



DOUBLE-STAGE PORT PLATE LIQUID RING VACUUM PUMPS

NTS SERIES

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

DOUBLE-STAGE PORT PLATE LIQUID RING VACUUM PUMP

MODELS: NTS-110, 140, 180, 300, 350, 400, 500, 600, 800, 1200, 2300, 3300, 4200



Drop-in replacement for SIHI* LPH Series liquid ring vacuum pumps — double-stage port plate design from 65 to 4,200 CFM.

— FIT	— MATERIALS	— CONFIGURATION	— WARRANTY
Drop-in replacement for SIHI* LPH series; parts and repair kits readily available.	Standard cast iron construction with Teflon packing; optional 304 or 316 stainless steel.	Bare pump, direct drive, or V-belt systems; optional factory-installed mechanical seals.	1-year factory warranty against manufacturer's defects.

Double-stage design. A wide range of power, vacuum and flow.

Our NTS series is an excellent choice for replacing or repairing your SIHI* LPH Series liquid ring vacuum pumps. These new replacement double stage pumps are designed to be drop-in replacements for the SIHI* LPH Series. Available in NTS-110, 140, 180, 300, 350, 400, 500, 600, 800, 1200, 2300, 3300, and 4200 (65 to 4200 CFM). Standard Construction is Cast Iron with Teflon packing. NTS Series vacuum pumps are performance tested and include a 2-year warranty against manufacturer's defects.

CAPACITY RANGE

65–4,200

CFM capacity range

POWER RANGE

5–20 HP

Motor power range

MAX VACUUM

28.9" Hg

Maximum vacuum

MODELS

13 Models

NTS-110 to NTS-4200

SPECIFICATION SUMMARY

Design	Double-Stage, Port Plate Design
Models	NTS-110, 140, 180, 300, 350, 400, 500, 600, 800, 1200, 2300, 3300, 4200
Capacity Range	65–4,200 CFM
Max Vacuum	28.9" Hg
Power Range	5–20 HP
Model Range	13 Models, NTS-110 to NTS-4200
Factory Warranty	1-Year

DESCRIPTION

These 5-20 HP sturdy vacuum pumps have high-quality standard mechanical seals to ensure reliable sealing and low shaft friction. The construction of the NTS series models provides a long service life and a wide range of selection in power, ultimate vacuum level, and flow capacity. All NES vacuum pumps are factory performance tested and included a 1-year warranty against manufacturer’s defects.

FEATURES

- ▶ Drop-in replacement for SIHI* LPH 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.

NOTES

NES Company is proud to offer our double stage port plate NTS Series liquid ring vacuum pumps. These new pumps have been designed to be drop-in replacements for SIHI* LPH Series vacuum pumps. NES Company Inc. NTS Series vacuum pumps are factory performance tested and include a 2-year warranty.

FULL TECHNICAL DATA

The following pages cover vacuum pump technical data, variation, application and weight tables, exploded views with parts lists, and the material construction table. **Contact NES** at info@nescompany.com or 800-297-3550 for application support.

Technical Data / Performance by Model

VACUUM PUMP — TECHNICAL DATA

SERIES	REPLACES SIHI	MAX CFM	MAX OPERATING VACUUM [”HGv]	INLET [INCH]	DISCHARGE [INCH]
NTS-110	LPH-45008	65	28.9	1.5 FL	1.5 FL
NTS-140	LPH-45311	85	28.9	1.5 FL	1.5 FL
NTS-180	LPH-45316	109	28.9	1.5 FL	1.5 FL
NTS-300	LPH-55312	167	28.9	2 FL	2 FL
NTS-350	LPH-55316	201	28.9	2 FL	2 FL
NTS-400	LPH-55320	250	28.9	2 FL	2 FL
NTS-500	LPH-65320	295	28.9	2 3/8 FL	2 3/8 FL
NTS-600	LPH-653237	362	28.9	2 3/8 FL	2 3/8 FL
NTS-800	LPH-75320	530	28.9	2 3/8 FL	2 3/8 FL
NTS-1200	LPH-85340	1059	28.9	4 FL	4 FL
NTS-2300	LPH-95354	2295	28.9	5 FL	5 FL
NTS-3300	LPH-95367	3390	28.9	6 FL	6 FL
NTS-4200	LPH-10534	4238	28.9	8 FL	8 FL

