartridge Triple Lip Seal

PORTS

- Opposite (180°)
- Right Angle (90°)
- Same Side (360°)
- FlangedNPT

MOUNTING

Foot MountFlange Mount (Closed-Coupled)

DRIVES

20

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

SERIES 32 Pump "HL" Size

Viking[®] Product Selection Guide

CAPACITY

To 102 M³/Hr (To 450 GPM)

PRESSURE

To 17 BAR (To 250 PSI)

VISCOSITY

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

TEMPERATURE *

-51°C to +107°C (-60°F to +225°F) (Mech. Seal) -51°C to +149°C (-60°F to +300°F) (Packed)

* With special construction, temperatures to 260°C (500°F) can be handled with seal pumps and to 343°C (650°F) with packed pumps.

PEF	RFORM	IANCE						
		Standard Port	Capad	ninal city At m Speed	Maximum Speed		Maximum Pressure	
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI	
D	С	0.25	0.11	0.5				
C-FLANGE MOUNTED	F	0.5	0.34	1.5		17	250	
	FH	0.5	0.68	3.0				
	G	1.0	1.5	7.0	1,800	7	100	
	GG	1.0	2.0	10.0	1,000			
	Н	1.5	3.5	15.0				
	HJ		4.5	20.0				
0	HL		7.0	30.0				
	С	0.25	0.11	0.5				
	F	0.5	0.34	1.5	1,800	17	250	
	FH		0.68	3.0				
	G	1.0	1.1	5.0				
	Н	1.0	2.3	10.0	1,200			
E	HL		4.5	20.0				
-N	J	1.5	4.0	20.0				
MO	Κ		8.0	35.0		7	100	
E	KK	2.0	11.4	50.0	420			
FOOT-MOUNTED	L		20.5	90.0				
	LQ	2.5						
	LL	3.0	32.0	140.0	520			
	Q		46.0	200.0	350			
	М	4.0	64.0	280.0	280	5	75	
	Ν	5.0	102.0	450.0	200			

Integral pressure relief valve is standard.

SERIES 475 Pump

"GG" Size

SPUR GEAR PUMPS

High Pressure, Precise Flow

Viking's Spur Gear series pumps are ideal for low-capacity, high-pressure applications running at motor speeds. Used in both industrial and mobile environments for applications such as metering, filtering, fuel supply and lubrication. Mag drive configurations are ideal for handling volatile, odorous, or hazardous additives into processes and pipelines. Its compact, rugged design provides an excellent value with industry leading versatility.

CUSTOMER BENEFITS

- Evenly incremented displacements provide a pump within 20% of your capacity needs
- Precision machined components afford precise metering and flow control for increased process accuracy
- Variety of sealing options including Mag Drive (sealless) to cost-effectively meet your application needs
- Double pump configurations offer two flow rates operating from single power source, reducing equipment costs
- Close-coupled motor mount, foot bracket, and base-mounting options available to match your space or motor requirements
- Static O-ring seals with dynamic lip or mechanical shaft seals provides sealing reliability and integrity
- Heat treated gears and hardened shafts offer long-life performance
- Needle bearings provide high pressure capabilities with excellent efficiency
- UL or NSF listing available on select models

MATERIALS

- Cast Iron
- Ductile Iron
- SEALING
- Lip Seal
- Mechanical Seal
 Sealless Mag Drive
- PORTS

Opposite (180°)

- Right Angle (90°)
- NPT

MOUNTING

- Foot Mount
- Flange Mount (close-coupled)

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

SINGLE SPUR GEAR MAG DRIVE PUMP

CAPACITY

To 7.2 M³/Hr (To 32 GPM)

PRESSURE *

To 34 BAR (To 500 PSI)

VISCOSITY

To 16,500 cSt (To 75,000 SSU)

TEMPERATURE **

- -40°C to +107°C (-40°F to +225°F)
- * Fluid power models to 2,500 PSI
 - Max temperature, special construction, 232°C (450°F)

PERFORMANCE Nominal Standard Capacity At Max. Maximum Port Maximum Speed Speed Pressure GPM RPM BAR PSI Size Inches M³/Hr SG-0417 0.01 0.06 IRON SG-0418 0.03 0.14 SG-0425 0.04 0.18 0.375 1,750 34 500 CASTI SG-0435 0.06 0.27 SG-0450 0.08 0.36 SG-0470 0.11 0.50 SG-0518 ① 0.16 0.7 SG-0525 ① 0.23 1.0 SG-0535 ① 0.32 1.4 0.5 SG-0550 ① 0.45 2.0 34 500 SG-0570 ① 0.64 2.8 IRON SG-0510 ① 0.91 4.0 SG-0514 ① 1.3 5.6 щ SG-0519 ① 0.75 1.7 7.6 28 400 DUCTIL SG-0528 ① 2.5 11.2 1,750 14 200 SG-0729 0.6 2.8 CAST -SG-0741 0.91 4.0 SG-0758 1.3 5.6 10 SG-0782 1.8 8.0 500 34 SG-0711 2.5 11.2 SG-0716 3.6 16.0 SG-0722 1.50 X 1.25 22.0 50 SG-0732 1.50 X 1.25 7.3 32.0

Integral pressure relief valve (standard single pump). ③ SG-05 models available with UL listing for fuel oil.

