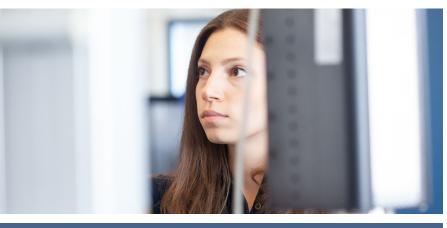
VACUUBRAND®



The professional connection

With matching connection parts for your vacuum pump clearly arranged according to typical applications and laboratory equipment.

www.vacuubrand.com



The professional connection



VACUUBRAND products can be easily used for various applications with laboratory equipment from all well-known manufacturers. All you need to connect our pumps are the right connectors. The selection of the connection parts

depends on the type of application and the vacuum connection of your laboratory device. With the help of this brochure you can quickly and easily find out which connection parts you need for your application.

Note: Connections should be checked again in the event of technical changes to the laboratory equipment. **Version:** 05/2021

Trademark-Index

VACUU·LAN® (US-Reg.No 3,704,401), VACUU·BUS®, VACUU·CONTROL®, VACUU·SELECT® (US-Reg.No 5,522,260), VARIO® (US-Reg.No 3,833,788), VACUUBRAND® (US-Reg.No 3,733,388), VACUU-VIEW®, GREEN VAC® (US-Reg.No. 4,924,553), VACUU·PURE® (US-Reg.No. 5,559,614) and also the shown company logos are registered trademarks of VACUUBRAND GMBH + CO KG in Germany and/or other countries.

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How to find the right connection parts:

- Select your application from the table of contents.
- Look for the VACUUBRAND vacuum pump you are using in the second column.
- Look for the type / size of the vacuum connection or brand and type of your laboratory device in the first column.
- In the third column, read off the corresponding connection parts required.

Example using freeze drying as an application:

* Third-party trademarks depicted or reproduced herein are the property of their respective trademark owners.

	m connection of eeze dryer*	VACUUBRAND vacuum pump	Required connection parts from VACUUBRAND + order number	
2 KF	Martin Christ Equipment type: Alpha Beta Gamma Delta Epsilon	RZ 2.5 RZ 6 RC 6	1x Clamping ring KF DN 20/25, aluminium 20	20686040 20660001 20660191
DN 25	Zirbus Equipment type: VaCo Serie Büchi Equipment type: Lyovapor	RZ 9 VACUU-PURE 10C	1x Clamping ring KF DN 20/25, aluminium 20	20686041 20660001 20660191

Find the right vacuum pump

Diaphragm pumps

Most chemical applications take place in the rough vacuum range (down to 1 mbar). For such processes, diaphragm pumps are always the best choice. Diaphragm pumps run oil-free, do not consume any water and therefore do not generate either waste water or waste oil. This pump technology is also available in a chemically resistant version. At VACUUBRAND all wetted parts of chemical diaphragm pumps are made of fluoroplastics with excellent chemical resistance. The reliability, durability and ease of maintenance of the chemistry diaphragm pump make it an ideal choice for the chemical laboratory.



Rotary vane pumps and chemistry-HYBRID pumps

However, for some applications a vacuum of 1 mbar is not sufficient. Freeze drying or Schlenk lines, for example, require a pressure in the fine vacuum range (down to 10-3 mbar). Due to the technology used, diaphragm pumps reach their limits here. For this reason, rotary vane or chemistry-HYBRID pumps are often used, which can achieve an ultimate vacuum of 2 x 10⁻³ mbar. A disadvantage compared to the diaphragm pump is the need to use oil for lubrication and sealing, which can disrupt sensitive processes and has to be changed regularly. In addition, rotary vane pumps are not available in a chemical-resistant version. Many parts are made of metal and can corrode if they come into contact with chemicals. In addition, the oil can degrade. In such cases, for better protection against corrosion, VACUUBRAND offers the chemistry-HYBRID pump. This consists of a rotary vane pump combined with a chemical-resistant diaphragm pump that permanently evacuates the oil chamber during the process and thus frees it from corrosive vapors and condensates.



Screw pumps

VACUU·PURE® is ideal for clean processes and pure products in the vacuum range down to 10⁻³ mbar.

A dry and hydrocarbon-free vacuum is indispensable for many applications such as in ultrahigh vacuum systems. As a dry fore vacuum pump for turbomolecular pumps, VACUU·PURE® offers a deep ultimate vacuum that was previously unreachable with oil-free technologies.

Drying processes, manipulation of oxygen- or moisture-sensitive compounds, distillations, and even coating processes can be run with the dry screw pump without downtime for maintenance. Common applications include freeze drying and Schlenk line. VACUU·PURE® can be operated continuously at higher pressures so that in drying processes, both the primary drying and subsequent residual drying steps can be performed with a single pump.

VACUU·PURE® easily handles high vapor loads through its high condensate compatibility. A gas ballast is therefore not

necessary. The associated disadvantages such as decline of the ultimate vacuum and increased noise levels are thus avoided. The integrated regeneration mode enables rapid drying of the pump after the end of the process and thus the sample throughput can be significantly increased, as compared to other pump technologies.

