

# Diaphragm Pumps for Air, Gases and Vapours

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**KNF** NEUBERGER



With fine control valve and vacuum gauge

## LABOPOINT® Mini Diaphragm Vacuum Pumps

### Technical features:

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Version for slightly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- High level of gas tightness.

### Series LABOPOINT® N 816.3 K\_.18 Pumps

Series N 816.3 diaphragm pumps are double-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump down without contamination.

The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

The pumps are available in various versions differing in the materials which contact the media.

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 816.3 KN.18	PPS	EPDM	EPDM
N 816.3 KN.45.18	PPS	EPDM	EPDM
N 816.3 KT.18	PPS	PTFE-coated	FFPM
N 816.3 KT.45.18	PPS	PTFE-coated	FFPM

.45 = Pump with fine control valve and vacuum gauge

Technical data:	N 816.3 KN.18	N 816.3 KT.18
	N 816.3 KN.45.18	N 816.3 KT.45.18
Delivery (l/min) <sup>1)</sup>	16	16
Ultimate vacuum (mbar abs.)	15	20
Operating pressure (bar g)	0.5	0.5
Connectors for tube (mm)	ID 6	ID 6
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 20	IP 20
Power P <sub>1</sub>	100 W	100 W
Operating current	0.6 A	0.6 A
Weight	3.95 kg	3.95 kg
Dimensions LxHxW (mm)	361/141/90	361/141/90
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

<sup>1)</sup> at atm. pressure

### Accessories and spare parts

Description	Details	Order No.
Silencer	G 1/8	000345
Hose connector	G 1/8, PVDF, AD 6 mm	014052
Fine control valve with vacuum gauge	suction side	056547
Spares kit	for N 816 KN	056315
Spares kit	for N 816 KT	056316

# Diaphragm Pumps for Air, Gases and Vapours

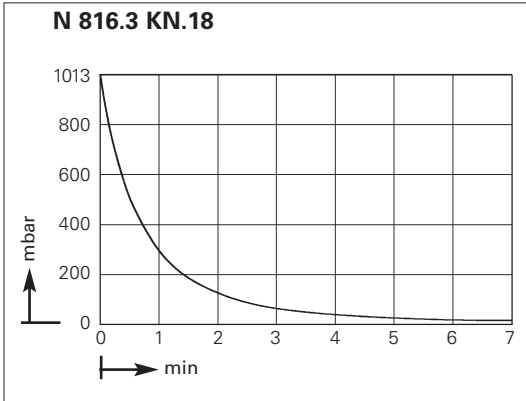
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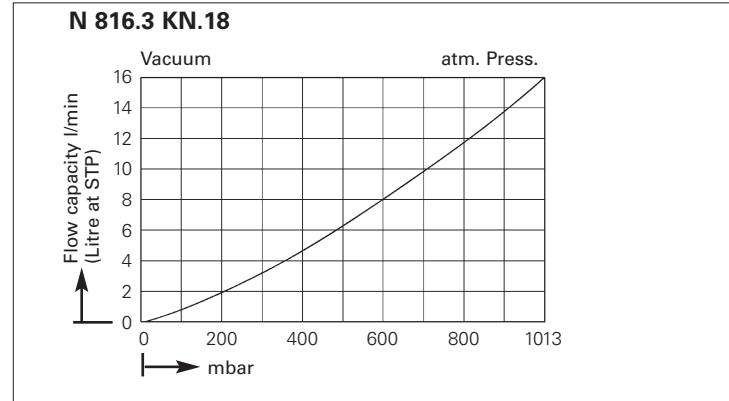


## Dimensions and performance characteristics

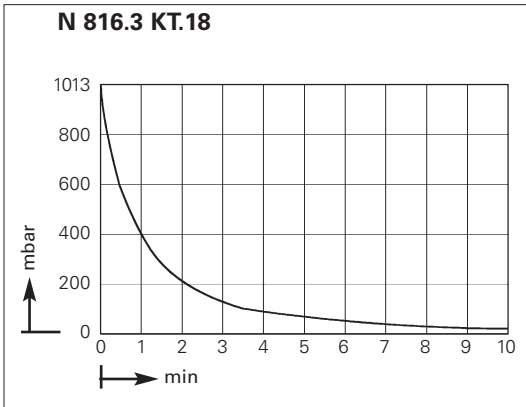
Pump down time for 10 l receiver



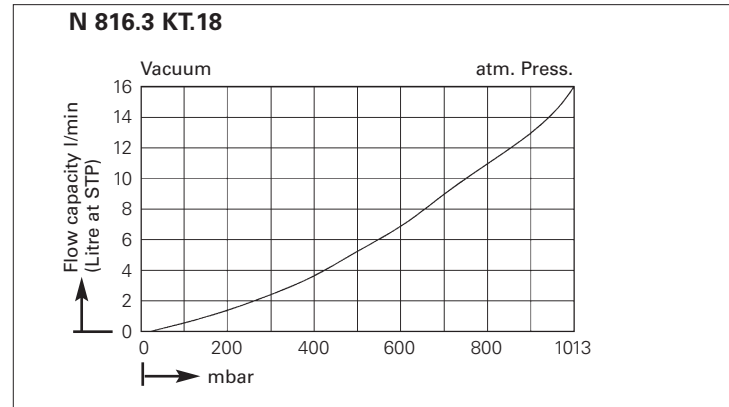
Performance characteristics



Pump down time for 10 l receiver



Performance characteristics



## Dimensions (mm)