SINGLE SPUR GEAR PUMP "SG-05" SERIES

COMPOSITE MAG DRIVE PUMPS

Composite Pumps for Crucial Liquid Containment

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

CUSTOMER BENEFITS

- Sealless, non-metallic all wetted component construction eliminates mechanical seal and eddy current energy loss for lower cost of ownership
- Wide flow range to better match application requirements
- 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)
- Variety of drive options (VI-CORR)
- Internal relief valve standard (VI-CORR)

MATERIALS

- Carbon Reinforced ETFE (CMD)
- PPS (VI-CORR)

SEALING

- O-Ring
- Lip Seal (VI-CORR)
 Sealless Mag Drive (VI-CORR)
- DODTC

PORTS

- NPTNPT (ISO 7-1) (CMD)
- Flanged (ANSI or DIN)

MOUNTING

- Motor Mount
- Foot Mount (CMD)

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY

To 75 LPM (To 20 GPM) (CMD) To 121 LPM (To 32 GPM) (VI-CORR)

PRESSURE

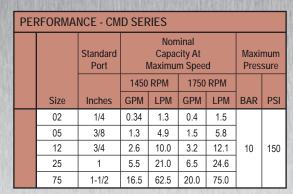
To 10 BAR (To 150 PSI) (CMD) To 14 BAR (To 200 PSI) (VI-CORR)

VISCOSITY

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

TEMPERATURE

-40°C to +65°C (-40°F to +150°F) (CMD) -40°C to +93°C (-40°F to +200°F) (VI-CORR)



In-line valve sold separately.

PERFORMANCE - VI-CORR											
	Nominal Standard Capacity At Port Maximum Speed					d	Maximum Pressure				
			1450	1450 RPM 1750 R		RPM					
	Size	Inches	GPM	LPM	GPM	LPM	BAR	PSI			
	RP-0782	2	6.6	25.1	8.0	30.3					
	RP-0716	2	13.3	50.2	16.0	60.6	14	200			
	RP-0724	2	19.9	75.3	24.0	90.8	14	200			

26.5 | 100.4 | 32.0 | 121.1

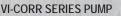
Integral relief valve is standard.

2

RP-0732



CMD SERIES PUMP



LVP SERIES VANE PUMPS

Vane Pumps for Corrosive, Thin Liquids at Higher Pressures

A stainless steel vane pump designed for thin liquids at pressures up to 14 Bar (200 PSI). Rugged, industrial-duty pump to handle liquid transfer applications ranging from harsh chemicals to liquefied gases to deionized water.

CUSTOMER BENEFITS

- 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 conform to international standards for enhanced application flexibility

PEF	PERFORMANCE										
		Standard Port	Capad	Nominal Capacity At M Maximum Speed		Maxii Pres					
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI				
	LVP40017 LVP41017	40 (1.5)	4	20	4 750	• 14	200				
EEL	LVP40027 LVP41027	40 (1.5)	9	40	1,750						
STAINLESS STEEL	LVP41057	50 (2.0)	15	80	1,150						
INLES	LVP41087	50 (2.0)	23	100	950						
STA	LVP41197	80 (3.0)	29	125	520						
	LVP41237	00 (3.0)	36	160	520						

Integral pressure relief valve is standard.

MATERIALS Stainless Steel

SEALING

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

PORTS

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

MOUNTING

- Motor Mount (Size 001/002 only)
- Foot Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

To 500 cSt (To 2,300 SSU) TEMPERATURE * -29°C to +107°C (-15°F to +225°F)

To 36 M³/Hr (To 160 GPM)

To 14 BAR (To 200 PSI)

CAPACITY

PRESSURE

VISCOSITY

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

STAINLESS STEEL LOBE PUMPS

Gentle, Low Shear Pumping Action With In-line Cleanability

SL and CP series lobe pumps ensure integrity of pumped liquids by minimizing shear, through use of large fluid cavities and no metal-to-metal contact. Elimination of dead spaces enhances in-line cleanability. Typical applications include liquids with suspended solids and processes that require cleaning between batches.

