VIKING® HEAVY DUTY PUMPS

SERIES 123 AND 4123 STEEL EXTERNAL CONSTRUCTION

bearing and double end cap arrangement.

FEATURES

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② Nominal capacities based on handling thin liquids at low pressures.

Metric conversions are based on US measurements and rounded to the nearest whole number.

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VIKING[®] HEAVY DUTY PUMPS

SERIES 123 AND 4123

UNMOUNTED PUMPS



This series of heavy-duty pumps is available either unmounted or mounted units as shown on following pages. Available with Multi-Ring stuffing box or Buna-N mechanical seal with carbon rotating and Ni-Resist stationary faces. The integral thrust bearing is designed to handle heavy-duty pumping jobs without problems of end play and distortion. For increased versatility of installation and complete selection of ports, the pump casing is designed so it can be rotated on the bracket to any 45° or 90° angle from that shown in the illustrations.

See revolvable casing feature on Page 151.3. Overpressure relief valve on head is standard for this series. To permit use of this type pump in a greater range of applications, these pumps are available with jacketed head plate. For heavy-duty pumps, steel with jacketed bracket and head, see Catalog Section 152.

Dimensions for Unmounted Pumps—See Page 151.9.

Performance Data for Unmounted Pumps—See Pages 151.17 through 151.38.

CONSTRUCTION - SERIES 123 AND ¹ 4123 ("H" THROUGH "M" SIZES)

ſ										12			
	Pump						Rotor Shaft And	Packed		Mechan	Internal Relief		
	Construction	Casing	Head	Bracket	Rotor	Idler	Idler Pin	Idler Bracket		ldler	Bracket	Valve	
	Standard Construction	Steel	Steel	Steel	⑦ Iron	1 Iron	Steel	Bronze	Bronze	Carbon Graphite	1 Bronze	Steel Externals	
	Steel Fitted	Steel	Steel	Steel	Steel	② Iron	Steel	Bronze	Bronze	Carbon Graphite	1 Bronze	Steel Externals	
	In Bronze Fitted	Steel	Steel	Steel			Steel	Bronze	Bronze	Carbon Graphite	@ Bronze	Steel Externals	

SPECIFICATIONS — SERIES 123 AND ⁽¹⁾ 4123 UNMOUNTED PUMPS

	ANSI Model Flange		150 lb. © ANSI Nominal Flange Pump Port Size Rating		Pumping Hydros		Maximum Hydrostatic Pressure	Steel Fitted Construction Recommended Above This Viscosity	③ Maximum Recommended Discharge Pressure Handling 100 SSU Liquid At Rated Speeds	Recom Temper	ximum mended ature for 'ump °F. (°C.)	Approximate Shipping Weight With Valve				
Packed	1) Mech. Seal	④ Inches	GPM (m³/hr)		GPM (m³/hr) R		RPM	50 PSI (3 BAR)	100 PSI (7 BAR)	PSIG (BAR)	SSU (cSt)	PSIG	Packed	Mech. Seal	Pounds (KG)	
H123	H4123	11/2	15	(3)	1800	11/2	2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	43	(19)		
HL123	HL4123	11/2	30	(7)	1800	2	3	400 (28)	7,500 (1,650)	200	300 (149)	225 (107)	45	(20)		
K123	K4123	2	60	(14)	640	3	71⁄2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	120	(54)		
KK123	KK4123	2	80	(18)	640	5	71/2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	125	(57)		
LQ123	LQ4123	21/2	135	(31)	640	71/2	15	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	185	(84)		
LL123	LL4123	3	140	(32)	520	71/2	15	400 (28)	2,500 (550)	200	300 (149)	225 (107)	195	(89)		
LS123	LS4123	3	200 (45) 640		640	15	20	400 (28)	75,000 (16,500)	150	300 (149)	225 (107)	200	(91)		
Q123	Q4123	4	300 (68) 520		520	20	30	400 (28)	7,500 (1,650)	150	300 (149)	225 (107)	440	(200)		
M123	M4123	4	420	(95)	420	20	40	400 (28)	25,000 (5,500)	125	300 (149)	225 (107)	600	(272)		

Buna-N elastomer used in mechanical seal of Series 4123 pumps.

2 "Q" size has steel idler when steel fitted construction is required.

③ For mechanical seal pumps on applications with viscosities above 15,000 SSU

(3,300 cSt), provide details for recommendation. ④ Ports are suitable for use with 150# ANSI steel companion flanges

or flanged fittings.

⑤ Standard seal can be used from -20°F. to +225°F. With special construction, temperatures to +800°F. can be handled with this series pumps.

6 Nominal rating based on handling thin liquids.

Metric conversions are based on US measurements and rounded to the nearest whole number.

⑦ "KK" and "LS" sizes have Ductile Iron rotor.

