



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 KT45P		
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
Spares kit	for N 816.3 KN	056315
Spares 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 I receiver



N816.3KNP atm. Press. Vacuum 16 Flow capacity l/min (Litre at STP) 14 12 10 8 6 4 2 0 0 200 400 600 800 1013 - mbar

Performance characteristics



Dimensions (mm)



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