The chemically resistant version VACUU·PURE® 10C is especially designed for pumping aggressive gases and vapors. The operation of a cold trap is unnecessary in the majority of applications.





Find the right vacuum pump

Mounting parts

Modern diaphragm pumping units have a so-called "condensate separator" (AK) at the pump inlet, which protects the pump from entrained condensate droplets and solid particles. In addition, an "emission condenser" (EK) on the exhaust side protects from solvent emissions and enables their efficient recovery.

Due to the lower chemical resistance of rotary vane pumps, it may be necessary to install a cold trap in order to catch corrosive chemicals and condensates before they enter the pump inlet. To protect the health of laboratory personnel, oil mist filters are often used at the pipe exhaust, which prevents indoor air pollution with oil vapors.



Vacuum control

A system with vacuum control is recommended for applications in which it is necessary to maintain certain pressure values or process conditions.

VACUUBRAND uses the VACUU-SELECT® vacuum controller for this. The vacuum control can be achieved in two ways. Switching an electromagnetic valve in the suction line works regardless of the vacuum source. With this classic two-point control method, the vacuum is regulated by opening and closing an electromagnetic valve, thus maintaining the pressure range between the two valve switching points. In contrast, adaptive speed control is very precise. However, this process only works in combination with a VARIO® diaphragm pump. The precise VARIO® control offers the advantage of maximum process efficiency, shorter process times as well as reproducible process control and results. In addition, the pump does not run at full capacity all of the time, but only as fast as necessary. This results in significant energy savings, reduced wear and tear and lower noise emissions.



There is also an "automatic evaporation" option available for evaporation processes. With just one push of a button, the controller automatically finds the boiling pressure and adjusts it continuously throughout the evaporation process. The process is carried out fully automatically and in the shortest possible time, without the need for constant monitoring and manual intervention.



How to find the right vacuum pump

The choice of the right vacuum pump depends very much on the application and the type and amount of media used. To make your choice easier, VACUUBRAND has developed a Vacuum Pump Selection Guide. With only a few details about your application this online tool helps to focus in on the suitable products, which you can then easily compare at a glance. Test it yourself at:

www.vacuubrand.com/vpsg

Of course, we would also be happy to advise you personally. You can find the right contact person for your region at: www.vacuubrand.com/contact



www.vacuubrand.com/vpsg

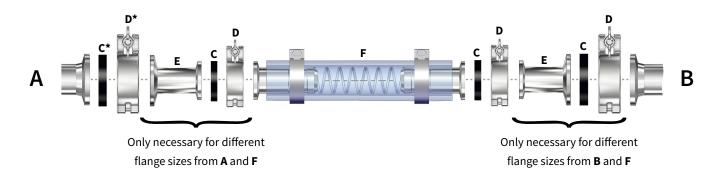
Note: In many applications it is necessary to connect the outlet of the vacuum pump to an exhaust system. This prevents, for example, the pumped media and chemicals from getting into the ambient air. A suitable exhaust hose must be selected for this. Make sure that the exhaust hose is of the correct dimensions to ensure that no back pressure can build up. Please also pay careful attention to the corresponding information in the operating instructions for the vacuum pump. If you cannot find a suitable exhaust hose, we will be happy to advise you.

Freeze-drying

Vacuum connection of		VACUUBRAND	Required connection parts** from			
	eze dryer*	vacuum pump		JBRAND + order number		
			1x	PVC vacuum tubing angulated KF DN 16/25	20686040	
			1x	Reducing piece KF DN 25/16, aluminium	20669041	
		RZ 2.5	1x	Clamping ring KF DN 20/25, aluminium	20660001	
		RZ 6 RC 6	1x	External centring ring KF DN 20/25, PBT/NBR	20660191	
			1x	Clamping ring KF DN 10/16, aluminium	20660000	
KF	Labogene		1x	External centring ring KF DN 10/16, PBT/NBR	20660190	
DN 16	Equipment type: Coolsafe Serie		1x	PVC vacuum tubing angulated KF DN 25/25	20686041	
			1x	Clamping ring KF DN 20/25, aluminium	20660001	
		RZ 9	1x	External centring ring KF DN 20/25, PBT/NBR	20660191	
		VACUU-PURE 10C	1x	Clamping ring KF DN 10/16, aluminium	20660000	
			1x	External centring ring KF DN 10/16, PBT/NBR	20660190	
			1x	Reducing piece KF DN 25/16, aluminium	20669041	
	Martin Christ Equipment type:		1x	PVC vacuum tubing angulated KF 16/25	20686040	
	Alpha Beta Gamma Delta	RZ 2.5 RZ 6	1x	Clamping ring KF DN 20/25, aluminium	20660001	
		RC 6	1x	External centring ring KF DN 20/25, PBT/NBR	20660191	
KF DN 25	Epsilon					
DN 23	Zirbus Equipment type: VaCo Serie		1x	PVC vacuum tubing angulated KF DN 25/25	20686041	
	Büchi	RZ 9 VACUU·PURE 10C	1x	Clamping ring KF DN 20/25, aluminium	20660001	
	Equipment type: Lyovapor	VACOUT ONE ISC	1x	External centring ring KF DN 20/25, PBT/NBR	20660191	
			1x	Vacuum hose DN 20	20638872	
Hose		RZ 2.5 RZ 6	2x	Hose clip DN 20	20686050	
connec- tion	Labconco Equipment type:	RC 6	1x	Hose nipple KF DN 16 / DN 19	20662531	
/ SW DN 19	FreeZone VirTis					
	Equipment type: BenchTop AdVantage		1x	Vacuum hose DN 20	20638872	
		RZ 9 VACUU·PURE 10C	2x	Hose clip DN 20	20686050	
		VACOU-PURE IUC	1x	Hose nipple KF DN 25 / DN 20	20662532	
Is	your equipment				Contact us:	
	not included?			Tel.:+49 9342 808-5550 E-Mail: info@vacu	ubrand.com	