(1) For maximum recommended discharge pressures when handling other

viscosities and/or other speeds, see performance curves. Performance curves also show preferred constructions. If suction pressure exceeds 50 PSIG (3 BAR), consult factory.

(9) Check factory before using bronze rotors at viscosities normally requiring

steel-fitted construction. "LS" size not available in bronze-fitted construction.

10 "LS", "Q" and "M" 4123 models furnished with carbon graphite bracket bushings. 1 "H" and "HL" sizes have powdered metal idler.

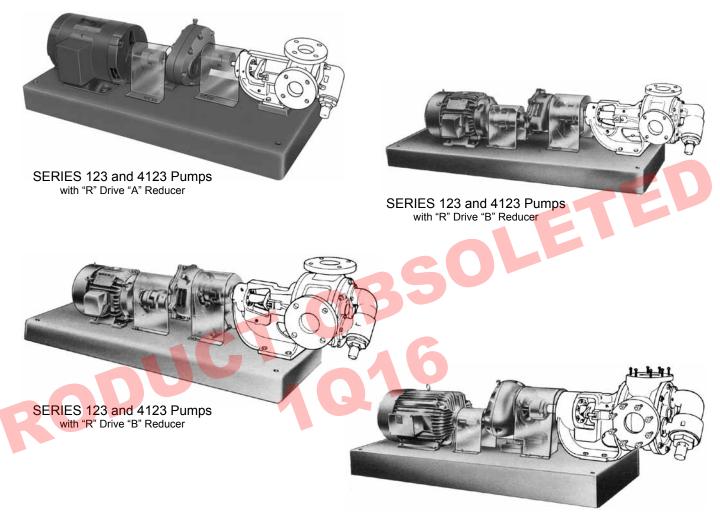
1 "LQ" and "LS" relief valve bodies are stainless steel.

VIKING® HEAVY DUTY PUMPS

SERIES 123 AND 4123

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VIKING HELICAL GEAR REDUCTION UNITS ("R" DRIVE)



SERIES 123 and 4123 Pumps with "R" Drive "C" Reducer

Viking's heavy-duty pump Series 123 and 4123 are available with helical gear reducers that have been specifically developed for efficient operation with Viking heavy-duty pumps. These rugged, compact, exceptionally quiet gear reducers come in three sizes: the "small" A size, "medium" B size and "large" C size.

The "A" size reducer, available with four gear ratios (2.24, 2.76, 3.43, and 4.17 to 1), is ideally suited for use with the "H" and "HL" size pumps. This reducer is bracket mounted and requires couplings on both the input and output shafts. With the "A" size reducer and 1200 or 1800 RPM motors, the "H" and "HL" size pumps can be used to cover a capacity range from 1.9 to 13 GPM.

The medium size "B" helical gear reducer is available with eight gear ratios from 1.87:1 to 7.65:1. This size normally is used with pump sizes "K" through "LS". Like the "A" reducer, the "B" reducer is bracket mounted and requires couplings on both the input and the output shafts. With the "B" reducer, "K" through "LS" pumps driven by 1200 or 1800 RPM motors can be used to cover a capacity range to 210 GPM.

The large "C" size reducer also is available with seven gear ratios from 2.21:1 to 7.95:1. It is normally used with the "KK" through "M" size pumps. Like the "A" and "B" reducers, the "C" reducer is bracket mounted and requires flexible couplings both for the input and output shafts. With the "C" reducer, "KK" through "M" size pumps, driven by 1200 or 1800 RPM motors, can cover a capacity range to 410 GPM.

Dimensions for "R" Drive Units— See Pages 151.10 and 151.11. Performance Data for "R" Drive Units—See Pages 151.17 through 151.38.

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VIKING® HEAVY DUTY PUMPS

SERIES 123 AND 4123

VIKING HELICAL GEAR REDUCER UNITS ("R" DRIVE)