CUSTOMER BENEFITS

- Timed rotors to eliminate metal-to-metal contact and protect product integrity
- Front loading mechanical seals for ease of maintenance
- Large fluid cavities for superior solids handling
- Solvent or steam-flushable for in-line cleaning between batches to prevent product cross-contamination
- Vertical or horizontal porting for installation flexibility
- Optional seal flush allows run-dry capabilities

MATERIALS

316 Stainless Steel

SEALING

Single or Double Mechanical SealO-Ring Shaft Seal

- PORTS
- Opposite (180°)
- FlangedNPT

MOUNTING

- Foot Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

"SL" SERIES PUMP



CAPACITY

To 230 M³/Hr (To 1,014 GPM) (SL Series) To 147 M³/Hr (To 650 GPM) (CP Series)

PRESSURE

To 15 BAR (To 215 PSI) (SL Series) To 12 BAR (To 175 PSI) (CP Series)

VISCOSITY

To 110,000 cSt (To 500,000 SSU)

TEMPERATURE -20°C to +149°C (-4°F to +300°F)



PEF	PERFORMANCE - SL SERIES											
		Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maxi Pres	mum sure					
	Size	Inches	M³/Hr	GPM	RPM	BAR	PSI					
	SLAS	.75	3	12		15	215					
	SLAL	1	4	19		10	145					
	SLBS	I	6	25	1,200	15	215					
	SLBL	1.5	9	38	1,200	10	145					
	SLCS	1.5	12	53		15	215					
	SLCL	2	18	80		10	145					
	SLDS	1.5	21	93	1,000	15	215					
	SLDL	2	31	139	1,000	10	145					
	SLES	2	35	155	800	15	215					
	SLEL	3	53	232	000	10	145					
	SLFS	3	55	241		15	215					
	SLFL	4	82	362		10	145					
	SLGS	4	114	502	600	15	215					
	SLGL	6	171	753		10	145					
	SLHS	Ö	230	1,014		15	215					

PEF	PERFORMANCE - CLASSIC+										
		Standard Port	Capad	Nominal Capacity At Maximum Speed		k. Maximum ed Pressure					
	Size	Inches	LPM	GPM	RPM	BAR	PSI				
	CP10S	1.0	53	14							
	CP10M		95	26	1,150	12	175				
	CP10L	1.5	128	34							
	CP20S		190	48	950						
	CP20L	2.0	297	74							
	CP30S	2.0	541	136							
	CP30L	3.0	877	217	780						
	CP40S	3.0	1,079	285							
	CP40L	4.0	1,495	395	640						
	CP50S	4.0	2,249	535							
	CP50L	6.0	2,730	650	520						

CLASSIC+ SERIES PUMP

INDUSTRIAL LOBE PUMPS

High Pressure Performance With Superior Sealing Flexibility

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

CUSTOMER BENEFITS

- Accepts industry standard cartridge seals for maximum flexibility
- Port sizes from 3 to 10 inches to handle a broad range of fluid viscosities
- Rugged rotor shaft support for longer life and higher pressure capabilities
- 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

MATERIALS

- 316 Stainless Steel

SEALING

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

PORTS

Opposite (180°)Flanged

MOUNTING

- Foot Mount

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY

To 186 M³/Hr (To 820 GPM)

PRESSURE To 27 BAR (To 400 PSI)

VISCOSITY

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

TEMPERATURE *

-40°C to +204°C (-40°F to +400°F)

* Special sealing or materials of construction may be required. PERFORMANCE Nominal Standard Capacity At Maximum Port Maximum Speed Speed Size M³/Hr GPM **RPM** Inches RL016 23.8 105 3 640 RL025 36.3 160

186.0

820

6

RL150

Maximum

Pressure

BAR PSI

27 400

600

RL40167 SERIES



41507 SERIES

CUSTOM SOLUTIONS

Customer Specific Designs to Solve Unique Challenges

Viking[®] has provided custom designed pumps to end-users and OEMs since its first pump in 1911, when Viking invented the gear-within-a-gear pumping principle to remove water from a rock quarry. Today, enabled by Viking's engineering staff, extensive applications experience, and in-house foundries, more than 20% of Viking's sales are new Viking designs, or pump designs derived from more than 1000 Viking catalog pumps with more than 40,000 active configurations. So, whether you are an end-user or an OEM, Viking can provide custom designed pumping solutions to meet your specific needs.

