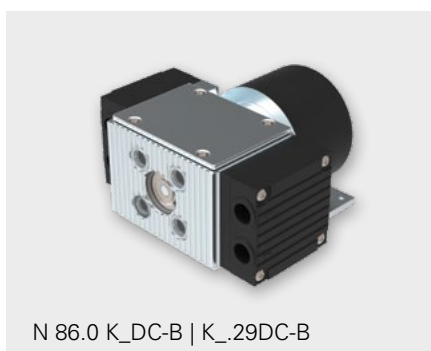


N 86.0 SERIES VACUUM PUMPS AND COMPRESSORS



N 86.0 K_DC



N 86.0 K_DC-B | K_.29DC-B

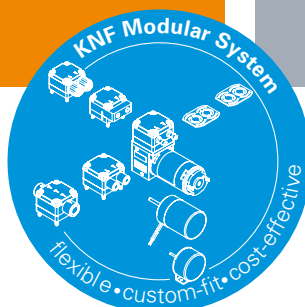
ADVANTAGES

- High chemical resistance
- Robust design
- Copes well with vapor and condensation

POSSIBLE AREAS OF USE

- Stationary emission measurement technology (CEMS)
- Mobile/portable gas measurement technology
- Instrumental analysis
- Medical technology – especially diagnostics

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PERFORMANCE DATA						
Series model	N 86.0					
Material design	KNDC	KTDC	KNDC-B	KN.29DC-B	KTDC-B	KT.29DC-B
Pump head	PPS					
Diaphragm	EPDM	PTFE-coated	EPDM		PTFE-coated	
Valves	FPM	FFPM	FPM		FPM	
Flow rate at atm. pressure (l/min) ¹⁾³⁾ per pump head	6	5.5	5	3.8–5	4.5	2.8–4.5
Ultimate vacuum (mbar abs.) ¹⁾	100	160	100		160	
Max. operating pressure (bar rel./psig) ¹⁾²⁾	0.3/4.35					
Permissible ambient temperature (°C)	+5 ... +40					
Permissible media temperature (°C)	+5 ... +40					
Weight (kg/ lbs)	0.77/1.7		0.65/1.4			
ELECTRICAL DATA						
Voltage (V)	24					
Motor	DC Motor		Brushless DC motor			
Protection class motor	IP 20		IP 30			
Power P _i (W)	18.2		12.8			
I _{max} (A)	0.76		0.54			

¹⁾expanded performance available upon request

²⁾bar rel relative to 1013 hPa

³⁾Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)

N 86.0 KNDC | KTDC

PERFORMANCE DATA

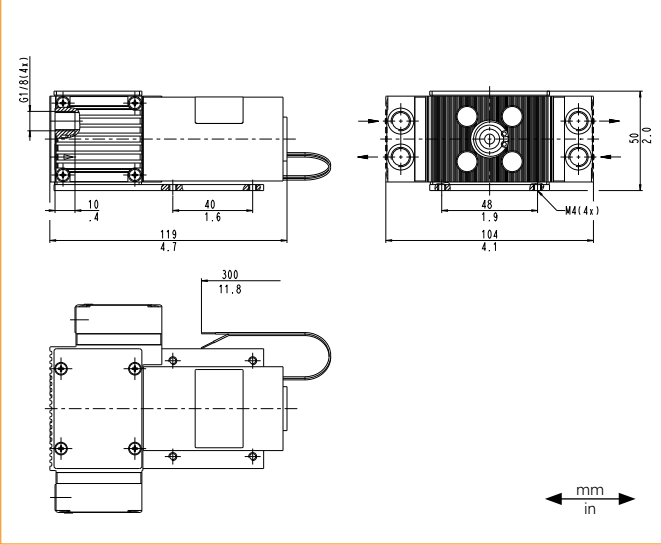
Series model	Flow rate at atm. pressure (l/min) ¹⁾³⁾	Max. operating pressure (bar rel./psig) ¹⁾²⁾	Ultimate vacuum (mbar abs.) ¹⁾
N 86.0 KNDC	6 each pump head	0.3/4.35	100
N 86.0 KTDC	5.5 each pump head	0.3/4.35	160

