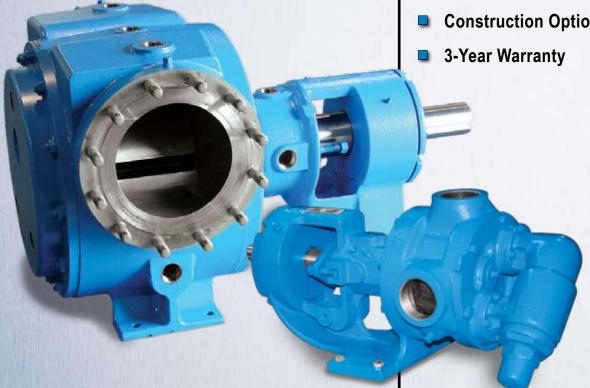


Industrial-Duty Pumps Offering Design Flexibility and Easy-Maintenance



- **Sealing Options**
- **Application Flexibility**
- **Construction Options**



Sizes in Series: 16

Capacity to 365 M³/Hr (1,600 GPM)

Pressure to 14 Bar (200 PSI)

Viscosity 0.1 to 440,000 cSt (28 to 2,000,000 SSU) **Temperature** -84°C to +427°C (-120°F to +800°F)



Viking[®] Universal Seal Advantages

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. Viking's flagship series of industrial-duty internal gear pumps are designed to accommodate virtually all seals. Proven two-moving parts internal gear design has an outer drive gear (rotor) which turns the inner, driven gear (idler) to provide superior flexibility to adapt to the most challenging applications.

The Viking Advantages

Custom Configurations

- Materials of construction options like cast iron, ductile iron, steel, stainless steel, Alloy C, Alloy 20 and many others.
- · Mounting options: foot mounting, direct mounting, reducer, belt drive, and variable speed
- · Pump design accepting of virtually all seals
- Numerous porting positions, configurations and sizes provide enhanced application flexibility (graphic representation from catalog section)

Application Flexibility

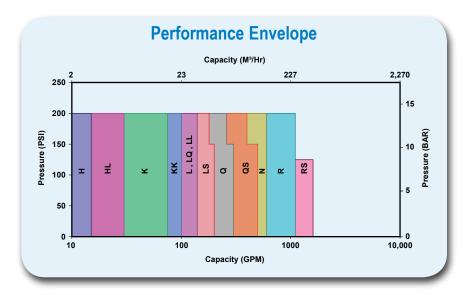
- Pumps accommodate virtually all sealing types and manufacturers
- · Industry leading selection of application specific material options to maximize pump life
- 16 sizes offer unmatched hydraulic coverage
- Design adaptability for an unequalled range of viscosities and temperatures

Easy Maintenance

- · Easy clearance adjustment to maintain high efficiency
- · Simple design with only two moving parts
- · Back pull-out seal design
- · No special tools required for service

Industrial Duty

- 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





Back Pullout Seal Design Readily Accepts:

- Packing
- · Stuffing box mechanical seal
- · Behind-the-rotor mechanical seal
- Component seals
- · Cartridge mechanical seal
- Cartridge lip seal

A variety of jacketing options to easily handle fluids that require either heating or cooling:

- Large jacketing areas allow rapid heating and cooling capabilities for faster startup.
- Jacketing options available all critical areas of pump include bracket, seal, casing, flanges, head and relief valve
- Standard jacketed pumps feature jacketed head and bracket making them ideal for applications like asphalt and chocolate
- Fully-jacketed pumps add jacketed casing and flange areas providing uniform temperature control for critical processes such as ABS, epoxy, and PET resins
- Jacketing options available all critical areas of pump include bracket, seal, casing, flanges, head and relief valve
- Allows a variety of heating or cooling media including hot oil, steam, and water
- · Electric heat option available
- Variety of jacket connection options including tapped and flange
- Multiple jacket connection locations allows easier piping
- Clearances optimized for maximum efficiency
- Proven uniform temperature control for improved product consistency

Applications



Chemicals:

- Plastics / Resins / Rubbers
- Petrochemicals
- Polyurethane Foam Products
- Paint and Applied Products
- Personal Care Products
- · Soaps and Cleaning Compounds
- Ethyl Alcohol Manufacturing
- Printing Inks
- Synthetic Dyes and Pigments
- · Plastic and Rubber Products
- Drugs / Pharmaceutical
- · Chemicals and Allied Products Wholesaling
- Explosives
- Other Basic Organic and Inorganic Chemicals

Food Processing:

- Grain and Oilseed
- Chocolate and Confectionery
- Animal Food
- Sugar
- Beverage
- Food Processing
- Dairy Products

Refined Petroleum & Coal:

- · Asphalt Paving Mixtures
- Oil and Gas Extraction
- · Lubricating Oil and Grease Manufacturing
- Roofing Products
- · Petroleum Refineries
- Petroleum, LPG and CNG Distribution

Machinery:

- 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

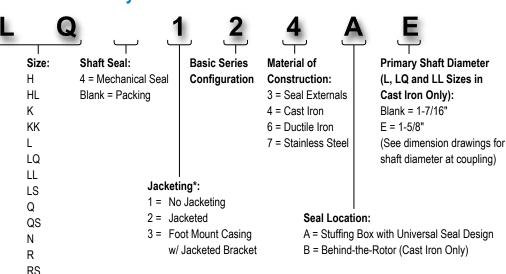
Transportation:

- · Railroad Equipment
- Automotive
- Military
- Truck
- Pipelines
- · Aircraft Equipment

Other:

- · Pulp / Paper / Allied Products
- Industrial Equipment and Supply Wholesalers
- Utilities
- Industrial Refrigeration Equipment
- Mining
- Heating Equipment
- · Printing and Publishing
- Metals
- Fabricated Metal Product
- Textile Manufacturing
- · Other Miscellaneous Manufacturing
- Wastewater Treatment
- Water Treatment / Conditioning
- Measuring and Controlling Devices
- Electronics / Electrical Equipment

Model Number Key



* NOTE that only the N through RS sizes are the foot mount with jacketed bracket (3). All other sizes are available with either no jacketing (1) or jacketed (2). The N size is standard with a jacketed bracket and non-jacketed head and non-jacketed relief valve, while the R and RS sizes are standard with a jacketed bracket, a jacketed head, and a non-jacketed relief valve.

Viking® Universal Seal Benefits

■ Solid, One-Piece Bracket

Solid, one-piece cast bracket and base minimizes shaft reflection and tolerance stackup. **Provides longer seal life to keep pumps running.**

■ Heavy Duty Bearings and Bushings

Proven, rugged pump design equipped with heavy-duty bearings and bushings. Provides enhanced shaft support extending pump and seal life.

■ 3-Year Warranty

Best in class warranty that covers workmanship and materials. **Warranty is 2** years longer than the competition for greater piece of mind.

