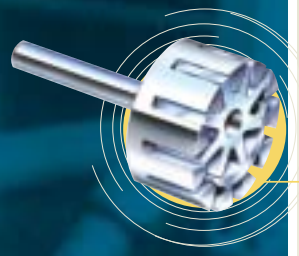
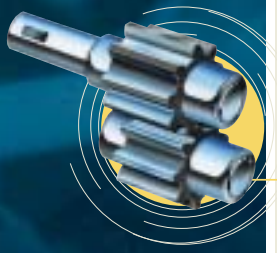
VIKING PUMP

Product Range



INTERNAL GEAR PUMPS



EXTERNAL GEAR PUMPS

GEROTOR PUMPS

ROTARY LOBE PUMPS

IDEX

IDEX CORPORATION

Viking Pump provides an unmatched combination of application expertise and positive-displacement pumping products to meet your pumping needs. We specialize in the design, manufacture, and application of standard and custom pumping products to some of the most challenging pumping applications in the world. We offer one of the industry's broadest selection of pumping technologies and product designs and are dedicated to helping our customers achieve the best performance of their systems.

Internal Gear

General-Purpose Flange-Mounted Pumps

Compact, general-purpose pumps for **medium-duty applications.** Mounts on NEMA or IEC motors. No speed reducer required.

- 8 sizes
- Cast iron construction
- Lip seals or mechanical seals

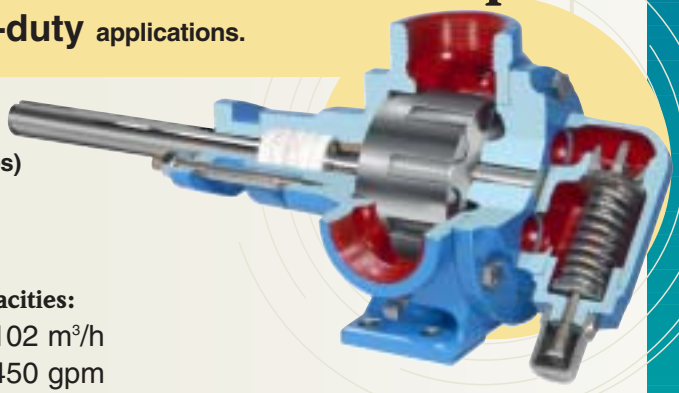
Capacities:
To 6.8 m³/h
To 30 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 7 bar To 100 psi	1 to 550 cSt 28 to 2,500 ssu	-30°C to +175°C -20°F to +350°F

General-Purpose Foot-Mounted Pumps

General-purpose pumps for **medium-duty** applications.

- 14 sizes
- Cast iron construction
- Packing or mechanical seals (C-L sizes)
- Jacketing option available



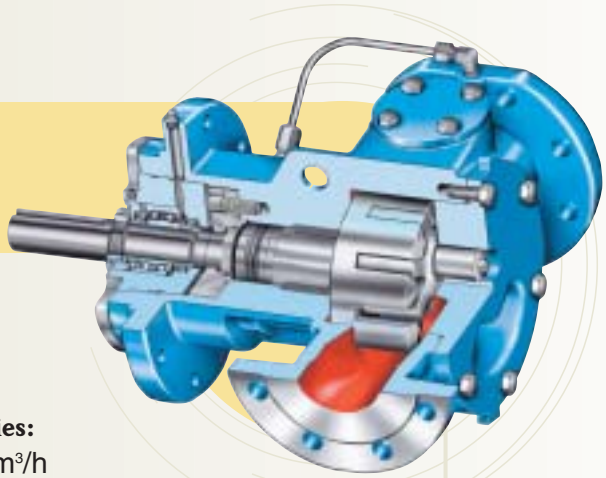
Capacities:
To 102 m³/h
To 450 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 17 bar To 250 psi	1 to 55,000 cSt 28 to 250,000 ssu	-50°C to +230°C -60°F to +450°F

Global Presence, Local Service– *Viking Pump provides local service through a highly trained network of more than 200 stocking distributors spanning the globe. They are backed by regional manufacturing facilities and sales offices throughout the world.*

Motor Speed Pumps

Capable of operating at 50 Hz motor speeds, this metric-designed pump may be foot-mounted or close-coupled to IEC frame motors for a compact footprint.