¹⁾expanded performance available upon request

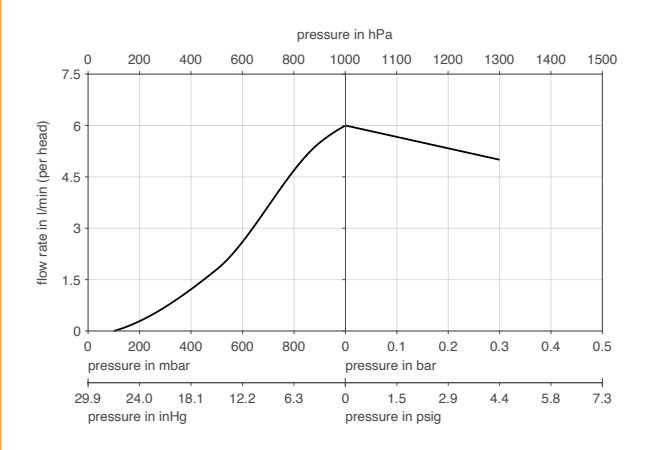
²⁾bar rel relative to 1013 hPa

³⁾Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)

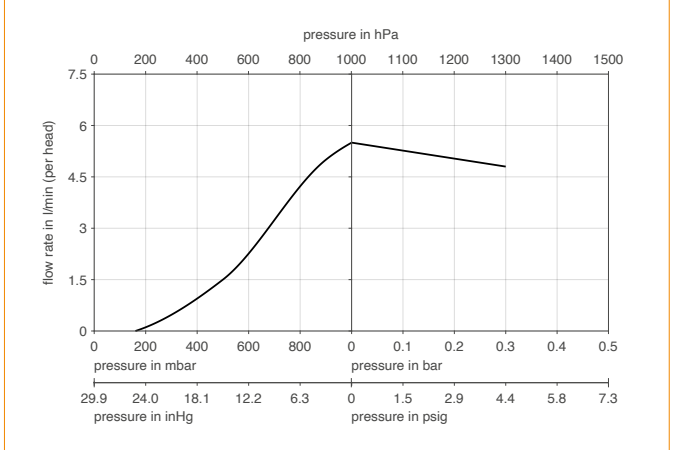
N 86.0 K_DC



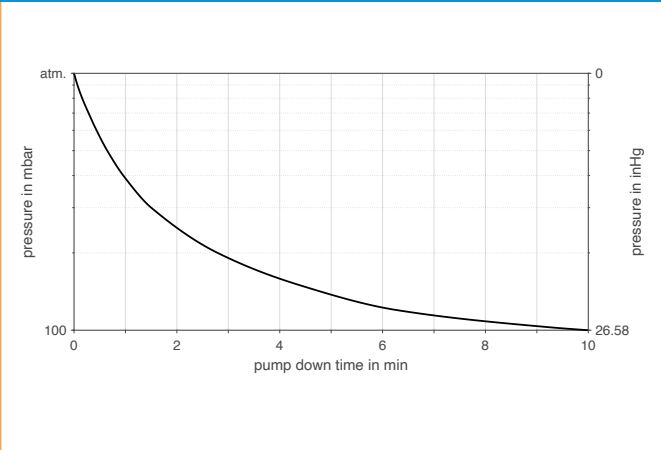
N 86.0 KNDC



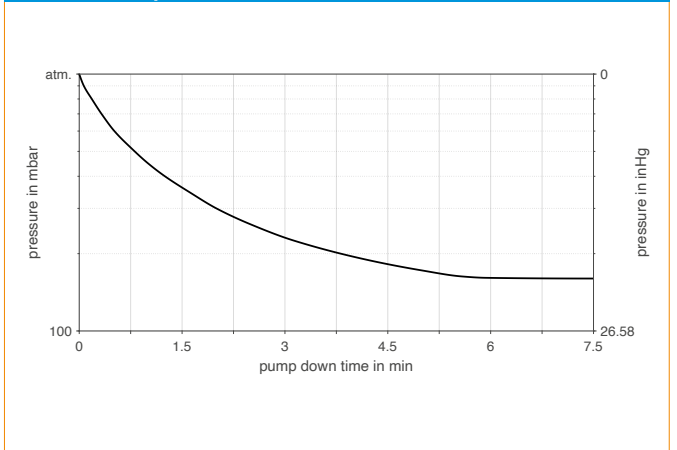
N 86.0 KTDC



N 86.0 KNDC | PUMP DOWN TIME FOR 5 LITER VESSEL



N 86.0 KTDC | PUMP DOWN TIME FOR 5 LITER VESSEL



N 86.0 KNDC-B | KN.29DC-B

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min) ¹⁾³⁾	Max. operating pressure (bar rel./psig) ¹⁾²⁾	Ultimate vacuum (mbar abs.) ¹⁾