■ Double Piloted Bearing Housing

Double piloted bearing housing permits easy axial positioning and adjustment of rotor and shaft. **Maintain maximum pump efficiency through simple reset of clearances.**

■ Proven Design

Pump has only two moving parts capable of up to 365 M³/Hr (1600 GPM) proven in thousands of tough applications around the world. **Simple design minimizes** service requirements while providing unmatched durability and reliability.

■ Seal Maintenance

Enlarged bearing housing and drive end access to seal allows quick, easy replacement without removing pump or rotor. **Minimizes downtime and simplifies access, shortening service time to maximize uptime.**

■ Rotatable Casing

All Universal Seal pumps are equipped with casings that can be positioned to meet common piping configurations, including opposite porting. **Shortens and simplifies installation with no special tools required for quick installation.**

■ Mounting Options

Multiple mounting options are available including foot mount, direct mount, reducer, belt drive, and variable speed drive. **Mounting configurations provide** easy solutions to match customer requirements for quick, easy installation.

■ Interchangeability

Universal Seal series pumps are completely dimensionally interchangeable with their equivalent size heavy duty series pumps. **Provides easy pump upgrade if process changes require it.**

■ Multiple Port Configurations

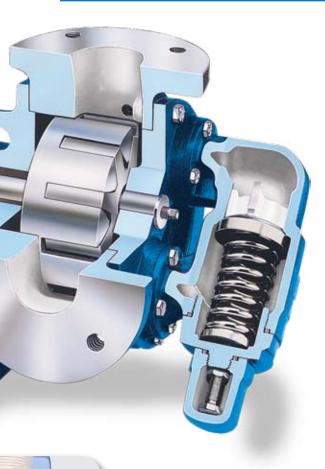
Multiple port sizes, types and ratings are available including threaded, raised, and flat-face flanged (125#, 150#, 250#, 300#). Porting configurations provide easy solutions to match customer requirements for quick, easy installation.





Fully-Jacketed Pump Solutions

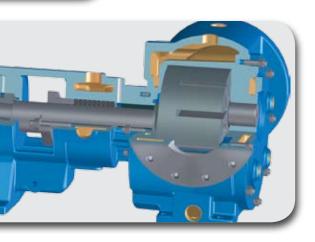
Applications requiring precisely maintained temperatures use steel, or stainless steel models featuring a jacketed casing that provides heat transfer surface area around the perimeters of the rotor, inlet/discharge throat area, and in many cases into the flanges.



Standard-Jacketed Pumps

They feature jacketing on the head and bracket only, and are typically used for melting ambient temperature solids.

(Jacketed areas are shown in yellow in the photos.)



■ Sealing Flexibility

Seal chamber accommodates virtually all sealing types and manufacturers. Seal selection permits easy seal change based on application requirements.

■ Jacketing Options Available

Jacketing options available for all critical areas of pump including bracket, seal, casing, flanges, head, and relief valve with a variety of jacket connection types and locations. A variety of media allows rapid heating and cooling capabilities, providing faster startup and uniform temperature control.

■ Materials of Construction

Wide array of pump construction materials available for internal and external components allow broad chemical and temperature compatibility on lubricating and non-lubricating liquids to match your application need. Custom configured pumps lengthen life of pump for lower total cost of ownership.

■ End Clearance Adjustment

Threaded housing mounted thrust bearing allows easy clearance adjustment to compensate for wear or handle different viscosities and temperatures. Single point adjustment maintains and maximizes pump efficiency, extending life.

■ Bi-directional Pump Design

Bi-directional pumping design eliminates cost of second pump, piping, and valving needed for loading or unloading or line stripping. Provides application flexibility and reduces system costs.

■ In-Line Serviceability

Back pull-out seal design with no special tools required, eliminates removal of pump from system for servicing. Reduces downtime and provides maximum productivity for a lower total cost of ownership.

■ Optimized Efficiency

Proven, optimized gear and pump geometry maximizes overall efficiency. Reduces product lost, maximizing process volume for a better bottom line providing a lower total cost of ownership.

■ Gentle Fluid Handling

Low-shear, non-pulsating, cushioned pumping for a wide range of applications. Protects final product integrity and maximizes process output for a lower total cost of ownership.

■ Higher Pressure Capabilities

Pressure capabilities to 14 Bar (200 PSI) on a variety of liquids. Permits single pump standardization for multiple liquids and applications.

■ Parts Commonality

Better design with fewer parts reduces maintenance and commonality of many parts between frame sizes reduces parts stocking needs. Parts commonality provides better parts availability and a lower cost of ownership.

Viking® Universal Seal Materials of Construction

Universal Seal Series Construction

Com	ponent	Cast Iron Non-Jacketed Series 124A/AE, 4124A/AE, 4124B, Jacketed Series 224A, 4224A, 224AE, 4224AE, 4224B, 324A, 4324A	Ductile Iron Non-Jacketed Series 126A , 4126A Jacketed Series 226A & 4226A	Steel Externals Non-Jacketed Series 123A, 4123A, 323A, 4323A Jacketed Series 223A, 4223A	Stainless Steel Non-Jacketed Series 127A, 4127A, 327A, 4327A Jacketed Series 227A, 4227A
Casing		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M
Head		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
Head Pla Jacketed		Cast Iron ASTM A48, Class 35B	Steel ASTM A216, Grade WCB	Steel ASTM A216, Grade WCB	Cast Iron ASTM A48, Class 35B
Bracket		Cast Iron ASTM A48, Class 35B	Ductile Iron ASTM A536, Grade 60-40-18	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M
Idler		②③ Cast Iron ASTM A48, Class 35B	②③ Cast Iron ASTM A48, Class 35B	②③ Cast Iron ASTM A48, Class 35B	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
Rotor	Standard	① Cast Iron ASTM A48, Class 35B	① Cast Iron ASTM A48, Class 35B	① Cast Iron ASTM A48, Class 35B	Stainless Steel ASTM A 743, Grade CF8M
Koloi	Steel Fitted	⑤ Steel ASTM A148, Grade 80-40	⑤ Steel ASTM A148, Grade 80-40	⑤ Steel ASTM A148, Grade 80-40	Case Hardened
Rotor Sha	aft	Steel ASTM A108, Grade 1045	Steel ASTM A108, Grade 1045	Steel ASTM A108, Grade 1045	Stainless Steel ASTM A276 Type XM-19 or 316 condition B
Idler Pin		Hardened Steel ASTM A108, Grade 10L45	Hardened Steel ASTM A108, Grade 10L45	Hardened Steel ASTM A108, Grade 10L45	Hard Coated Stainless Steel ASTM A276 Type 316 Colmonoy # 6 coated
Idler Bushing	Packed	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Carbon Graphite
	Mech. Seal	Carbon Graphite	Carbon Graphite	Carbon Graphite	
Bracket Packed Bushing		Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Bronze ASTM B584 (B505), Alloy C93700	Carbon Graphite
	Mech. Seal	④ Carbon Graphite	Carbon Graphite	Carbon Graphite	
Internal P Relief Val		Cast Iron ASTM A48, Class 35B	Steel ASTM A216, Grade WCB	Steel ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M

 $^{\ \}textcircled{1}$ KK, LS, QS and N sizes have ductile iron rotor, ASTM A536 Grade 60-40-18.

