UKING PUMP

GLOBAL LEADER IN POSITIVE DISPLACEMENT PUMPING SOLUTIONS





PRODUCT CATALOG





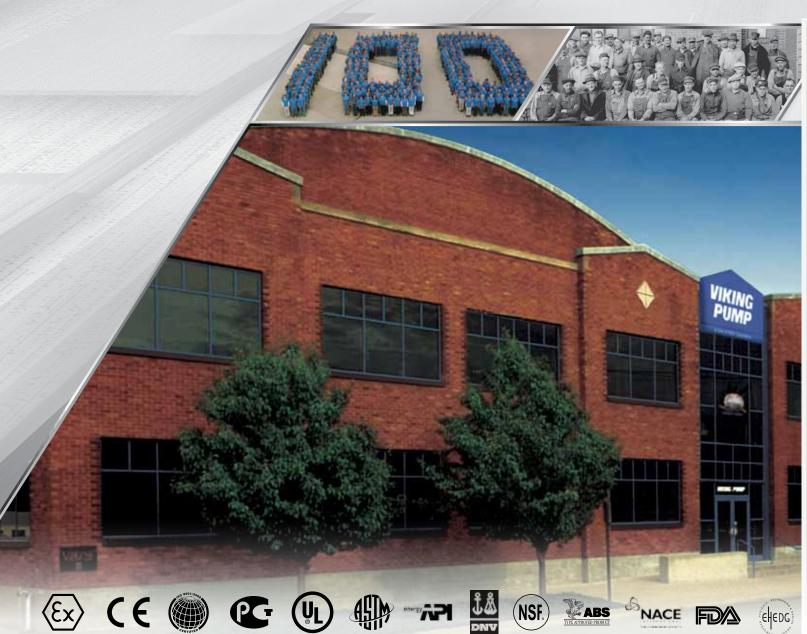


GLOBAL

LEADER IN POSITIVE DISPLACEMENT

PUMPING

SOLUTIONS























VIKING PUMP

INDUSTRY & APPLICATION EXPERTS

With over 100 years of expertise, each Viking pump is uniquely designed for the task at hand, from simple solutions to your most advanced and demanding needs.

SOLUTIONS PROVIDER

Vertically integrated and able to create from concept to final product. Viking Pump is your one source for pumps, accessories, parts, service and support.

RELIABILITY, QUALITY & PERFORMANCE

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

GLOBAL SERVICE & SUPPORT

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

WORLD HEADQUARTERS Cedar Falls, Iowa, United States of America

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THE VIKING ADVANTAGE

PROBLEM SOLVING EXPERTISE

- Strong knowledge of industrial pump applications and products that meet or exceed your expectations.
- Product customization to handle virtually any application through an experienced and specialized engineering team.
- Quality control and extensive testing across all finished products to ensure superior quality.

AVAILABLE SERVICES

- Full product testing certified performance, certified hydro, pneumatic, NPSHr, sound and vibration testing.
- Liquid sample analysis rheology testing and elastomeric compatibility.
- Additional testing magnetic particle, dye penetrant, traceability and positive material identification.





VIKING ROTARY PUMP BENEFITS

OPERATES AT ANY POINT ON THE CURVE

High efficiency at full range of speeds.

LONG SEAL AND BEARING LIFE

Generally operated at speeds from 250 to 1,750 RPM, for reduced seal and bearing wear.

LOW SHEAR

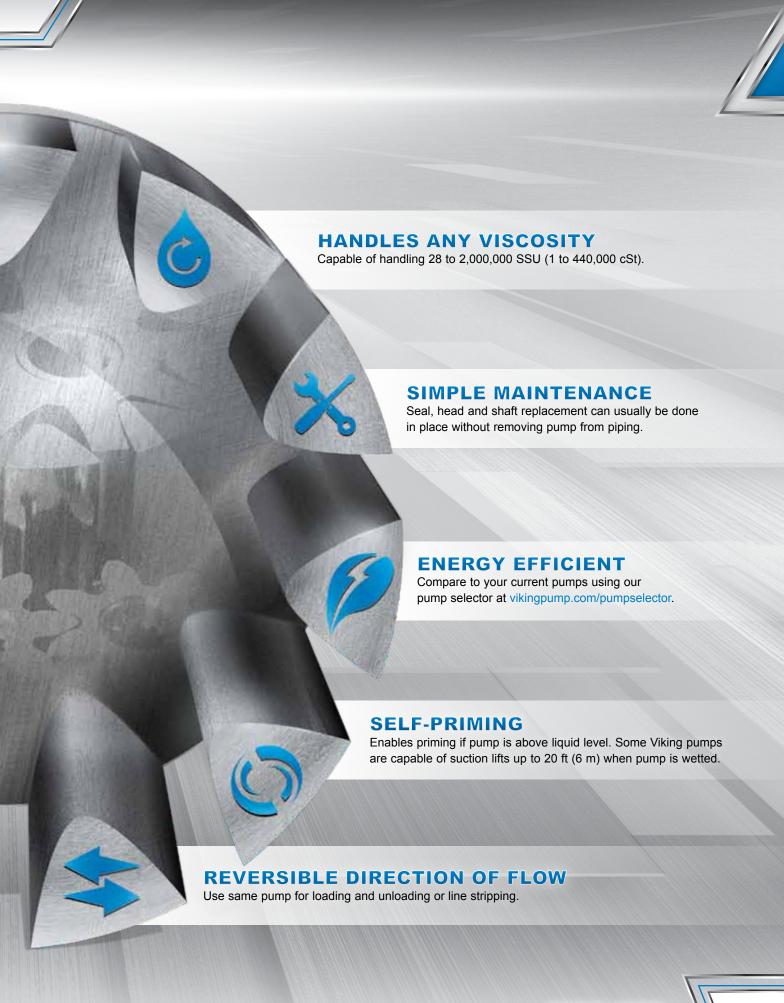
Documented shear rates enable selection of proper pump and speed to protect shear-sensitive liquids.

LOW NPSHr

Enables suction lifts or pulling from vacuum vessels.

FLOW PROPORTIONAL TO SPEED

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



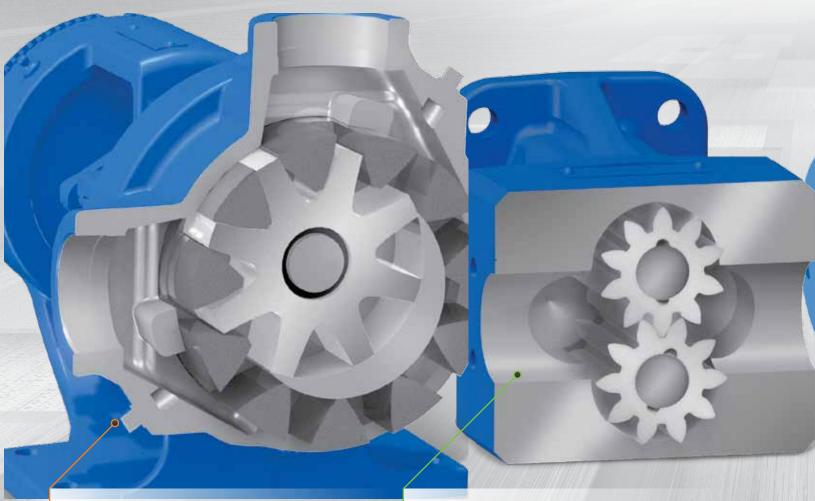
MARKETS & APPLICATIONS



Viking pumps are used in virtually every industry today, from chemicals, fuels and plastics, to materials that are thin, thick, hot, cold, liquid, solid and much more.



VIKING PUMP TECHNOLOGIES



INTERNAL GEAR

- Broadest selection of materials, designs, seals, ports and displacements for many applications.
- Adjustable clearances enable handling viscosities from 28 to 2,000,000 SSU (1 to 440,000 cSt).
- Minimal shear with slower speeds.





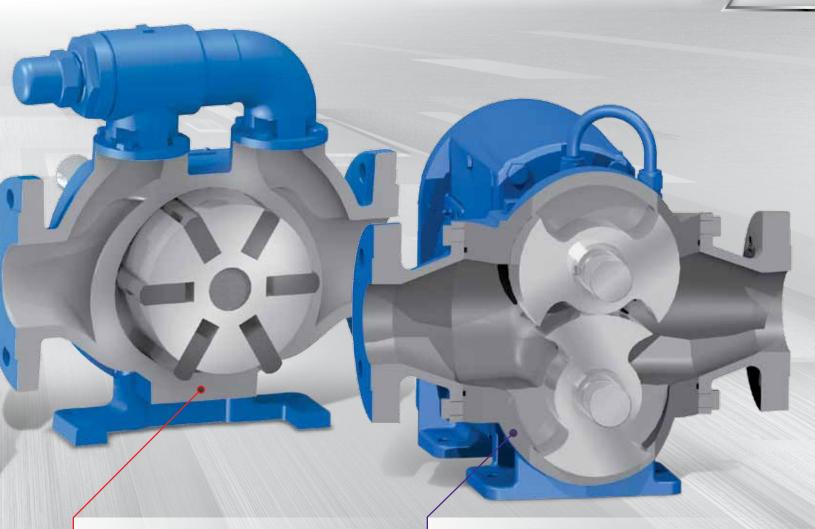
EXTERNAL GEAR

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



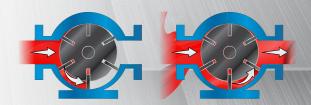


Rotary Positive Displacement Pumps displace a fixed quantity of liquid with each revolution of the pump by moving liquid between the pump elements and a stationary casing.



ROTARY VANE

- Maintains highest possible efficiency because vanes compensate for wear.
- Simple vane replacement without removing pump from piping.
- Shaft support on both sides of rotor enable differential pressures to 200 PSI (14 BAR).



INDUSTRIAL LOBE

- Non-contacting pumping elements allow extended run dry when using flushed seal.
- Bi-wing rotors scoop solids instead of trapping them like lobe-type rotors.
- Developed pressures to 400 PSI (28 BAR) with optional shaft support on both sides of rotors.



VIKING PUMP

PUMP TECHNOLOGY: INTERNAL GEAR

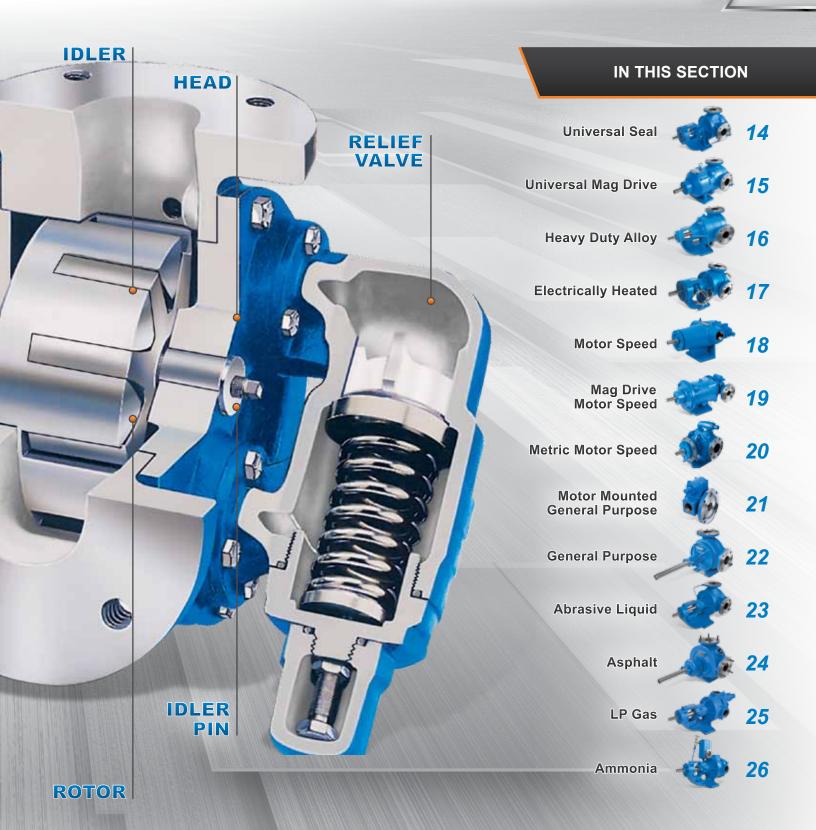
ADVANTAGES BUSHING Reliable & Easy to Maintain SEAL Only two moving parts. Adjustable End Clearances For low or high viscosities, high temperatures, or to compensate for wear over time. **Shaft Seal Options** Including packed gland, lip seal, component seal, cartridge seal and mag drive options. **Porting Options** Viking's broadest selection of port locations, configurations and types. **Minimal Pulsation** For accurate flow measurement. One Shaft Seal More reliable and lower cost than two used on timed lobe and screw pumps. Compact, Close-Coupled Options For motor speed operation or with gear motors. **PERFORMANCE** Capacity Range to 1,600 GPM (365 M³/Hr) **THRUST** BEARING **Viscosity Range** 28 to 2,000,000 SSU (1 to 440,000 cSt) With special construction **Pressure Range** to 250 PSI (17 BAR) BRACKET Pressure to 400 PSI (27 BAR) available with factory approval