CUSTOMER BENEFITS

- Pump principle or system customized to match application need
- Built to your specifications
- Advanced testing/lab capabilities
- Vertically integrated foundries (Alloy and Iron)
- Machine shop
- Global manufacturing and sourcing
- Vertically integrated from casting to machining to final assembly
- Application and design engineering
- ISO9000:2001 and ISO14001 documented quality manufacturing processes

MATERIALS

- Cast Iron
- Ductile Iron
 Steel
- Stainless Steel
- Composite (PPS)

SEALING

- Packing
- Lip Seal
- Component Mechanical Seal
 Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- Sealless Mag Drive
- O-Ring

OPTIONS

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

PORTS

- Opposite (180°)
- Right Angle (90°)
- Same Side (360°)
- Flanged
- NPT
- Customer Specific Internal or External Ports

MOUNTING

- Foot Mount
- Flange Mount (Close-Coupled)Vertical In-Line
- Customer Specific Mounting Arrangement

DRIVES

26

See chart on page 31 for drive options

APPLICATIONS

 Application examples are available on Pages 4 - 9.

CAPACITY

To 360 M³/Hr (0.06 to 1,600 GPM)

PRESSURE To 172 BAR (0 to 2,500 PSI)

VISCOSITY To 1,000,000 cSt (28 to 4,500,000 SSU) TEMPERATURE

to +371°C (-90°F to +700°F)









GEROTOR PUMPS

Cost Effective, Simple Design

Economical pumps for clean, lowpressure applications like lube and filtration systems. They are available in various mounting configurations.

CUSTOMER BENEFITS

- Customizable mounting and porting to interface with your equipment
- Lip seal standard, mechanical seal optional
- Cartridge pump design also available

MATERIALS

Cast Iron

SEALING

Lip Seal

Mechanical Seal

PORTS

- Opposite (180°)
- NPT • SAE
- BSP
- Customer Specific Internal Ports

MOUNTING

- Foot Mount
- Flange Mount (Closed-Coupled)
 Contridee Duren
- Cartridge Pump
 Customer Specific Mounting Arrangement

DRIVES

- See chart on page 31 for drive options

APPLICATIONS

• Application examples are available on Pages 4 - 9.

CAPACITY

To 36 LPM or 2.16 M³/Hr (To 9.7 GPM)

PRESSURE

To 7 BAR (To 100 PSI)

VISCOSITY

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

TEMPERATURE *

To +232°C (To +450°F)

PERFORMANCE

		Standard Port	Nom Capac Maximur	city At	Maximum Speed	Maximum Pressure	
	Size	Inches	LPM	GPM	RPM	BAR	PSI
-	GR-0920		7	2			
Į Š	GR-0941		14	4			
	GR-0955	0.5	18	5	1,750	7	100
CAST IRON	GR-0996		31	8			
	GR-0912		37	10			

Optional, adjustable pressure relief valve available.



Viking[®] Product Selection Guide 27

LID-EASE STRAINER

Protection for Pumps and Downstream Systems

The Viking Lid-Ease[®] strainers provide protection for the pump by preventing solids or foreign materials from entering. Inexpensive insurance for the pump and downstream system components to maximize life for a lower overall cost of ownership.

CUSTOMER BENEFITS

- Inclined basket position provides low pressure drop for higher system efficiency
- Quarter-turn, easy opening breech-lock lid simplifies routine cleaning
- Top basket removal eliminates the need to drain the strainer and minimizes product loss
- Weatherseal lid design protects against exterior elements and air infiltration
- Tapped, flanged or grooved end ports available
- Optional magnetic inserts are available for trapping ferrous particles
- Optional differential pressure indicators optimize cleaning intervals

BA	SKET MESH OPT	IONS						
	Mesh	3/16" Holes	10	20	40	60	80	100
	Opening (microns)	-	1,910	860	380	230	190	140
	Opening (in.)	-	0.075	0.034	0.015	0.0092	0.007	0.0055

CAPACITY

MATERIALS

- Aluminum

- Cast IronDuctile Iron
- Stainless Steel
- OPTIONS
- Magnetic Inserts
- Differential Pressure Indicators
- PORTS
- FlangedNPT
- Grooved

	CAFACITI
	To 250 M ³ /Hr (To 1,100 GPM)
	PRESSURE
	To 14 BAR (To 200 PSI)
	VISCOSITY
	To 55,000 cSt (To 250,000 SSU)
	TEMPERATURE
	-51°C to +260°C (-60°F to +500°F)
8	
	STATISTICS OF STATISTICS
-	
	SUMA LINGINGA C
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S 46	BAS L
6-10	
A 11	