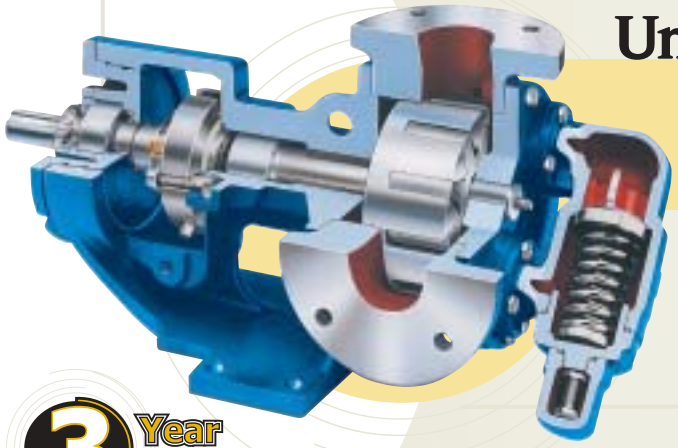


- 6 sizes
- Ductile iron construction
- Mechanical seals
- Large-diameter shaft, oversize bearings and bushings
- Pressure relief valve standard
- New idler gear and root-feed-groove design for quiet operation

Capacities:
To 45 m³/h
To 200 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 12 bar To 175 psi	1 to 22,000 cSt 28 to 100,000 ssu	-30°C to +150°C -20°F to +300°F

Universal Seal Pumps



Heavy-duty, foot-mounted pumps with enlarged bearing housing lets user replace seals or change seal technologies without removing pump.

- 15 sizes (G, H, and P sizes are not Universal Seal design)
- Stainless steel, steel external, ductile iron, or cast iron construction
- Packing, component seals, or cartridge seals
- Behind-the-rotor seal option
- Flanged or NPT ports
- Multiple port location options
- Thrust bearing adjustment sets end clearance
- Pressure relief valve standard
- Standard jacketed or fully jacketed options

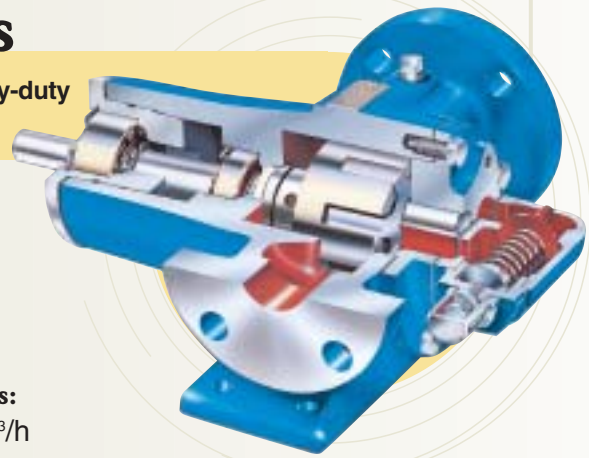
3 Year Warranty

Capacities:
To 345 m³/h
To 1,500 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 14 bar To 200 psi	1 to 440,000 cSt 28 to 2,000,000 ssu	-85°C to +420°C -120°F to +700°F

High-Speed Compact Pumps

Compact, motor-speed pumps for medium- to heavy-duty applications. No speed reducer required.

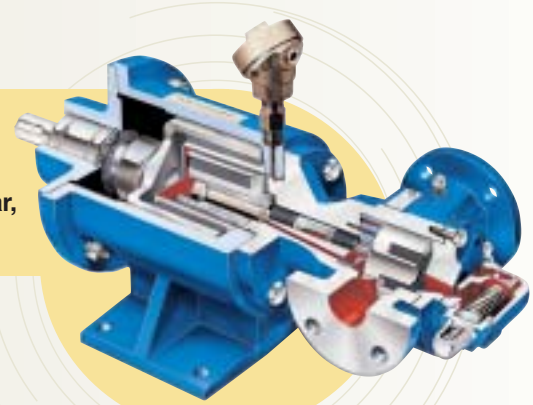


- 6 sizes
- Stainless steel, steel, or cast iron construction
- Mechanical seals standard
- Ball bearing construction
- Flanged or NPT ports
- Available in foot or motor mount
- Pressure relief valve standard

Capacities:
To 17 m³/h
To 75 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 17 bar To 250 psi	1 to 5,600 cSt 28 to 25,000 ssu	-30°C to +175°C -20°F to +350°F

Viking Mag Drive® Pumps



Magnetic drive replaces shaft seals to eliminate leakage and fugitive emissions and to minimize downtime where seal maintenance is problematic. Available in internal gear, external gear, and VI-CORR® composite external gear configurations.