② Steel fitted Q and QS sizes have steel idler.

⁽a) H-LL 4124B (Behind-the-Rotor) pumps have bronze bracket bushing with Buna N seal, carbon graphite for Viton® or PTFE seals.

⁽⁵⁾ Material specification for HL steel rotor is AISI 8620, LS steel rotor is ASTM A148 80-50.

[®] RS relief valve not available. Contact factory for jacketing options.

Specifications

Specifications - Non-Jacketed Pumps

N	Model Number						① Maximum				
		Behind the	© Standard Port Size	Rating	nal Pump (750 SSU below)	Maximum Hydrostatic Pressure	Discharge Pressure for 100 SSU Liquid at rated speed	Recom Temp. for	ximum mended Standard °C (°F)	Steel Fitted Recommended Above	Approx. Shipping Weight with Valve
Packed	Stuffing Box Seal	Rotor Seal	mm (Inches)	M°/Hr (GPM)	(RPM)	BAR (PSIG)	BAR (PSIG)	Packed	Mech Seal	cSt (SSU)	KG (Pounds)
H124A	H4124A	H4124B	3 38							5,500	17 (38)
H126A	H4126A		(1 ½)	2.8 (15)	1450 (1750)	28 (400)	14 (200)	232 (450)	107 (225)	(25,000)	
H123A	H4123A	N/A	⑤ 38			20 (100)					20 (43)
H127A	H4127A	111 44045	(1 ½)	1.9 (10)	950 (1150)		7 (100)	191 (375)	191 (375)	N/A	22 (48)
HL124A	HL4124A	HL4124B	③ 38	F C (20)	4450 (4750)		14 (200)	000 (450)	107 (005)	1,650	18 (40)
HL126A HL123A	HL4126A HL4123A	NI/A	(1 ½)	5.6 (30)	1450 (1750)	28 (400)	, ,	232 (450)	107 (225)	(7,500)	
HL123A	HL4123A HL4127A	N/A	⑤ 38 (1 ½)	3.7 (20)	050 (1150)		7 (100)	101 (375)	101 (375)	N/A	20 (45)
K124A	K4124A	K4124B		3.7 (20)	950 (1150)		7 (100)	191 (3/3)	191 (375)	IN/A	23 (50)
K124A	K4126A	141240	③ 50 (2)	17 (75)	780		14 (200)	232 (450)	107 (225)	5,500	48 (105)
K123A	K4123A	N/A		17 (73)	700	28 (400)	14 (200)	202 (400)	107 (223)	(25,000)	54 (120)
K127A	K4127A	14// (⑤ 50 (2)	10 (45)	520		7 (100)	177 (350)	177 (350)	N/A	57 (125)
KK124A	KK4124A	KK4124B		.0 (.0)	020		. (100)	(000)	(000)		
KK126A	KK4126A		③ 50 (2)	23 (100)	780	00 (100)	14 (200)	232 (450)	107 (225)	5,500	50 (110)
KK123A	KK4123A	N/A	O 50 (0)	,		28 (400)	,	,	, ,	(25,000)	57 (125)
KK127A	KK4127A		(§) 50 (2)	15 (65)	520		7 (100)	177 (350)	177 (350)	N/A	59 (130)
L124A/AE	L4124A/AE	L4124B	© E0 (2)		640	20 (400)		222 (450)	107 (225)	5,500	70 (155)
L126A	L4126A	N/A	③ 50 (2)	31 (135)	640	28 (400)	14 (200)	232 (430)	107 (225)	(25,000)	70 (155)
LQ124A/AE	LQ4124A/AE	LQ4124B	④ 65 (2 ½)							5,500	80 (175)
LQ126A	LQ4126A			31 (135)	640	28 (400)	14 (200)	232 (450)	107 (225)	(25,000)	
LQ123A	LQ4123A	N/A	⑤ 65 (2 ½)			20 (400)					84 (185)
LQ127A	LQ4127A			20 (90)	420		7 (100)	177 (350)	177 (350)	N/A	93 (205)
LL124A/AE	LL4124A/AE	LL4124B	4 75 (3)					222 (450) 107 (225		550	84 (185)
LL126A	LL4126A			32 (140)	520	28 (400)	14 (200)	232 (450)	107 (225)	(2,500)	
LL123A	LL4123A	N/A	⑤ 75 (3)	05 (440)	400	- (/	7 (400)	177 (350) 177 (35			89 (195)
LL127A	LL4127A		(2) 7F (2)	25 (110)	420		7 (100)	177 (350)	177 (350)	N/A	109 (240)
LS124A	LS4124A		④ 75 (3)	4E (200)	640		10 (150)	222 (450)	107 (225)	16,500	86 (190)
LS126A LS123A	LS4126A LS4123A	N/A	© 75 (2)	45 (200)	640	28 (400)	10 (150)	232 (430)	107 (225)	(75,000)	91 (200)
LS123A LS127A	LS4123A LS4127A		⑤ 75 (3)	36 (160)	520		7 (100)	163 (335)	163 (325)	N/A	100 (220)
Q124A	Q4124A		4 100 (4)	30 (100)	320		7 (100)	103 (323)	103 (323)	IN/A	
Q124A	Q4126A		9 100 (4)	68 (300)	520		10 (150)	232 (450)	107 (225)	1,650	200 (440)
Q123A	Q4123A	N/A	⑤ 100 (4)	00 (000)	020	28 (400)	10 (100)	202 (100)	101 (220)	(7,500)	204 (450)
Q127A	Q4127A		© 100 (1)	45 (200)	350		7 (100)	121 (250)	121 (250)	N/A	209 (460)
QS124A	QS4124A		4 150 (6)	(=)			(/	(===)	(=23)		
QS126A	QS4126A	N1/A	. ,	114 (500)	520	00 (400)	10 (150)	232 (450)	107 (225)	16,500	245 (540)
QS123A	QS4123A	N/A	⑤ 150 (6)	, ,		28 (400)	, ,	` '	` ′	(75,000)	250 (550)
QS127A	QS4127A			73 (320)	350		7 (100)	121 (250)	121 (250)	N/A	254 560)
N324A	N4324A		④ 150 (6)				10 (150)	232 (450)	107 (225)	16,500	
N323A	N4323A	N/A	⑤ 150 (6)	136 (600)	350	28 (400)	` '			(75,000)	367 (810)
N327A	N4327A						9 (125)	79 (175)	79 (175)	N/A	
R324A	R4324A		④ 200 (8)	250			10 (150)	232 (450)	107 (225)	5,500	
R323A	R4323A	N/A	⑤ 200 (8)	(1,100)	280	28 (400)		` '	` ′	(25,500)	651 (1,435)
R327A	R4327A			(,)			9 (125)	79 (175)	79 (175)	N/A	
RS324A	RS4324A	N1/A	4 254 (10)	364	000	00 (400)	9 (125)	232 (450)	107 (225)	16,500	740 (4 500)
RS323A	RS4323A	N/A	⑤ 254 (10)	(1,600)	280	28 (400)				(75,000)	718 (1,580)
RS327A	RS4327A		. ,				7 (100)	79 (175)	79 (175)	N/A	

① For maximum recommended discharge pressures when handling other viscosities and/or other speeds, see performance curves. If suction pressure exceeds 50 PSIG, consult factory.

