LIQUID RING VACUUM PUMPS

NAT SERIES

Pumps. Systems. Service. Support. — One Source.

DUAL CONE, TWO-STAGE LIQUID RING VACUUM PUMP

MODELS: NAT704, NAT706, NAT1004, NAT1006, NAT2004, NAT2006, NAT3004, NAT3006



Drop-in replacement for classic Nash* AT Series vacuum pumps — 28.9" Hg ultimate vacuum for rough and low-medium vacuum applications.

— FIT

Drop-in replacement for classic Nash* AT series; parts and repair kits readily available.

— MATERIALS

Standard cast iron construction with Teflon packing; optional 304 or 316 stainless steel.

— CONFIGURATION

Bare pump, direct drive, or V-belt systems; optional factory-installed mechanical seals.

— WARRANTY

2-year factory warranty against manufacturer's defects.

Built for deep vacuum. Proven in power generation and pharmaceutical manufacturing.

NES Company is proud to offer our NAT Series two-stage dual cone liquid ring vacuum pumps. These pumps have been designed to be drop-in replacements for classic Nash* AT Series pumps.

CAPACITY RANGE	POWER RANGE	MAX VACUUM	MODELS
350–2,800	**20–210 HP**	**28.9" Hg**	**8 Models**
CFM capacity range	Motor power range	Maximum vacuum	NAT704 through NAT3006

Overview / Features / Notes

SPECIFICATION SUMMARY

Type	Dual Cone, Two-Stage
Models	NAT704, NAT706, NAT1004, NAT1006, NAT2004, NAT2006, NAT3004, NAT3006
Power Range	20–210 HP
Capacity Range	350–2,800 CFM
Max Vacuum	28.9" Hg

DESCRIPTION

These 20 - 210 HP liquid ring vacuum pumps have been designed to be drop-in replacements for classic Nash* AT series pumps. With 28.9" Hg of ultimate vacuum and a capacity range of 270 to 2800 CFM, rough and low medium applications in industries such as power generation and pharmaceutical manufacturing are streamlined with the efficiency and long service life of the factory performance-tested NAT Series.

FEATURES

- **Drop-in replacement for classic Nash* AT series.**
- **Standard construction is Cast Iron with Teflon Packing.**
- **Optional 304 or 316 Stainless Steel construction.**
- **Optional factory installed mechanical seals.**
- **Parts and repair kits readily available.**
- **Available in bare pump, direct drive, or V-belt systems.**
- **2-year factory warranty against manufacturer's defects.**

NOTES

These new pumps have been designed to be drop-in replacements for classic Nash* AT Series pumps. NES NAT Series vacuum pumps are factory performance tested and include a 2-year warranty against manufacturer's defects.

FULL TECHNICAL DATA

The following pages cover model-by-model performance data, variation and application tables, and exploded views for every NAT frame size. **Contact NES** at info@nescompany.com or 800-297-3550 for application support.

Technical Data / Performance by Model

VACUUM PUMP — PERFORMANCE DATA

Model Name	Replaces Nash* Classic	Shaft Rotation [RPM]	HP at 5" HgA	CFM at 5" HgA	Ultimate Vacuum Level ["HgV]	Inlet [Inch]	2nd Stage Outlet [Inch]	Seal Water Usage [GPM]	Seal Water Connection Size [Inch]
NAT-704	AT-704	885	30	525	28.9	4 FL	4 FL	15	1 NPT
		980	35	575					
		1050	40	625					
NAT-706	AT-706	885	30	550	28.9	4 FL	4 FL	15	1 NPT
		980	35	625					
		1050	40	675					
NAT-1004	AT-1004	690	50	800	28.9	5 FL	5 FL	30	1 NPT
		730	55	850					
		880	70	1075					
NAT-1006	AT-1006	690	50	850	28.9	5 FL	5 FL	30	1 NPT
		730	55	900					
		880	73	1060					
NAT-2004	AT-2004	500	100	1550	28.9	6 FL	6 FL	40	1 NPT
		550	110	1750					
		590	120	1900					
NAT-2006	AT-2006	500	90	1700	28.9	6 FL	6 FL	40	1 NPT
		550	100	1850					
		590	110	2000					
NAT-3004	AT-3004	400	120	2000	28.9	8 FL	8 FL	60	1 NPT
		450	160	2200					
		500	180	2500					
NAT-3006	AT-3006	[Rated] 450	Range 100-150	Range 1200-2800	28.9	8 FL	8 FL	60	1 NPT

