

N 1400 SERIES PROCESS VACUUM PUMPS AND COMPRESSORS



ADVANTAGES

- Twofold safety: The combination of a working diaphragm and an additional safety diaphragm prevents gas from escaping in the event of a fracture (.12)
- The robust design will hold up to challenging operating conditions
- High pressure up to 6 bar rel./87 psig

 High level of gas tightness Following leakage rates are available:

 $.9 \le < 6 \times 10^{3}$ mbar l/s SP.13 $\le < 6 \times 10^{-6}$ mbar l/s ST.13 $\le < 6 \times 10^{-5}$ mbar l/s SP.12 $\le < 6 \times 10^{-6}$ mbar l/s

POSSIBLE AREAS OF USE

- Energy technology especially in nuclear facilities
- Chemical industry
- Process industry

Modular

Research and development

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

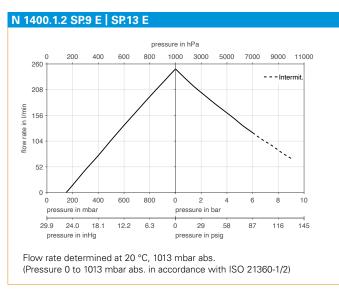


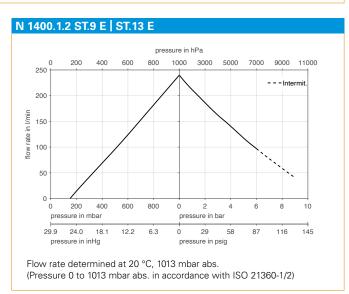
N 1400.1.2 SP.9 E | SP.13 E | ST.9 E | ST.13 E

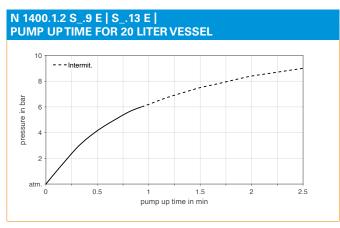
PERFORMANCE DATA					
Series model	Flow rate at atm. pressure (I/min)	Max. operat- ing pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)		
N 1400.1.2 SP.9 E	250.0 ± 10 %	6.0/87.0	150		
N 1400.1.2 SP.13 E	250.0 ± 10 %	6.0/87.0	150		
N 1400.1.2 ST.9 E	240.0 ± 10 %	6.0/87.0	150		
N 1400.1.2 ST.13 E	240.0 ± 10 %	6.0/87.0	150		

Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)





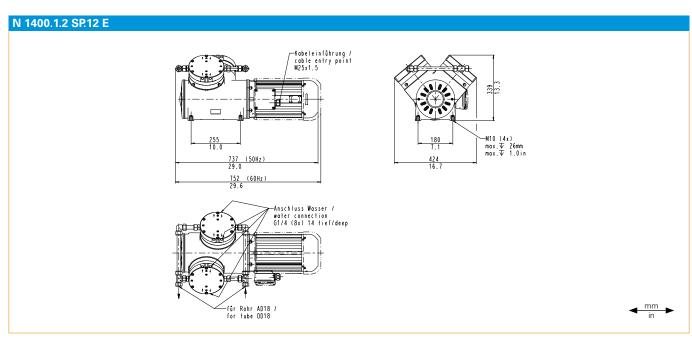


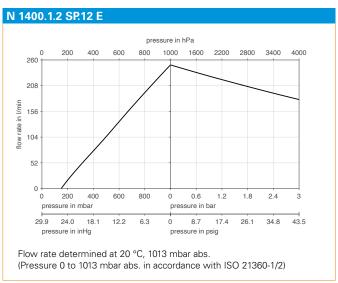
N 1400.1.2 SP.12 E

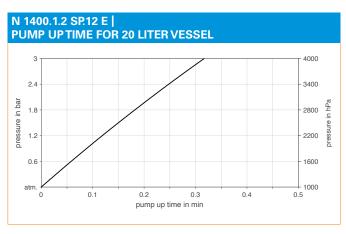
PERFORMANCE DATA					
Series model	Flow rate at atm. pressure (I/min)	Max. operat- ing pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)		
N 1400.1.2 SP.12 E	250.0 ± 10 %	3.0/43.5	150		

Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)







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Description	Illustration	Details			
Mechanical adjustment of pumping capacity	FLOW	The pumping capacity can be adjusted at the factory to accommodate inlet pressure and for accurate alignment with the customer's system			
Versions for special gases	CORROSION RESISTANT	Adjustment of the pump head for use with highly corrosive gases, for example with certain ozone or chlorine concentrations. Options include Hastelloy or PTFE pump head components or SilcoTek™ coating			
Cleaned contact material parts	***************************************	For the use of the pump with gases with high oxygen concentrations the parts that come into contact with the medium can be cleaned using a certified process			
Special coating	+++++++++++++++++++++++++++++++++++++++	Special coatings for high corrosion protection (C4) for use in industrial areas and coastal areas with moderate salinity, such as maritime applications			
Certified head components		The components that come into contact with the medium are available with material certificates			
Ex-proof pumps	Ex	Pumps for explosion-proof areas are available with the following certificates on request: IEC Ex, NEC Ex, KOSHA, PESO, NEPSI, JIS			

SPARE PARTS	
Description	Part No.
Spare parts kit N 1400.1.2 SP.9 E	315482
Spare parts kit N 1400.1.2 SP.13 E	313336
Spare parts kit N 1400.1.2 ST.9 E	315484
Spare parts kit N 1400.1.2 ST.13 E	315485
Spare parts kit N 1400.1.2 SP.12 E	315483

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.