SPECIFICATIONS — "R" DRIVE UNITS

Model Number		Nominal												Moto Requi Rated	red At	Maximum Hydro-	Steel Fitted Construction Recommended	③ Maximum Recommended Discharge Pressure When Handling	Temperatur of Fluids	imum re / Pressure in Jackets (°C.)		Approxima Shipping We	
		Port Size	Pump Rating		Pum 100 SSL		Static Pressure	Above This Viscosity	100 SSU Liquid At Nominal Rated Speeds	Steam (Sat.)	Heat Transfer Oil		(Less Power) Pounds (KG)										
Packed	① Mech. ② Seal	Inches	GPM	(m³/hr)	RPM	50 PSI (3 BAR)	100 PSI (7 BAR)	PSIG (BAR)	SSU (cSt)	PSIG	Packed	Mech. Seal	"A" Reducer	"B" Reducer	"C" Reducer								
H123R	H4123R	11/2	15	(3)	1800	11/2	2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	125 (57)										
HL123R	HL4123R	11/2	30	(7)	1800	2	3	400 (28)	7,500 (1,650)	200	300 (149)	225 (107)	130 (59)										
K123R	K4123R	2	60	(14)	640	3	71⁄2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)		327 (148)									
KK123R	KK4123R	2	80	(18)	640	5	71⁄2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)		334 (152)	550 (250)								
LQ123R	LQ4123R	21/2	135	(31)	640	71/2	15	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)		415 (188)	625 (284)								
LL123R	LL4123R	3	140	(32)	520	71/2	15	400 (28)	2,500 (550)	200	300 (149)	225 (107)		4 <mark>45 (</mark> 188)	655 (297)								
LS123R	LS4123R	3	200	(45)	640	15	20	400 (28)	75,000 (16,500)	150	300 (149)	225 (107)		490 (222)	700 (318)								
Q123R	Q4123R	4	300	(68)	520	20	30	400 (28)	7,500 (1,650)	150	300 (149)	225 (107)			1000 (499)								
M123R	M4123R	4	420	(95)	420	20	40	400 (28)	25,000 (5,500)	125	300 (149)	225 (107)			1140 (518)								

① Buna-N elastomer used in mechanical seal of Series 4123 pumps.

② For mechanical seal pumps on applications with viscosities above 15,000 SSU (3,300 cSt), provide details for recommendation.

③ For maximum recommended discharge pressures when handling other viscosities and/or at other speeds, see performance curves. If suction pressure exceeds 50 PSIG (3 BAR), consult factory.

Metric conversions are based on US measurements and rounded to the nearest whole number.

OUTSTANDING FEATURES

- Mounts NEMA standard motors, 1200 or 1800 RPM. (5 HP, 1800 RPM maximum with "A" reducer; 15 HP, 1800 RPM maximum with "B" reducer, and 40 HP, 1800 RPM maximum with "C" reducer.)
- 2. Complete reducers within a size may be interchanged on a Viking pump unit to obtain desired pump speeds and capacities. Thus the four gear ratios within the "A" size reducer may be interchanged within the size by selecting the proper pinion and gear of a common ratio. Similarly, all eight "B" reducers are interchangeble on each respective series of "B" reducer units. All seven "C" reducers are interchangeable on each respective series of "C" reducer units.
- 3. Quiet operation. High hardness helical gears run in a bath of oil.
- 4. Compact, narrow and low to fit in small space and low overhead.

② Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

Sominal rating based on handling thin liquids.

- Standard seal can be used from -20°F. to +225°F. With special construction, temperatures to +800°F. can be handled with this series pumps.
- 5. Pump, motor or reducer can be removed without disturbing the other two components.
- 6. Units with "A", "B" and "C" reducers have standard flexible coupling with guard between power and reducer as well as between reducer and pump.
- 7. Oil and weather tight for outdoor service.
- 8. Ball bearings throughout.
- 9. Reducers easily adjustable to different motor center heights.
- 10. Self-supported. Not hung on pump or motor shafts. No radial load on pump or motor shafts.
- "A" reducers have ³⁄₄" dia., ³⁄₁₆" key input and output shafts; "B" reducers have 1" dia., ¹⁄₄" key input shaft and 1¹⁄₈" dia., ¹⁄₄" key output shaft; "C" reducers have 1³⁄₈" dia., ⁵∕₁₆" key input and output shafts.

VIKING® HEAVY DUTY PUMPS **SERIES 123 AND 4123**

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VIKING HELICAL GEAR REDUCTION UNITS ("R" DRIVE)

HELICAL REDUCER HORSEPOWER TABLE 2 - "A" SIZE

HIGH SPEED SHAFT		GEAR REDUCER	RATIOS "A" SIZE								
INPUT RPM ①	2.24:1	2.76:1	3.43:1	4.17:1							
4750	780	640	520	420	LOW SPEED SHAFT RPM						
1750	6.1	4.9	3.8	3.1	MAXIMUM REDUCER HP						
4450	640	520	420	350	LOW SPEED SHAFT RPM						
1450	5.2	4.2	3.2	2.7	MAXIMUM REDUCER HP						
4450	520	420	350	280	LOW SPEED SHAFT RPM						
1150	4.3	3.4	2.6	2.2	MAXIMUM REDUCER HP						
950	420	350	280	230	LOW SPEED SHAFT RPM						
950	3.6	2.9	2.2	1.8	MAXIMUM REDUCER HP						
 S.6 2.9 2.2 1.8 MAXIMUM REDUCER HP For input speeds higher than 1750 RPM, consult the factory. Horsepower ratings based on 8-10 hours operation per day, electric motor drive. See Catalog Section 610 for specific reducer sizing information. ELICAL REDUCER HORSEPOWER TABLE © — "B" SIZE 											
HIGH SPEED SHAFT		GEAR REDUCER F	RATIOS "B" SIZE								