Variation / Applications / Weight

VARIATION TABLE

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

APPLICATION TABLE

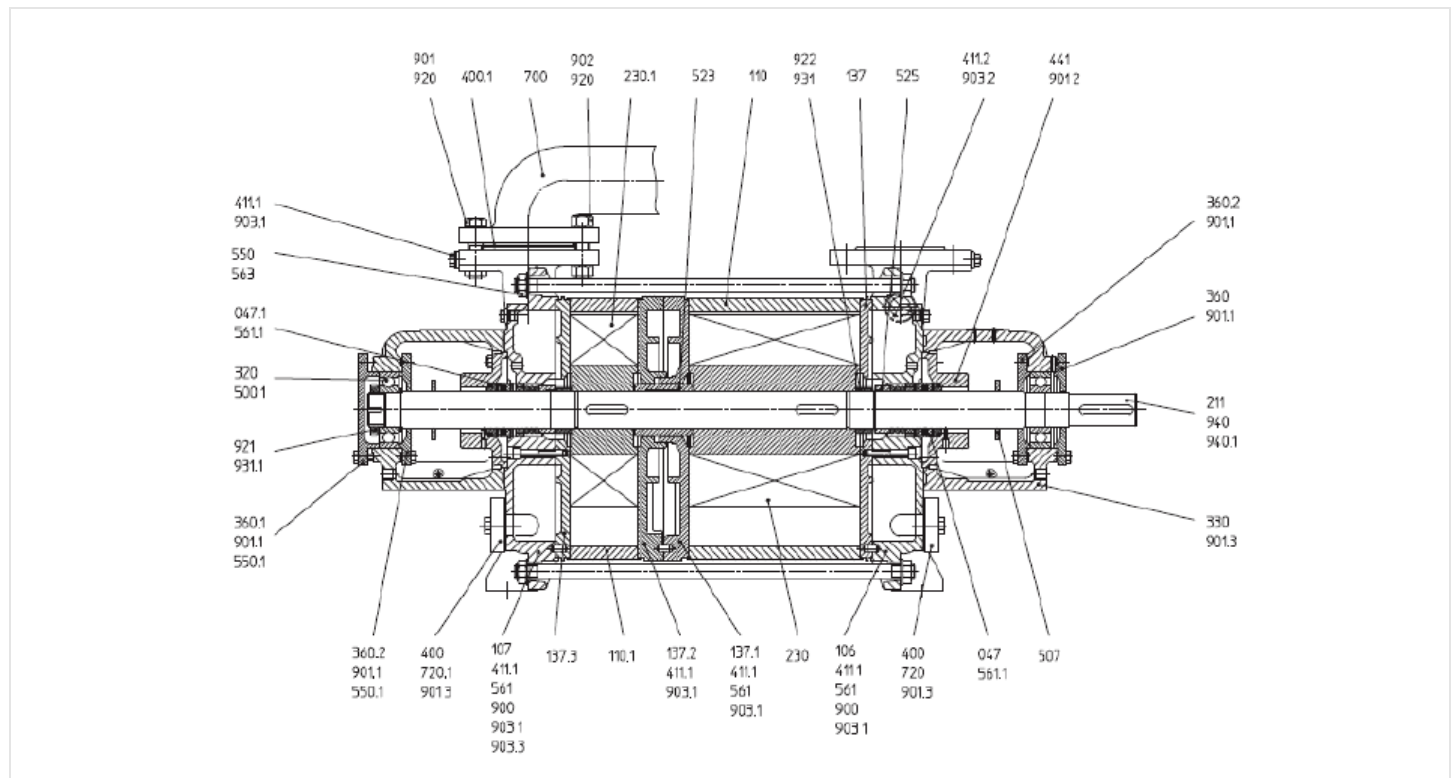
Applications	
Aerospace Part Manufacturing	Petrochemical Synthesis
Automotive Part Manufacturing	Pharmaceuticals Manufacturing
Bioethanol Production	Plastic, Rubber, Composite Manufacturing
Biofuels	Pulp & Paper Processing
Defense Manufacturing	Steelmaking
Semiconductor Manufacturing	Sugar Processing
Environmental	Textile and Leather Manufacturing
Laboratory and Analytics	Tobacco Production
Molded Paper Production	Waterbox Priming
Oil & Gas Refining	

PUMP WEIGHT

Series Name	Weight [lb.]
NTS-140	169.756
NTS-180	189.598
NTS-300	306.443
NTS-350	332.898
NTS-400	359.353
NTS-500	473.994
NTS-600	529.109