Temperature Range -120°F to +800°F (-85°C to +430°C)

With special construction

CASING

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



UNIVERSAL SEAL

SERIES: 124A/AE, 224A/AE, 4124A/AE/B, 4224A/AE/B, 126A, 226A, 4126A, 4226A, 123A, 223A, 4123A, 4223A, 127A, 227A, 4127A, 4227A, 324A, 4324A, 323A, 4323A, 327A, 4327A



1,600 GPM (365 M3/Hr)

MAX. CAPACITY

200 PSI (14 BAR)

MAX. PRESSURE*

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

MAX. VISCOSITY**

-120°F to +800°F (-85°C to +430°C)

TEMPERATURE RANGE**

PERFORMANCE CURVES

vikingpump.com/PumpSelector
*Pressures to 400 PSI (27 BAR) with factory approval | ** Special construction required

Materials

- Cast Iron
- Ductile Iron
- Steel
- Stainless Steel
- o Alloy C, Alloy 20 and Others
- Hard Materials and Coatings

Porting

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

Sealing

- Packing
- Component Mechanical Seals
- Cartridge Mechanical Seals
- Cartridge Triple Lip Seals
- Sealless Mag Drive (See Page 15)
- Behind-the-Rotor Seal (Iron Only)

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT UNIVERSAL SEAL PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 630

Features & Benefits

- Pumps accommodate virtually all sealing types and manufacturers.
- Back pull-out seals provide access without disturbing the wet end.
- Design adaptability for an unequalled range of liquids, viscosities and temperatures.
- Rugged design with heavy duty bearings extends pump life.
- Fully jacketed models offer proven uniform temperature control for improved product consistency.
- API676 compliance available.
- Available with FDA and EN1935/2004 materials for food contact.

		F	PERFORI	NANCE	SPECI	FICATION	IS	
			Standard Port	Capac Maximu	ninal city At m Speed	Maximum Speed	Pres	mum sure
	Si	ze	Inches	GPM	M³/Hr	RPM	PSI	BAR
	G	1	1	8	2	1,750	200	14
	Н		1.5	15	3	1,750	200	14
یر	HL		1.5	30	7	1,750	200	14
CAST IRON - DUCTILE IRON - STEEL	ΑK	1	2	50	11	1,150	200	14
ြ	AL	1	2	75	17	1,150	200	14
Z	K		2	75	17	780	200	14
≅	KK		2	100	23	780	200	14
쁘	L		2	135	31	640	200	14
15	LQ		2.5	135	31	640	200	14
là	LL		3	140	32	520	200	14
1	LS		3	200	45	640	200	14
Ş	Q		4	300	68	520	200	14
₹	M	1	4	420	95	420	200	14
AS	QS		6	500	114	520	200	14
၂၀	N		6	600	136	350	200	14
	R		8	1,100	250	280	200	14
	RS		10	1,600	365	280	125	8.5
	Н		1.5	10	2	1,150	150	10
	HL		1.5	20	5	1,150	150	10
	K		2	50	11	520	150	10
ᆵ	KK		2	65	15	520	150	10
世	LQ		2.5	90	21	420	150	10
S	LL		3	110	25	420	150	10
Si	LS		3	160	36	520	125	8.5
STAINLESS STEEL	Q		4	200	45	350	125	8.5
I₹	M	1	4	280	64	280	125	8.5
လ	QS		6	320	73	350	125	8.5
	N		6	600	138	350	200	14
	R		8	1,110	250	280	175	12
	RS		10	1,600	365	280	125	8.5
Into	aralı	rolio	Evalvo ie et	andard or	non-iacl	ceted numns	excer	st DS

Integral relief valve is standard on non-jacketed pumps, except RS.

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

UNIVERSAL MAG DRIVE

SERIES: 8124A, 8123A, 8127A

Features & Benefits

- Reduces maintenance costs and downtime associated with shaft seal failure and replacement.
- Reduces environmental costs associated with shaft seal leakage.
- Minimizes installation costs when upgrading existing universal series pumps to sealless with dimensionally interchangeable footprint.
- Bi-directional pumping design eliminates cost of second pump for loading or unloading.

PERFORMANCE SPECIFICATIONS										
		Standard Port	Nom Capad Maximui	city At	Maximum Speed		mum ssure			
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR			
	Н	1.5	15	3	1,750	200	14			
١.	HL	1.5	30	7	1,750	200	14			
展	K	2	80	18	780	200	14			
STI	KK	2	100	23	780	200	14			
ż	L	2	135	30	640	200	14			
8	LQ	2.5	135	30	640	200	14			
ST	LL	3	170	39	640	200	14			
CAST IRON - STEEL	LS	3	200	45	640	200	14			
	Q	4	300	68	520	200	14			
	QS	6	500	114	520	200	14			
	Н	1.5	15	3	1,750	150	10			
٠	HL	1.5	30	7	1,750	150	10			
岜	K	2	80	18	780	150	10			
S	KK	2	100	23	780	150	10			
STAINLESS STEEL	LQ	2.5	135	30	640	150	10			
물	LL	3	170	39	640	150	10			
¥	LS	3	200	45	640	125	8.5			
S	Q	4	300	68	520	125	8.5			
	QS	6	500	114	520	125	8.5			
Inte	gral relie	f valve is st	andard.							



MAX. CAPACITY

500 GPM (115 M³/Hr)

MAX. PRESSURE

200 PSI (14 BAR)

MAX. VISCOSITY*

250,000 SSU (55,000 cSt)

TEMPERATURE RANGE*

-120°F to +500°F (-85°C to +260°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

* Pressures to 400 PSI (27 BAR) with factory approval | ** Special construction required

Materials

- Cast Iron
- Steel
- Stainless Steel
- o Alloy C, Alloy 20 and Others
- Hard Materials

Porting

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

Sealless Magnetic Couplings

- Neodymium Iron Boron
- Samarium Cobalt

Mounting

Foot Mount

SCAN TO LEARN MORE ABOUT UNIVERSAL MAG DRIVE PUMPS



HEAVY DUTY ALLOY

SERIES: 724, 4724



Features & Benefits

- Jacketed bracket standard on H-LL sizes for heating or cooling. Optional jacketed heads available.
- Integral thrust bearing standard for heavy duty applications.
- Integral pressure relief valve standard on sizes G-LL.
- Motor speed operation on smaller sizes - no reducer required.
- Alloy wetted materials with cast iron non-wetted bracket for enhanced value.

PERFORMANCE SPECIFICATIONS

Maximum

Speed

RPM

1,750

1,750

1,150

1,150

1,150

520

520

420

420

Maximum

Pressure

BAR

14

14

14

10

10

10

10

10

PSI

200

200

200

150

150

150

150

150

150

Nominal

Capacity At

Maximum Speed

M³/Hr

0.3

0.7

10

15

20

GPM

1.5

5

10

20

45

65

90

90

Standard

Port

Inches

0.5

0.75

1.5

1.5

2

2

2

2.5

Size

FΗ

G

ΚK

LQ

LL

STAINLESS STEEL

110 GPM (25 M3/Hr)

MAX. CAPACITY

200 PSI (14 BAR)

MAX. PRESSURE

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

MAX. VISCOSITY

-110°F to +500°F (-80°C to +260°C)

TEMPERATURE RANGE

PERFORMANCE CURVES

vikingpump.com/PumpSelector

Materials

- o 316 Stainless Steel
- o Alloy C, Alloy 20, and Others
- Cast Iron Bracket

Sealing

- Packing
- O Component MechanicalSeal in Stuffing Box (sizes F-HL)
- Component Mechanical Seal Behind-the-rotor (sizes K-LL)

Porting

- Opposite (180°) NPT / BSP Ports (sizes F - G)
- Right Angle (90°) NPT / BSP Ports (sizes H-L)
- Right Angle (90°) 150 Class ANSI Flange Ports (sizes LQ & LL)

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT HEAVY DUTY ALLOY PUMPS

ELECTRICALLY HEATED

SERIES: 124E, 124EH, 324E, 324EH

Features & Benefits

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

	PERFORMANCE SPECIFICATIONS											
		Standard Port	Capac	Nominal Capacity At Maximum Speed			mum ssure	Total				
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR	Watts				
	Н	1.5	15	3.4	1,750	14	200	690				
	HL	1.5	30	6.8	1,750	14	200	690				
	K	2	75	17	780	14	200	690				
щ.	KK	2	100	100 23		14	200	690				
& 324E	L	2	135 31		640	14	200	1,200				
త	LQ	2.5	135	31	640	14	200	1,200				
124E	LL	3	140	32	520	14	200	1,200				
÷	LS	3	200	46	640	14	200	1,200				
	Q	4	300	68	520	14	200	2,200				
	QS	6	500	114	520	14	200	2,200				
	N	6	600	138	350	14	200	2,500				
	HL	1.5	50	11	2,900	9	125	690				
亜	K	2	90	20	1,000	9	125	690				
& 324EH	KK	2	120	27	1,000	9	125	690				
త	L	2	210	48	1,000	9	125	1,200				
124EH	LQ	2	210	48	1,000	9	125	1,200				
124	LS	3	230	52	720	9	125	1,200				
	N	6	685	155	420	9	125	2,500				



PID closed loop controller provides fast time-to-temperature, easy setpoint adjustment.



MAX. CAPACITY

685 GPM (155 M3/Hr)

MAX. PRESSURE

200 PSI (14 BAR)

MAX. VISCOSITY

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

TEMPERATURE RANGE

-60°F to +450°F (-50°C to +230°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

* Pressures to 400 PSI (27 BAR) with factory approval | ** Special construction required

Materials

Cast Iron

Sealing

Packing

Porting

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

Mounting

Foot Mount

SCAN TO LEARN MORE ABOUT **ELECTRICALLY HEATED PUMPS**



MOTOR SPEED

SERIES: 495, 4195, 493, 4193, 4197



MAX. CAPACITY

250 PSI (17 BAR)

MAX. PRESSURE*

25,000 SSU (5,500 cSt)

MAX. VISCOSITY

-40°F to +350°F (-40°C to +180°C)

TEMPERATURE RANGE

PERFORMANCE CURVES

vikingpump.com/PumpSelector

* Higher pressures available with factory approval

Materials

- Cast Iron
- Steel
- Stainless Steel
- Alloy C, Alloy 20 and Others

Sealing

Component Mechanical Seal

Porting

- Opposite (180°)
- o NPT / BSP
- Flanged (ANSI or DIN)

Mounting

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



SCAN TO LEARN MORE ABOUT **MOTOR SPEED PUMPS**

DETAILED INFO IN MASTER CATALOG SECTIONS 144, 154, & 164

Features & Benefits

- Heavy duty antifriction bearing shaft support for higher pressure and extended pump life.
- Motor speed operation eliminates speed reduction equipment on thinner liquids.
- 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 Inline Mount (example on page 45)

	PERFORMANCE SPECIFICATIONS										
		Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure					
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR				
	G ①	1	8	1.8	1,800	250	17				
	GG	1	10	2	1,800	250	17				
VLS	Н①	1.5	15	3.5	1,800	250	17				
ALL MATERIALS	HJ	1.5	20	4.5	1,800	250	17				
-MA	HL	1.5	30	7	1,800	250	17				
AL!	AS	2.5	45	10	1,500	250	17				
	AK	2.5	70	16	1,500	250	17				
	AL	3	95	20	1,500	250	17				

① Cast Iron only.