② Extra clearances are required above 225° F. Higher temperatures can be handled with special construction, consult factory.

③ Ports are tapped for standard (NPT) pipe.

⁴ Ports are suitable for use with 125# ANSI cast iron companion flanges or flanged fittings.

⑤ Ports are suitable for 150# ANSI steel or stainless steel companion flanges or flanged fittings.

See p.630.11 for other port size options.

Viking® Universal Seal Specifications

Specifications - Jacketed Pumps

M	lodel Number							① Max				
		Behind the	⑥ Port Size		l Pump R St and be		Max. Hydrostatic Pressure	Discharge Pressure for 22 cSt Liquid at rated speed	Recom	Max mended Standard p (°C)	Steel Fitted Construction Recommended Above	Approx. Shipping Weight with Valve
Packed	Stuffing Box Seal	Rotor Seal	mm	M³/hr	RF	PM	BAR	BAR	Packed	⑦ Mech Seal	cSt	KG
H224A	H4224A	H4224B	③ 38									
H226A	H4226A		(1½)	3.4 (15)	1,450	1,750	00 (400)	14 (200)	232 (450)	232 (450)	5,500 (25,000)	19 (42)
H223A	H4223A	N/A	⑤ 38	,			28 (400)	, ,	,	` '	, , ,	,
H227A	H4227A		(11/2)	2.3 (10)	950	1,150		7 (100)	191 (375)	191 (375)	N/A	21 (47)
HL224A	HL4224A	HL4124B	③ 38		80) 1.450 1.750							
HL226A	HL4226A		(11/2)	6.8 (30)	1,450	1,750	28 (400)	14 (200)	232 (450)	232 (450)	1,650 (7,500)	20 (45)
HL223A	HL4223A	N/A	⑤ 38				20 (400)					
HL227A	HL4227A		(11/2)	4.5 (20) 950 1,150			7 (100)	191 (375)	191 (375)	N/A	24 (52)	
K224A	K4224A	K4124B	③ 50 (2)									
K226A	K4226A		© 00 (2)	16 (75)	78	30	28 (400)	14 (200)	232 (450)	232 (450)	5,500 (25,000)	54 (120)
K223A	K4223A	N/A	⑤ 50 (2)				20 (400)					
K227A	K4227A		© 00 (2)	9 (40) 520			7 (100)	177 (350)	177 (350)	N/A	57 (125)	
KK224A	KK 4224A	KK4124B	③ 50 (2)									
KK226A	KK4226A		© 00 (2)	23 (100)	780		28 (400)	14 (200)	232 (450)	232 (450)	5,500 (25,000)	57 (125)
KK223A	KK4223A	N/A	⑤ 50 (2)	15 (65) 520		20 (400)						
KK227A	KK4227A		© 30 (Z)	15 (65)	520			7 (100)	177 (350)	177 (350)	N/A	59 (130)
L224A/AE	L4224A/AE	L4124B	③ 50 (2)	31 (135)	640		28 (400)	14 (200)	232 (450)	232 (450)	5,500 (25,000)	79 (175)
L226A	L4226A	N/A	30 (2)	31 (133)	0-	+0	20 (400)	14 (200)	232 (430)	232 (430)	3,300 (23,000)	19 (113)
	LQ4224A/AE	LQ4124B	4 65 (2½)									
LQ226A	LQ4226A		(272)	31 (135)	64	10	28 (400)	14 (200)	232 (450)	232 (450)	5,500 (25,000)	86 (190)
LQ223A	LQ4223A	N/A	(5) 65 (2½)				20 (400)					
LQ227A	LQ4227A			20 (90)	42	20		7 (100)	177 (350)	177 (350)	N/A	95 (210)
	LL4224A/AE	LL4124B	4 75 (3)									91 (200)
LL226A	LL4226A			32 (140)	52	20	28 (400)	14 (200)	232 (450)	232 (450)	550 (2,500)	
LL223A	LL4223A	N/A	⑤ 75 (3)				20 (400)					95 (210)
LL227A	LL4227A			25 (110)	42	20		7 (100)	177 (350)	177 (350)	N/A	116 (255)
LS224A	LS4224A		4 75 (3)									
LS226A	LS4226A	N/A		45 (200)	64	10	28 (400)	10 (150)	232 (450)	232 (450)	16,500 (75,000)	95 (210)
LS223A	LS4223A	14// (⑤ 75 (3)				20 (100)					
LS227A	LS4227A			36 (160)	52	20		7 (100)	163 (325)	163 (325)	N/A	104 (230)
Q224A	Q4224A		④ 100 (4)									218 (480)
Q226A	Q4226A	N/A		68 (300)	52	20	28 (400)	10 (150)	232 (450)	232 (450)	1,650 (7,500)	
Q223A	Q4223A		⑤ 100 (4)				(,					222 (490)
Q227A	Q4227A			45 (200)	35	50		7 (100)	121 (250)	121 (250)	N/A	227 (500)
QS224A	QS4224A		④ 150 (6)	444 /===				10 (1=0)	000 //07:	004 //05	10 =00 (== 000)	265 (580)
QS226A	QS4226A	N/A	0.450.(0)	114 (500)	52	20	28 (400)	10 (150)	232 (400)	204 (400)	16,500 (75,000)	
QS223A	QS4223A		⑤ 150 (6)	70 (000)	^-	-0	, ,	7 (400)	404 (050)	404 (050)	N1/A	268 (590)
QS227A	QS4227A		O 450 (0)	73 (320)	35	00		7 (100)	121 (250)	121 (250)	N/A	272 (600)
N324A	N4324A	N1/A	④ 150 (6)			00 (400)	10 (150)	132 (400)	150 (400)	16,500 (75,000)	207 (242)	
N323A	N4323A	N/A	⑤ 150 (6)	136 (600) 350		28 (400)		` '	` '		367 (810)	
N327A	N4327A							9 (125)	79 (175)	79 (175)	N/A	
R324A	R4324A	NI/A	④ 200 (8)	250	28	20	20 (400)	10 (150)	232 (300)	107 (300)	5,500 (25,500)	GE1 (1 12E)
R323A	R4323A	N/A	⑤ 200 (8)	(1,100)	20	50	28 (400)					651 (1,435)
R327A RS324A	R4327A RS4324A							9 (125)	79 (175)	79 (175)	N/A	
RS324A RS323A	RS4324A RS4323A	N/A	④ 254 (10)	364	28	20	28 (400)	9 (125)	232 (300)	107 (300)	16,500 (75,000)	718 (1,580)
RS327A		IN/A	⑤ 254 (10)	(1,600)	20	,,	20 (400)	7 (100)				7 10 (1,500)
NOUZIA	RS4327A							7 (100)	79 (175)	79 (175)	N/A	