Sectional View / Reference Drawing

SECTIONAL VIEW — NTS 110 – NTS 400



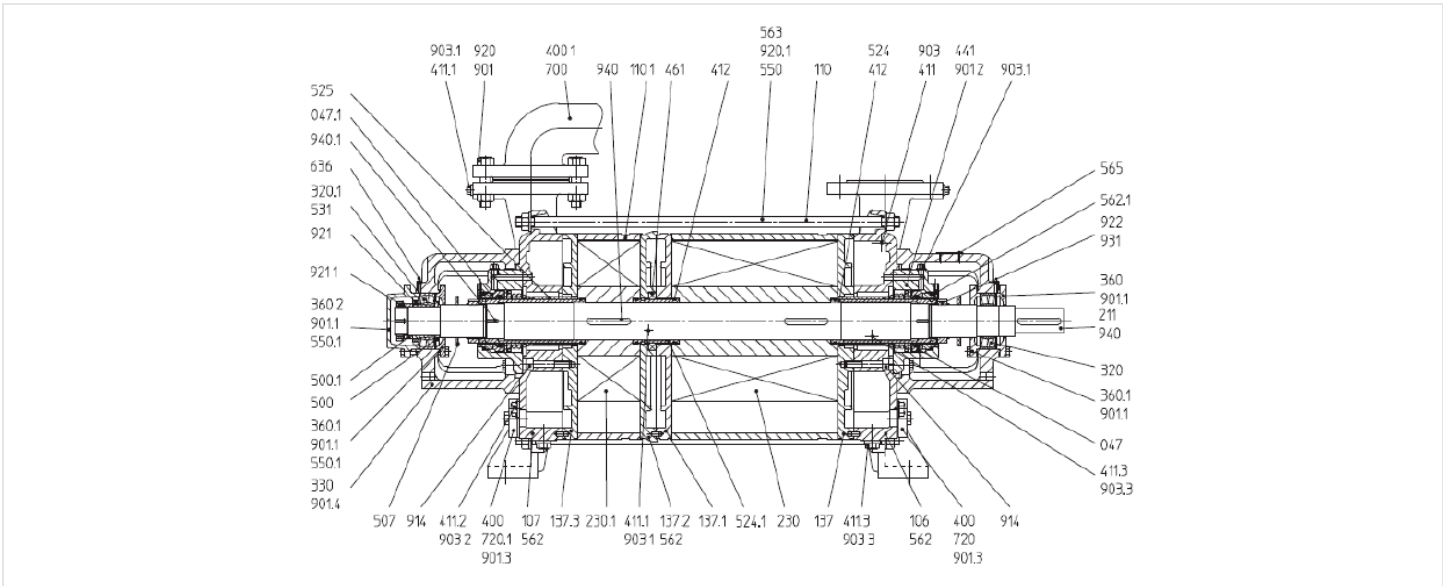
Parts List

PARTS LIST OF NTS 110 – NTS 400

No.	Designation	No.	Designation	No.	Designation
047/.1	Mechanical seal	400/.1	Sealing	700	Pipe
106	Suction casing	411.1/.2	Sealing ring	720/.1	Counter flange
107	Discharge casing	441	Shaft sealing casing	900	Hexagon socket head screw
110/.1	Stage casing	500/.1	Ring	901-.3	Hexagon head screw
137-.3	Inter casing	507	Splash ring	902	Stud bolt
211	Shaft	523	Spacer sleeve	903.1-.3	Screw plug
230/.1	Impeller	525	Spacer sleeve	920	Hexagon nut
320	Rolling bearing	550/.1	Disc	921	Shaft nut
330	Bearing housing	561/.1	Cylindrical pin	922	Impeller nut
360.-2	Bearing cover	563	Casing bolt	931/.1	Lock washer
				940/.1	Fitting key

Sectional View / Reference Drawing

SECTIONAL VIEW — NTS 500, 600



Parts List

PARTS LIST OF NTS 500, 600

Part No.	Part Name	Part No.	Part Name
047/.1	Mechanical Seal	525	Spacer sleeve
106	Suction casing	531	Withdrawal sleeve
107	Discharge casing	550/.1	Disc
110/.1	Stage casing	562/.1	Cylindrical pin
137-.3	Inter casing	563	Casing bolt
211	Shaft	565	Riveted bolt
230/.1	Impeller	636	Lubrication nipple
320/.1	Rolling bearing	700	Pipe
330	Bearing housing	720/.1	Counter flange
360-.2	Bearing cover	901-.4	Hexagon head screw
400/.1	Sealing	903-.3	Screw plug
411-.3	Sealing ring	914	Hexagon socket head screw
412	O-ring	920/.1	Hexagon nut
441	Shaft sealing casing	921/.1	Shaft nut
461	Packing gland	922	Impeller nut
500/.1	Ring	931	Lock washer
507	Splash ring	940/.1	Fitting key
524/.1	Shaft protection sleeve		



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NESCOMPANY.COM
nescompany.com

NES COMPANY, INC.
333 Route 46 West, Building B Suite 180 · Fairfield, NJ 07004
nescompany.com · info@nescompany.com · 800-297-3550