



## Diaphragm Pumps for Air, Gases and Vapours



With fine control valve and vacuum gauge (.45)

### LABOPOINT® Mini Diaphragm Vacuum Pumps

#### Technical features:

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

### Series LABOPOINT® N 816.1.2 K\_.18 Pumps

Series N 816.1.2 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/Order No.	Pump head	Diaphragm	Valves
N 816.1.2 KN.18	PPS	EPDM	EPDM
N 816.1.2 KN.45.18	PPS	EPDM	EPDM
N 816.1.2 KT.18	PPS	PTFE-coated	FFPM
N 816.1.2 KT.45.18	PPS	PTFE-coated	FFPM

.45 = Pump with fine control valve and vacuum gauge

#### Technical data:

	N 816.1.2 KN.18 N 816.1.2 KN.45.18	N 816.1.2 KT.18 N 816.1.2 KT.45.18
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Delivery (l/min) <sup>1)</sup>	30	30
Ultimate vacuum (mbar abs.)	100	160
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)	361/141/102	361/141/102
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

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

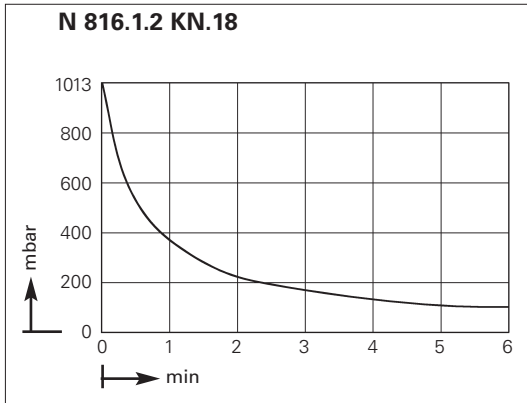
### Accessories and spare parts

Description	Details	Order No.
Fine control valve with vacuum gauge	suction side	056547
Spares kit	for N 816.1.2 KN	056315
Spares kit	for N 816.1.2 KT	056316

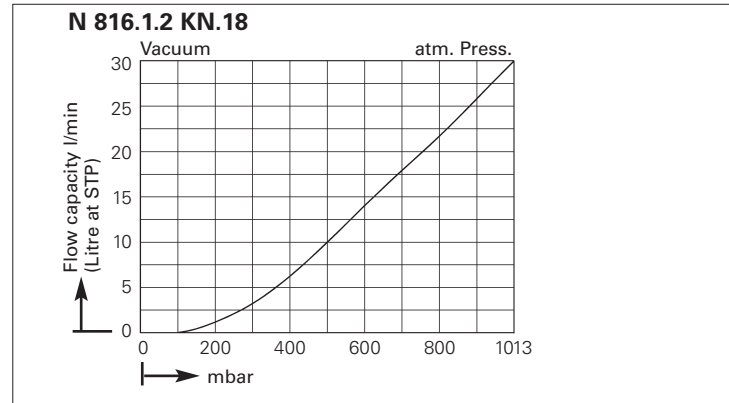


## Dimensions and performance characteristics

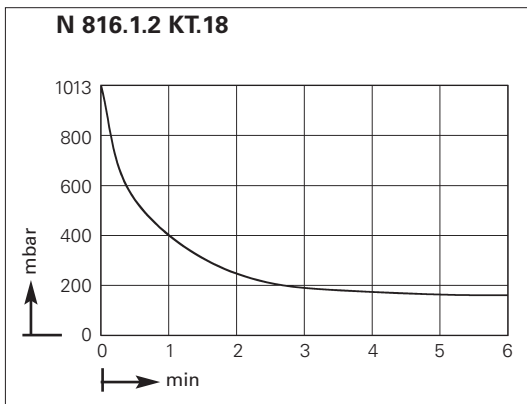
Pump down time for 20 l receiver



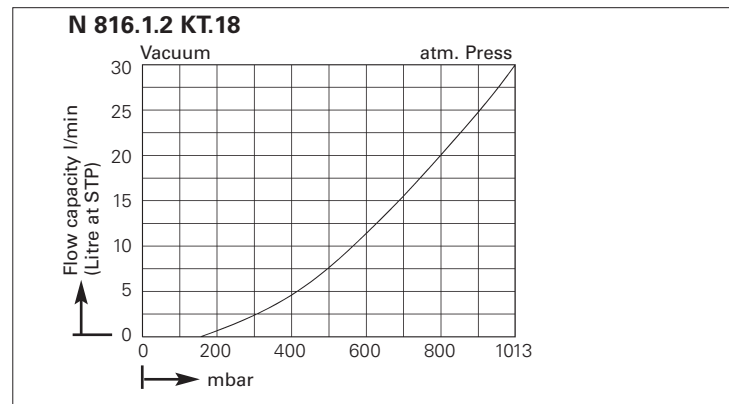
Performance



Pump down time for 20 l receiver



Performance



### Dimensions (mm)