HELICAL REDUCER HORSEPOWER TABLE 2 - "B" SIZE

HIGH SPEED SHAFT									
INPUT RPM	① 1.87:1	1 2.24:1	2.76:1	3.4 <mark>0:1</mark>	4.19:1	5.06:1	6.27:1	7.65:1	
1750	950	780	640	520	420	350	280	230	LOW SPEED SHAFT RPM
1750	19.0	17.0	15.0	13.0	11.0	9.5	7.6	6.4	MAXIMUM REDUCER HP
1450	780	640	520	420	350	280	230	190	LOW SPEED SHAFT RPM
1450	17.3	15.5	13.4	11.6	9.9	8.5	6.4	5.4	MAXIMUM REDUCER HP
1150	640	520	420	350	280	230	190	155	LOW SPEED SHAFT RPM
1150	16.5	14.0	11.6	10.1	8.5	7.3	5.3	4.4	MAXIMUM REDUCER HP
950	520	420	350	280	230	190	155	125	LOW SPEED SHAFT RPM
950	15.5	12.8	10.1	9.0	7.6	6.0	4.3	3.7	MAXIMUM REDUCER HP

① For input speeds higher than 1750 RPM, consult the factory.

2 Horsepower ratings based on 8-10 hours operation per day, electric motor

drive. See Catalog Section 610 for specific reducer sizing information.

HIGH SPEED **GEAR REDUCER RATIOS "C" SIZE** SHAFT INPUT RPM 1 2.21:1 2.80:1 3.31:1 4.21:1 6.24:1 7.95:1 5.08:1 780 640 520 420 350 280 220 LOW SPEED SHAFT RPM 1750 49.8 43.5 39.0 32.4 26.6 19.7 18.0 MAXIMUM REDUCER HP 640 520 420 350 230 180 LOW SPEED SHAFT RPM 280 1450 45.3 36.6 32.8 27 2 22.3 16.7 15.2 MAXIMUM REDUCER HP 520 420 350 280 230 190 145 LOW SPEED SHAFT RPM 1150 40.1 30.0 26.8 22.2 18.2 13.8 12.6 MAXIMUM REDUCER HP 420 LOW SPEED SHAFT RPM 350 280 230 190 155 120 950 29.1 24.7 22.1 18.3 15.0 11.4 10.4 MAXIMUM REDUCER HP

HELICAL REDUCER HORSEPOWER TABLE @ - "C" SIZE

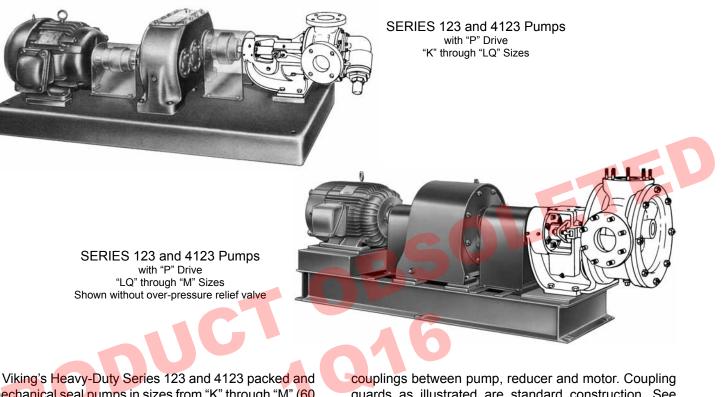
① For input speeds higher than 1750 RPM, consult the factory.

2 Horsepower ratings based on 8-10 hours operation per day, electric motor

drive. See Catalog Section 610 for specific reducer sizing information.

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GEAR REDUCER UNITS ("P" DRIVE)



Viking's Heavy-Duty Series 123 and 4123 packed and mechanical seal pumps in sizes from "K" through "M" (60 to 420 GPM) are available in the "P" drive arrangement. These Heavy-Duty units are mounted on formed steel bases ("K" through "LS" sizes) and structural or formed steel bases ("Q" and "M" sizes) as illustrated above. All mount separate heavy-duty reducers with flexible couplings between pump, reducer and motor. Coupling guards as illustrated are standard construction. See below for specifications and motor horsepower range. *Dimensions for "P" Drive Units — Consult Factory.*

Performance Data for "P" Drive Units — See Pages 151.23 through 151.36.