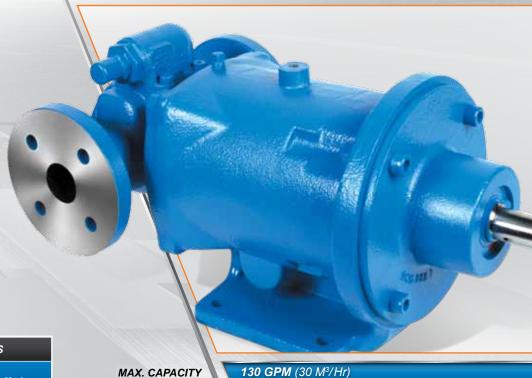


MAG DRIVE MOTOR SPEED

SERIES: 855, 893, 895, 897

Features & Benefits

- Series 855 offers IEC or NEMA motor mounts and ANSI or DIN flanges.
- · Casing and canister drains facilitate servicing.
- Series 893/895/897 offer NPT / BSP or ANSI flange ports and NEMA motor mounts.
- Long-coupled design available for applications requiring speed reducers.



PERFORMANCE SPECIFICATIONS										
		Standard Port ①	Capa	ninal city At m Speed	Maximum Speed		mum sure			
	Size	Inches (mm)	GPM	M³/Hr	RPM	PSI	BAR			
	GS	1 (25)	5	1.1	1,750	200	14			
	GG	1 (25)	10	2.2	1,750	200	14			
NO	HJ	1.5 (40)	20	4.5	1,750	200	14			
ST IR	HL	1.5 (40)	30	6.8	1,750	200	14			
SERIES 855 CAST IRON	AS	3 (65)	42	9.5	1,450	150	10.3			
RIES 8	AK	3 (65)	66	15	1,450	150	10.3			
SE	AL	3 (65)	88	20	1,450	150	10.3			
	KE	3 (80)	94	21.3	1,150	150	10.3			
	KKE	3 (80)	130	30	1,150	150	10.3			
	GG	1 ①	10	2.3	1,750	125	8.5			
SES	HJ	1 ①	20	4.5	1,750	125	8.5			
	HL	1 ①	30	6.8	1,750	125	8.5			
SERIES 893, 895, AST IRON, STAIN	AS	3 ①	35	8	1,150	125	8.5			
RIES 89 T IRON,	AK	3 ①	50	11	1,150	125	8.5			
CAS	AL	3 ①	75	17	1,150	125	8.5			
~										

① ANSI = Inches / DIN = MM

MAX. CAPACITY

200 PSI (14 BAR)

MAX. PRESSURE

MAX. VISCOSITY

250,000 SSU (55,000 cSt)

TEMPERATURE RANGE

-50°F to +225°F (-45°C to +110°C)

PERFORMANCE CURVES vikingpump.com/PumpSelector

Materials

- Cast Iron
- Steel
- Stainless Steel
- o Alloy C, Alloy 20 and Others

Mag Coupling

- Neodymium Iron Boron
- Samarium Cobalt

Porting

- Opposite (180°)
- O NPT / BSP
- Flanged (ANSI or DIN)

Mounting

- Foot Mount
- Motor Mount (Close-Coupled)

SCAN TO LEARN MORE ABOUT MAG DRIVE MOTOR SPEED PUMPS



METRIC MOTOR SPEED

SERIES: 4076, 4176



200 GPM (45 M3/Hr)

MAX. CAPACITY

250 PSI (17 BAR)

MAX. PRESSURE*

25,000 SSU (5,500 cSt)

MAX. VISCOSITY

-40°F to +300°F (-40°C to +150°C)

TEMPERATURE RANGE

PERFORMANCE CURVES

vikingpump.com/PumpSelector
*Higher pressures available with factory approval

Materials

Ductile Iron

Sealing

Component Mechanical Seal

Porting

- Opposite (180°)
- Flanged

Mounting

- Foot Mount
- o IEC Motor Mount (Close-Coupled)



SCAN TO LEARN MORE ABOUT METRIC MOTOR SPEED PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 710

Features & Benefits

- Motor speed operation eliminates speed reduction equipment on thinner liquids.
- Patented root feed groove and advanced gear geometry for optimized high speed operation.
- 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 seals.

	ı	PERFORI	IANCE	SPECI	FICATION	ıs		
		Standard Port	Capa	ninal city At m Speed	Maximum Speed		mum sure	
	Size	mm	GPM	M³/Hr	RPM	PSI	BAR	
	HLE	40	26	6	1,450	250	17	
Z	ATE	65	54	12	1,450	250	17	
ы Ж	ALE	65	94	21	1,450	250	17	
DUCTILE IRON	KE	80	126	29	1,450	175	12	
ے	KKE	80	170	38	1,450	175	12	
	LQE	100	200	45	950	175	12	
Integral relief valve is standard								



MOTOR MOUNTED GENERAL PURPOSE

SERIES: 56, 456, 75, 475, 456-X

Features & Benefits

- NEMA C-face mount for easy installation and a small footprint. (75 & 475)
- Simplified rotor retention system, economical for medium duty applications.
- · IEC mount option available.



	PERFORMANCE SPECIFICATIONS										
		Standard Port	Capac	ninal city At m Speed	Maximum Speed	Maximum Pressure					
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR				
	С	0.25	0.5	0.11	1,750	250	17				
	F	0.5	1.5	0.34	1,750	250	17				
NAE	FH	0.5	3	0.68	1,750	250	17				
MOU	G	1	7	1.5	1,750	100	7				
NGE	GG	1	10	2	1,750	100	7				
C-FLANGE MOUNTED	Н	1.5	15	3.5	1,750	100	7				
	HJ	1.5	20	4.5	1,750	100	7				
	HL	1.5	30	7	1,750	100	7				

Integral pressure relief valve is standard.

U) LP Gas pumps are UL 343 listed for propane or butane liquid transfer applications.





MAX. CAPACITY

30 GPM (7 M3/Hr)

MAX. PRESSURE

250 PSI (17 BAR)

MAX. VISCOSITY

7,500 SSU (1,650 cSt)

TEMPERATURE RANGE*

-60°F to +350°F (-50°C to +180°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

** Temperatures to +500°F (+260°C) with special construction sealed pumps

Materials

Cast Iron

Sealing

- Packing (56 Series Only)
- Component Mechanical Seal
- Lip Seal (75 Series Only)

Porting

- Opposite (180°) (Sizes G HL)
- Same Side (Sizes C FH)
- O NPT / BSP

Mounting

 NEMA & IEC Motor Mount (Close-Coupled)

SCAN TO LEARN MORE ABOUT FLANGED MOUNTED GENERAL PURPOSE PUMPS



GENERAL PURPOSE

SERIES: 32, 432, 432-X



MAX. CAPACITY

250 PSI (17 BAR)

MAX. PRESSURE

TEMPERATURE RANGE**

250,000 SSU (55,000 cSt)

MAX. VISCOSITY

-60°F to +300°F (-50°C to +150°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

** Temperatures to +650°F (+343°C) with special construction packed pumps

Sealing

- Packing
- Component Mechanical Seal (C-HL)

Porting

Opposite (180°)

Materials

Cast Iron

- Right Angle (90°)
- Same Side O NPT / BSP
- Flanged

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT GENERAL PURPOSE PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 310

Features & Benefits

- · Simplified rotor retention system, economical for medium duty applications.
- Back pull-out seals provide access without disturbing the wet end.
- Long shaft standard for pillow block and belt drive, or reducer drive.

	PERFORMANCE SPECIFICATIONS											
		Standard Port	Capac	Nominal Capacity At Maximum Speed		Maximum Pressure						
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR					
	С	0.25	0.5	0.11	1,750	250	17					
	F	0.5	1.5	0.34	1,750	250	17					
	FH	0.5	3	0.68	1,750	250	17					
	G	1	5	1.1	1,150	100	7					
	Н	1	10	2.3	1,150	100	7					
0	HL	1.5	20	4.5	1,150	100	7					
NTE	J	1.25	20	4.5	420	100	7					
-MOU	K	1.5	35	8	420	100	7					
FOOT-MOUNTED	KK	2	50	11.4	420	100	7					
_	L	2	90	20.5	420	100	7					
	LQ	2.5	90	20.5	420	100	7					
	LL	3	140	32	520	100	7					
	Q	3	200	46	350	75	5					
	M	4	280	64	280	75	5					
	N	5	450	102	280	75	5					

Integral pressure relief valve is standard.

LP Gas pumps are UL 343 listed for propane or butane liquid transfer applications.

ABRASIVE LIQUID

SERIES: 4625

Features & Benefits

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

PERFORMANCE SPECIFICATIONS											
		Standard Port	Capac	ninal city At m Speed	Maximum Speed		mum ssure				
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR				
	F	0.5	0.75	0.17	870	100	7				
ED	FH	0.5	1.5	0.34	870	100	7				
	Н	1.5	5	1.1	640	150	10				
	HL	1.5	10	2.3	640	150	10				
NA	K	2	25	5.6	280	150	10				
C-FLANGE MOUNTED	KK	2	35	7.9	280	150	10				
NGE	L	2	50	11.3	230	150	10				
Ä	LQ	2.5	50	11.3	230	150	10				
	LL	3	65	14.8	230	150	10				
	Q	3	110	25	190	125	8.5				
	M	4	140	32	155	125	8.5				
	QS	6	160	36	190	125	8.5				

Abrasion resistant components also available in other series and sizes.

MAX. CAPACITY

160 GPM (36 M³/Hr)

MAX. PRESSURE

150 PSI (10 BAR)

MAX. VISCOSITY

750,000 SSU (160,000 cSt)

TEMPERATURE RANGE*

-60°F to +250°F (-50°C to +120°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

** Temperatures to +450°F (+232°C) with special construction

Materials

Cast Iron

Sealing

Component Mechanical Seal

Porting

- Opposite (180°)
- Right Angle (90°)
- O NPT / BSP
- Flanged

Mounting

Foot Mount

SCAN TO LEARN MORE ABOUT SPECIAL PURPOSE - ABRASIVE LIQUID PUMPS



ASPHALT

SERIES: General Purpose 34, 434 - Heavy Duty 224A/AH/AE, 4224A/AH/AE/B, 324A/AH, 4324A/AH



1,600 GPM (365 M3/Hr)

MAX. CAPACITY

200 PSI (14 BAR)

MAX. PRESSURE

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

MAX. VISCOSITY

-60°F to +450°F (-50°C to +230°C)

TEMPERATURE RANGE**

PERFORMANCE CURVES vikingpump.com/PumpSelector

** Temperatures to +650°F (+343°C) with special construction packed pumps

Materials

Cast Iron

Sealing

- Packing
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal

Porting

- Opposite (180°)Right Angle (90°)
- o NPT / BSP
- Flanged

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT **ASPHALT PUMPS**

DETAILED INFO IN MASTER CATALOG SECTION 430

Features & Benefits

- Simplified rotor retention system, economical for medium duty applications.
- Jacketing suitable for hot oil or steam for enhanced application flexibility.
- · Belt drive or reducer drive options available.



PERFORMANCE SPECIFICATIONS										
		Standard Port	Capa	ninal city At m Speed	Maximum Speed		mum sure			
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR			
ш	HL	1.5	20	5	1,150	100	7			
Pos	KK	2	50	10	420	100	7			
PUR	LQ	2.5	90	20	420	100	7			
RAL	Q	3	200	45	350	75	5			
GENERAL PURPOSE	M	4	280	64	280	75	5			
ဖ	N	5	450	102	280	75	5			
	Н	1.5	15	3	1,750	200	14			
	HL	1.5	30	7	1,750	200	14			
	K	2	75	17	780	200	14			
	KK	2	100	23	780	200	14			
	L	2	135	30	640	200	14			
Ţ	LQ	2.5	135	30	640	200	14			
∆	LL	3	140	32	520	200	14			
НЕАVY DUTY	LS	3	200	45	640	200	14			
	Q	4	300	68	520	200	14			
	QS	6	500	114	520	200	14			
	N	6	600	136	350	200	14			
	R	8	1,100	250	280	200	14			
	RS	10	1,600	365	280	125	9			
For he	avy du	ty applicatio	ns, use a	Jacketed	Universal S	eal.				