Variation / Application Tables

VARIATION TABLE

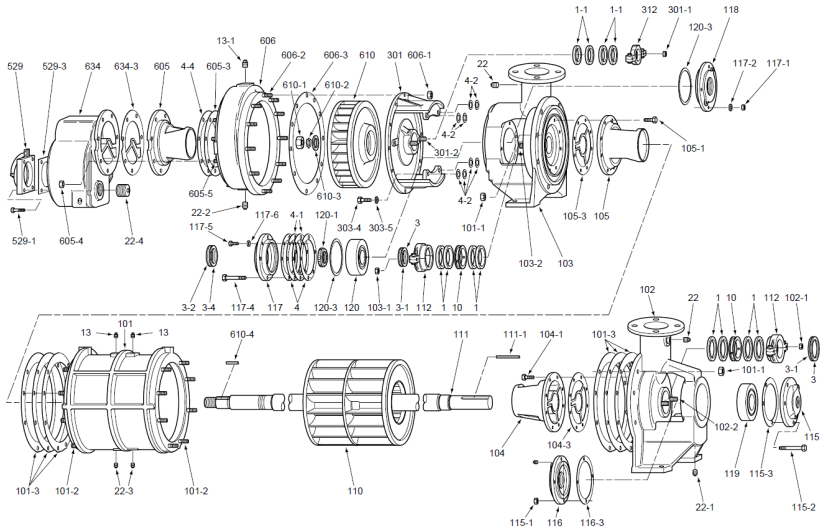
Variations	Particulars
Metallurgy	Standard Cast Iron
	Stainless Steel 304
	Stainless Steel 316L
	Duplex Steel
	Bronze
Direction	Clockwise
	Counter-Clockwise Rotation
Purpose	Vacuum Pump
	Compressor
Sealing	Standard Available as Gland Packing
	Available with Single Seal
	Available with Single Cartridge Seal
	Available with Dual Cartridge Seal and Seal Pot
Configuration	Once Through
	Partial Recovery
	Full Sealant Recovery
Other System Configuration	Simplex
	Duplex
	Triplex
	Quadruplex

APPLICATION TABLE

Applications
De-aeration
Drying
Evaporating
Priming
Gas Stripping
Power Plants
Pharmaceutical Manufacturing
Filtering
Extruder Venting
Foods & Fats