PEF	RFORMA	VCE							
	Standard Port			Nominal Capacity		ted tem sure	Maximum Basket Differential Pressure		
	Size	Inches	M³/Hr	GPM	BAR	PSI	BAR	PSI	
Μ	F-1020	2.0	23	100	14.0	200	10.0	150	
ALUM	F-1030	3.0	45	200	8.5	125	8.5	125	
A	F-1040	4.0	91	400	0.5	125	0.5	125	
	F-1007	0.75	5	20					
z	F-1010	1.0	7	30		200			
	F-1013	1.25	9	40	14.0		10.0	150	
SON	F-1015	1.5	11	50					
CAST IRON	F-1020	2.0	23	100					
	F-1030	3.0	45	200		125	8.5	125	
	F-1040	4.0	91	400	8.5		0.0	125	
	F-1060	6.0	182	800	0.0	125	5.0	75	
	F-1080	8.0	340	1,500			3.4	50	
ш	F-1020	2.0	23	100	14.0	200	10.0	150	
	F-1030	3.0	45	200			8.5	125	
DUCTILE	F-1040	4.0	91	400	8.5	125	0.0	120	
	F-1060	6.0	182	800			5.0	75	
	F-1007	0.75	5	20					
EL	F-1010	1.0	7	30					
STAINLESS STEEI	F-1013	1.25	9	40	14.0	200	10.0	150	
SS S	F-1015	1.5	11	50					
ΓĒ	F-1020	2.0	23	100					
AIN	F-1030	3.0	45	200	8.5	125	8.5	125	
ST	F-1040	4.0	91	400	0.0	120	0.0	120	
	F-1060	6.0	182	800	8.5	125	5.0	75	

DUPLEX FUEL OIL SETS

Factory Built and Tested Solutions for Smooth, Reliable Startup and Operation

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.

CUSTOMER BENEFITS

- Proven, factory manufactured sets built custom to your order
- UL-CSA electrical control panels
- Easy sizing with 8-Step Selection Program (CD available)
- Available with standard or UL rated pumps
- Quick access comparison sheets, specification sheets and illustration drawings
- Easily requested CAD submittal drawings
- Over 25 years experience engineering and manufacturing duplex fuel oil sets

STANDARD EQUIPMENT

- **OPTIONS**
- 2 Viking heavy duty positive displacement rotary gear or spur gear pumps
- 2 Flexible couplings with orange peal **OSHA** guards
- 2 Motors, totally enclosed fan cooled, foot mounted, NEMA, UL, CSA certified
- 1 Common heavy gauge steel baseplate with drip lip and NPT drain
- SUCTION LINE
- 2 Viking cast iron Lid-Ease basket strainers with 40 mesh stainless steel basket
- 2 Ball valves rated to 600 PSI, full port, two piece bronze body with PTFE seat
- 2 Compound gauges 30" Hg-0-30 PSI 2.5" dial, bronze internals, stainless steel case, liquid filled
- 2 Gauge Valves bronze ball valves, 600 PSI rated

DISCHARGE LINE

- 3 Spring Check Valves, 400 PSI pressure rated, bronze body, Teflon poppet
- 2 Ball valves, 600 PSI pressure rated, full port, two piece bronze body, PTFE seat
- 2 Relief Valves continuous bypass type, cast iron body, stainless steel spring
- 2 Pressure Gauges, 0-200 PSI, 2.5" dial, bronze internals, stainless steel case, liquid filled
- 2 Gauge Valves bronze ball valves, 600 PSI rated

SUCTION/DISCHARGE PIPING

- Schedule 40 carbon steel piping and nipples, 150 PSI malleable iron screwed fittings
- Duplex pump set to be leak tested with 100 PSI air and soap water
- Unit to be coated with Vinyl Toluene Alkyd, quick dry enamel, Viking Blue