SPECIFICATIONS — "P" DRIVE UNITS

	odel mber	150 lb. ANSI Flange Port Size		5 Nomina Pump Rating		At Rate Purr	Required d Speed ping U Liquid	Maximum Hydrostatic Pressure	Steel Fitted Construction Recommended Above This Viscosity Construction Above This Viscosity Steel Fitted Discharge Pressure W Handling 100 SSU Lic At Nominal Rated Spectrum		Recommended			Approximate Shipping Weight With Valve	
Packed	12 Mech. Seal	④ Inches	GPM	(m³/hr)	RPM	50 PSI (3 BAR)	100 PSI (7 BAR)	PSIG (BAR)	SSU (cSt)	PSIG	Pa	cked	Mech. Seal	Pounds (KG)	
K123P	K4123P	2	60	(14)	640	3	71/2	400 (28)	7,500 (1,650)	200	300	(149)	225 (107)	363	(165)
KK123P	KK4123P	2	80	(18)	640	5	71/2	400 (28)	25,000 (5,500)	200	300	(149)	225 (107)	368	(167)
LQ123P	LQ4123P	21/2	135	(31)	640	71/2	15	400 (28)	25,000 (5,500)	200	300	(149)	225 (107)	443	(201)
LL123P	LL4123P	3	140	(32)	520	71/2	15	400 (28)	2,500 (550)	200	300	(149)	225 (107)	473	(215)
LS123P	LS4123P	3	200	(45)	640	15	20	400 (28)	75,000 (16,500)	150	300	(149)	225 (107)	483	(219)
Q123P	Q4123P	4	300 (68) 520		20	30	400 (28)	7,500 (1,650)	150	300	(149)	225 (107)	830	(377)	
M123P	M4123P	4	420	(96)	420	20	40	400 (28)	25,000 (5,500)	125	300	(149)	225 (107)	966	(439)

① Buna-N elastic used in mechanical seal of Series 4123 pumps.

② For mechanical seal pumps on applications with viscosities above 15,000 SSU (3,300 cSt), provide details for recommendation.

③ For maximum recommended discharge pressures when handling other viscosities and/or at other speeds, see performance curves. If suction pressure exceeds 50 PSIG (3 BAR), consult factory. $\textcircled{\sc 0}$ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

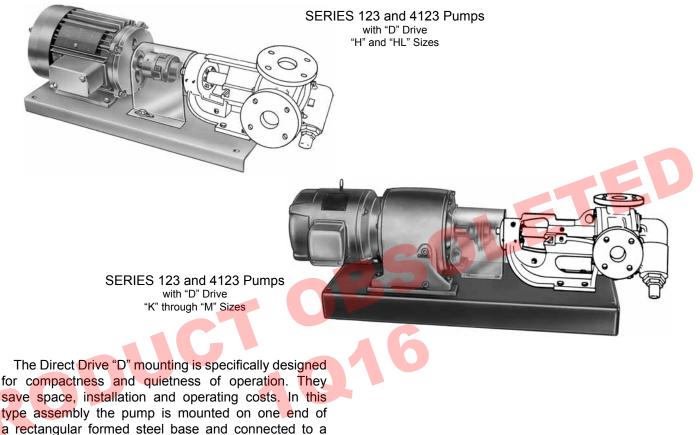
⑤ Nominal rating based on handling thin liquids.

⑤ Standard seal can be used from -20°F. to +225°F. With special construction, temperatures to +800°F. can be handled with this series pumps.

Metric conversions are based on US measurements and rounded to the nearest whole number

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DIRECT DRIVE UNITS ("D" DRIVE)



save space, installation and operating costs. In this type assembly the pump is mounted on one end of a rectangular formed steel base and connected to a gearhead motor by means of a flexible coupling with guard. "H" and "HL" sizes can be directly connected to 1200 or 1800 RPM motors, as well as gearhead motors.

Dimensions for "D" Drive Units-See Page 151.12. Performance Data for "D" Drive Units—See Pages 151.23 through 151.36.

	odel mber	150 lb. ANSI Flange Port Size	No Pi	ົງ ninal ເmp ting	At Rate Pum	Required d Speed ping J Liquid	Maximum Hydrostatic Pressure	Steel Fitted Construction Recommended Above This Viscosity	③ Maximum Recommended Discharge Pressure When Handling 100 SSU Liquid At Nominal Rated Speeds	Recon Tempe	aximum nmended rature for Pump °F. (°C.)	Approximate Shipping Weigh With Valve	
Packed	12 Mech. Seal	④ Inches	GPM (m³/ł	r) RPM	50 PSI (3 BAR)	100 PSI (7 BAR)	PSIG (BAR)	SSU (cSt)	SSU (cSt) PSIG Packed Seal				ds (KG)
H123D	H4123D	11/2	15 (3	1800	11/2	2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	105	(19)
HL123D	HL4123D	11/2	30 (7	1800	2	3	400 (28)	7,500 (1,650)	200	300 (149)	225 (107)	110	(20)
K123D	K4123D	2	60 (14) 640	3	71/2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	230	(54)
KK123D	KK4123D	2	80 (18) 640	5	71/2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	260	(57)
LQ123D	LQ4123D	21/2	135 (31) 640	71/2	15	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	355	(84)
LL123D	LL4123D	3	140 (32) 520	71/2	15	400 (28)	2,500 (550)	200	300 (149)	225 (107)	410	(89)
LS123D	LS4123D	3	200 (45) 640	15	20	400 (28)	75,000 (16,500)	150	300 (149)	225 (107)	415	(91)
Q123D	Q4123D	4	300 (68) 520	20	30	400 (28)	7,500 (1,650)	150	300 (149)	225 (107)	820	(200)
M123D	M4123D	4	420 (95) 420	20	40	400 (28)	25,000 (5,500)	125	300 (149)	225 (107)	980	(272)

SPECIFICATIONS — "D" DRIVE UNITS

1 Buna-N elastomer used in mechanical seal of Series 4123 pumps.

2 For mechanical seal pumps on applications with viscosities above 15,000 SSU (3,300 cSt), provide details for recommendation.

