N 024 SERIES | TEMPERATURE-RESISTANT AND HEATED GAS SAMPLING PUMPS

N 024 ST.11 E

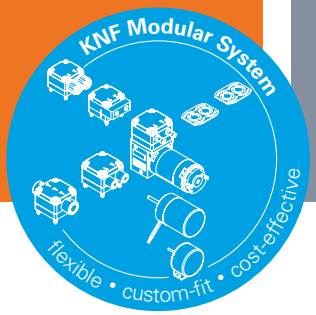
ADVANTAGES

- Temperature-resistant (.16) or electrically heated with thermostatic temperature control (.11) for gases up to 240 °C / 460 °F
- High chemical resistance
- Available with or without insulation cover assembly
- Homogeneous temperature distribution throughout the entire pump head
- Prevents condensation in the pump head
- HazLoc versions available

POSSIBLE AREAS OF USE

- Environmental monitoring – especially motor test benches in automobile industry
- Analytical technology
- Research

Please visit our website
www.knf.com
to get more information



PERFORMANCE DATA			
Series model	**N 024**		
Material design	**AT.16 E**	**ST.16 E**	**ST.11 E**
Pump head	Aluminum	316 Stainless steel	
Diaphragm	PTFE		
Valves	PTFE		
Flow rate at atm. pressure (l/min)	18.0		
Ultimate vacuum (mbar abs./inHg)	200/24		
Max. operating pressure (bar g/psig)	1.5/21.8		
Permissible ambient temperature (°C/°F)	5° C to 40° C / 41° F to 104° F		
Permissible media temperature (°C/°F)	5° C to 240° C / 41° F to 460° F		
Weight (kg/lbs)	6.1/13.4	7.3/16.1	
ELECTRICAL DATA			
Voltage (V)	115		
Motor	Capacitor motor		
Motor protection class	IP 54		
Frequency (Hz)	60		
Power P_1 (W)	215		
I_{max} (A)	1.87		

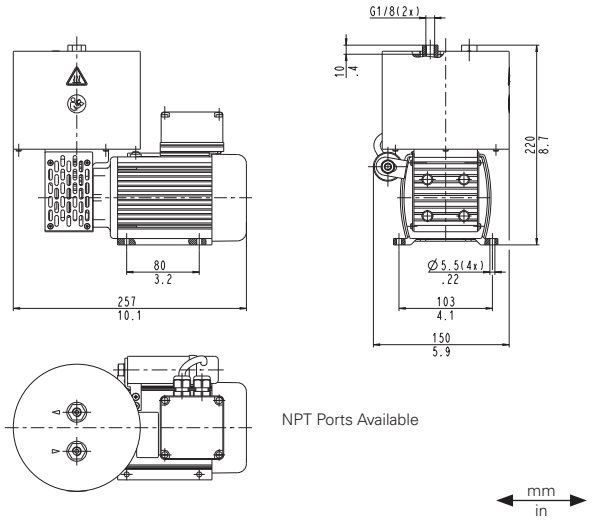
N 024 AT.16 E | ST.16 E

PERFORMANCE DATA

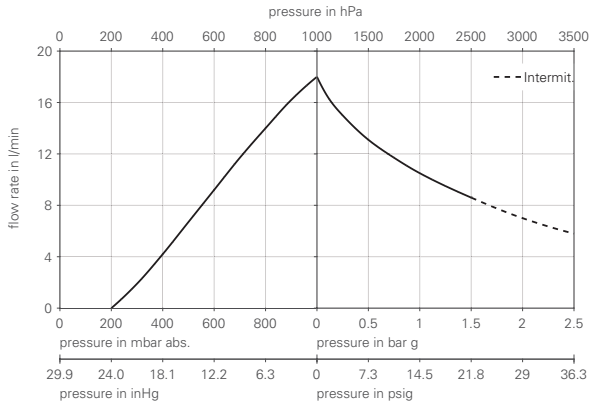
Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./ inHg)
N 024 AT.16 E	18.0	1.5/21.8	200/24
N 024 ST.16 E	18.0	1.5/21.8	200/24

[1] Flow rate determined at 20°C/68°F, 1013 mbar abs.

N 024 _T.16 E



N 024 _T.16 E



N 024 ST.11 E

PERFORMANCE DATA

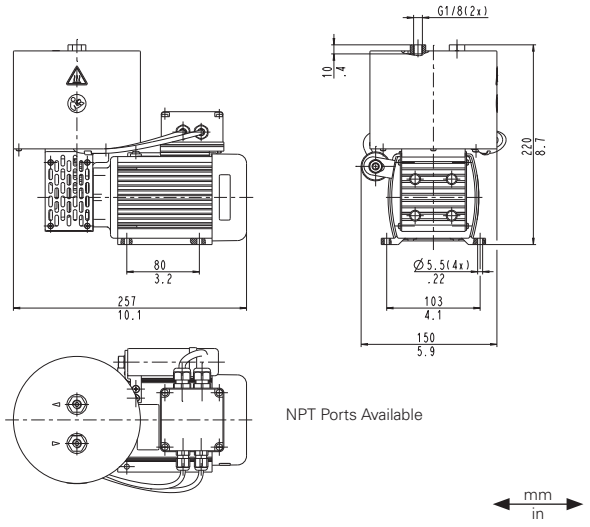
Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./ inHg)
N 024 ST.11 E	18.0	1.5/21.8	200/24

[1] Flow rate determined at 20°C/68°F, 1013 mbar abs.

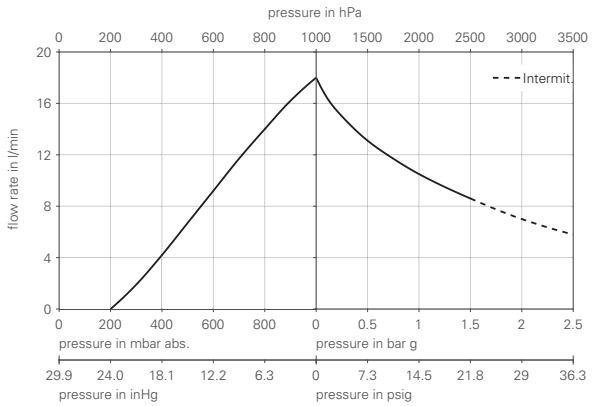
HEATING: N 024 ST.11 E

Protection class	IP 20
Voltage/Frequencies (V/Hz)	115/60
Power P_1 (W)	250
I_{max} (A)	2.4
Heating temperature (°C/°F)	240/460

N 024 ST.11 E



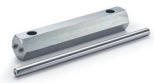
N 024 ST.11 E



OPTIONS

Description	Illustration	Part No.	Details

ACCESSORIES

Description	Illustration	Part No.	Details
Wrench for retainer plate		018812	

SPARE PARTS

Description	Illustration	Part No.	Details
Valve plate		049733	requires 2 qty
Wave diaphragm 3-ply		051337	requires 1 qty
O-ring		055675	requires 2 qty
Full repair kit (valve plate, diaphragm, O-ring)		203987	contains all necessary spare parts in one package
Disc spring		056020	optional for replacement only optional for replacement only (original qty = 24)

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply.
Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained In these instructions should be noted KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.

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