VIKING® HEAVY DUTY PUMPS

SERIES 337 AND 4337 STAINLESS STEEL

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FEATURES



also less sensitive to product. The sho stallless steer is on a variety of corrosive liquid applications.

① Values shown represent maximums. Some special construction or consideration may be required before a cataloged pump can be applied to an application involving the maximum pressure, temperature and/or viscosity.

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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COMBINATION JACKETED AND RELIEF VALVE HEAD (Standard Equipment)

The 700 GPM size pump in the Heavy-Duty Series 337 and 4337 features a combination jacketed and relief valve type head as standard equipment. Valve is standard and can be turned end for end when reversing pump rotation. Valve points toward suction port.

JACKETED OR RELIEF VALVE HEAD (Standard Equipment)

The "N" size 450 GPM Heavy-Duty Series 337 and 4337 pump can be furnished with a jacketed or valve type head. (Valve type standard.) Not available in combination. Generous steam chambers in jacketing permit heating of pump. See valve information at left.

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SERIES 337 AND 4337 STAINLESS STEEL

UNMOUNTED PUMPS



The Series 337 (packed) and Series 4337 (mechanical seal) pumps are furnished with horizontal ports although other port locations can be supplied on special request. Both the 450 and 700 GPM sizes are furnished with thrust bearing pedestal support and internal-type safety relief valve as standard. Generous jacketed area is provided in the rotor bearing sleeve for heating or cooling. In the Series 4337 the standard seal is a

PTFE type with carbon rotating and corrosion resistant stationary faces. High quality type 316 Stainless Steel is provided on wetted parts which come in contact with the pumped product.

Dimensions for Unmounted Pumps—See Page 163.4. Performance Data for Unmounted Pumps—See Pages 163.7 thru 163.12.

CONSTRUCTION - SERIES 337 AND 4337 "N" AND "R" SIZES

		Rotor				Rotor Shaft			Internal		
Pump Construction	Casing	Bearing Sleeve	Head	Rotor	Idler	and Idler Pin	Bushings	Packed	Mechanical Seal	Relief Valve	
316 Stainless	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Coated Stainless Steel	Carbon Graphite	Standard	Stainless Steel PTFE with Carbon Graphite and Corrosion Resistant Material	Stainless Steel	

SPECIFICATIONS — UNMOUNTED PUMPS

	odel mber	① Port Size	② Nomin Pump Ra		Rated	HP Requ Speed Pu 0 SSU Lig	Imping	Maximum Hydro- static Pressure	Hydro- ④ Maximum Recommended static Discharge Pressure			(5) Maximum Recommended Temperature For Cataloged Pump °F. (°C.)		⑥ Maximum Temperature / Pressure of Fluids in Jackets Steam (Sat.) Heat Transfer Oil				Approx. Shipping Weight With Valve
	7 Mech.		Ритр ка		25 PSI		100 PSI		③ 38 to	PSIG 100 to	2500 and	г.	Mech.	Temp.	Pressure	Temp.	Pressure	with valve
Packed	Seal	Inches	GPM (m ³ /hr)	RPM	(2 BAR)	(3 BAR)	(7 BAR)	PSIG (BAR)	100 SSU	2500 SSU	up SSU	Packed	Seal	°F. (°C.)	PSIG (BAR)	°F. (°C.)	PSIG (BAR)	Pounds (KG)
N337	N4337	6	450 102	280	20	30	50	400 (28)	50	75	100	225 (107)	225 (107)	365 (185)	150 (10)	450 (232)	150 (10)	810 (368)
R337	R4337	8	700 159	190	40	50	100	400 (28)	50	75	100	225 (107)	225 (107)	365 (185)	150 (10)	450 (232)	150 (10)	1435 (651)

 Flanged ports are suitable for use with 150# ANSI Stainless Steel companion flanges or flanged fittings.

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

③ For handling liquids of less than 38 SSU (4 cSt) viscosity, special construction

features may be required. Provide details for recommendations.

④ If suction pressure exceeds 50 PSIG (3 BAR), check factory with details.
⑤ With special construction temperatures to 450° F. can be handled. Under certain

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

conditions higher temperatures may be considered. Check factory with details. (6) Jacketed rotor bearing sleeve (stuffing box) is standard on both pumps. Jacketed head is available on the "N" size pump. On the "R" size a combination jacketed **AND**

relief valve head is standard, the jacketed relief valve is not available. ⑦ For mechanical seal pumps (Series 4337) on applications with viscosities above

25,000 SSU (5,500 cSt) provide details to factory for recommendations.

VIKING[®] HEAVY DUTY PUMPS

SERIES 337 AND 4337 STAINLESS STEEL

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GEAR REDUCER UNITS ("P" DRIVE)



The Viking Heavy-Duty Series 337 (packed) and 4337 (mechanical seal) pumps in two sizes-"N" and "R"-are available in the "P" drive arrangement.

These "P" Drive Heavy-Duty Units are mounted on structural steel bases as illustrated above. All mount the pumps with separate heavy-duty reducers and are

connected through flexible couplings between pumps, reducers and motors. Coupling guards, as illustrated are standard construction.

Dimensions for "P" Drive Units—Consult factory. Performance Data for "P" Drive Units-See Pages 163.7 thru 163.12.

	odel mber	① Port Size	② Nomina Pump Rat		Motor HP Required At Rated Speed Pumping		Maximum Hydro- static Pressure	④ Maximum Recommended Discharge Pressure PSIG			(5) Maximum Recommended Temperature For Cataloged Pump °F. (°C.)		© Maximum Temperature / Pressure of Fluids In Jackets Steam (Sat.) Heat Transfer Oil				Approx. Shipping Weight With Valve	
Packed	⑦ Mech. Seal		GPM (m ³ /hr)	RPM	25 PSI (2 BAR)		100 PSI (7 BAR)		③ 38 to 100 SSU	100 to 2500 SSU	2500 and up SSU	Packed	Mech. Seal	Temp. °F. (°C.)	Pressure PSIG (BAR)	Temp. °F. (°C.)	Pressure PSIG (BAR)	Pounds (KG)
N337P	N4337P	6	450 102	280	20	30	50	400 (28)	50	75	100	225 (107)	225 (107)	365 (185)	150 (10)	450 (232)	150 (10)	1450 (658)
R337P	R4337P	8	700 159	190	40	50	100	400 (28)	50	75	100	225 (107)	225 (107)	365 (185)	150 (10)	450 (232)	150 (10)	2190 (994)

SPECIFICATIONS - "P" DRIVE

① Flanged ports are suitable for use with 150# ANSI Stainless Steel companion flanges or flanged fittings.

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

③ For handling liquids of less than 38 SSU (4 cSt) viscosity, special construction features may be required. Provide details for recommendations.

④ If suction pressure exceeds 50 PSIG (3 BAR), check factory with details.

(5) With special construction temperatures to 450° F. can be handled. Under certain

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

conditions higher temperatures may be considered. Check factory with details.

(6) Jacketed rotor bearing sleeve (stuffing box) is standard on both pumps. Jacketed head is available on the "N" size pump. On the "R" size a combination jacketed AND relief valve head is standard, the jacketed relief valve is not available.

Tor mechanical seal pumps (Series 4337) on applications with viscosities above 25,000 SSU provide details to factory for recommendations.

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VIKING[®] HEAVY DUTY PUMPS

SERIES 337 AND 4337

STAINLESS STEEL

DIMENSIONS

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