N 86.0 KNDC-B	5 each pump head	0.3/4.35	100
N 86.0 KN.29DC-B	3.8–5 each pump head	0.3/4.35	100

¹⁾expanded performance available upon request

²⁾bar rel relative to 1013 hPa

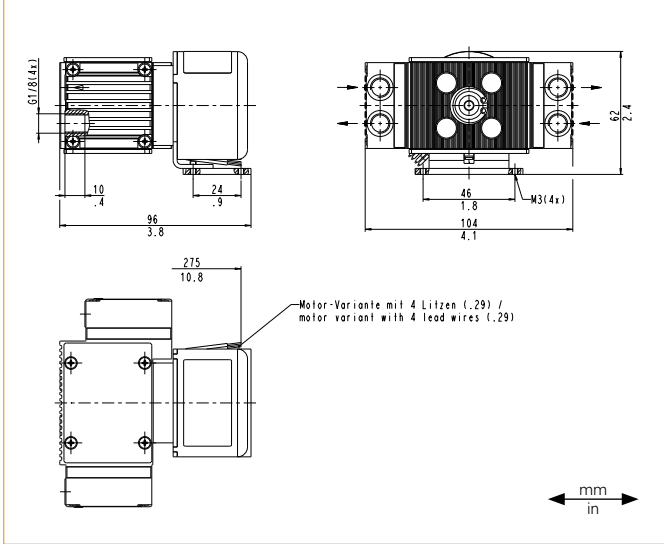
³⁾Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)

N 86.0 KTDC-B | KT.29DC-B

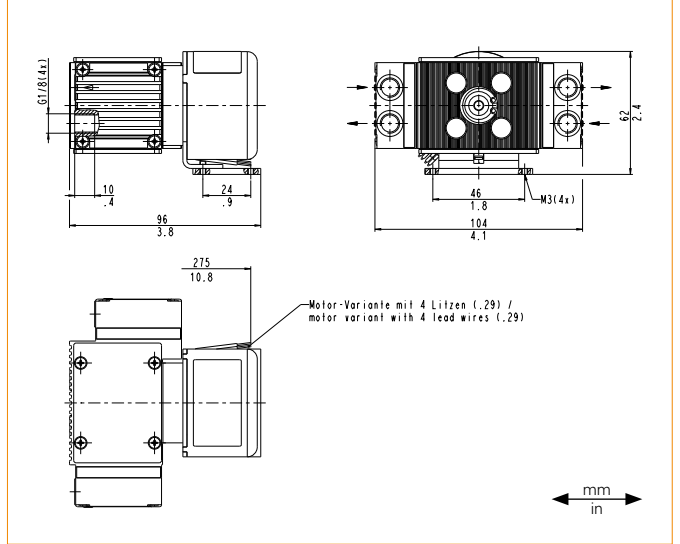
PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min) ¹⁾³⁾	Max. operating pressure (bar rel./psig) ¹⁾²⁾	Ultimate vacuum (mbar abs.) ¹⁾
N 86.0 KTDC-B	4.5 each pump head	0.3/4.35	160
N 86.0 KT.29DC-B	2.8–4.5 each pump head	0.3/4.35	160