- 12 standard internal gear sizes (flow rates to 114 m³/h–500 gpm)
- 9 Viking Mag Drive® Magnum™ sizes (flow rates to 45 m³/h - 200 gpm) with short-term run-dry capability, reversible direction of flow, and barrier fluid option
- 22 external gear sizes (flow rates to 7.3 m³/h–32 gpm)
- 8 VI-CORR® external gear sizes (flow rates to 7.3 m³/h–32 gpm)
- Stainless steel, steel, ductile iron, cast iron, or composite construction

Capacities:
To 114 m³/h
To 500 gpm

Differential Pressures:

Standard Internal Gear
To 8.5 bar
To 125 psi

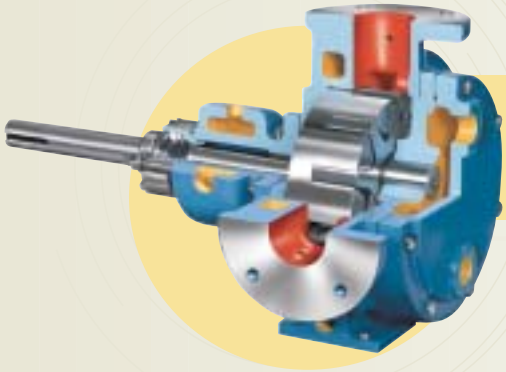
Viking Mag Drive® Magnum™ Internal Gear
To 14 bar
To 200 psi

External Gear
To 172 bar
To 2,500 psi

Viscosity Range:
1 to 55,000 cSt
28 to 250,000 ssu

Temperature Range:
-50°C to +260°C
-60°F to +500°F

Asphalt Pumps



Jacketed asphalt pumps are available in general-purpose or heavy-duty designs with packed or mechanically sealed models.

- 6 general purpose sizes in cast iron
- 12 heavy-duty sizes in cast or ductile iron or steel
- Packing or cartridge-type lip or mechanical seal options
- Jacketing for steam or hot oil

General-Purpose Asphalt Pumps

Capacities:
To 103 m³/h
To 450 gpm

Differential Pressures:
To 7 bar
To 100 psi

Viscosity Range:
1 to 55,000 cSt
28 to 250,000 ssu

Temperature Range:
-50°C to +230°C
-60°F to +450°F

Heavy-Duty Asphalt Pumps

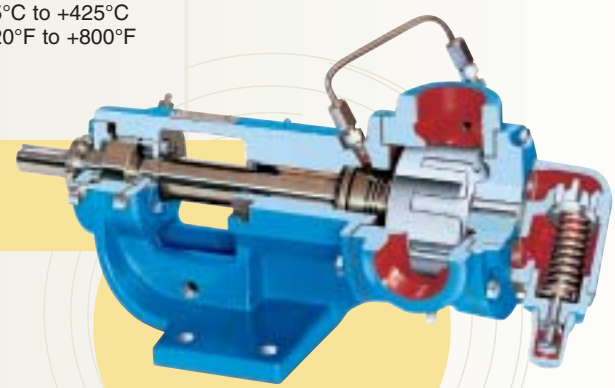
Capacities:
To 345 m³/h
To 1,500 gpm

Differential Pressures:
To 14 bar
To 200 psi

Viscosity Range:
1 to 440,000 cSt
28 to 2,000,000 ssu

Temperature Range:
-85°C to +425°C
-120°F to +800°F

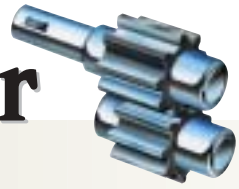
Special Application Pumps



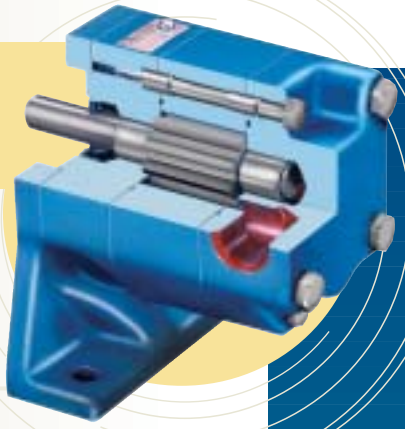
Viking designs and builds pumps with special features for unique applications and OEMs. Some examples:

