



LABOPORT® Mini Diaphragm Vacuum Pumps

Technical features:

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

Filtration Series LABOPORT® N816.3KNP, N816.3KTP Pumps

Series N816.3 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/Order No.	Pump head	Diaphragm	Valves
N 816.3 KNP	PPS	EPDM	EPDM
N 816.3 KN.45P	PPS	EPDM	EPDM
N 816.3 KTP	PPS	PTFE-coated	FFPM
N 816.3 KT.45P	PPS	PTFE-coated	FFPM

.45 = fine control valve/vacuum gauge. Pressure gauge available.

Technical data:

	N 816.3 KNP N 816.3 KN.45P	N 816.3 KTP N 816.3 KT.45P
Delivery (l/min) ¹⁾	16	16
Ultimate vacuum (Torr)	11.3	15
Operating pressure (psig)	7.4	7.4
Connectors for tube (in.)	ID 1/4	ID 1/4
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	115V/60Hz	115V/60Hz
Motor protection	IP 20	IP 20
Power P ₁	100 W	100 W
Operating current	1.2 A	1.2 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.

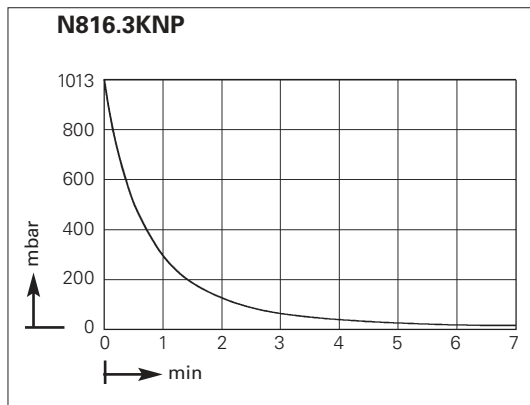
¹⁾ at atm. pressure

Accessories and spare parts

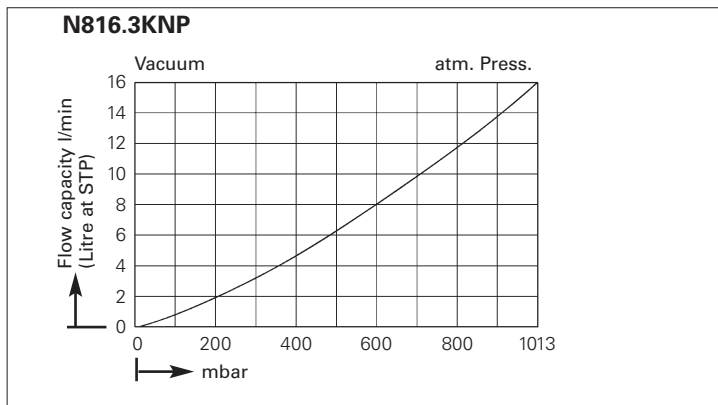
Description	Details	Order No.
Silencer	G 1/8	000345
Hose connector	G 1/8, PVDF, for tube ID 6 mm	014052
Fine control valve with vacuum gauge	suction side	056547
Spare kit	for N 816.3 KN	056315
Spare kit	for N 816.3 KT	056316

Dimensions and performance characteristics

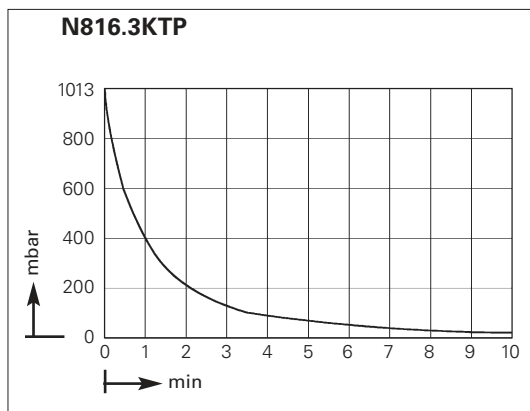
Pump down time for 10 L receiver



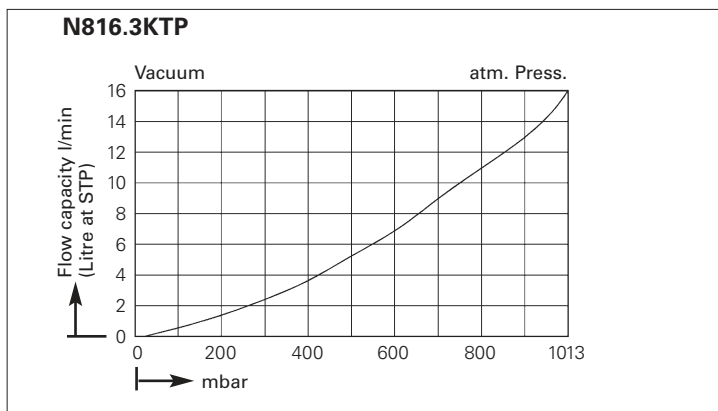
Performance characteristics



Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