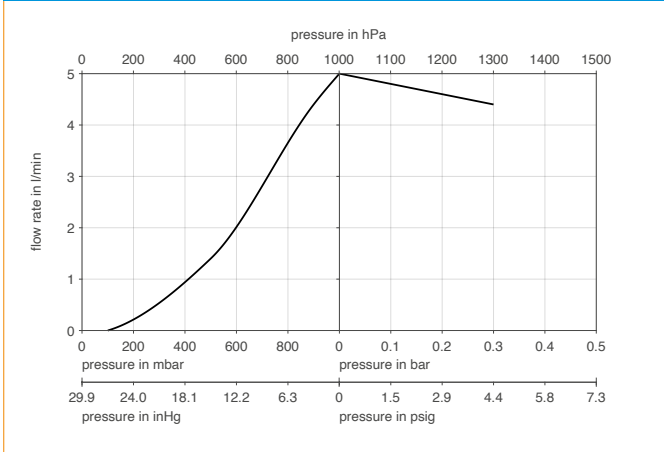
N 86.0 KNDC-B (2 wire) | KN.29DC-B (4 wire)



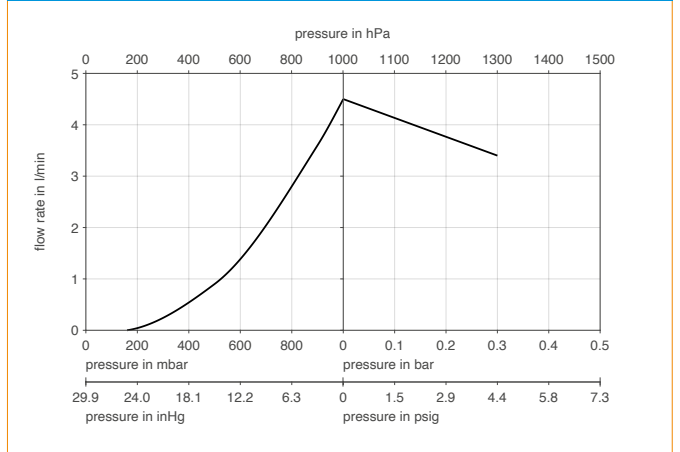
N 86.0 KTDC-B (2 wire) | KT.29DC-B (4 wire)