③ For maximum recommended discharge pressures when handling other viscosities and/or at other speeds, see performance curves. If suction pressure exceeds 50 PSIG (3 BAR), consult factory.

④ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

(5) Nominal rating based on handling thin liquids.

6 Standard seal can be used from -20°F. to +225°F. With special construction, temperatures to +800°F. can be handled with this series pumps.

Metric conversions are based on US measurements and rounded to the nearest whole number

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V-BELT DRIVE UNITS ("V" DRIVE)

SERIES 123 and 4123 Pumps with "V" Drive "H" through "M" Size Pumps

Viking's V-belt driven line of Heavy-Duty Series 123 and 4123 pumps are all mounted on formed welded steel bases. Pumps mount on pads to accept totally enclosed V-belt drive. All units in this series feature standard pump shaft extension with totally guarded sheave mounted on end of heavy-duty pump shaft.

Dimensions for "V" Drive Units—See Page 151.13. Performance Data for "V" Drive Units—See Pages 151.17 through 151.36.

Model Number		150 lb. ANSI Flange Port Size		⑤ Nomir Pum Ratin	p	At Rate Pum	Required d Speed ping J Liquid	Maximum Hydrostatic Pressure	Steel Fitted Construction Recommended Above This Viscosity	③ Maximum Recommended Discharge Pressure When Handling 100 SSU Liquid At Nominal Rated Speeds	Recom Temper	ximum mended ature for Pump °F. (°C.)	Approximate Shipping Weight With Valve	
Packed	12 Mech. Seal	④ Inches	GPM	(m³/hr)	RPM	50 PSI (3 BAR)	100 PSI (7 BAR)	PSIG (BAR)	SSU (cSt)	PSIG	Packed	Mech. Seal	Pounds (KG)	
H123D	H4123D	11/2	15	(3)	1800	11/2	2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	109 (49)	
HL123D	HL4123D	11⁄2	30	(7)	1800	2	3	400 (28)	7,500 (1,650)	200	300 (149)	225 (107)	114 (52)	
K123D	K4123D	2	60	(14)	640	3	71⁄2	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	255 (116)	
KK123D	KK4123D	2	80	(18)	640	5	7½	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	265 (120)	
LQ123D	LQ4123D	21/2	135	(31)	640	71⁄2	15	400 (28)	25,000 (5,500)	200	300 (149)	225 (107)	340 (154)	
LL123D	LL4123D	3	140	(32)	520	71⁄2	15	400 (28)	2,500 (550)	200	300 (149)	225 (107)	365 (166)	
LS123D	LS4123D	3	200	(45)	640	15	20	400 (28)	75,000 (16,500)	150	300 (149)	225 (107)	375 (170)	
Q123D	Q4123D	4	300	(68)	520	20	30	400 (28)	7,500 (1,650)	150	300 (149)	225 (107)	986 (439)	
M123D	M4123D	4	420	(95)	420	20	40	400 (28)	25,000 (5,500)	125	300 (149)	225 (107)	1138 (517)	

SPECIFICATIONS — "V" DRIVE UNITS

① Buna-N elastomer used in mechanical seal of Series 4123 pumps.

② For mechanical seal pumps on applications with viscosities above 15,000 SSU (3,300 cSt), provide details for recommendation.

③ For maximum recommended discharge pressures when handling other viscosities and/or at other speeds, see performance curves. If suction pressure exceeds 50 PSIG (3 BAR), consult factory. ④ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

(5) Nominal rating based on handling thin liquids.

⑤ Standard seal can be used from -20°F. to +225°F. With special construction, temperatures to +800°F. can be handled with this series pumps.

Metric conversions are based on US measurements and rounded to the nearest whole number.

