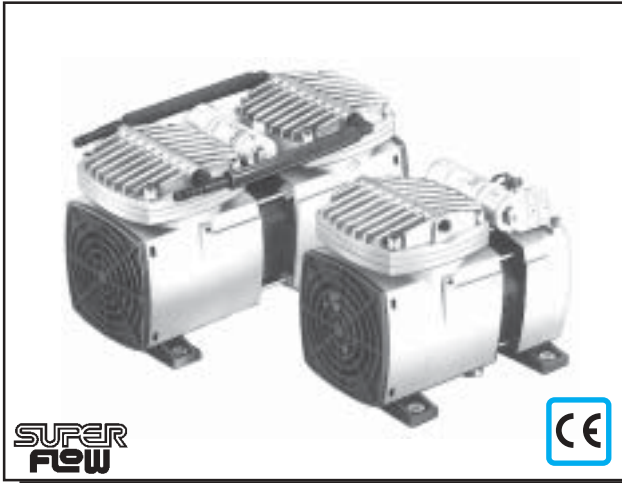


Type: N023ANI  
N023.3ANI  
N023.1.2ANI

Diaphragm Vacuum Pump  
and Compressor

Single or Twin-Head Designs  
OEM Installation Model  
with AC Motor



N023.1.2ANI and N023ANI models shown

Free-Flow Capacity: 23 or 39 liters/min. (0.81 or 1.37 SCFM)  
Maximum End Vacuum: 51.5 mbar abs. (28 in. Hg)  
Maximum Continuous Pressure: 2.1 bar (30 psig)

Description

KNF's engineers combined high performance with a small physical package to produce an efficient, compact diaphragm pump. The N023 series pumps are supplied completely assembled with integral shock mounts and factory-mounted capacitor, ready to install in your equipment. This saves you hours of wiring, assembly and testing. They are smaller and lighter than others of similar performance, and fit easily into your equipment in any position. Single and twin-head models are available. They can be configured in parallel for more flow, as a two-stage pump for deeper vacuum, or as a combination vacuum pump and compressor. In addition, with KNF's Project Pump program, we can suggest a variety of inexpensive modifications to meet your OEM design requirements.

Pump Features

- Low Noise Level - Featuring an enclosed compressor housing, noise transmission is minimized and dirt is kept away from critical components. The pump is extremely quiet and smooth running. The heavy-duty ball-bearing motor and shock mounts assure quiet, trouble-free operation.
- Factory Assembled - All KNF pumps are tested complete with capacitors mounted and wired. Integral shock mounts provide extra value and reduce noise and vibration to comfortable levels. These pumps are fully tested and ready to install in minutes.
- Compact Size - Ideal where space is at a premium. Your equipment design can be smaller and lighter. The N023 will operated in any position with full performance.
- Medium Transfer is Contamination-Free - Our design is oil-free and has no sliding seals to wear away. Your pumped medium stays analytically pure.
- Variety of Accessories - Available accessories include noise & dust filters and hose connectors.

Applications

- Medical/Dental Suctional Devices
- Operating Room Appliances
- Respiration Units
- Process Gas Sampling
- Pneumatic Systems Air Supply
- Home Health Care Appliances
- Medical Diagnostic Equipment
- Vacuum Filtration
- Liquid Degassing
- Medical Diagnostic Equipment

## KNF Performance Specifications

Model Number	N023ANI	N023.1/.1.2/.2ANI	N023.3ANI
Head Configuration	Single Stage	Parallel-Head	Two-Stage
Maximum Flow	23 lit/min. (0.81 SCFM)	39 lit/min. (1.37 SCFM)	23 lit/min. (0.81 SCFM)
Maximum Vacuum	217 mbar (23.7 in. Hg)	217 mbar (23.7 in. Hg)	51.5 mbar (28in. Hg)
Maximum Continuous Pressure	2.1 bar (30 psig)	2.1 bar (30 psig)	Vacuum Service Only

## Electrical

Motor Voltage & Frequency	115 (50/60 Hz) or 230 V (50 Hz)	115 (60 Hz) or 230 V (50 Hz)	115 (60 Hz) or 230 (50 Hz)
Full Load Motor Current	1.1 / 0.45 Amps	1.4 / 0.6 Amps	1.4 / 0.6 Amps
Motor Type		Permanent Split-Capacitor	
Motor Protection		Thermal Reset	

## Environmental

Maximum Ambient Temperature	40°C (105°F)
Maximum Medium Temperature	40°C (105°F)
Net Weight	3.2 kg (7 lb.)