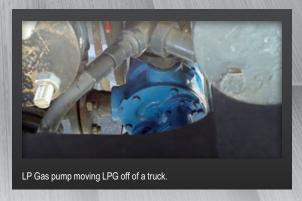
SERIES: 4195-G, 4205-G

Features & Benefits

- Motor speed operation on smaller pumps eliminates need for speed reduction for easy installation.
- Heavy duty anti-friction bearings extend service life.
- Adjustable return-to-tank pressure relief valve.
- Pressure-lubricated idler bushing maximizes bushing life.
- Designed for UL 51 LPG/Autogas transfer, cylinder filling and bobtail mount.

PERFORMANCE SPECIFICATIONS											
		Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure					
	Size	Inches	GPM	M³/Hr	RPM	PSI	BAR				
	GG	1	8	2	1,750	100	7				
	HJ	1.5	17	4	1,750	100	7				
	HL	1.5	25	6	1,750	100	7				
	AS	2.5	30	7	1,150	100	7				
NO.	AK	2.5	45	10	1,150	100	7				
CAST IRON	AL	3	65	15	1,150	100	7				
Š	K	2	30	7	420	100	7				
	KK	2	40	9	420	100	7				
	L	3	75	17	420	100	7				
	LQ	3	75	17	420	100	7				
	LL	3	95	20	420	100	7				

LP Gas pumps are UL 51 listed for propane or butane liquid transfer applications.





MAX. CAPACITY

95 GPM (20 M³/Hr)

MAX. PRESSURE

100 PSI (7 BAR)

MAX. VISCOSITY

N/A

TEMPERATURE RANGE

Down to -40°F (-40°C)

PERFORMANCE CURVES vikingpump.com/PumpSelector

Materials

- Cast Iron (4195: GG-HL)
- Ductile Iron (4195: AS-AL, 4205: All)

Sealing

Component Mechanical Seal

Porting

- Opposite (180°)
- Right Angle (90°)
- O NPT / BSP
- Flanged

Mounting

Foot Mount

SCAN TO LEARN MORE ABOUT LP GAS PUMPS



AMMONIA



Features & Benefits

- Double mechanical seals with pressurized seal chamber and oil reservoir pressurized by ammonia, no external flush system required.
- · Adjustable return-to-tank pressure relief valve.
- · Pressure-lubricated idler bushing maximizes bushing life.
- Designed for ammonia refrigeration systems.

60 GPM (14 M3/Hr)

MAX. CAPACITY

50 PSI (3.5 BAR)

MAX. PRESSURE

N/A

MAX. VISCOSITY

Down to -40°F (-40°C)

TEMPERATURE RANGE

PERFORMANCE CURVES

vikingpump.com/PumpSelector

PERFORMANCE SPECIFICATIONS **Nominal** Standard Capacity At Maximum Maximum Port **Maximum Speed** Speed Pressure GPM M³/Hr BAR Size Inches **RPM** PSI HL 1.5 780 3.5 Κ 2 20 5 280 50 3.5 **CAST-IRON** KK 2 30 280 50 3.5 LQ 2.5 50 11 280 50 3.5 LL 3 60 280 50 3.5

Materials

- Cast Iron
- Ductile Iron

Sealing

Double Mechanical Seal

Porting

- Opposite (180°)
- Right Angle (90°)
- O NPT / BSP
- Flanged

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT **AMMONIA PUMPS**





PUMP TECHNOLOGY: EXTERNAL GEAR

ADVANTAGES

- Higher Pressure Capabilities
 With shaft support on both sides of the gears.
- Multi-Section Pumps
 Use one motor for multiple pumping applications, blending liquids, or splitting flows to different uses.
- Shaft Seal Options
 Including lip seal, component seal, cartridge seal and mag drive options.
- Compact, Close-Coupled Options
 For motor speed operation or with gearmotors.
- Minimal Pulsation
 For accurate flow measurement.
- Reliable and Easy To Maintain With only two moving parts.
- One Shaft Seal
 More reliable and lower cost than two used on timed lobe and screw pumps.

PERFORMANCE



Capacity Range to 190 GPM (45 M³/Hr)



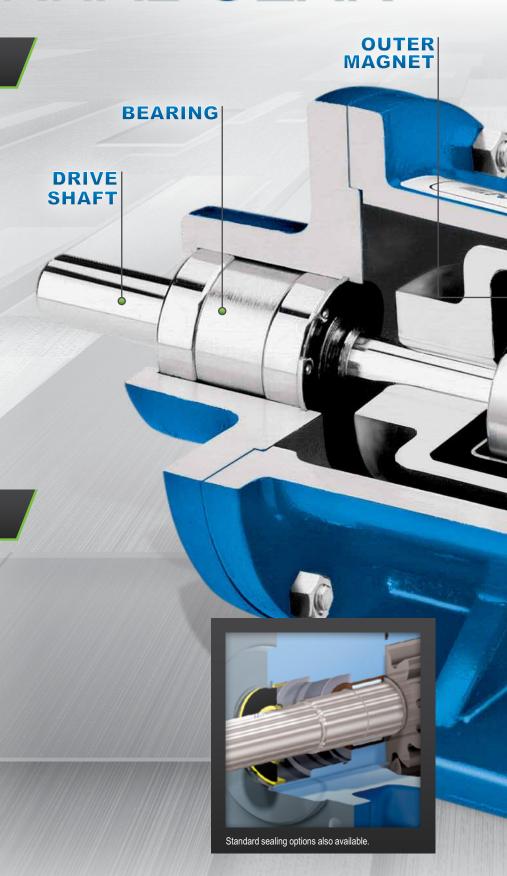
Viscosity Range 28 to 2,000,000 SSU (1 to 440,000 cSt) With special construction



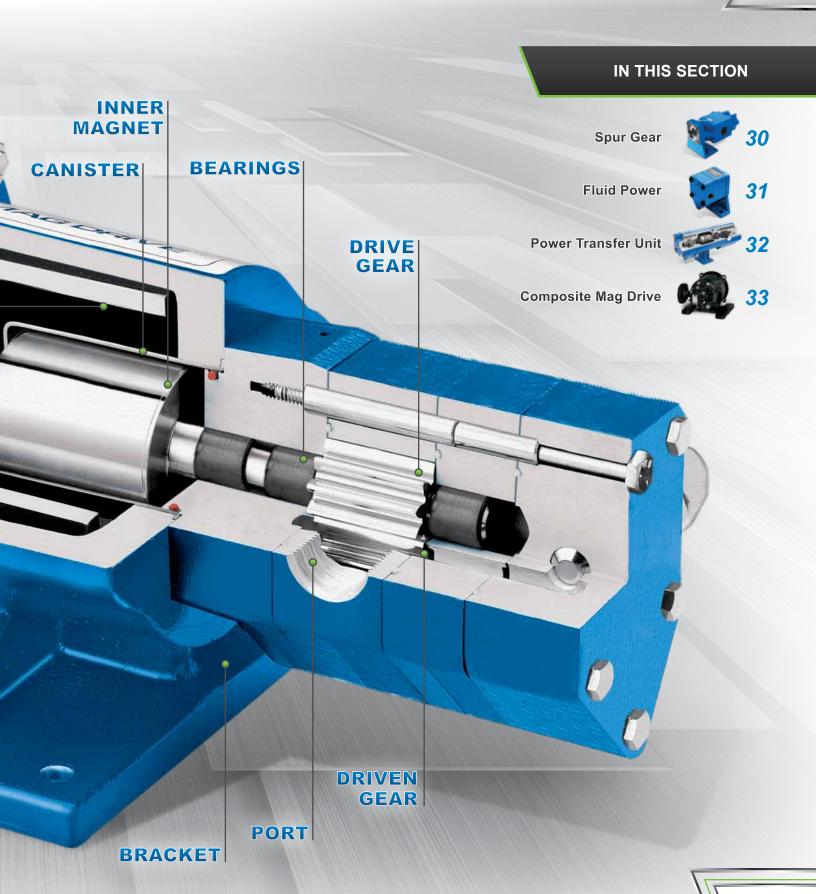
Pressure Range to 2,500 PSI (170 BAR)



Temperature Range -40°F to +450°F (-40°C to +230°C) With special construction



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



SPUR GEAR

SERIES: SG

Features & Benefits

- Needle bearings provide high pressure capabilities, sleeve bearing options available.
- Close-coupled motor mount or foot bracket options to match space or motor requirements.
- Double pump configurations offer two flow rates operating from a single power source, reducing equipment costs.

SG-8 Mag Drive Spur Gear Pump

190 GPM (45 M3/Hr)

MAX. CAPACITY

500 PSI (34 BAR)

MAX. PRESSURE

1,000,000 SSU (250,000 cSt)

MAX. VISCOSITY*

-40°F to +450°F (-40°C to +230°C)

TEMPERATURE RANGE

PERFORMANCE CURVES
vikingpump.com/PumpSelector

*SG-8 Mag Drive version capable of viscosity to 2,000,000 SSU (440,000 cSt)

Materials

- Cast Iron
- Ductile Iron

Sealing

- Lip Seal
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Sealless Mag Drive

Porting

- Opposite (180°)
- Same Side
- NPT / BSPSAE O-Ring
- SAE Flange

Mounting

- Foot Mount
- Motor Mount for IEC & NEMA Motors (Close-Coupled)



SCAN TO LEARN MORE ABOUT SPUR GEAR PUMPS

DETAILED INFO IN MASTER CATALOG SECTIONS 341.1 & 341.3

PERFORMANCE SPECIFICATIONS

		Standard	Standard Port		Capacity 0 RPM		nuous sure	Intern Pres	nittent sure
		Size	Inches	GPM	LPM	PSI	BAR	PSI	BAR
		SG-0417	0.375	0.06	0.23	500	34	750	52
		SG-0418	0.375	0.14	0.53	500	34	1,250	86
	\$	SG-0425	0.375	0.18	0.68	500	34	1,500	103
	SG-04	SG-0435	0.375	0.27	1.02	500	34	1,750	121
		SG-0450	0.375	0.36	1.36	500	34	2,000	138
		SG-0470	0.375	0.5	1.89	500	34	1,500	103
		SG-0518 ①	0.5	0.7	2.6	500	34	1,500	103
		SG-0525 ①	0.5	1	3.8	500	34	2,500	170
		SG-0535 ①	0.5	1.4	5.3	500	34	2,500	170
	2	SG-0550 ①	0.5	2	7.6	500	34	2,500	170
	SG-05	SG-0570 ①	0.5	2.8	10.6	500	34	1,800	124
	S	SG-0510 ①	0.5	4	15.1	500	34	1,250	86
		SG-0514 ①	0.75	5.6	21.2	500	34	900	62
		SG-0519 ①	0.75	7.6	28.8	200	14	400	28
		SG-0528 ①	0.75	11.2	42.4	100	7	200	14
		SG-0729	1	2.8	10.6	500	34	2,500	170
		SG-0741	1	4	15.1	500	34	2,500	170
		SG-0758	1	5.6	21.2	500	34	2,500	170
Ø	SG-07	SG-0782	1	8	30.3	500	34	2,250	155
	SG	SG-0711	1	11.2	42.4	500	34	1,600	110
		SG-0716	1	16	61	500	34	1,100	76
		SG-0722	1.50 X 1.25	22	83	500	34	1,600	110
		SG-0732	1.50 X 1.25	32	121	500	34	1,100	76
9	2	SG-1009	1	16	61	500	34	2,500	170
9	SG-10	SG-1013	1.5	25	95	500	34	1,900	130
7	0)	SG-1026	2	50	189	500	34	1,000	68
	4	SG-1420	2	70	265	500	34	1,100	75
	SG-14	SG-1436	3	125	473	290	20	580	40
	0)	SG-1456	4	190	719	190	13	380	26
			ualiafica		عام منام / امس				

Integral pressure relief valve standard (single pump).