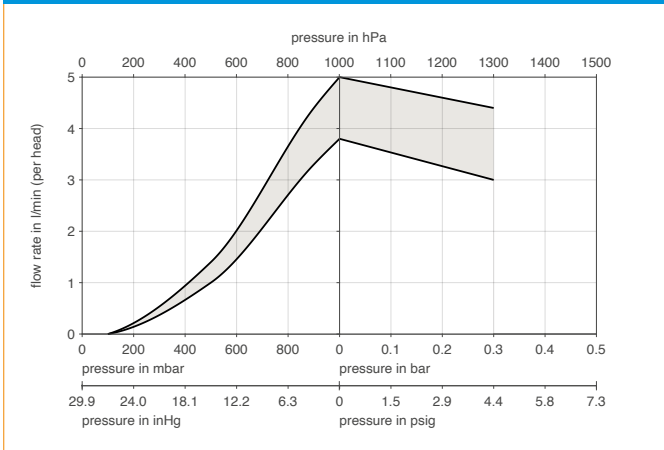
N 86.0 KNDC-B



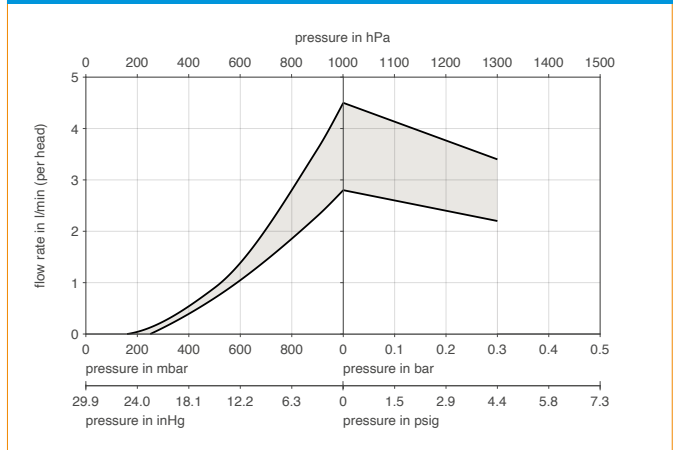
N 86.0 KTDC-B



N 86.0 KN.29DC-B

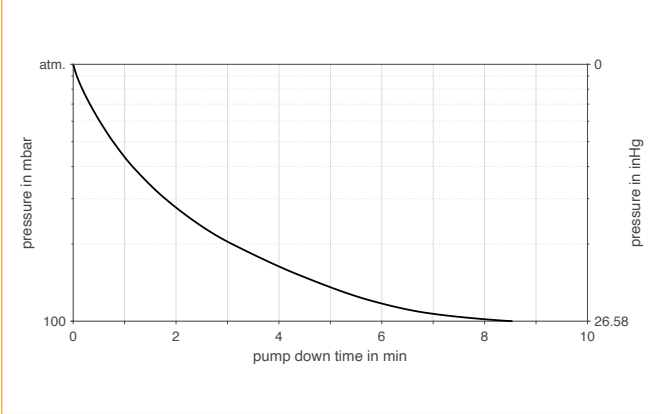


N 86.0 KT.29DC-B



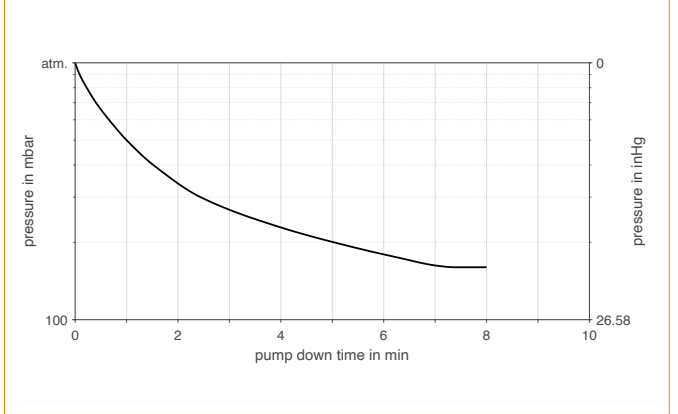
N 86.0 KNDC-B | KN.29DC-B

N 86.0 KNDC-B | KN.29DC-B PUMP DOWN TIME FOR 5 LITER VESSEL



N 86.0 KTDC-B | KT.29DC-B



N 86.0 KTDC-B | KT.29DC-B PUMP DOWN TIME FOR 5 LITER VESSEL



ACCESSORIES

Description	Illustration	Part No.	Details
Silencer		000345	D16x41, G1/8
Inlet filter		000346	G1/8
Hose connector		001936	PA, R1/8
Hose connector		025671	PVDF, G1/8

ERSATZTEILE

Description	Illustration	Part No.	Details
Spare parts kit N 86 KN_		342831	Spare parts kit consists of: 2x structured diaphragm 4x valve This set is required to maintain the pump.
Spare parts kit N 86 KT_		342832	Spare parts kit consists of: 2x structured diaphragm 4x valve 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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