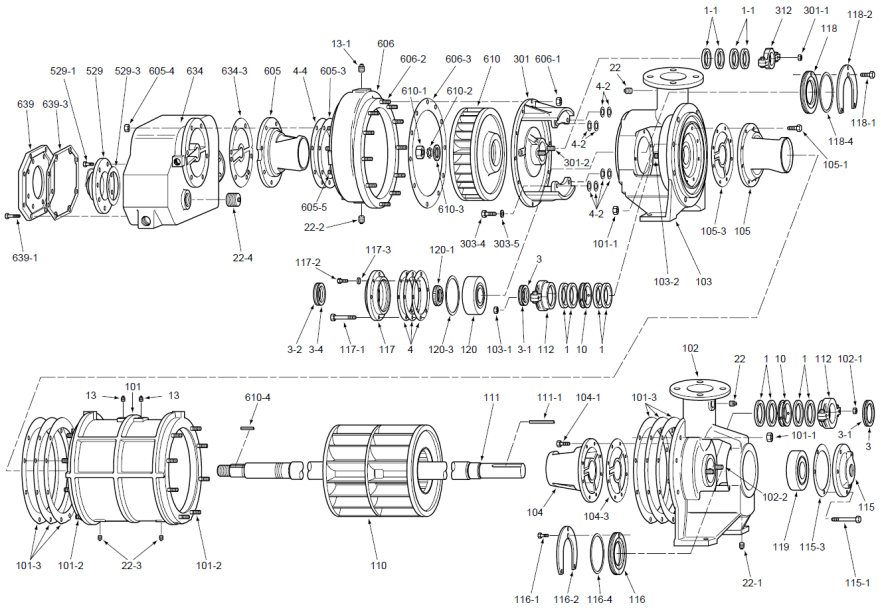
Exploded View / Reference Drawings

EXPLODED VIEW — NAT-404, NAT-704 & NAT-706



Exploded View / Reference Drawings

EXPLODED VIEW — NAT-1004 & NAT-1006

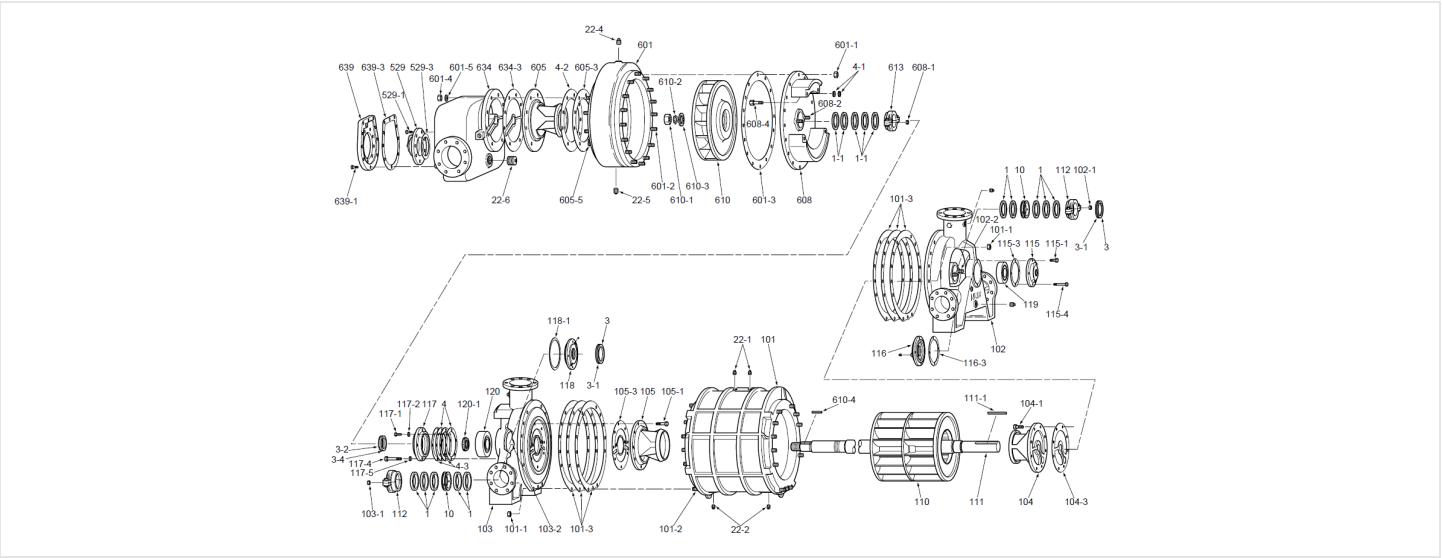


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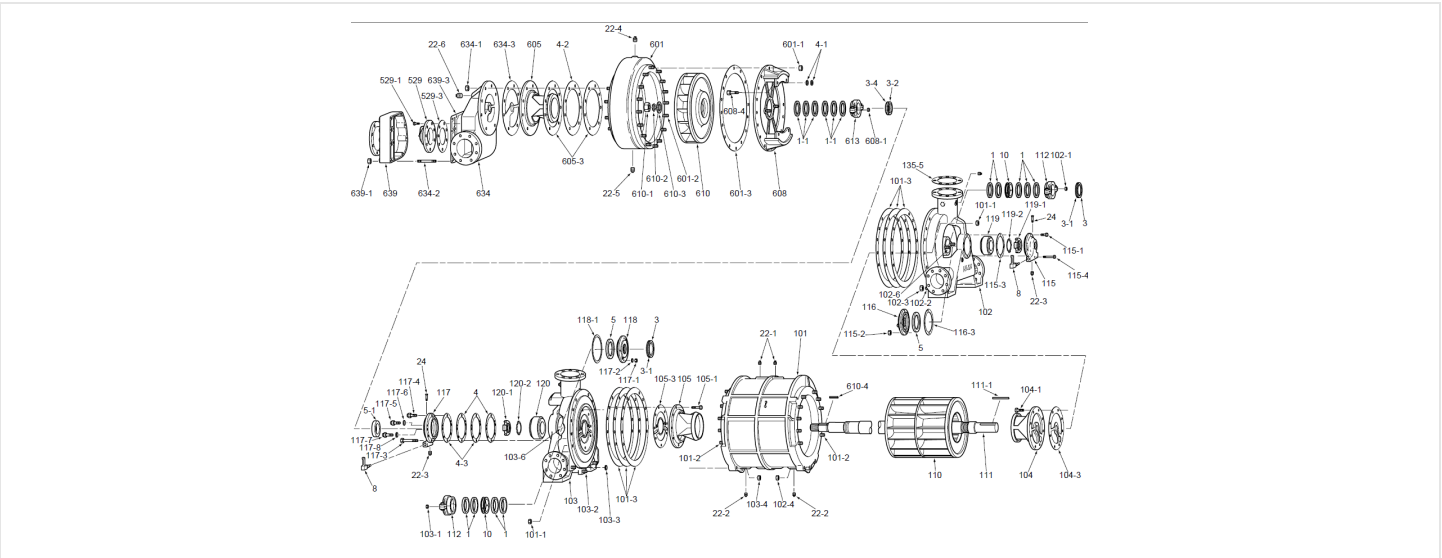
Exploded View / Reference Drawings

EXPLODED VIEW — NAT-2004 & NAT-2006



Exploded View / Reference Drawings

EXPLODED VIEW — NAT-3004 & NAT-3006



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