## Liquid Ring Vacuum Pumps

Models: NX-35,45,60,80,100,130,250, 350 and 500

Description: Single-Stage Liquid Ring Vacuum Pump Type: Single Cone Models: NX-35, 45, 60, 80, 100, 130, 250, 350, and 500 Power Range: 7.5 - 200 HP Capacity Range: 117 -3000 CFM Max Vacuum: 28" Hg

#### **OVERVIEW**

Our NX Series are designed as drop-in replacements for the Nash\* classic XL/GL series vacuum pumps. This 117-3000 CFM single cone liquid ring vacuum pump is designed to have only one moving part to induce maximum mechanical stability with maximum reliability. This cast-iron single cone liquid ring vacuum pump is suited to deliver vacuum at maximum capacity in tough conditions of sudden water and particle slugs. We offer version with capacities ranging from 117-3000 CFM.

#### **CONSTRUCTION**

Our 7.5-200 HP NX Series <u>liquid ring vacuum pumps</u> are <u>designed</u> to be <u>drop-in replacements</u> for the XL/GL series. Available in NX- 35, 45, 60, 80, 100, 130, 250, 350 & 500 (up to 3000 CFM). Standard construction is Stainless steel with Teflon packing. NES provides Stainless Steel Single cone liquid ring vacuum pumps that are performance tested and include a 2-year warranty.

#### **FEATURES**

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





#### NOTES

NES Company is proud to offer our single stage/single cone NX Series liquid ring vacuum pumps. These new pumps have been designed to be drop-in replacements for classic Nash\* XL/GL Series pumps. NES NX Series liquid ring vacuum pumps are factory performance tested and include a 2-year warranty.

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#### GENERAL TECHNICAL DATA

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Model	Max Vacuum ["Hg]	Speed [RPM]	Capacity [CFM] @ 20" Hg	Motor Power [HP]	Inlet [in]	Discharge [in]	Seal Water Usage [GPM]	Seal Water Size [in]	Pump Weight Dry [lbs.]	
									Cast Iron	Stainless Steel
	28	1450	117	7.5	3 FL	2 FL	1.5 - 3	½ NPT	-	216
NX - 35		1750	145	10						
		2300	192	15						
NX - 45	28	1450	160	10	3 FL	2 FL	1.5 - 3	½ NPT	-	231
		1750	198	15						
		2300	260	20						
		980	193	15		3 FL	5 - 10	¾ NPT	-	395
NX – 60	28	1170	240	15	4 FL					
NA - 00	20	1450	303	20						
		1750	365	25						
		980	260	20		3 FL	5 - 10	¾ NPT	-	435
NX – 80	28	1170	320	20	4 FL					
	20	1450	420	25						
		1750	500	40						
		800	290	20		4 FL	6 - 12	1 NPT	-	662
NX - 100	28	880	328	20	4 FL					
		980	380	20						
		1170	460	25						
		1450	560	40						
		800	400	25		4 FL	6 - 12	1 NPT	-	733
	28	880	455	25	4 FL					
NX – 130		980	510	25						
		1170	620	40						
		1450	775	50						
	25	600	730	40	6 FL	6 FL	14-28			
		705	875	40						
NX 250		750	940	40						
11/1 200		880	1100	60						
		980	1225	75						
		1080	1340	75						
	25	500	1120	50	8 FL	6 FL	15-30			
		600	1360	60						
NX – 350		705	1625	75						
		750	1730	100						
		880	2000	125						
	25	450	1825	75	10 FL	8 FL	25-50			
		500	2050	100						
NX – 500 2		590	2460	125						
		705	2900	150						
		735	3000	200						

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#### Variation Table

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

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#### Vacuum pump Length, Height, Breadth, Keyway, Shaft diameter

Model Length (Inches)		Height Breadth (Inches) (Inches)		Keyway (Inches)	Shaft diameter (Inches)	
NX – 35	35	13.4	14	0.4724 X 0.197	1.6543	
NX – 45	33	13.4	14	0.4724 X 0.197	1.6543	
NX – 60	36	17	16	0.551 X 0.218	1.8905	
NX – 80	39	17	16	0.551 X 0.218	1.8905	
NX – 100	42	19	20	0.709 X 0.276	2.3634	
NX – 130	46	19	20	0.709 X 0.276	2.3634	
NX – 250	55	26	25	-	-	
NX – 350	64	29	31	-	-	
NX – 500	81	39	41	-	-	