- Abrasive liquid pumps with hardened construction and silicon carbide seals
- Ammonia pumps with double mechanical seal, pressurized seal chamber and oil reservoir, lubricated idler bushings, and adjustable return-to-tank bypass valves
- Fluid-transfer units with matched fluid-transfer pump and fluid-power motor
- UL listed LP gas fueling pumps with O-ring gaskets, lubricated idler bushings, and adjustable return-to-tank bypass valves

External Gear



Spur Gear Pumps



Spur gear design provides high-speed, high-pressure capabilities in low-capacity applications. Direct drive. No speed reducer required.

- 23 sizes
- Ductile iron or cast iron construction
- Lip seal, mechanical seal, or Mag Drive options
- C-flange, foot-bracket, or base-mounting options

Capacities:
To 18 m³/h
To 80 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 103 bar To 2,500 psi	1 to 16,500 cSt 28 to 75,000 ssu	-40°C to +230°C -40°F to +450°F

VI-CORR® Composite Pumps

Composite housing and gear construction provides superior corrosion resistance for metering or medium-duty transfer applications.

- 8 sizes
- PPS housing and gear construction
- Ultimet™, zirconium, or coated stainless steel shafts
- Lip seal, mechanical seal, or Mag Drive options
- NPT ports, two 180° port configurations
- Integral pressure relief valve

Capacities:
To 7.3 m³/h
To 32 gpm

Differential Pressures:	Viscosity Range:	Temperature Range:
To 14 bar To 200 psi	1 to 5,500 cSt 28 to 25,000 ssu	-40°C to +90°C -40°F to +200°F

Every Viking Pump *is custom assembled to satisfy each application's unique requirements, helping to ensure successful and trouble-free installations.*

Gerotor

Gerotor Pumps

Simple, economical, low-flow pumps for a variety of clean, lubricating-fluid applications.

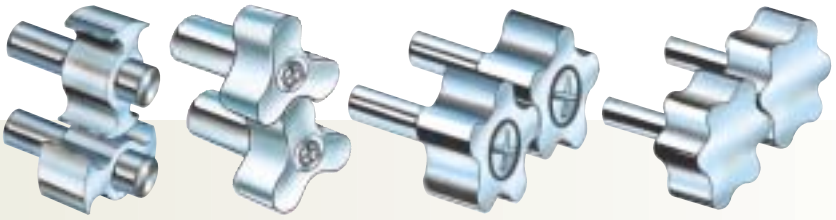
- 4 sizes
- Cast iron construction
- Lip seal standard, mechanical seal optional
- 4-bolt motor mount or foot-bracket mount
- Pressure relief valve optional

Capacities:
To 2.3 m³/h
To 10 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 7 bar To 100 psi	1 to 5,500 cSt 28 to 25,000 ssu	To +230°C To +450°F

Ultimet™-Trademark of Haynes International, Inc.

Rotary Lobe



CLASSIC® Tri-Lobe Rotor Pumps

Traditional tri-lobe design for high efficiency and minimal shear, in sanitary or industrial models.

- 11 sizes
- 316L Stainless Steel construction
- Packed, single- or double-mechanical seal
- Strip clean or CIP
- Clamped, ACME, NPT, or flanged ports
- 3-A compliant models

Capacities:
To 148 m³/h
To 650 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 12 bar To 175 psi	1 to 110,000 cSt 28 to 500,000 ssu	To 177°C To 350°F

DuraLobe® Bi-Wing Rotor Pumps

Fully swept pumping chamber and front-loading seals offer superior CIP service, in sanitary or industrial models.

