N 036.0 SERIES
TEMPERATURE-RESISTANT GAS SAMPLING PUMPS

Double-headed N 036.0 ST.16 E

ADVANTAGES

- Temperature-resistant for transferring hot process gases up to 240 °C
- High chemical resistance
- Homogeneous temperature distribution throughout the entire pump head
- No condensation in the pump head

POSSIBLE AREAS OF USE

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

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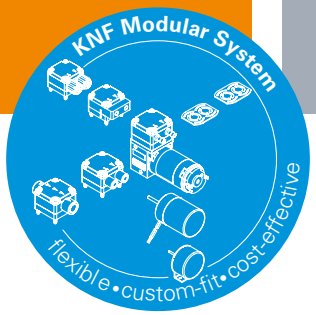
www.knf.com
to get more information



PERFORMANCE DATA		
Series model	**N 036.0**	
Material design	**AT.16 E**	**ST.16 E**
Pump head	Aluminum	Stainless steel
Diaphragm	PTFE	
Valves	PTFE	
Flow rate at atm. pressure (l/min)	30.0 per pump head	
Ultimate vacuum (mbar abs.)	200	
Max. operating pressure (bar rel./psig)	1.5/21.8	
Permissible ambient temperature (°C)	+10 ... +40	
Permissible media temperature (°C)	+5 ... +240	
Weight (kg/lbs)	18.2/40.1	22.2/48.9
ELECTRICAL DATA		
Voltage (V)	230	
Motor	Capacitor motor	
Protection class motor	IP 54	
Frequencies (Hz)	50/60	
Power P_1 (W)	300	
I_{max} (A)	2.00	

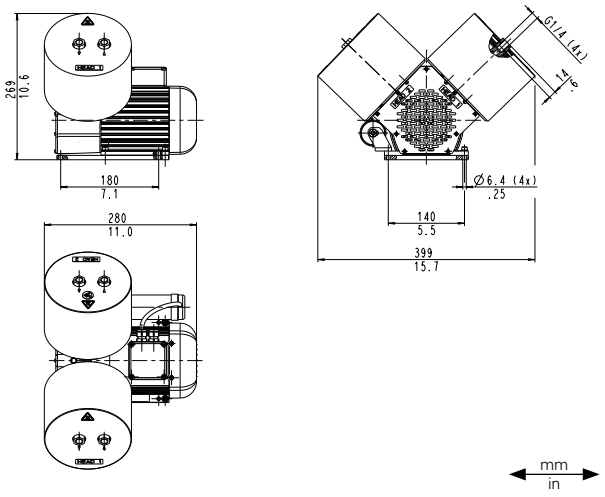
N 036.0 AT.16 E | ST.16 E

PERFORMANCE DATA

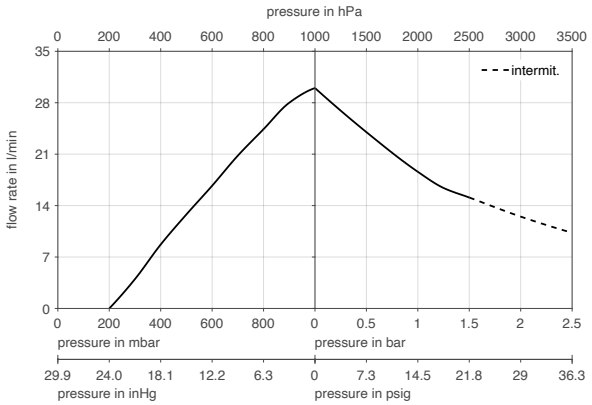
Series model	Flow rate at atm. pressure (l/min)[1)]	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 036.0 AT.16 E	30.0 per pump head	1.5/21.8	200
N 036.0 ST.16 E	30.0 per pump head	1.5/21.8	200

[1)]Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

N 036.0 _T.16 E



N 036.0 _T.16 E | FLOW RATE PER PUMP HEAD



OPTIONS

Description	Illustration	Details
Customized head connectors		The height of the remote pump head can be adapted to the customer's system according to the project. NPT1/8 fittings and various other fittings are optional.
Flanged version		This configuration has been designed for installation on a heated analyzer cabinet. The pump is mounted by a flange on the outside of the cabinet housing. The pump head then protrudes into the hot area. The area between the pump head and the compressor housing can be insulated.
Brushless DC motor		Controllable, brushless DC motors are available as an option. They can be used for the dynamic adjustment of pumping capacity to the customer's system and for the custom-fit calibration of the pumping capacity.
ATEX		Pumps for explosion-proof areas are available with the following certificates on request: ATEX, IECEx, KOSHA, PESO, NEPSI.

ACCESSORIES

Description	Illustration	Part No.
Wrench for retainer plate		018812

SPARE PARTS

Description	Illustration	Part No.	Details
Spare parts kit N 036.0		349118	Spare parts kit consists of: 2x diaphragm (3-fold), 4x valve plate, 4x O-rings, 96x disk spring. This set is required to maintain the pump.

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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