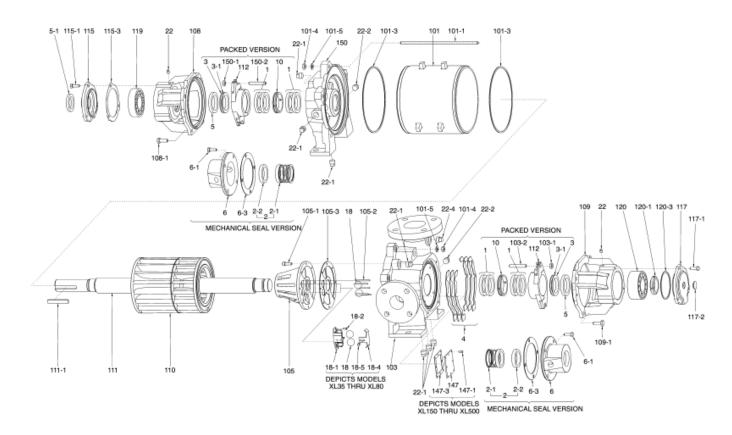
#### **Application table**

Variation	Applications					
Valiation	Central Vacuum Systems					
	De-aeration					
	Drying					
	Evaporating					
	Autoclaves					
	Evaporating					
High Vacuum	Priming					
	Forming					
	Fiber Setting					
	Gas Stripping					
	Molding					
	Power Plants					
	Container Filling					
	Filtering					
Water Handling	Extruder Venting					
water nanoling	Eviscerating					
	Foods & Fats					

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#### **Exploded View**



## Liquid Ring Vacuum Pumps Models: NX-35,45,60,80,100,130,250, 350 and 500



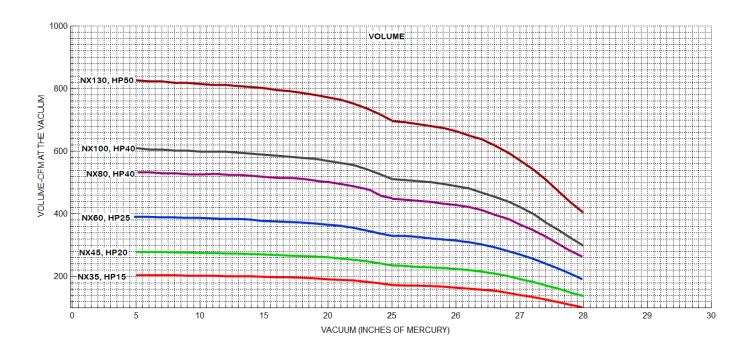
#### **Material Details**

Index No	Description	Quantity	Index No	Description	Quantity	
1	*Packing	4	105 – 1	Bolt, I.E. Cone	20	
2	*Seal Assembly	2	105 - 2	Studs	AR	
3	Slinger	2	105 – 3	*Gasket, I.E. Cone	1	
3 – 1	Spring	2	108	Bearing Bracket, D.E.	1	
4	*Shim	AR	108 – 1	Bearing Bracket Bolt, D.E.	4	
5	*Lip Seal	2	109	Bearing Bracket, I.E.	1	
5 – 1	*Lip Seal, D.E.,Outer	1	109 – 1	Bearing Bracket Bolt, I.E.	4	
6	Retainer Seal	2	110	Rotor	1	
6 – 1	Retainer Seal Bolt	8	111	Shaft	1	
6 – 3	Retainer Seak Gasket	2	111 – 1	Shaft Key	1	
10	Lantern Gland	2	112	Gland	2	
18	Check Valve Ball	2	115	Cap, Outer D.E.	1	
18 – 1	Check Valve Ball Retainer	1	115 – 1	Bolts, D.E. Outer Bearing Cap	3	
18 – 2	Retainer Screw	2	115 – 3	*Gasket, D.E. Outer Bearing Cap	1	
18 – 4	Stop Plate	1	117	Cap, Outer I.E.	1	
18 – 5	Stop Plate Screw	1	117 – 1	Bolts, I.E. Outer Bearing Cap	3	
22	Pipe Plugs	2	117 – 2	Cap, Inner D.E.	1	
22 – 1	Pipe Plugs	7	117 – 3	*Gasket, I.E.Outer Bearing Cap	1	
22 – 2	Pipe Plugs	2	119	*Bearing, D.E	1	
22 – 4	Pipe Plugs	1	120	*Bearing, I.E.	1	
101	Body	1	120 – 1	*Locknut, I.E. Bearing	1	
101 – 2	Axial Rod	5	120 – 3	*Lockwasher, I.E. Bearing	1	
101 – 3	*Gasket	2	147	Cover Plate	1	
101 – 4	Rod Nuts	AR	147 – 1	Cover Plate Screw	6	
101 – 5	Rod Washers	AR	147 – 3	Cover Plate Gasket	1	
103	Head, I.E.	1	150	End Plate	1	
103 – 1	Gland Nut, I.E.	2	150 – 1	Gland Nut, D.E.	2	
103 – 2	Gland Stud, I.E.	2	150 – 2	Gland Stud, D.E.	2	
105	Cone, I.E.	1				
	nended Spare Parts. Required.	·	•			

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#### Composite Curve NX35, NX45, NX60, NX80, NX100, NX130



Liquid Ring Vacuum Pumps Models: NX-35,45,60,80,100,130,250, 350 and 500

# COMPANY

#### Composite Curve NX250, NX350, NX500

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