

N 0150.3 SERIES PROCESS VACUUM PUMPS



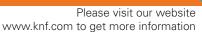
ADVANTAGES

- Additional containment diaphragm Leakage per model type: escaping even in the event of a

PTFE .12/.13 \leq 1 x 10⁻⁵ mbar abs. I/s

POSSIBLE AREAS OF USE

- Precious gas and solvent
- Rapid evacuation
- Research and development

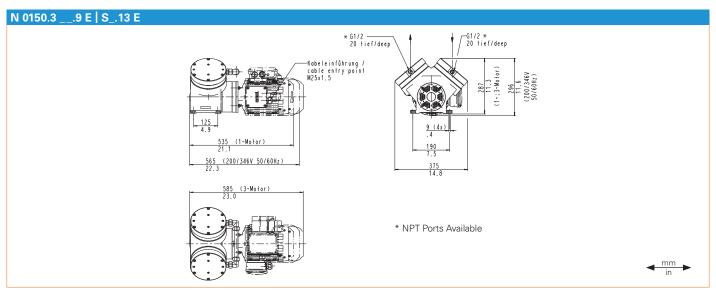


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PERFORMANCE DATA									
Series model	N 0150.3								
Material design	AP9 E		SP.9 E	SP.13 E	ST.9 E	ST.13 E	SP.12 E		
Pump head	Aluminu	ım	Stainless steel			,			
Diaphragm	EPDM				PTFE-coated		EPDM	EPDM	
Valves	Stainles	s steel							
Flow rate at atm. pressure (I/min)	150.0 ± 10 %				120.0 ± 10 %		150.0 ±	150.0 ± 10 %	
Ultimate vacuum (mbar abs./inHg)	25/29.2			30/29.0		25/29.2	25/29.2		
Max. operating pressure (bar g/psig)	0.5/7.3	0.5/7.3							
Permissible ambient temperature (°C/°F)	5° C to	5° C to 40° C / 41° F to 104° F							
Permissible media temperature (°C/°F)	5° C to	5° C to 40° C / 41° F to 104° F							
ELECTRICAL DATA									
Weight (kg/lbs)	41.5/ 91.3	46.5/ 102.3		3.5/ 17.7		8.5/ 28.7	58.5/ 128.7	63.5/ 139.7	
Voltage (V)	115	230/ 400	1	15		230/ 400	115	230/ 400	
Motor	Capac-	Three-	Capacit	or motor	Three-pl	nase motor	Capac-	Three-	
	itor motor	phase					itor	phase	
Motor protection class	IP 55	1110101					motor	motor	
Frequency (Hz)	60								
Power P ₁ (kW)	1.5	1.4		1.5		1.4	1.5	1.4	
I _{max} (A)	7.80	6.10/		80	(6.1/ 3.5	7.80	6.10/	

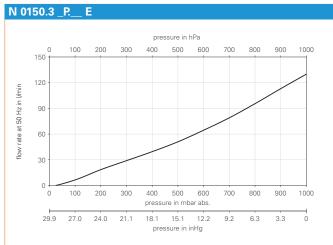
N 0150.3 AP.9 E | SP.9 E | SP.13 E | ST.9 E | ST.13 E

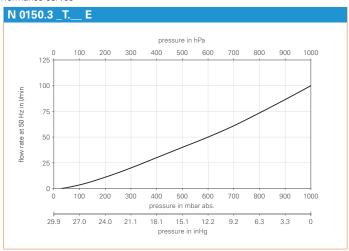
PERFORMANCE DATA					
Series model	Flow rate at atm. pressure (I/min) ¹	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./ inHg)		
N 0150.3 AP.9 E	150.0 ± 10 %	0.5/7.3	25/26.3		
N 0150.3 SP.9 E	150.0 ± 10 %	0.5/7.3	25/26.3		
N 0150.3 SP.13 E	150.0 ± 10 %	0.5/7.3	25/26.3		
N 0150.3 ST.9 E	120.0 ± 10 %	0.5/7.3	30/26.1		
N 0150.3 ST.13 E	120.0 ± 10 %	0.5/7.3	30/26.1		