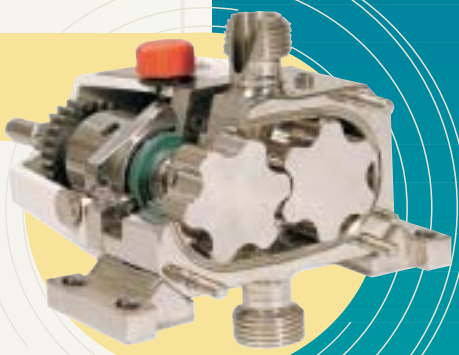
- 12 sizes
- 316L Stainless Steel construction
- Strip clean, CIP, or SIP
- Clamped, ACME, NPT, or flanged ports
- Horizontal or vertical mounting
- 3-A compliant models
- EHEDG certified for in-place cleanability

Capacities:
To 140 m³/h
To 600 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 14 bar To 200 psi	1 to 110,000 cSt 28 to 500,000 ssu	To 150°C To 300°F

Viking Pump *has been providing innovations in positive-displacement pumping since 1911.*

SQ™ Advanced Hygiene Pumps



Ultrahygienic pumps for aseptic, sterile, or clean-process environments.

- 8 sizes
- 316L Stainless Steel construction
- Front-loading seals for easy replacement and elimination of entrapment areas
- CIP or SIP
- Multilobe rotors retained from outside the product area, eliminating crevices and O-rings
- Bacterially tight joints isolate the product area
- 3-A compliant
- EHEDG certified for in-place cleanability as well as steam sterilizability and bacteria tightness

Capacities:
To 109 m³/h
To 480 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 15 bar To 220 psi	1 to 110,000 cSt 28 to 500,000 ssu	To 177°C To 350°F

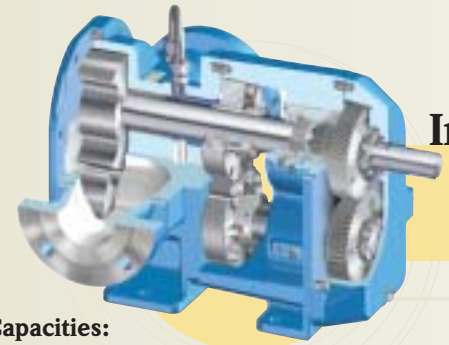
SteriLobe™ Pumps

Designed for ease of maintenance, these sanitary multilobe rotor pumps offer front-loading seals and no-shim timing gears.

- 3 sizes
- 316L Stainless Steel construction
- Front-loading seals for easy replacement and elimination of entrapment areas

Capacities:
To 136 m³/h
To 600 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 15 bar To 220 psi	1 to 440,000 cSt 28 to 2,000,000 ssu	To +150°C To +300°F



Industrial Lobe Pumps

Cartridge seal, component seal, or packing options ensure seal availability and integrity on industrial liquids.

- 3 sizes
- 316 Stainless Steel construction
- Optional shaft support on both sides of rotor for high-pressure operation
- Optional non-galling 770 alloy rotors with reduced clearances for thin liquids

Capacities:
To 184 m³/h
To 820 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 27 bar To 400 psi	1 to 440,000 cSt 28 to 2,000,000 ssu	To +205°C To +400°F

AccuLobe™ Pumps

From metering to pilot plants to ultrafiltration, this hygienic multilobe pump offers compact size and versatility. Five lobe rotors standard, non-galling tri-wing rotor option for thin liquids.

- 316L Stainless Steel construction
- 3-A compliant
- EHEDG certified for in-place cleanability

Capacities:
To 35 lpm
To 9.2 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 12 bar To 175 psi	1 to 100,000 cSt 28 to 450,000 ssu	To +150°C To +300°F

RTP Truck-Mounted Pumps

Lightweight tri-lobe pump for tanker truck loading and unloading; handles food, oils, or chemicals.

- 316L Stainless Steel construction
- 3-A compliant

Capacities:
To 77 m³/h
To 340 gpm

Differential Pressures:	Viscosity Range:	Maximum Temperature:
To 12 bar To 175 psi	1 to 1,000,000 cSt 28 to 4,500,000 ssu	To +150°C To +300°F

Pump Accessories

Viking provides a variety of pump accessories to complete a pumping system.

- Fully assembled packages including baseplates, motors, couplings, controls, and other accessories
- Power load monitor to protect motor, pump, and system from underload or overload conditions
- Helical gear reducers (2.24:1 to 33:1 speed reduction)
- Lid-Ease® basket strainers (flows to 340 m^3/h–1,500 gpm)
- Belt drive packages

VIKING PUMP

IDEX CORPORATION

An ISO-9001 and 14001 System-Certified Company

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