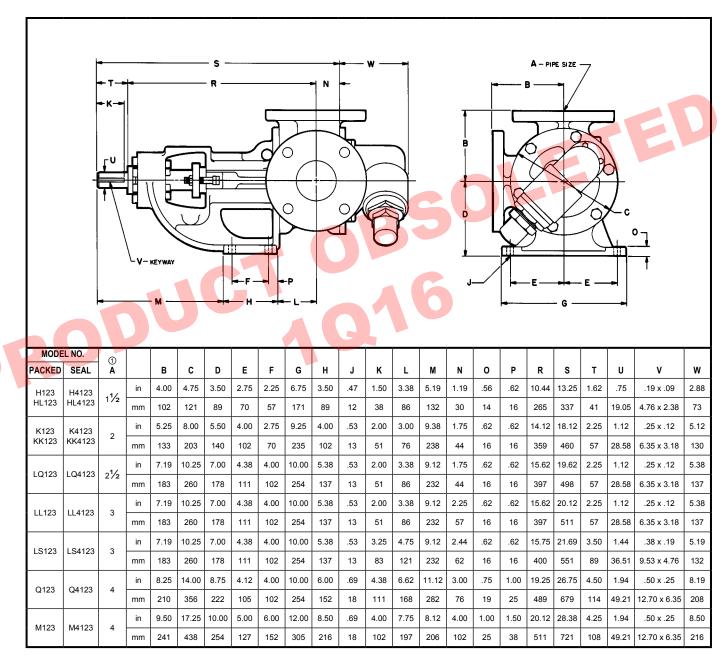
Section	151
Page	151.9
Issue	С

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

For specifications, see page 151.2.

DIMENSIONS SERIES 123 AND 4123 UNMOUNTED PUMPS

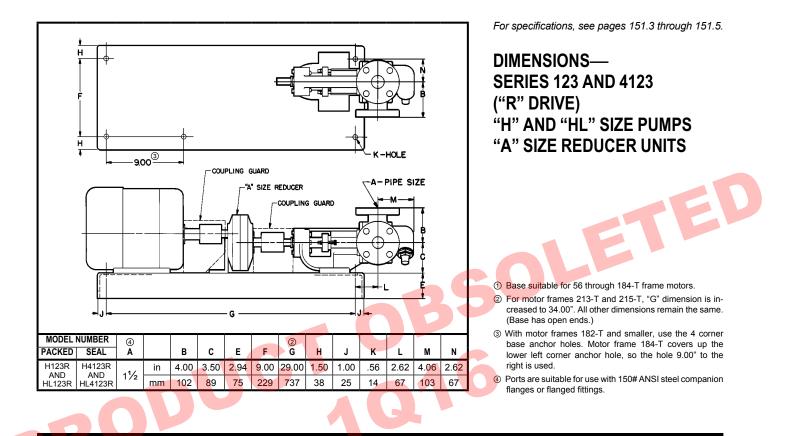


 Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

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Issue	С

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.



MODEL	NUMBER	1												
PACKED	SEAL	Ă		В	с	Е	F	G	J	к	L	м	N	
② K123R	② K4123R	2	in	5.25	9.50	4.00	14.25	48.00	1.38	.62	2.00	6.88	4.25	
AND KK123R	AND KK4123R	2	mm	133	241	102	362	1219	35	16	51	175	108	
LQ123R	LQ4123R	$2^{1/2}$	in	7.19	11.00	4.00	14.25	48.00	1.38	.62	2.38	7.12	4.62	
LQ123R	LQ4123R	272	mm	183	279	102	362	1219	35	16	60	181	117	
11 1000	11 44220	3	in	7.19	11.00	4.00	14.25	48.00	1.38	.62	2.38	7.62	4.62	
LL123R	LL4123R	3	mm	183	279	102	362	1219	35	16	60	194	117	
LS123R	LS4123R	3	in	7.19	11.00	4.00	14.25	48.00	1.38	.62	3.75	7.62	4.62	
L9123R	L04123R	3	mm	183	279	102	362	1219	35	16	95	194	117	

For specifications, see pages 151.3 through 151.5.

DIMENSIONS— SERIES 123 AND 4123 ("R" DRIVE) "K" THROUGH "LS" SIZE PUMPS "B" SIZE REDUCER UNITS

⑦ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

② With motor frames 184-T and smaller, these units are assembled on a shorter base with the following dimension changes: (F = 16", G = 39", L = 3", N = 5%"). Motor rails 1%" high are required with 56, 143-T and 145-T frame motors.

NOTE: Motor frame larger than 256-T requires larger base. Consult factory. Units available to accept 10 HP, 1200 RPM maximum motor.

NOTE: Motor rails 2" high are required on "LQ" through "LS" size units with 184-T or $4^{1}\!/\!2$ " center height motors.

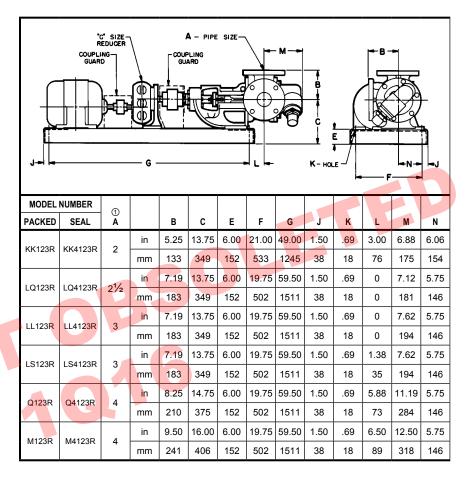
Section	151
Page	151.11
Issue	С

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

For specifications, see pages 151.3 through 151.5.