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

FLUID POWER

SERIES: GP

Features & Benefits

- High efficiency, fixed displacement, external gear pumps for medium pressure fluid power (hydraulic) applications.
- Optional outboard bearing available for overhung loads.
- Installation is simple, with brackets to close-couple to NEMA or IEC motors, or foot mount.



Double Pumps See Catalog Section 341.2

Standard

Port

Inches

0.375

0.375

0.375

0.375

0.375

0.375

0.5

0.5

0.5

0.5

0.5

0.5

0.75

1.5

2

2

3

4

Standard Size

GP-0417

GP-0418

GP-0425

GP-0435

GP-0450

GP-0470

GP-0518

GP-0525

GP-0535

GP-0550

GP-0570

GP-0510

GP-0514

GP-0741

GP-0758

GP-0782

GP-0711

GP-0716

GP-1009

GP-1013

GP-1026

GP-1420

GP-1436

GP-1456

PERFORMANCE SPECIFICATIONS

Nominal Capacity

At 1750 RPM

LPM

0.23

0.53

0.68

1.02

1.36

1.89

2.6

3.8

5.3

7.6

10.6

15.1

21.2

15.1

21.2

30.3

42 4

61

61

95

189

265

473

719

GPM

0.06

0.14

0.18

0.27

0.36

0.5

1

1.4

2

2.8

4

5.6

4

5.6

8

112

16

16

25

50

70

125

190



Continuous

Pressure

BAR

103 1,750

86 2,000

103

138 2,500

124 2,500

62 1,800

43 1,250

31 900

155 2,500

110

77.6 2,250

34 2,500 172

34

13

55.1 1,600

37.9 1,100

PSI

1,000 69

1,250 86

1,500

1,250

900 62

1,500

2,000

1,800

1,250 86

900

625

450

2,250

1,600

1,125

800

550

500

500

500 34

500 34

290 20

190

Flow Dividers See Catalog Section 341.6

Intermittent

Pressure

69

103

121

138

103

103

172

172

172

124

86

62

172

172

155

110

75.8

130

68

75

40

26

PSI BAR

1,000

1,500

1,500

1,500

2,500

2,500

1,900

1,000

1.100

580

380

MAX. CAPACITY

190 GPM (45 M³/Hr)

MAX. PRESSURE

2,500 PSI (172 BAR)

MAX. VISCOSITY

25,000 SSU (5,500 cSt)

TEMPERATURE RANGE

-40°F to +450°F (-40°C to +230°C)

PERFORMANCE CURVES vikingpump.com/PumpSelector

Materials

Cast Iron

Sealing

Lip Seal

Porting

- Opposite (180°)
- Same Side
- NPT / BSPSAE O-Ring
- SAE Flange

Mounting

- Foot Mount
- Motor Mount (Close-Coupled) for IEC & NEMA Motors
- Vertical In-Line

SCAN TO LEARN MORE ABOUT FLUID POWER PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 341.4



VIKINGPUMP.COM

VIKING PUMP

POWER TRANSFER UNITS

SERIES: SG-04 and SG-05 External Gear, 75 and 475 Internal Gear

22.4 GPM (5 M3/Hr)

MAX. CAPACITY

500 PSI (34 BAR)

MAX. PRESSURE

1,000,000 SSU (250,000 cSt)

MAX. VISCOSITY

-40°F to +450°F (-40°C to +230°C)

TEMPERATURE RANGE

PERFORMANCE CURVES

vikingpump.com/PumpSelector

Materials

Cast Iron

Sealing

Lip Seal

Component Mechanical Seal

Porting

O NPT / BSP

Mounting

Foot Mount



SCAN TO LEARN MORE ABOUT **POWER TRANSFER UNITS**

DETAILED INFO IN MASTER CATALOG SECTION 341.5

Features & Benefits

- PTU's are external or internal gear pumps with an integral hydraulic motor.
- · Excellent solutions for mobile fluid transfer applications.
- · Work well for remote, limited space and/or hazardous locations.



GM Series Hydrualic Motors See Catalog Section 341.4



Also Available as an Internal Gear Pump.

PERFORMANCE SPECIFICATIONS

			Nominal Capacity At 1150 RPM		Nominal Capacity At 1750 RPM		Nominal Capacity At 3450 RPM	
		Size	GPM	LPM	GPM	LPM	GPM	LPM
		0417	.04	.15	.06	.23	.12	.45
		0418	.09	.34	.14	.53	.27	1.02
		0425	.12	.45	.18	.68	.36	1.36
		0435	.17	.64	.27	1.02	.52	1.97
		0450	.24	.91	.36	1.36	.7	2.65
		0470	.34	1.29	.50	1.89	1	3.79
	SERIES	0518	.47	1.78	.7	2.65	1.4	5.30
	SER	0525	.66	2.5	1	3.79	2	7.57
	၁၆	0535	.9	3.41	1.4	5.30	2.8	10.60
		0550	1.3	4.92	2	7.57	4	15.14
		0570	1.8	6.81	2.8	10.60	5.6	21.20
ä		0510	2.6	9.84	4	15.14	8	30.28
		0514	3.7	14.01	5.6	21.20	11.2	42.40
		0519	5	18.93	7.6	28.77	15.2	57.54
		0528	7.3	27.63	11.2	42.40	22.4	84.79
				Capacity		Capacity		essure

	0320	1.5	21.03	11.2	42.40	22.4	04.73	
		Nominal Capacity At 1150 RPM		Nominal At 175	Capacity 0 RPM	Max Pressure (PSI)		
	Size	GPM	LPM	GPM	LPM	PSI	BAR	
	G75	5	18.9	7	26.5	100	6.9	
	G475	5	18.9	7	26.5	100	6.9	
	GG75	7	26.5	10	37.9	100	6.9	
SE SE	GG475	7	26.5	10	37.9	100	6.9	
75 / 475 SERIES	H75	10	37.9	15	56.8	100	6.9	
475	H475	10	37.9	15	56.8	100	6.9	
75/	HJ75	13	49.2	20	75.7	100	6.9	
	HJ475	13	49.2	20	75.7	100	6.9	
	HL75	20	75.7	30	113.6	100	6.9	
	HL475	20	75.7	30	113.6	100	6.9	

Sealless Mag Drive options available.

COMPOSITE MAG DRIVE

SERIES: Composite Mag Drive: CMD, VI-CORR: RP

Features & Benefits

- Inert composite materials for universal chemical compatibility.
- · Compact design.
- Multiple seal options (VI-CORR) or sealless Mag Drive (CMD).
- Entirely non-metallic (CMD).
- · High repeatability for chemical metering.



PERFORMANCE SPECIFICATIONS										
		Standard Port	Nominal Capacity At 1450 RPM		Nominal Capacity At 1750 RPM		Pressure			
	Size	Inches	GPM	LPM	GPM	LPM	PSI	BAR		
CMD	02	.25	.34	1.3	.4	1.5	150	10		
	05	.375	1.3	4.9	1.5	5.8	150	10		
	12	.75	2.6	10	3.2	12.1	150	10		
	25	1	5.5	21	6.5	24.6	150	10		
	75	1.5	16.5	62.5	20	75	150	10		
	125	1.5	27	104	33	125	150	10		

In-line valve sold separately.										
		Standard Nominal Capacity Port At 1450 RPM		Nominal Capacity At 1750 RPM		Pressure				
	Size	Inches	GPM	LPM	GPM	LPM	PSI	BAR		
윤	RP-0782	2	6.6	25.1	8	30.3	200	14		
VI-CORR F	RP-0716	2	13.3	50.2	16	60.6	200	14		
흥	RP-0724	2	19.9	75.3	24	90.8	200	14		
Ś	RP-0732	2	26.5	100.4	32	121.1	200	14		

Integral relief valve is standard.



CMD Pump

MAX. CAPACITY*

27 GPM (6 M3/Hr)

MAX. PRESSURE*

200 PSI (14 BAR)

MAX. VISCOSITY

25,000 SSU (5,500 cSt)

TEMPERATURE RANGE

-40°F to +200°F (-40°C to +95°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

* Performance varies between CMD & VI-CORR versions

Materials

- Carbon Reinforced ETFE or PVDF (CMD)
- o PPS (VI-CORR)

Sealing

- Mechanical Seal (VI-CORR)
- Lip Seal (VI-CORR)
- Sealless Mag Drive

Porting

- Opposite (180°)
- NPT / BSP
- Flanged (ANSI or DIN)

Mounting

- Motor Mount
- Foot Mount (CMD)

SCAN TO LEARN MORE ABOUT COMPOSITE MAG DRIVE PUMPS



PUMP TECHNOLOGY: ROTARY VANE

ADVANTAGES

- Higher Pressure on Thin Liquids
 For long distance transfer of thin fuels and chemicals.
- Superior Suction Lift
 Enables top-of-tank mounting for fireguard applications.
- Fast Vane Replacement
 Vanes can be replaced in the field without removing the pump.
- Minimal Pulsation
 For accurate flow measurement.
- One Shaft Seal
 More reliable and lower cost than two used on timed lobe and screw pumps.
- ANSI or DIN Compatible Flange Ports
 For easy mounting anywhere in the world.
- Compact, Close-Coupled Options
 For motor speed operation or with gearmotors.

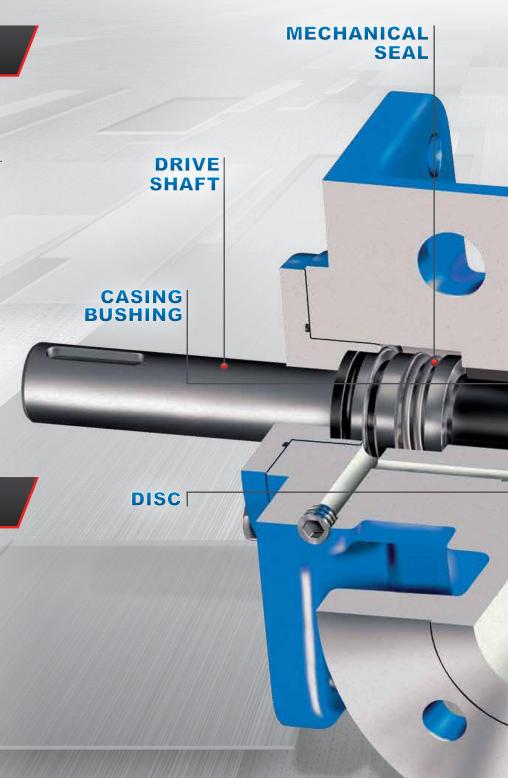
PERFORMANCE

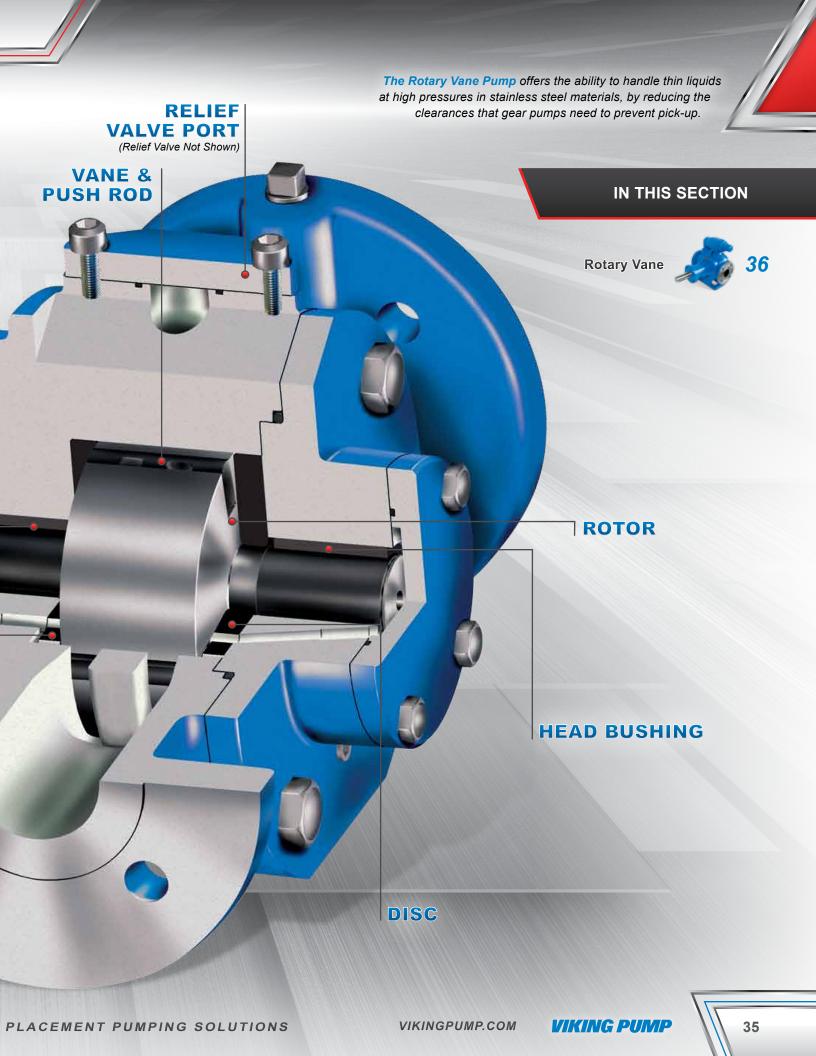


Viscosity Range 28 to 2,300 SSU (500 cSt)