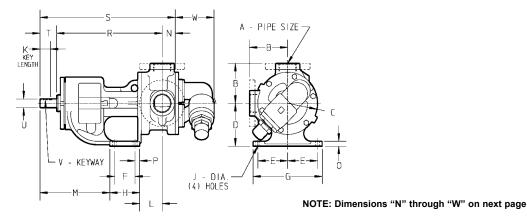
NOTE: The "N" size is standard with a jacketed bracket and non-jacketed head and nonjacketed relief valve, while the "R" size is standard with a jacketed bracket, a jacketed head, and a non-jacketed relief valve. "RS" size contact factory for jacketing options.

- ① For maximum recommended discharge pressures when handling other viscosities and/or other speeds, see performance curves. If suction pressure exceeds 50 PSIG, consult factory.
- ② Higher temperatures can be handled with special construction. Consult factory.
- 3 Ports are tapped for standard (NPT) pipe.

- ④ Ports are suitable for use with 125# ANSI cast iron flanges or flanged fittings.
- ⑤ Ports are suitable for 150# ANSI steel or stainless steel companion flanges or flanged fittings.
- Port sizes are inch standard, not metric design or size. See p.630.16 for other port size options.
- ⑦ Temperature based on PTFE seal as standard. Lower temperature limits may be required when using other seal elastomers.

Dimensions

Dimensions - H through Q Sizes - All Materials of Construction - Non-Jacketed



	Model Number														
Packed	Stuffing Box Seal	Behind the Rotor Seal	A (in)		В	С	D	E	F	G	Н	J	K	L	M
H124A HL124A	H4124A HL4124A	H4124B	1	in	3.00	4.75	3.50	2.75	2.25	6.75	3.50	0.47	0.99	3.38	5.19
H126A HL126A	H4126A HL4126A	HL4124B	1.5	mm	76.2	120.6	88.9	69.8	57.1	171.4	88.9	11.9	25.1	85.8	131.8
H123A HL123A	H4123A HL4123A	N/A	3	in	4.00	4.75	3.50	2.75	2.25	6.75	3.50	0.47	0.99	3.38	5.19
H127A HL127A	H4127A HL4127A		1.5	mm	101.6	120.6	88.9	69.8	57.1	171.4	88.9	11.9	25.1	85.8	131.8
K124A KK124A	K4124A KK4124A	K4124B	①	in	5.12	8.00	5.50	4.00	2.75	9.25	4.00	0.53	1.42	3.00	9.38
K126A KK126A	K4126A KK4126A	KK4124B	2	mm	130.0	203.2	139.7	101.6	69.8	234.9	101.6	13.5	36.1	76.2	238.3
K123A KK123A	K4123A KK4123A	N/A	3	in	5.25	8.00	5.50	4.00	2.75	9.25	4.00	0.53	1.42	3.00	9.38
K127A KK127A	K4127A KK4127A		2	mm	133.3	203.2	139.7	101.6	69.8	234.9	101.6	13.5	36.1	76.2	238.3
L124A/AE L126A	L4124A/AE L4126A	L4124B	① 2	in mm	6.50 165.1	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254.0	5.38 136.7	0.53 13.5	2 50.8	3.38 85.9	9.12 231.6
LQ124A/AE LQ126A	LQ4124A/AE LQ4126A	LQ4124B	② 2.5	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254.0	5.38 136.7	0.53 13.5	2 50.8	3.38 85.9	9.12 231.6
LQ123A LQ127A	LQ4123A LQ4127A	N/A	③ 2.5	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254.0	5.38 136.7	0.53 13.5	2 50.8	3.38 85.9	9.12 231.6
LL124A/AE LL126A	LL4124A/AE LL4126A	LL4124B	② 3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254.0	5.38 136.7	0.53 13.5	2 50.8	3.38 85.9	9.12 231.6
LL123A LL127A	LL4123A LL4127A	N/A	3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254.0	5.38 136.7	0.53 13.5	2 50.8	3.38 85.9	9.12 231.6
LS124A LS126A	LS4124A LS4126A	N/A	② 3	in	7.19	10.25	7.00	4.38	4.00	10.00	5.38	0.53	2.55	4.75	9.12
LS123A LS127A	LS4123A LS4127A	14/74	3	mm	182.6	260.3	177.8	111.3	101.6	254.0	136.7	13.5	64.8	120.6	231.6
Q124A Q126A	Q4124A Q4126A	N/A	② 4	in	8.25	14.00	8.75	4.12	4.00	10.00	6.00	0.69	3.58	6.62	11.12
Q123A Q127A	Q4123A Q4127A	IN/A	③ 4	mm	209.5	355.6	222.2	104.6	101.6	254.0	152.4	17.5	90.9	168.1	282.4

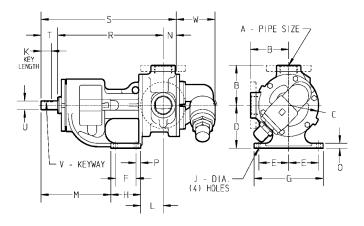
① Ports are tapped for standard (NPT) pipe.

② Ports are suitable for use with 125# ANSI cast iron (cast iron pumps) or 150# ANSI steel companion flanges or flanged fittings (ductile iron pumps).

③ Ports are suitable for 150# ANSI steel or stainless steel companion flanges or flanged fittings.