DIMENSIONS — SERIES 123 AND 4123 ("R" DRIVE) "KK" THROUGH "M" SIZE PUMPS "C" SIZE REDUCER UNITS

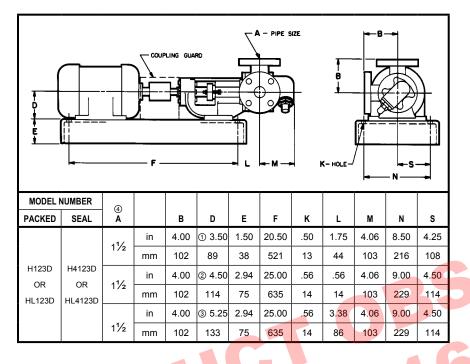


⑦ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

Section	151
Page	151.12
Issue	С

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

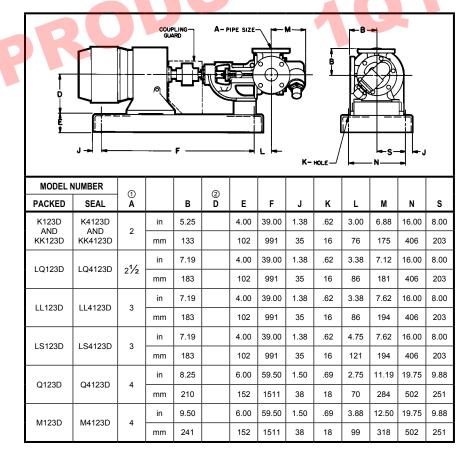


For specifications, see page 151.7.

DIMENSIONS — SERIES 123 AND 4123 ("D" DRIVE) "H" AND "HL" SIZE PUMPS DIRECT CONNECTED UNITS

() For motor frames 56, 143-T and 145-T. (Base has open ends.)

- Por motor frames 182, 182-T, 184 and 184-T. (Base has closed ends.)
- ③ For motor frames 213 through 215-T. (Base has closed ends.)
- ④ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.



For specifications, see page 151.7.

DIMENSIONS — SERIES 123 AND 4123 ("D" DRIVE) "K" THROUGH "M" SIZE PUMPS DIRECT CONNECTED UNITS

⑦ Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

② Varies with gearmotor used.

Section	151
Page	151.13
Issue	C

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

For specifications, see page 151.8.

DIMENSIONS — SERIES 123 AND 4123 ("V" DRIVE) "H" THROUGH "M" SIZE PUMPS V-BELT DRIVE UNITS

	MODEL NUMBER														
MODEL	UMBER	ത													
PACKED	SEAL	Ă		В	С	E	F	G	J	к	L	М	N		
H123V ② AND	H4123V AND	11/2	in	4.00	9.25	1.75	14.75	23.75	.75	.50	4.88	4.06	4.25		
HL123V	HL4123V	1/2	mm	102	235	44	375	603	19	13	124	103	108		
K123V 3	K4123V		in	5.25	13.81	3.25	17.00	28.75	1.00	.50	2.50	6.88	5.25		
AND KK123V	AND KK4123V	2	mm	133	351	83	432	730	25	13	64	175	133		
3		1	in	7.19	15.31	3.25	17.00	28.75	1.00	.50	2.25	7.12	5.25		
LQ123V	LQ4123V	21/2	mm	183	389	83	432	730	25	13	57	181	133		
3			in	7.19	15.31	3.25	17.00	28.75	1.00	.50	2.25	7.62	5.25		
LL123V	LL4123V	3	mm	183	389	83	432	730	25	13	57	194	133		
3		_	in	7.19	15.31	3.25	17.00	28.75	1.00	.50	1.06	7.62	5.25		
LS123V	LS4123V	3	mm	183	389	83	432	730	25	13	27	194	133		
0.4653.4			in	8.25	21.25	6.00	21.00	49.00	1.50	.81	2.75	11.19	8.50		
Q123V	Q4123V	4	mm	210	540	152	533	1245	38	21	70	284	216		
M4001/	M440014		in	9.50	22.50	6.00	21.00	49.00	1.50	.81	2.12	12.50	8.50		
M123V	M4123V	4	mm	241	572	152	533	1245	38	21	54	318	216		

 Ports are suitable for use with 150# ANSI steel companion flanges or flanged fittings.

RODUC

② Base dimensions correct for all motors.

③ Base dimensions correct through frame 215-T motors and 19" OD sheaves. Larger motors and/or 25" OD sheaves require larger base.