

# NDRV Series

## Dry Running Rotary Vane

Models: NDRV120, NDRV140, NDRV280, NDRV480



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### OVERVIEW

NES Company proudly presents the NDRV series, a groundbreaking line of dry-running single-stage compact rotary vane vacuum pumps designed to redefine industry standards. Capacities range from 4 to 17 CFM and vacuum levels reaching up to 27" Hg.

One of the key highlights of the NDRV series is its innovative carbon vanes, meticulously engineered for seamless replacement and exceptional durability with contamination-free self-lubrication throughout the pumping process. This feature ensures a smooth maintenance process, minimizing downtime and optimizing operational efficiency.

Moreover, the dry-running functionality of the pump represents a significant advancement in environmental consciousness. The risk of oil contamination in waste gas discharge is completely mitigated, aligning with sustainable practices and reducing environmental impact without the need for post-discharge filtration and treatment.

*With the NDRV series, we have crafted a pump that not only delivers superior performance but also prioritizes environmental sustainability, reflecting our dedication to building a better future for generations to come.*

### UNIQUE FEATURES

- **Air-cooled Compact Design:** Engineered for versatility and ensures easy installation even in confined spaces. This space-saving feature enhances flexibility in various operational environments.
- **Dry-Running with Composite Carbon Vanes:** The integration of composite carbon enables clean self-lubrication, eliminating the risk of process gas contamination.
- **Low Noise and Low Vibration Levels:** NDRV Series is engineered to operate with minimal noise and vibration levels. This feature enhances workplace ergonomics and contributes further to a conducive working environment.
- **Robust and Simple Construction:** Built to withstand rigorous industrial conditions, the NDRV Series boasts robust construction that extends the service life of the pump and also facilitates easy maintenance procedures, minimizing downtime and optimizing operational efficiency.
- **DIY Repairs with Replacement and Spare Kits:** NES Company offers major and minor repair kits designed to encourage simple DIY repairs and parts replacements specifically tailored for the NDRV Series models. This ensures quick and efficient maintenance, empowering operators to address issues promptly and effectively without further delay or downtime.

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BASIC SPECIFICATION

MODELS	NDRV 120, 140, 280, 480
POWER RANGE	0.16 to 1 HP
CAPACITY RANGE	4 to 17 CFM
ULTIMATE VACUUM LEVEL	up to 27” HgV

COMMON APPLICATION

Our NTRV 2-Stage pumps find widespread application in Vacuum Packing, Vacuum Printing, Medical Instruments, Vacuum Adhesion to meet the demanding needs of modern industrial processes.

GENERAL PERFORMANCE PARAMETERS

Model	Capacity [CFM]	Ultimate Pressure [“HgV]	Power [Φ/Hz/HP]	Motor Rating [Φ/Hz/V AC]	Nominal Speed [RPM]	Sound Level [dB]	Weight [lbs.]
NDRV 120	4	27	1/60/0.16	1/60/220	3600	58	20
NDRV 140	5	27	1/60/0.34	1/60/220	1725	58	30
NDRV 280	10	27	3/60/0.75 1/60/0.75	3/60/220,380 1/60/220	1725	68	56
NDRV 480	17	27	3/60/1 1/60/1	3/60/220,380 1/60/220	1725	75	66