Viking[®] Universal Seal Dimensions

Dimensions - H through Q Sizes - All Materials of Construction - Non-Jacketed



N	Model Number											
Packed	Stuffing Box Seal	Behind the Rotor Seal		N	0	P	R	S	4 T	⑤ U	6 V	w
H124A HL124A	H4124A HL4124A	H4124B	in	1.19	0.56	0.62	10.44	13.25	1.62	0.75	.19 x .09	2.85
H126A HL126A	H4126A HL4126A	HL4124B	mm	30.2	14.2	15.7	265.2	336.5	41.1	19.0	4.83 x2.29	72.4
H123A HL123A	H4123A HL4123A	NI/A	in	1.19	0.56	0.62	10.44	13.25	1.62	0.75	.19 x .09	2.85
H127A HL127A	H4127A HL4127A	N/A	mm	30.2	14	15.7	265.2	336.5	41.1	19.0	4.83 x2.29	72.4
K124A KK124A	K4124A KK4124A	K4124B	in	1.75	0.62	0.62	14.12	18.12	2.25	1.12	.25 x .12	5.25
K126A KK126A	K4126A KK4126A	KK4124B	mm	44.4	15.7	15.7	358.6	460.2	57.1	28.4	6.35 x 3.05	133.3
K123A KK123A	K4123A KK4123A	N/A	in	1.75	0.62	0.62	14.12	18.12	2.25	1.12	.25 x .12	5.25
K127A KK127A	K4127A KK4127A	IN/A	mm	44.4	15.7	15.7	358.6	460.2	57.1	28.4	6.35 x 3.05	133.3
L124A/AE	L4124A/AE	L4124B	in	1.75	0.62	0.62	15.62	19.62	2.25	1.12	.25 X .12	5.43
L126A	L4126A		mm	44.4	15.7	15.7	396.7	498.3	57.1	28.7	6.35 X3.05	137.9
LQ124A/AE LQ126A	LQ4124A/AE LQ4126A	LQ4124B	in	1.75 44.4	0.62 15.7	0.62 15.7	15.62 396.7	19.62 498.3	2.25 57.1	1.12 28.7	.25 X .12 6.35 X3.05	5.43 137.9
LQ120A LQ123A	LQ4120A LQ4123A		mm in	1.75	0.62	0.62	15.62	19.62	2.25	1.12	.25 X .12	5.43
LQ123A LQ127A	LQ4123A LQ4127A	N/A	mm	44.4	15.7	15.7	396.7	498.3	57.1	28.7	6.35 X3.05	137.9
LL124A/AE	LL4124A/AE		in	2.25	0.62	0.62	15.62	20.12	2.25	1.12	.25 X .12	5.43
LL126A	LL4126A	LL4124B	mm	57.1	15.7	15.7	396.7	511.0	57.1	28.7	6.35 X3.05	137.9
LL123A	LL4123A	N/A	in	2.25	0.62	0.62	15.62	20.12	2.25	1.12	.25 X .12	5.43
LL127A	LL4127A		mm	57.1	15.7	15.7	396.7	511.0	57.1	28.7	6.35 X3.05	137.9
LS124A LS126A	LS4124A LS4126A	NI/A	in	2.44	0.62	0.62	15.75	21.69	3.50	1.44	.38 x .19	5.43
LS123A LS127A	LS4123A LS4127A	N/A	mm	62.0	15.7	15.7	400.0	550.9	88.9	36.6	9.65 x 4.83	137.9
Q124A Q126A	Q4124A Q4126A	N/A	in	3.00	0.75	1.00	19.25	26.75	4.50	1.94	.50 x .25	8.25
Q123A Q127A	Q4123A Q4127A	IN/A	mm	76.2	19.0	25.4	488.9	679.4	114.3	49.3	12.70 x 6.35	209.5

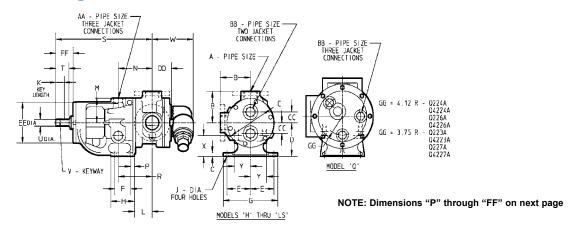
^{(4) &}quot;T" dimension shown for Cast Iron sizes L, LQ and LL is for "A" models. dimension for L, LQ and LL size 124AE, 4124AE and 4124B pumps is 2.35" (59.7 mm).

^{(36.6} mm). "U" dimension shown for Cast Iron sizes L, LQ and LL is for "A" models. "U" dimension for L, LQ and LL size 124AE, 4124AE and 4124B pumps is 1.44" (36.6 mm).

^{® &}quot;V" dimension shown for Cast Iron sizes L, LQ and LL is for "A" models. "V" dimension for L, LQ and LL size 124AE, 4124AE and 4124B pumps is 0.38 X 0.19" (9.65 X 4.83 mm).

Dimensions

Dimensions - H through Q Sizes - All Materials of Construction - Jacketed



	Model Number																
Packed	Stuffing Box Seal	Behind the Rotor Seal	A (in)		В	С	D	Е	F	G	н	J	④ K	L	M	N	0
H224A HL224A	H4224A HL4224A	H4224B	1	in	3.00	4.75	3.50	2.75	2.25	6.75	3.50	0.47	0.99	3.38	2.38	4.00	0.56
H226A HL226A	H4226A HL4226A	HL4224B	1.5	mm	76.2	120.6	88.9	69.8	57.1	171.4	88.9	11.9	25.1	85.8	60.5	101.6	14.2
H223A HL223A	H4223A HL4223A	N/A	③ 1.5	in	4.00	4.75	3.50	2.75	2.25	6.75	3.50	0.47	0.99	3.38	2.38	4.00	0.56
H227A HL227A	H4227A HL4227A	10/1	1.0	mm	101.6	120.6	88.9	69.8	57.1	171.4	88.9	11.9	25.1	85.8	60.5	101.6	14.2
K224A KK224A	K4224A KK4224A	K4224B	①	in	5.12	8.00	5.50	4.00	2.75	9.25	4.00	0.53	1.42	3.00	4.00	5.75	0.62
K226A KK226A	K4226A KK4226A	KK4224B	2	mm	130.0	203.2	139.7	101.6	69.8	234.9	101.6	13.5	36.1	76.2	101.6	146.0	15.7
K223A KK223A	K4223A KK4223A	N/A	③ 2	in	5.25	8.00	5.50	4.00	2.75	9.25	4.00	0.53	1.42	3.00	4.00	5.75	0.62
K227A KK227A	K4227A KK4227A	IV/A	2	mm	133.3	203.2	139.7	101.6	69.8	234.9	101.6	13.5	36.1	76.2	101.6	146.0	15.7
L224A/AE L226A	L4224A/AE L4226A	L4224B	① 2	in mm	6.50 165.1	10.25 260.3	7.00 177.8	4.38	4.00	10.00 254	5.38 136.7	0.53	2.00	3.38 85.9	5.12 130.0	6.56 166.6	0.62 15.7
LQ224A/AE LQ226A	LQ4224A/AE LQ4226A	LQ4224B	② 2.5	in mm	7.19 182.6	10.25	7.00 177.8	4.38	4.00 101.6	10.00	5.38	0.53 13.5	2.00	3.38 85.9	5.12 130.0	6.56 166.6	0.62 15.7
LQ223A LQ227A	LQ4223A LQ4227A	N/A	③ 2.5	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254	5.38 136.7	0.53 13.5	2.00	3.38 85.9	5.12 130.0	6.56 166.6	0.62 15.7
LL224A/AE LL226A	LL4224A/AE LL4226A	LL4224B	2 3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254	5.38 136.7	0.53 13.5	2.00 50.8	3.38 85.9	5.12 130.0	6.56 166.6	0.62 15.7
LL223A LL227A	LL4223A LL4227A	N/A	③ 3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254	5.38 136.7	0.53 13.5	2.00 50.8	3.38 85.9	5.12 130.0	6.56 166.6	0.62 15.7
LS224A LS226A	LS4224A LS4226A	N/A	② 3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254	5.38 136.7	0.53 13.5	2.55 64.8	4.75 120.6	5.12 130.0	7.40 188.0	0.62 15.7
LS223A LS227A	LS4223A LS4227A	N/A	③ 3	in mm	7.19 182.6	10.25 260.3	7.00 177.8	4.38 111.3	4.00 101.6	10.00 254	5.38 136.7	0.53 13.5	2.55 64.8	4.75 120.6	5.12 130.0	7.40 188.0	0.62 15.7
Q224A Q226A	Q4224A Q4226A	N/A	② 4	in	8.25	14.00	8.75	4.12	4.00	10.00	6.00	0.69	3.58	6.62	7.00	7.62	0.75
Q223A Q227A	Q4223A Q4227A	N/A	③ 4	mm	209.5	355.6	222.2	104.6	101.6	254	152.4	17.5	90.9	168.1	177.8	193.5	19.0