PERFO	RMANCE	(1) (2

Duplex Package Model	Viking Pump Model	Header	Discharge Header Discharge	Relief To Tank	Ν	①② Iomina np Rat		Reco Discl	Max. omm. narge sure kPa																						
)	1.2	4.4	1200	1.51	Ki u																						
6 DF-	F432	1"	1/2"	1/2"	1.8	7.0		250	1724																						
6 DFH	FH432	'	1/2	1/2	2.1	7.9	1200	230	11/2-																						
-	-				3.3 7.1	12.5 27.0	1800 1200																								
GGD	GG4195	1"	1"	3/4"	11.1	42.1	1800																								
HJD	HJ4195				14.7	55.8	1200	150	1034																						
		1-1/2"	1-1/2"	1"	22.7 21.2	85.9 80.2	1800 1200																								
HLD	HL4195				32.6	123.3	1800																								
ASD	AS4195	2-1/2"	2-1/2"	1-1/2"	37.0	140.2	1000	450	400																						
AKD ALD	AK4195 AL4195	3"	3"	2"	56.0 75.2	212.0 284.7	1200	150	1034																						
518	SG-40518			-	0.5	1.7	1200																								
516	30-40316				0.7	2.6	1800																								
525	SG-40525				0.7	2.5 3.8	1200 1800																								
535	SG-40535				0.9	3.4	1200																								
	55-40000		1/2"	1/2"	1.4	5.3	1800																								
550	SG-40550				1.3 2.0	4.8 7.5	1200 1800	500	344																						
570	SC 40570				1.8	6.9	1200																								
570	SG-40570				2.8	10.6	1800																								
510	SG-40510				2.5 3.9	9.6 14.8	1200 1800																								
544	00 40544	1"			3.5	13.2																									
514	SG-40514	1"			5.4	20.6	1800																								
519	SG-40519				4.7	17.7	1200	400	275																						
					7.4 6.8	27.8 25.6	1800 1200																								
528	SG-40528				10.7	40.4		200	1379																						
729	SG-40729		1"	3/4"	1.9	7.1	1200																								
					2.8 2.6	10.6 9.9	1800 1200																								
741	SG-40741				4.1	15.5	1800																								
711	SG-40711				7.4	28.0	1200																								
					11.4	43.1 39.6	1800 1200	0 500	3448																						
716	SG-40716				16.2	61.1	1800																								
722	SG-40722				14.8	56.1 86.4	1200																								
700	0.0 10700	1-1/2"	1-1/4"	1"	22.8 20.2	76.5	1800 1200																								
732	SG-40732				31.3	118.4	1800																								
@ ⑦ XDF	F432X				1.2	4.4	1200 1800																								
	FUIADOX	1"	1/2"	1/2"	2.1	7.9	1200	250	172																						
④⑦ XFH	FH432X				3.3	12.5	1800																								
 ④ XDG ④ XDH 	G432X H432X	1"	1"	1/2" 3/4"	5.9 10.3	22.4 39.0	1200 1200	100	690																						
④ XHL	HL432X	1-1/2"	1-1/2"	1"	20.6	77.9		100																							
@ X18	SG-0518X				0.5	1.7	1200																								
-					0.7	2.6 2.5	1800 1200																								
@ X25	SG-0525X				1.0	3.8																									
@ X35	SG-0535X				0.9	3.4	1200																								
			1/2"	1/2"	1.4	5.3 4.8																									
	SG-0550X				2.0	7.5		500	344																						
4 X55					1.8	6.9																									
④ X55 ④ X70	SG-0570X	1"				10.6	1800																								
④ X70		1"			2.8																										
	SG-0570X SG-0510X	1"			2.8 2.5 3.9	9.6 14.8	1200																								
④ X70		1"			2.5 3.9 3.5	9.6 14.8 13.2	1200 1800 1200																								
 X70 X10 X14	SG-0510X SG-0514X	1"			2.5 3.9 3.5 5.4	9.6 14.8 13.2 20.6	1200 1800 1200 1800																								
④ X70 ④ X10	SG-0510X	1"	1"	3/4"	2.5 3.9 3.5	9.6 14.8 13.2 20.6 17.7 27.8	1200 1800 1200 1800 1200 1800	400	275																						
 X70 X10 X14	SG-0510X SG-0514X	1"	1"	3/4"	2.5 3.9 3.5 5.4 4.7 7.4 6.8	9.6 14.8 13.2 20.6 17.7 27.8 25.6	1200 1800 1200 1800 1200 1800 1200	400																							
 (a) X70 (b) X10 (c) X14 (c) X19 (c) X28 	SG-0510X SG-0514X SG-0519X SG-0528X				2.5 3.9 3.5 5.4 4.7 7.4 6.8 10.7	9.6 14.8 13.2 20.6 17.7 27.8 25.6 40.4	1200 1800 1200 1800 1200 1800 1200 1800																								
 ④ X70 ④ X10 ④ X14 ④ X19 	SG-0510X SG-0514X SG-0519X	1"	1"	3/4"	2.5 3.9 3.5 5.4 4.7 7.4 6.8 10.7 7.1 11.1	9.6 14.8 13.2 20.6 17.7 27.8 25.6 40.4 27.0 42.1	1200 1800 1200 1200 1800 1200 1200 1800 1200 1800		2759																						
 (a) X70 (b) X10 (c) X14 (c) X19 (c) X28 	SG-0510X SG-0514X SG-0519X SG-0528X				2.5 3.9 3.5 5.4 4.7 7.4 6.8 10.7 7.1 11.1 14.7	9.6 14.8 13.2 20.6 17.7 27.8 25.6 40.4 27.0 42.1 55.8	1200 1800 1200 1200 1200 1800 1200 1800 1200 1800 1200		1379																						
 ③ X70 ④ X10 ④ X14 ④ X19 ④ X28 ⑤ DGG ⑥ DHJ 	SG-0510X SG-0514X SG-0519X SG-0528X GG-190 HJ-190				2.5 3.9 3.5 5.4 4.7 7.4 6.8 10.7 7.1 11.1 14.7 22.7	9.6 14.8 13.2 20.6 17.7 27.8 25.6 40.4 27.0 42.1 55.8 85.9	1200 1800 1200 1200 1800 1200 1800 1200 1800 1200 1800 1200	200																							
 (a) X70 (b) X10 (c) X14 (c) X19 (c) X28 (c) DGG 	SG-0510X SG-0514X SG-0519X SG-0528X GG-190	1"	1"	3/4"	2.5 3.9 3.5 5.4 4.7 7.4 6.8 10.7 7.1 11.1 14.7	9.6 14.8 13.2 20.6 17.7 27.8 25.6 40.4 27.0 42.1 55.8	1200 1800 1200 1200 1200 1800 1200 1800 1200 1800 1200	200	1379																						