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

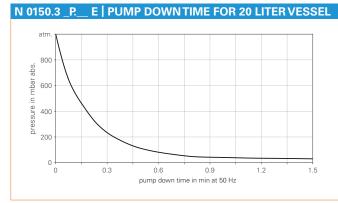


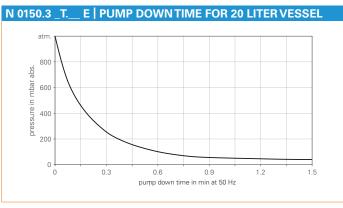
Flow rate on 60Hz versions will be \sim 20% higher than shown in the following 50Hz performance curves





Pump down times on 60Hz version will be ~ 20% less than shown in the following 50Hz version curve

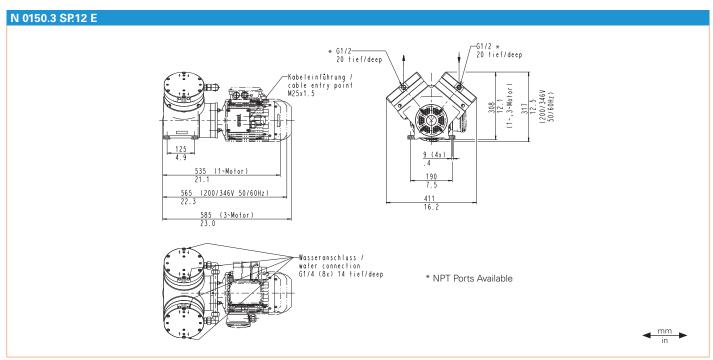




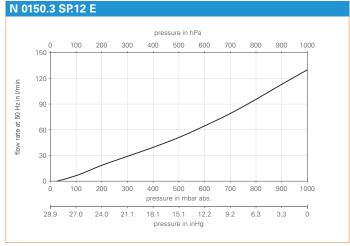
N 0150.3 SP.12 E

PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min) ¹	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./ inHg)	
N 0150.3 SP.12 E	150.0 ± 10 %	0.5/7.3	25/29.1	

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



Flow rate on 60Hz versions will be ~ 20% higher than shown in the following 50Hz performance curves



Pump down times on 60Hz version will be \sim 20% less than shown in the following 50Hz version curve



Description	Illustration	Part No.	Details		
ACCESSORIES					
Description	Illustration	Part No.	Details		
Base plate with shock mounts		304463			
Base plate with shock mounts N 0150.3 SP.12 E		304476			
Connection water cooling (only in combination with stainless steel pump heads)					

306765

306766 128753

026056

Description	Illustration	Part No.	Details
N 0150.3 _P.9 E SP.13 E	'	'	
Diaphragm		047013	requires 2
Reed valve for suction side		043951	requires 2
Reed valve for pressure side		043949	requires 2
O-ring D55x3.0 EPDM		047016	requires 4
O-ring (.13 only) D150x3.0 EPDM		047372	requires 2
O-ring (.13 only) D34x3.0 EPDM		047373	requires 2
Full repair kit (valve plate, diaphragm, O-ring)		315473	contains all necessary spare parts in one package
Full repair kit with screws (valve plate, diaphragm, O-ring)		315474	contains all necessary spare parts in one package
N 0150.3 ST.9 E ST.13 E			
Diaphragm		116991	requires 2
Reed valve for suction side		043951	requires 2
Reed valve for pressure side		043949	requires 2
O-ring D55x3.0 FPM		002458	requires 4
O-ring (.13 only) D150x3.0 FPM		002461	requires 2
O-ring (.13 only) D34x3.0 FPM		045499	requires 2
Full repair kit (valve plate, diaphragm, O-ring)		315476	contains all necessary spare parts in one package
Full repair kit with screws (valve plate, diaphragm, O-ring)		315477	contains all necessary spare parts in one package
N 0150.3 SP.12 E			
Working diaphragm		047013	requires 2
Safety diaphragm		047379	requires 2
Reed valve for suction side		343951	requires 2
Reed valve for pressure side		343949	requires 2
O-ring D55x3.0 EPDM		047016	requires 4
O-ring D150x3.0 EPDM		047372	requires 4
O-ring D34x3.0 EPDM		047373	requires 4
Full repair kit (valve plate, diaphragm, O-ring)		315475	contains all necessary spare parts ir one package

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.

OPTIONS

N 0150.3 S_.9 E | S_.13 E

Wrench for retainer plate O-ring for lock screw (.12)

N 0150.3 SP.12 E

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.