① Ports tapped for standard (NPT) pipe.

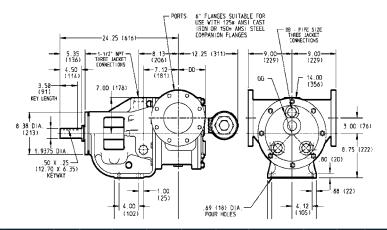
② Ports are suitable for use with 125# ANSI cast iron (cast iron pumps) or 150# ANSI steel companion flanges or flanged fittings (ductile iron pumps).

③ Ports are suitable for 150# ANSI steel or stainless steel companion flanges or flanged fittings.

^{(4) &}quot;K" dimension for Cast Iron L, LQ and LL sizes is for "A" models. "K" dimension for L, LQ and LL size 224AE, 2224AE and 2224B pumps is 1.44" (36.6mm).

Viking® Universal Seal Dimensions

Dimensions - H through Q Sizes - All Materials of Construction - Jacketed



	Model Number																	
Packed	Stuffing Box Seal	Behind the Rotor Seal		P	R	S	⑥ T	⑦ U	® ∨	W	X	Y	⑤ AA	⑤ ⑨ BB	СС	DD	EE	FF
H224A HL224A	H4224A HL4224A	H4224B	in	0.62	4.00	12.06	1.62	0.75	.19 X .09	4.04	1.80	1.83	0.75	0.50	0.94	2.41	5.75	2.30
H226A HL226A	H4226A HL4226A	HL4224B	mm	15.7	101.6	306.3	41.1	19.0	4.83 X2.29	102.6	45.7	46.5	19.0	12.7	23.9	61.2	146.0	58.4
H223A HL223A	H4223A HL4223A	N/A	in	0.62	4.00	12.06	1.62	0.75	.19 X .09	4.04	1.80	1.83	0.75	0.50	0.94	2.41	5.75	2.30
H227A HL227A	H4227A HL4227A	14/7	mm	15.7	101.6	306.3	41.1	19.0	4.83 X .29	102.6	45.7	46.5	19.0	12.7	23.9	61.2	146.0	58.4
K224A KK224A	K4224A KK4224A	K4224B	in	0.62	5.75	16.38	2.25	1.12	.25 X .12	7.00	3.38	2.75	1.25	1.25	1.75	3.25	6.75	2.92
K226A KK226A	K4226A KK4226A	KK4224B	mm	15.7	146.0	416.0	57.1	28.4	6.35 X .05	177.8	85.9	69.8	31.7	31.7	44.4	82.5	171.4	74.2
K223A KK223A	K4223A KK4223A	N/A	in	0.62	5.75	16.38	2.25	1.12	.25 X .12	7.00	3.38	2.75	1.25	1.25	1.75	3.25	6.75	2.92
K227A KK227A	K4227A KK4227A	1471	mm	15.7	146.0	416.0	57.1	28.4	6.35 X3.05	177.8	85.9	69.8	31.7	31.7	44.4	82.5	171.4	74.2
L224A/AE L226A	L4224A/AE L4226A	L4224B	in mm	0.62 15.7	6.56 166.6	17.88 454.2	2.25 57.1	1.12 28.4	.25 X .12 6.35 X3.05	7.18 182.4	4.62 117.3	3.25 82.5	1.25 31.7	1 25.4	3.00 76.2	3.81 96.8	6.75 171.4	2.93 74.4
LQ224A/AE LQ226A	LQ4224A/AE LQ4226A	LQ4224B	in mm	0.62 15.7	6.56 166.6	17.88 454.2	2.25 57.1	1.12 28.4	.25 X .12 6.35 X3.05	7.18 182.4	4.62 117.3	3.25 82.5	1.25 31.7	1 25.4	3.00 76.2	3.81 96.8	6.75 171.4	2.93 74.4
LQ223A LQ227A	LQ4223A LQ4227A	N/A	in mm	0.62 15.7	6.56 166.6	17.88 454.2	2.25 57.1	1.12 28.4	.25 X .12 6.35 X3.05	7.18 182.4	4.62 117.3	3.25 82.5	1.25 31.7	1 25.4	3.00 76.2	3.81 96.8	6.75 171.4	2.93 74.4
LL224A/AE LL226A	LL4224A/AE LL4226A	LL4224B	in mm	0.62 15.7	6.56 166.6	17.88 454.2	2.25 57.1	1.12 28.4	.25 X .12 6.35 X3.05	7.18 182.4	4.62 117.3	3.25 82.5	1.25 31.7	1 25.4	3.00 76.2	4.31 109.5	6.75 171.4	2.93 74.4
LL223A LL227A	LL4223A LL4227A	N/A	in mm	0.62 15.7	6.56 166.6	17.88 454.2	2.25 57.1	1.13 28.4	.25 X .12 6.35 X3.05	7.18 182.4	4.62 117.3	3.25 82.5	1.25	1 25.4	3.00 76.2	4.31 109.5	6.75 171.4	2.93 74.4
LS224A LS226A	LS4224A LS4226A		in	0.62	7.00	19.25	3.50	1.44	.38 X .19	7.72	4.40	3.30	1.25	1	3.00	4.50	7.00	4.03
LS223A LS227A	LS4223A LS4227A	N/A	mm	15.7	177.8	488.9	88.9	36.58	9.65 X .83	196.1	111.8	83.8	31.7	25.4	76.2	114.3	177.8	102.4
Q224A Q226A	Q4224A Q4226A	N/A	in.	1.00	6.62	23.75	4.50	1.94	.50 X .25	11.25	5.50	4.50	1.5	1.25		4.57	8.38	5.35
Q223A Q227A	Q4223A Q4227A	IN/A	mm	25.4	168.1	603.2	114.3	49.3	12.70 X .35	285.7	139.7	114.3	38.1	31.7		116.1	212.8	135.9

⁽⁵⁾ Ports for steam or hot oil jacketing are inch standard NPT threads. Metric (mm) equivalents are for information only, and do not indicate a metric thread size.