Viking[®] Product Selection Guide 29

- Flow switches Thermometers

Pressure switches

- Flexible connectors
- Water removal filters

Pressure control valves

Galvanized base plates

APPLICATIONS

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

CAPACITY

0.2 to 284 M3/Hr (1 to 75 GPM)

PRESSURE

0.3 to 17 BAR (5 to 250 PSI)

VISCOSITY

38 to 2,500 cSt (38 to 500 SSU)

TEMPERATURE

-20°C to +82°C (-4°F to +180°F)

- 1 Based on Fuel Oil at 100 SSU and 50 PSI. For other conditions, consult factory or your local Viking Distributor.
- ② Capacities based on direct drive motor speeds of 1150 or 1750 RPM. For reduced speed drives, consult factory
- ③ For higher pressures, consult factory. For actual pressure limits, consult
- curves, selector, or factory
- ④ UL Rated Pumps.
- ⑤ Available in Canada only.
- Inline mounted units. For side-by-side mounting, change model to "BF-" and "BFH".
- ⑦ Inline mounted units. For Side-by-Side mounting, change model to "BXF and "BXH"

- Flow meters and totalizers

GEAR REDUCERS

Offset or In-Line Shaft Designs Specifically Matched to Pump Requirements

Viking offers two styles of helical gear reducers to reduce standard driver speeds to match pump or other driven equipment. Viking offset reducers allow the input shaft to swivel to match driver shaft height, while output (slow speed) shaft height corresponds to typical Viking Pump shaft heights. The in-line reducers offer a larger range of sizes, ratios, and power capabilities, with the option of IEC or NEMA motor adapters on sizes 11 through 61.

CUSTOMER BENEFITS

In-Line Reducers

- Available in eleven sizes and a variety of ratios
- Universal mounting solid input shaft or motor mount option
- High efficiency and low noise levels

Offset Reducers

- Available in three sizes and a variety of ratios
- All ratios are fully interchangeable in each gearbox
- Multiple mounting brackets to match Viking shaft heights



PEI	RFORM	ANCE			50) Hz			60	Hz		
				With 1450	RPM Input	With 950 I	RPM Input	With 1750	RPM Input	With 1150	RPM Input	
	Series	No. of Ratios	Ratio Range	kW Range	Output RPM Range	kW Range	Output RPM Range	HP Range	Output RPM Range	HP Range	Output RPM Range	
SET	А	4	2.24:1 to 4.17:1	3.9 to 2.0	640 to 350	2.7 to 1.3	420 to 230	6.1 to 3.1	780 to 420	4.3 to 2.2	520 to 280	
FS	В	8	1.87:1 to 7.65:1	12.9 to 4.0	780 to 190	11.6 to 2.8	520 to 125	19.0 to 6.4	950 to 230	16.5 to 4.4	640 to 155	
OFF	С	7	2.21:1 to 7.95:1	33.8 to 11.3	640 to 180	21.7 to 7.8	420 to 120	49.8 to 18.0	780 to 220	40.1 to 12.6	520 to 145	
	11	15	2.77:1 to 22.90:1	2.2 to .62	523 to 63	1.4 to .39	343 to 41	3.4 to .96	632 to 76	2.5 to .70	415 to 50	
	21	15	2.72:1 to 21.90:1	5.0 to 1.4	533 to 66	3.2 to .82	349 to 43	7.7 to 2.4	643 to 80	5.7 to 1.5	423 to 52	
	31	15	2.88:1 to 22.60:1	7.4 to 2.1	503 to 64	4.7 to 1.2	330 to 47	11.6 to 3.4	608 to 77	8.4 to 2.2	399 to 57	
	35	14	2.69:1 to 19.00:1	10.3 to 3.1	539 to 76	6.4 to 1.8	353 to 50	16.2 to 5.2	651 to 92	11.4 to 3.2	427 to 60	
Щ	41	18	2.69:1 to 31.40:1	14.2 to 2.5	539 to 46	8.2 to 1.4	353 to 30	23.5 to 4.1	651 to 56	14.8 to 2.6	427 to 37	
IN-LINE	51	18	2.63:1 to 33.00:1	24.1 to 3.8	551 to 44	14.0 to 2.2	361 to 29	39.8 to 6.2	665 to 53	25.0 to 3.9	437 to 35	
∣≧	61	20	2.82:1 to 38.00:1	31.2 to 5.6	514 to 38	18.3 to 3.2	337 to 25	50.8 to 9.2	621 to 46	32.8 to 5.8	408 to 30	
	70	16	4.57:1 to 34.70:1	59.2 to 9.5	317 to 42	35.5 to 5.5	208 to 27	95.3 to 15.7	383 to 50	63.5 to 9.8	252 to 33	
	80	17	5.64:1 to 31.30:1	91.0 to 18.5	257 to 46	56.9 to 10.7	168 to 30	143 to 30.5	310 to 56	101 to 19.2	204 to 37	
	90	19	5.17:1 to 35.10:1	137 to 24.1	280 to 41	85.8 to 14.0	184 to 27	214 to 39.8	338 to 50	153 to 25.0	222 to 33	
	100	17	4.92:1 to 29.60:1	230 to 46.3	295 to 49	144 to 27.9	193 to 32	359 to 74	356 to 59	259 to 50.0	234 to 39	