Pressure Range to 200 PSI (14 BAR)

Temperature Range -15°F to +225°F (-30°C to +110°C)





ROTARY VANE

SERIES: LVP



160 GPM (36 M³/Hr)

MAX. CAPACITY

200 PSI (14 BAR)

MAX. PRESSURE

TEMPERATURE RANGE**

2,300 SSU (500 cSt)

MAX. VISCOSITY

-15°F to +225°F (-30°C to +110°C)

PERFORMANCE CURVES

vikingpump.com/PumpSelector

** Temperatures -60°F to +500°F (-51°C to +260°C) with special construction

Materials

Stainless Steel

Sealing

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

Porting

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

Mounting

- Foot Mount
- Motor Mount



SCAN TO LEARN MORE ABOUT ROTARY VANE PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 445

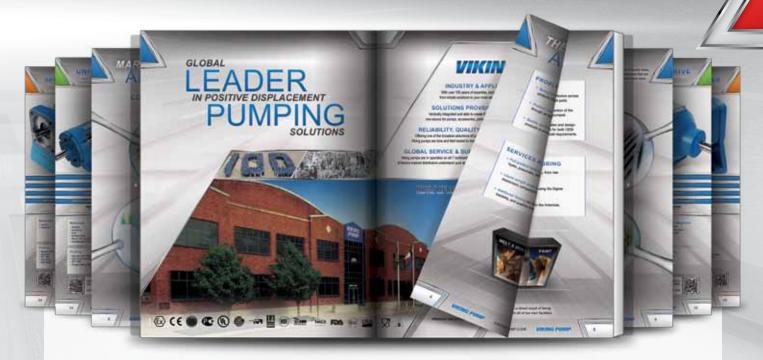
Features & Benefits

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

PERFORMANCE SPECIFICATIONS										
		Standard Port	Nominal Capacity At Maximum Speed		Maximum Speed	Maximum Pressure				
	Size	Inches ①	GPM	M³/Hr	RPM	PSI	BAR			
	LVP40017 LVP41017	(1.5) 40	20	4	1,750	200	14			
료	LVP40027 LVP41027	(1.5) 40	40	9	1,750	200	14			
STAINLESS STEEL	LVP41057	(2) 50	80	15	1,150	200	14			
INLE	LVP41087	(2) 50	100	23	950	200	14			
ST/	LVP41197	(3) 80	125	29	520	200	14			
	LVP41237	(3) 80	160	36	520	200	14			

① ANSI-compatible parts in inches, DIN-compatible parts in (mm) Integral pressure relief valve is standard.





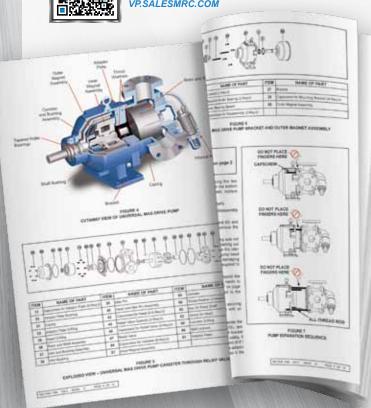
VIKING PUMP LITERATURE

Supports Your Pump



SCAN TO GET INSTANT ACCESS TO VIKING PUMP LITERATURE

VP.SALESMRC.COM





"Flip" Through The Literature

No need to download large files to browse our latest brochures and catalog. Our Flipping Book powered system allows you to search for content, email page links, and much more.



Everything In One Place

Find brochures, flyers, and service manuals all in one organized location on our marketing resource center. Scan the QR code to the left or visit vp.salesmrc.com today.



Order What You Need

The Marketing Resource Center also allows you to order specific quantities of the literature you would like to have on hand for later reference.



Technical Documentation

Get access to all Viking technical service manuals to get diagrams and explanations about every part of your pump.

PUMP TECHNOLOGY: INDUSTRIAL LOBE

ROLLER

ADVANTAGES

- Higher Pressure Capabilities For long distance transfer of high viscosity liquids.
- Easy Timing Rotors and gears are positively located on keyed shafts.
- Simple End Clearance Adjustment Compared to other lobe pumps which require shimming.
- Shaft Seal Options Including packed gland, component seal and cartridge seal options.
- Excellent NPSHr Fluid access on three sides of rotors enhances filling with highly viscous fluids and minimizes pulsation.
- Run Dry Continuously Non-contacting rotors enable continuous run-dry with flushed seal, minimizing chance of failure due to operator error.

PERFORMANCE



Capacity Range to 820 GPM (186 M³/Hr)



Viscosity Range 28 to 2,000,000 SSU (1 to 440,000 cSt)



Pressure Range to 400 PSI (27 BAR)



Temperature Range -40°F to +400°F (-40°C to +205°C)

BEARINGS

BEARING

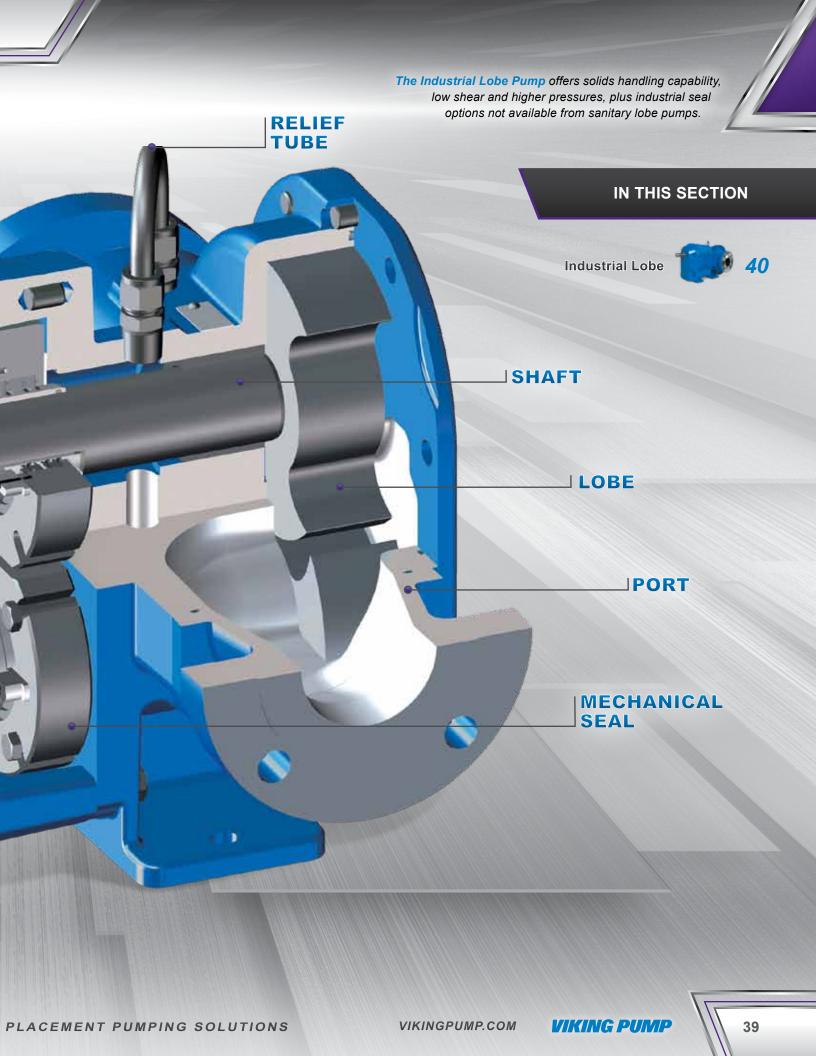
HOUSING

LABYRINTH

SEAL

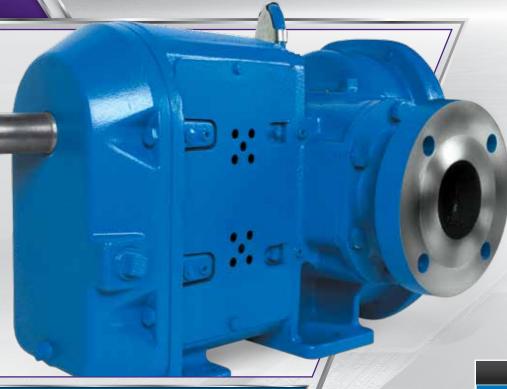
DRIVE SHAFT

> HELICAL TIMING GEARS



INDUSTRIAL LOBE

SERIES RI



Features & Benefits

- Rugged rotor shaft support for longer life and higher pressure capabilities.
- Shimless design for ease of maintenance.

PERFORMANCE SPECIFICATIONS

Nominal

Maximum

Speed

RPM

640

640

600

Maximum

Pressure

BAR

27

27

27

PSI

400

400

400

Capacity At

Maximum Speed

M³/Hr

23.8

36.3

186

GPM

105

160

820

Standard

Port

Inches

3

Size

RL016

RL025

RL150

 Accepts industry standard cartridge seals for maximum flexibility.

820 GPM (186 M3/Hr)

MAX. CAPACITY

400 PSI (27 BAR)

MAX. PRESSURE*

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

MAX. VISCOSITY*

-40°F to +400°F (-40°C to +205°C)

TEMPERATURE RANGE*

PERFORMANCE CURVES vikingpump.com/PumpSelector

*Special sealing or materials of construction may be required

Materials

Stainless Steel

Sealing

- Packed Gland
- Component Mechanical Seals
- Cartridge Mechanical Seals
- Cartridge Triple Lip Seal

Porting

- Opposite (180°)
- ANSI-Compatible Flange

Mounting

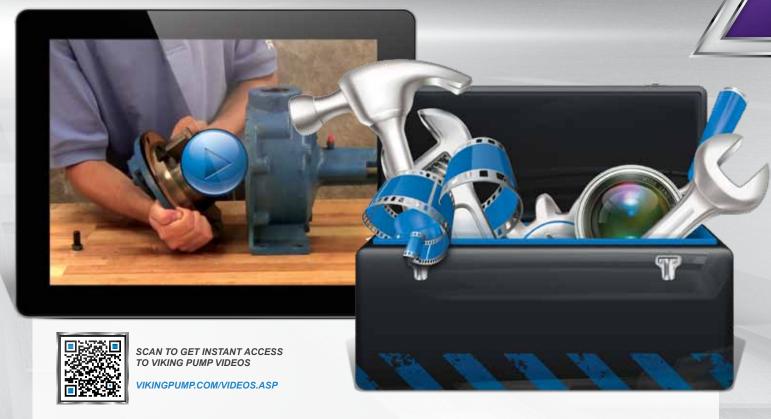
Foot Mount



SCAN TO LEARN MORE ABOUT INDUSTRIAL LOBE PUMPS

DETAILED INFO IN MASTER CATALOG SECTION 270





VIKING PUMP SERVICE VIDEOS

Support Your Pump





Easy to Follow Instruction

Maintain your Viking pump with complete confidence by following along with our step-by-step service videos.