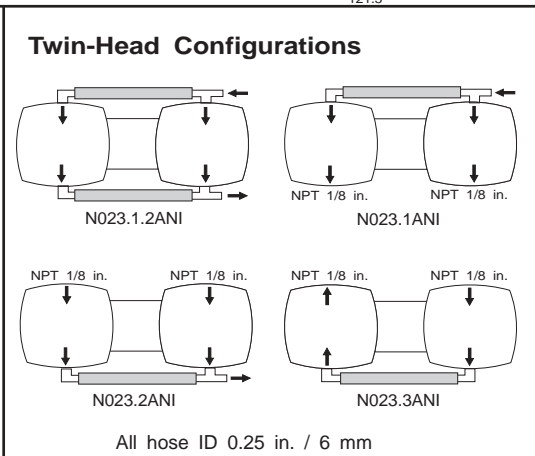
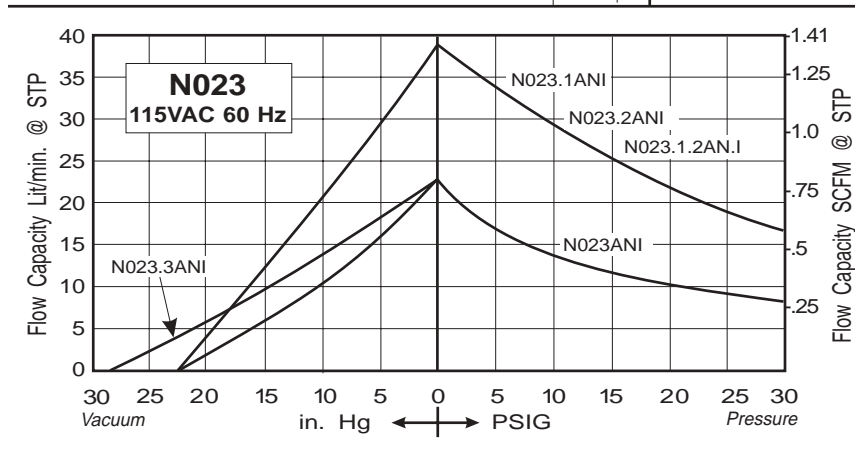
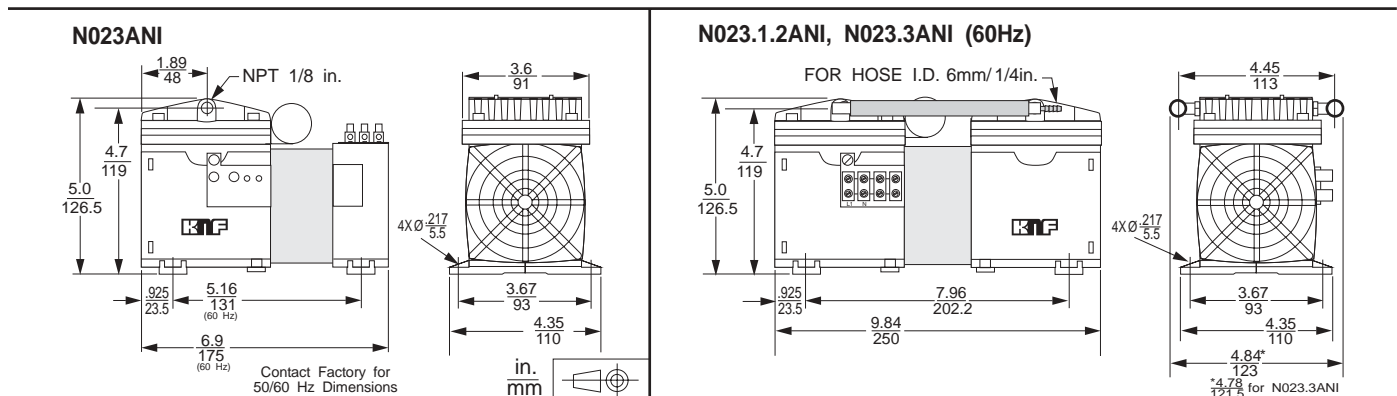
## Materials of Construction

Materials Code	Head/Clamping Disk	Diaphragm	Valves
AN	Aluminum	Neoprene	Viton®

Notes: Standard continuous performance ratings are based on technical data and test results of nominal units at sea level with an ambient temperature of 70° F (21° C) and nominal electrical supply are listed above. Dimensions and performance characteristics given are for reference only. Higher performance models, cost efficient OEM modifications, a wide variety of options and different materials of construction are available. Viton® is a registered trademark of DuPont Dow. Specifications subject to change without notice.

Accessories: Hose Connectors, Noise & Dust Filters

## Performance Characteristics/Outline Dimensions:



## KNF NEUBERGER, INC.

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