System Integration, Simplified Installation

Viking offers a variety of factoryassembled skid-, bracket- or motormount options to help simplify installation, alignment, and commissioning.

CUSTOMER BENEFITS

- Factory assembled systems including base plate, motor, couplings, guards, pumps, and speed reduction if needed
- Pre-alignment from factory minimizes final alignment at installation
- Single source responsibility
- Drawings available to facilitate piping layout
- Viking will provide any customer specified motors, gear reducers, or other components
- Custom engineered bases to fit customer specifications
- Custom engineered systems with day tanks and process equipment available



"B" DRIVE Bracket Mounted



"D" DRIVE Direct Connected to Standard Motor, Variable Speed Drive, or Gear Head Motor

PERFORMANCE								
			Drive	Styl	<u>т</u> тт			
PUMP SERIES	R	Р	D	V	В	M		
INTERNAL GEAR Industrial-Duty Pumps								
Universal Seal	•	•						
Jacketed Universal Seal	•	•						
Motor Speed (Metric)								
Motor Speed	-			-				
General Purpose Pumps								
General Purpose	-							
Gerotor								
Sealless								
Viking Mag Drive®								
Special Purpose								
Abrasive Liquids	-							
Ammonia	-							
Asphalt		-						
LP Gas	-							
EXTERNAL GEAR Sealed								
Spur Gear								
Sealless								
Mag Drive Spur Gear								

Specific pumps within each pumping principle may or may not be compatible with a specific drive arrangement. Please contact your Authorized Viking® Distributor to make sure your particular pump is compatible with the desired drive arrangement.



"M" DRIVE Motor Mounted



"R" DRIVE Viking Offset Gear Reducer



"P" DRIVE Purchased Gear Reducer



V-Belt



"IM" DRIVE Vertical Inline Mounted



Worldwide Leader Since 1911 for Positive Displacement Pumping Solutions for Industrial, OEM, and Sanitary Applications.

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 many thousands of customers who use millions of Viking® pumps in some of the world's toughest applications.

Broad Performance Range

Capacity: 0.5 to 360 M³/Hr (0.1 to 1600 GPM) Pressure: 0 to 172 Bar (0 to 2500 PSI) Temperature: -40°C to 370°C (-40°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 money, 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 pump life significantly, while reducing maintenance and unplanned downtime, which enables 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 fibers, 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 air, assuring liquid integrity.

Local Applications and **Engineering Support**

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

Quality Manufacturing

Viking uses ISO9001-2000, ISO14001, Six-Sigma, and Lean/Kaizen in its worldwide manufacturing and assembly processes to remove waste, reduce development costs, and deliver superior products on schedule. Dedicated Viking foundries and manufacturing facilities utilize state-of-the-art CNC equipment to assure unmatched quality is built into every pump.

Custom Designed Solutions

Viking has provided custom designed pumps to end-users and OEMs since its first pump in 1911, when Viking invented the gear-withina-gear pumping principle to remove water from a rock guarry. Today, enabled by Viking's engineering staff, extensive applications experience, and in-house foundries, more than 20% of Viking's sales are new Viking designs, or pumps designs derived from more than 1000 Viking catalog pumps with more than 40,000 active configurations. So, whether you are an end-user or an OEM, Viking can provide custom designed pumping solutions to meet your specific needs.



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