⁽a) "T" dimension show for Cast Iron sizes L, LQ and LL is for "A" models. Dimension for L, LQ and LL size 224AE, 4224AE and 4224B pumps is 2.35" (59.7 mm).

Turn dimension shown for Cast Iron sizes L, LQ and LL is for "A" models. "U" dimension for L, LQ and LL size 224AE, 4224AE and 4224B pumps is 1.44" (36.6 mm).

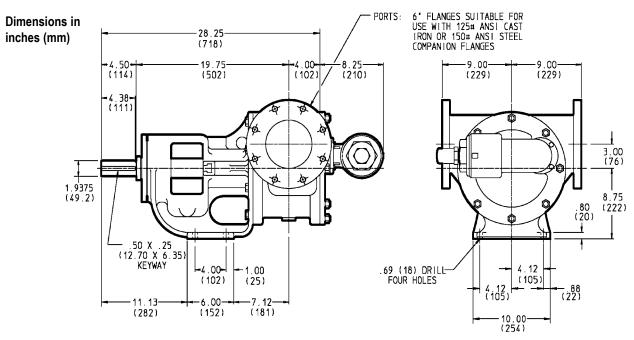
^{® &}quot;V" dimension shown for Cast Iron sizes L, LQ and LL is for "A" models. "V" dimension for L, LQ and LL size 224AE, 4224AE and 4224B pumps is 0.38 X 0.19" (9.65 X 4.83 mm).

 $^{\ \, \}textcircled{9} \,\,$ "BB" Dimension for Q223A and Q227A is 1"(25.4 mm).

Dimensions

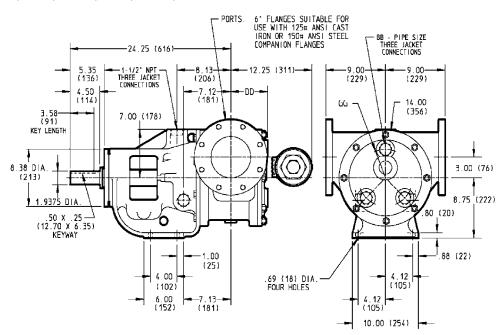
Dimensions - QS Size - All Materials of Construction - Non-Jacketed

Series 124A, 4124A, 126A, 4126A, 123A, 4123A, 127A & 4127A



Dimensions - QS Size - All Materials of Construction - Jacketed

Series 224A, 4224A, 226A, 4226A, 223A, 4223A, 227A & 4227A

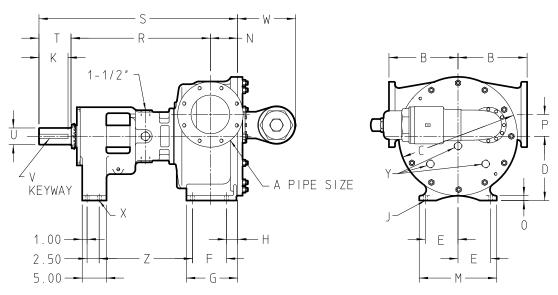


M	odel Number	BB*	DD	GG
Packed	Mechanical Seal	IN (mm)	IN (mm)	IN (mm)
QS224A	QS4224A	1 05 /21 75\	E E7 (1/1 /O)	4.12 (105)
QS226A	QS4226A	1.25 (31.75)	5.57 (141.48)	4.12 (105)
QS223A	QS4223A	1 (25.4)	6.06 (152.93)	2 75 (05 25)
QS227A	QS4227A	1 (25.4)	0.00 (132.93)	3.75 (95.25)

Viking[®] Universal Seal Dimensions

Dimensions - N, R and RS Sizes - All Materials of Construction - Jacketed

Series 324A, 4324A, 323A, 4323A, 327A, & 4327A



Model Number														
Packed	Stuffing BoxSeal	A (in)		В	С	D	Е	F	G	н	J	K	M	N
N324A	N4324A	1	in	9.75	17.25	9.50	5.00	6.25	8.69	1.62	0.69	4.50	12.00	4.50
N323A N327A	N4323A N4327A	6	mm	247.7	438.1	241.3	127.0	158.7	220.7	41.1	17.5	114.3	304.8	114.3
R324A	R4324A	1	in	14.25	24.50	13.25	6.75	7.00	10.56	2.31	0.78	6.00	16.00	5.62
R323A R327A	R4323A R4327A	8	mm	361.9	622.3	336.5	171.4	177.8	268.2	58.7	19.8	152.4	406.4	142.7
RS324A	RS4324A	1	in	14.25	24.5	13.25	6.75	7.00	13.12	4.81	0.88	6.00	16.46	8.12
RS323A RS327A	RS4323A RS4327A	10	mm	361.9	622.30	336.5	171.4	177.8	333.24	122.17	22.35	152.4	418.08	206.24

Model I	Number													
Packed	Stuffing BoxSeal	A (in)		0	Р	R	S	т	U	V	w	X	Y	Z
N324A	N4324A	0	in	1.00	3.00	26.00	36.50	6.00	2.44	.62 x .31	8.63	0.69	N/A	18.94
N323A N327A	N4323A N4327A	① 6	mm	25.4	76.2	660.4	927.1	152.4	62.0	15.74 x 7.87	219.2	17.5	N/A	481.0
R324A	R4324A	•	in	1.00	4.50	28.75	41.00	6.62	3.44	.88 x .44	12.00	0.69	1.25	19.25
R323A R327A	R4323A R4327A	① 8	mm	25.4	114.3	730.2	1041	168.1	87.4	22.35 x 11.18	304.8	17.5	31.7	488.9
RS324A	RS4324A	•	in	1.30	4.50	28.55	43.49	6.62	3.44	.88 x .44	12.00	0.88	1.25	19.25
RS323A RS327A	RS4323A RS4327A	① 10	mm	33.02	114.3	725.17	1104.64	168.1	87.4	22.35 x 11.18	304.8	22.35	31.7	488.9

NOTE: The "N" size is standard with a jacketed bracket and non-jacketed head and non-jacketed relief valve, while the "R" size is standard with a jacketed bracket, a jacketed head, and a non-jacketed relief valve. "RS" size contact factory for jacketing options.

① Ports are suitable for use with 125# ANSI cast iron (324A/4324A) or 150# ANSI steel or stainless steel companion flanges or flanged fittings (323A/4323A & 327A/4327A).

Typical Product Configuration by Size

Note: Ports shown are not necessarily the standard configuration.





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 Hastelloy®. 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. Viking products also meet the applicable standards or certification requirements for ATEX, CE, DIN, EHEDG, BSP, JIS, ANSI, UL, 3-A and others.

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 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 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.



For more information, contact your local authorized Viking Pump Distributor or contact Viking at:

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