Tips and Tricks

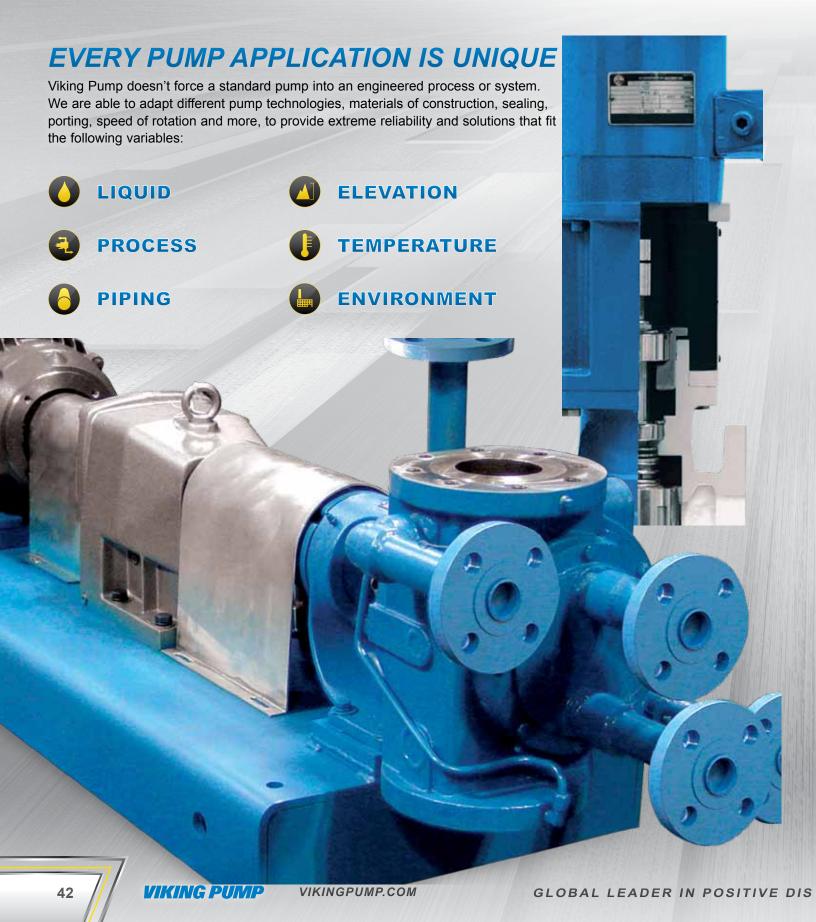
Learn the trade secrets that make pump maintenance a breeze. We will provide you pointers for various pumps and industries throughout each video.



Maintenance Kits Advantage

We show you why maintenance kits are the easy method to maximize your Viking pump's uptime.

SOLUTIONS & SYSTEMS



CUSTOM OEM SOLUTIONS

Customer Specific Design to Meet Unique Challenges

Some solutions involve advanced changes to the pump design to handle a unique OEM application or to fit within a physical footprint of a machine or system. Viking provides unique solutions in:

- Lubrication
- Filtering
- Heat transfer
- Fuel injection
- Burner feed
- · Adhesive dispensing
- Two-part meter/mix
- Colorant metering
- Fluid power
- And much more



LOCOMOTIVE MAIN LUBE PUMP

This custom-designed helical gear lubrication pump is mounted to the engine of a large diesel locomotive (and is driven by it). It features a bracket to mount the engine's fuel pump, as well.



WIND TURBINE LUBE PUMP

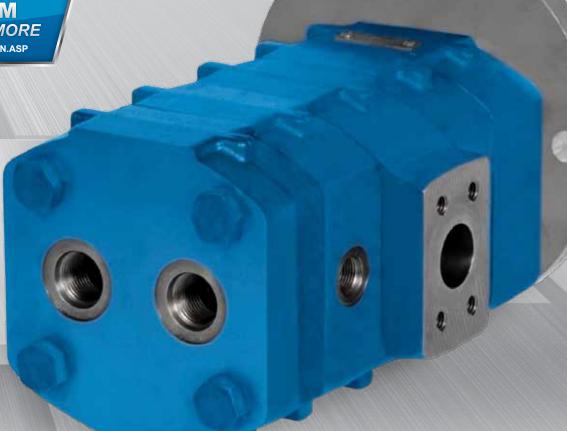
This unique pump is mounted to (and driven by) the gearbox on a wind turbine, and draws oil from the suction port (bottom), where it flows out the top to a filter and back to the gearbox. It pumps in the same direction regardless of which direction the shaft turns.

CONTACT OUR OEM TEAM TO LEARN MORE

VIKINGPUMP.COM/DISTRIBUTION.ASP

HEAVY TRUCK TRANSMISSION LUBE PUMP

Designed for large, heavy duty off-road trucks. This rugged pump features three sections, to scavenge oil, lubricate the transmission, and drive a hydraulic motor on the radiator's cooling fan.



VIKINGPUMP.COM

VIKING PUMP

DUPLEX FUEL OIL SETS

Customized to Meet Your Fuel Oil Needs



Standard Equipment

- Heavy duty positive displacement gear pumps (Qty. 2)
- TEFC Motors (Qty. 2)
- Steel baseplate with drip lip and drain (Qty. 1)

Suction Line

- Viking Lid-Ease[®] basket strainers (Qty. 2)
- Ball valves (Qty. 2)
- Compound gauges with gauge valves (Qty. 2)

Discharge Line

- Check valves (Qty. 3)
- o Ball valves (Qty. 2)
- o Relief valves (Qty. 2)
- Pressure gauges with gauge valves (Qty. 2)

Suction/Discharge Piping

- Schedule 40 carbon steel piping
- Leak tested with 100 PSI air, soap and water
- Vinyl Toluene Alkyd coated, quick dry enamel

Options

- 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
- Welded piping

Features & Benefits

- Proven, factory manufactured fuel oil sets built custom to your order.
- UL-CSA electrical control panels.
- Easy sizing with 8-Step Selection Software, available on CD.
- Available with standard or UL-listed pumps.
- Quick access to comparison sheets, specification sheets, illustration drawings and P&ID drawings.
- Over 25 years of experience engineering and manufacturing duplex fuel oil sets.

Performance

Max Capacity* 75 GPM (285 LPM)

Max Pressure 500 PSI (34 BAR)

Max Viscosity 0 to 25,000 SSU (2,500 cSt)

Max Temperature -4°F to +180°F (-20°C to +80°C)

* Larger capacities available, consult factory.

Applications

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



SCAN TO LEARN MORE ABOUT DUPLEX FUEL OIL SETS

DRIVE CONFIGURATIONS

An Entire Pumping Solution in One Package

Features & 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.

		Drive Style								
Pump Series	R	Р	D	٧	В	١				
INTERNAL GEAR										
Industrial-Duty Pumps										
Universal Seal & UMD	- 1									
Jacketed Universal Seal										
Motor Speed (Metric)	- 1	•	•	•		1				
Motor Speed										
General Purpose Pumps	eral Purpose Pumps									
General Purpose						i				
Special Purpose										
Abrasive Liquids										
Ammonia	- 4									
Asphalt			•	•						
LP Gas										
EXTERNAL GEAR										
Sealed										
Spur Gear	- 1		•		•	•				
Sealless										
Mag Drive Spur Gear						Ė				
ROTARY VANE										
LVP Vane										
INDUSTRIAL LOBE										
Industrial Lobe										

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.



"P" Drive
Purchased Gear Reducer



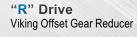
"D" Drive
Direct Connected to Standard
Motor, Variable Speed Drive,
or Gear Head Motor



"B" Drive
Bracket Mounted



"M" Drive Motor Mounted





"V" Drive V-Belt

"IM" Drive Vertically Inline Mounted

VERSATILE ACCESSORIES

SIMPLIFY INSTALLATION AND INCREASE RELIABILITY

Our accessories can be installed by Viking Pump or your Viking Pump distributor as a complete pump unit, or separately.



STRAINERS

Lid-Ease® strainers for easy installation.

MOTORS

Electric, hydraulic, air and gear motors to power your pump with reliability and control.

REDUCERS

Gear reducers to help your pump perform at your desired speed and flow.

BASEPLATES

Sturdy platforms to support your entire configuration.

LID-EASE® STRAINERS

Protect Your Pumps and Systems With Our Versatile Strainers

Features & Benefits

- Quarter-turn, easy opening breech-lock lid simplifies routine cleaning.
- Inclined basket design provides low pressure drop for high system efficiency.
- Top basket removal eliminates the need to drain the strainer and minimizes product loss.
- Optional magnetic inserts are available for trapping ferrous particles.
- Optional differential pressure indicators optimize cleaning intervals.
- Strainer pressure drop calculator available on www.vikingpump.com/ strainerselector.

PERFORMANCE SPECIFICATIONS										
		Standard Port	Nominal Capacity		Sy	ated stem ssure	Maximum Basket Differential Pressure			
	Size	Inches	GPM	M³/Hr	PSI	BAR	PSI	BAR		
≥	F-1020	2	100	23	200	14	150	10		
3	F-1030	3	200	45	125	8.5	125	8.5		
•	F-1040	4	400	91	125	8.5	125	8.5		
	F-1007	0.75	20	5	200	14	150	10		
	F-1010	1	30	7	200	14	150	10		
_	F-1013	1.25	40	9	200	14	150	10		
CAST IRON	F-1015	1.5	50	11	200	14	150	10		
Ĕ	F-1020	2	100	23	200	14	150	10		
ğ	F-1030	3	200	45	125	8.5	125	8.5		
	F-1040	4	400	91	125	8.5	125	8.5		
	F-1060	6	800	182	125	8.5	75	5		
	F-1080	8	1,500	340	125	8.5	50	3.4		
щ	F-1020	2	100	23	200	14	150	10		
闄	F-1030	3	200	45	125	8.5	125	8.5		
3	F-1040	4	400	91	125	8.5	125	8.5		
	F-1060	6	800	182	125	8.5	75	5		
	F-1007	0.75	20	5	200	14	150	10		
료	F-1010	1	30	7	200	8.5	150	10		
STE	F-1013	1.25	40	9	200	8.5	150	10		
SS	F-1015	1.5	50	11	200	8.5	150	10		
Ë	F-1020	2	100	23	200	8.5	150	10		
STAINLESS STEEL	F-1030	3	200	45	125	8.5	125	8.5		
S	F-1040	4	400	91	125	8.5	125	8.5		
	F-1060	6	800	182	125	8.5	75	5		
	Mesh	10	2	0	40	60	80	100		
Open	ing (micr	ons) 1,91	0 86	60 :	380	230	190	140		



Materials

- Aluminum
- Cast Iron
- Ductile Iron
- Stainless Steel

Options

- Magnetic Inserts
- Differential Pressure Indicators

Porting

- Flanged
- Threaded
- Grooved

How It Works



The inclined position of the strainer basket adjacent to the porting allows for smooth flow patterns.

SCAN TO LEARN MORE ABOUT LID-EASE® STRAINERS

DETAILED INFO IN MASTER CATALOG SECTION 640



Opening (in.)

DRIVE MOTORS

Power Your Pump With a Motor From Viking Pump



Features & Benefits

- One stop shop get your pump and motor from one supplier.
- Competitive pricing direct through VIking Pump.
- All major brands and types available.
- Energy efficient, compliant with EISA and EC640/2009 standards.

Horsepower Range

o .25 to 350 HP

Voltage Range

- o 115 to 575 Volts
- Single or Three Phase

Frequency

o 50/60 Hz

Enclosure

- NEMA
- o IEC
- XP / ATEX

Mounting

- Foot
- C-Flange



SCAN TO LEARN MORE ABOUT DRIVE MOTORS

GEAR REDUCERS

Get the Control and Performance You Need Out of Your Viking Pump

Features & Benefits

In-Line Reducers

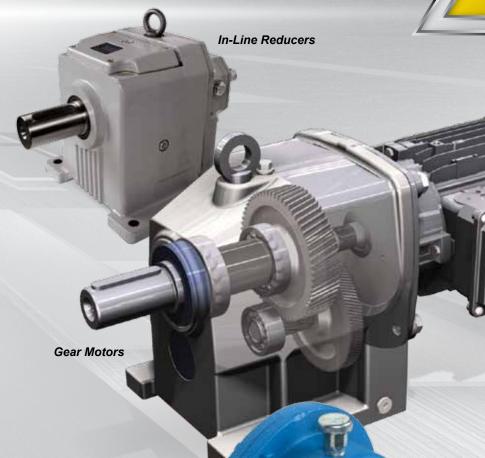
- Available in multiple sizes and a variety of ratios to 350 HP / 250 kW.
- Universal mounting solid input shaft or motor mount option (IEC or NEMA).
- · High efficiency and low noise levels.

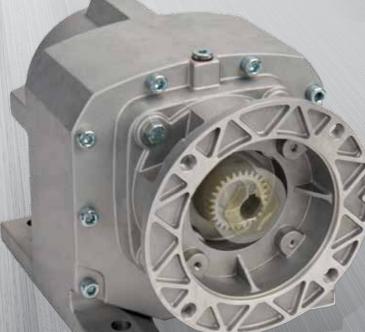
Offset Reducers

- Ratios are fully interchangeable in each gearbox.
- Multiple mounting brackets enable output shaft to match Viking shaft heights.
- Slotted bracket enables input shaft to match multiple motor shaft heights.

Gear Motors

- Integrated motor and reducer.
- Compact footprint.







SCAN TO LEARN MORE ABOUT GEAR REDUCERS & GEAR MOTORS

DETAILED INFO IN MASTER CATALOG SECTIONS 610, 615, 616, & 617



ASSURANCE

WE PROVIDE ANALYTICAL SERVICES FOR OPTIMUM PUMP PERFORMANCE

- Enable best possible pump selection for your liquids and process conditions.
- Satisfy engineering specifications and governmental regulations.
- Guarantee accuracy with NIST-traceable calibration.

- Validate pump performance before installation with certified pump tests.
- Test pump only, or your complete unit pump, reducer and drive.
- Test with your liquids, especially non-newtonian liquids, at your process temperatures.





- Factory testing to ensure your Viking pump meets your flow requirements.
 These tests are performed using state of the art dynamometers and data gathering software. These tests can be performed on a variety of liquids to best duplicate your unique conditions of service.
- o 6 dynamometers through 150 HP
- Oils, solvent, water and other test fluids
- Witnessed testing available



CERTIFIED HYDRO TEST

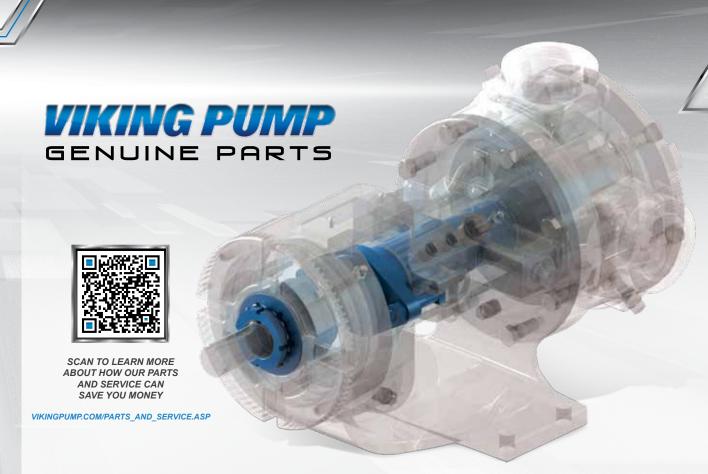
- Hydro testing ensures that your pump will not leak at or beyond your application pressure. These tests are performed using fuel oil or nonpetroleum test fluid.
- Test condition is at 1.5 x maximum operating pressure or 250 PSI (whichever is greatest)
- Pressure and duration may be changed to meet customer specification
- Pneumatic testing also available

Lab Resources:

- Dynamometers
- Test Liquids to 75,000 SSU
- Data Acquisition Tools
- Viscometer
- Machine Shop

Testing Services Available:

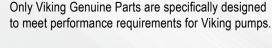
- Pneumatic Testing
- NPSHr Testing
- Sound & Vibration
- Visual Inspection and Measurements
- Liquid Sample Analysis
- Material Testing
- Traceability
- Magnetic Particle Testing



REPAIR IT ONCE REPAIR IT RIGHT



Design





Quality



Support

Viking Genuine Parts are designed and tested to ensure optimum performance.

Viking backs all Genuine Parts with its own warranty and distributor network.





Everything you need in one place



Save time and money



Increase uptime



Increase service life



Reduce frequency of repairs

REBUILD vs REPLACE PUMP

- Viking kits save time and money, making rebuilding easier and more cost effective.
- Viking pumps are built to the highest standards so they can be rebuilt instead of replaced.
- Average savings of 35% to rebuild compared to replacing your pump.
- Less downtime with faster shipping and leadtime for kits versus new pumps.

SEAL & MATERIAL SELECTION GUIDE

MATERIAL SELECTION

Since 1929, Viking has cast its metals using two captive foundries, allowing for ultimate control and superior quality.



Alloy 20

Austenitic stainless steel for sulfuric acid.

Alloy C

Cast nickel base alloy for strong oxidizers.

Bronze

Used for chloride corrosion resistance in marine applications.

Steel

For refinery and petrochem applications or extremely high temperatures. Grades range from cast low alloy to various types of carbon steel.

Stainless Steel

For corrosion resistance over the entire pH range. Grades range from 316L, 317, 347 and 770, to duplex and martensitic.

Ductile Iron

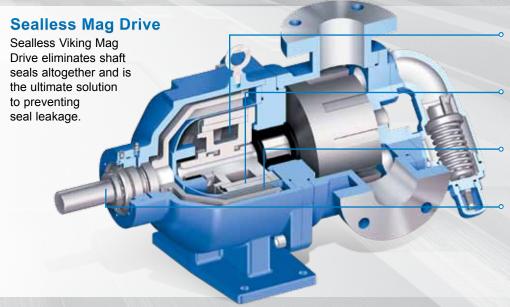
For lower cost alternative to steel for refinery and petrochem applications where thermal crack resistance is required. Grades range from pearlitic to ferritic.

Gray Cast Iron

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

SEAL SELECTION

Viking pumps are designed to accept many brands and types of seals.



- The liquid is contained inside a hermetically sealed canister in the bracket area.
- Inside the canister, an inner magnet assembly is mounted to the rotor shaft.
- Outside the canister, an outer magnet assembly is connected to the drive motor.
- As the motor turns the outer magnet, magnetic force passes through the canister and turns the inner magnet and rotor/shaft to create flow through the pump.

Cartridge Mechanical



- Simple mechanical seals mounted in the stuffing box.
- Enable easy seal face replacement.
- Viking offers single and double mechanical, as well as triple lip cartridge seals.

Component Mechanical



- Mechanical seals feature a smooth rotating face in contact with a smooth stationary face.
- Component seals are mounted behind the rotor or in the stuffing box.
- Double seals provide two sets of faces, with a barrier fluid between them to prevent air from contacting the liquid pumped.

Packing



- Combines lowest cost with highest temperature capabilities.
- Requires some ongoing leakage for cooling and lubrication.
- Is available in a variety of materials for variations of durability and temperature.

PRODUCT SELECTION GUIDE



SELECTION MADE EASY

With Viking's Online Resources



PUMP SELECTOR

- Create performance curves.
- Find the exact pump you need.
- · Help define your application.



SCAN TO USE NOW VIKINGPUMP.COM/PUMPSELECTOR

CHEMICAL GUIDE

- · Available as a mobile app.
- · Quick and easy chemical search.
- Hundreds of chemicals to choose.



SCAN TO USE NOW VIKINGPUMP.COM/MOBILE_APPS.ASP

PUMPING PRINCIPLE			<u> </u>		
SERIES	Universal Seal	Universal Mag Drive	Heavy Duty Alloy	Electrically Heated	
PERFORMANCE					
Maximum Capacity, GPM	1,600	500	110	685	
Maximum Capacity, LPM	6,060	2,000	417	3,000	
Maximum Capacity, M³/Hr	365	115	25	155	
Maximum Pressure, PSI	200	200	200	200	
Maximum Pressure, BAR	14	14	14	14	
Maximum Viscosity, SSU	2,000,000	250,000	2,000,000	2,000,000	
Maximum Viscosity, cSt	440,000	55,000	440,000	440,000	
Temperature °F *	-120 to +800	-120 to +500	-110 to +500	-60 to +450	
Temperature °C *	-85 to +430	-85 to +260	-80 to +260	-50 to +230	
EXTERNAL MATERIALS					
Cast Iron	√	√		√	
Ductile Iron	√				
Steel	√	√			
Stainless Steel	√	√	√		
Composite					
SEALING					
Packing	√		√	√	
Lip Seal	·		·	, i	
Component Mechanical Seal	√		√		
Cartridge Mechanical Seal	√				
Cartridge Triple Lip Seal	√				
Sealless Mag Drive	√	√			
OPTIONS					
Jacketed (head/bracket)	√		√		
Fully Jacketed (casing/head/bracket)	√				
PORTS					
Opposite (180°)	✓	√	√	√	
Right Angle (90°)	√	√	√	√	
Same Side (360°)					
Flanged	√	√	✓	√	
NPT / BSP	√	√	√	√	
MOUNTING					
Foot Mount	√	✓	√	√	
Motor Mount (Close-Coupled)					
Vertical In-Line					
APPLICATIONS					
High Temperature	✓	√	✓	√	
Abrasives	√	√		√	
Corrosives	√	√	√	√	
High Viscosity	√		√ ·	√	
Medium Viscosity	√	√	√ ·	√	
Low Viscosity	√	√	√	√	
PAGE	14	15	16	17	
	University of the last	THE PARTIES AND THE	and the second second	THE RESERVE THE PERSON	DECOURAGE OF

INTER	NAL GEAR									EXTERN	AL GEAR		VANE	LOBE
Motor Speed	Mag Drive Motor Speed	Metric Motor Speed	Motor Mount Gen. Purp.	General Purpose	Abrasive Liquid	Asphalt	LP Gas	Ammonia	External Gear	Fluid Power	Power Transfer Units	Composite Mag Drive	Rotary Vane	Industria Lobe
0F	120	200	20	450	160	1 600	0E	60	100	100	22.4	07	160	920
95	130	200	30	450	160	1,600	95	60	190	190	22.4	27	160	820
360	490	760	115	1,700	605	6,060	360	230	720	720	85	75	605	3,100
20	30	45	7	102	36	365	20	14	45	45	5	4.5	36	186
250	200	250	250	250	150	200	100	50	500	2,500	500	200	200	400
17	14	17	17	17	10	14	7	3.5	34	172	34	14	14	27
25,000	250,000	25,000	7,500	250,000	750,000	2,000,000	N/A	N/A	1,000,000	25,000	1,000,000	25,000	2,300	2,000,000
5,500	55,000	5,500	1,650	55,000	160,000	440,000	N/A	N/A	250,000	5,500	250,000	5,500	500	440,000
-40 to +350	-50 to +225	-40 to +300	-60 to +350	-60 to +300	-60 to +250	-60 to +450	Down to -40	Down to -40	-40 to +450	-40 to +450	-40 to +450	-40 to +200	-15 to +225	-40 to +40
-40 to +180	-45 to +110	-40 to +150	-50 to +180	-50 to +150	-50 to +120	-50 to +230	Down to -40	Down to -40	-40 to +230	-40 to +230	-40 to +230	-40 to +95	-30 to +110	-40 to +20
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18	19	20	21	22	23	24	25	26	30	31	32	33	36	40

^{*} Maximum temperature with special construction

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