Connection examples

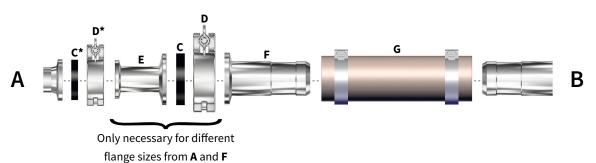
Freeze dryers with small flange vacuum connection



- A = Pump inlet with small flange connection
- B = Small flange connection of the freeze dryer
- C = External centring ring
- D = Clamping ring

- E = Reducing piece
- F = Vacuum tubing made of PVC with internal reinforcement
- * Connection parts are included in the delivery of the pump

Freeze dryers with hose nipple vacuum connection



- A = Pump inlet with small flange connection
- B = Hose nipple connection of the freeze dryer
- C = External centring ring
- D = Clamping ring

- E = Reducing piece
- F = Hose nipple
- G = Vacuum hose
- * Connection parts are included in the delivery of the pump

Vacuum pumps



RZ 2.5Rotary vane pump 2.3 m³/h, 2 x 10³ mbar Vacuum connection: Small flange DN 16



RZ 6 Rotary vane pump 5.7 m³/h, 2 x 10⁻³ mbar Vacuum connection: Small flange DN 16



RC 6
Chemistry-HYBRID pump
5.9 m³/h, 2 x 10³ mbar
Vacuum connection:
Small flange DN 16



RZ 9Rotary vane pump
8.9 m³/h, 2 x 10³ mbar
Vacuum connection:
Small flange DN 25



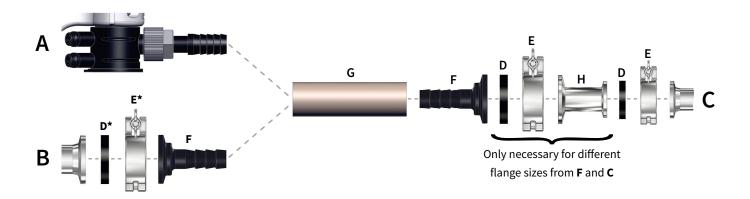
VACUU-PURE 10C Screw pump 9 m³/h, 5 x 10⁻³ mbar Vacuum connection: Small flange DN 25

Vacuum drying oven

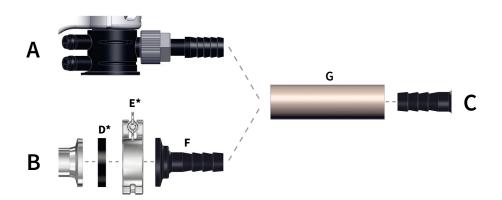
	m connection of cuum drying oven*	VACUUBRAND vacuum pump	Required connection parts** from VACUUBRAND + order number			
Binder Equipment type: VD-Series VDL-Series Memmert Equipment type: VO Serie MMM Med-Center Equipment type: Vacucell-Series Salvislab Renggli Equipment type: Vacucenter	Equipment type: VD-Series VDL-Series	Equipment type: VD-Series VDL-Series	MZ 2C NT +AK +EK MD 4C NT +AK +EK PC 3003 VARIO select	1x 1x 1x 1x	Vacuum hose DN 8, rubber Clamping ring KF DN 10/16, aluminium External centring ring KF DN 10/16, PBT/NBR KF DN 16 with SW DN 10, PP	20686001 20660000 20660190 20662806
	MD 12C NT +AK +EK VACUU·PURE 10C	1x 1x 1x 1x 1x 1x	PVC vacuum tubing angulated KF 25/25 Clamping ring KF DN 25, aluminium Clamping ring KF DN 10/16, aluminium External centring ring KF DN 10/16, PBT/NBR External centring ring KF DN 20/25, PBT/NBR Reducing piece KF DN 25/16, aluminium	20686041 20660001 20660000 20660190 20660191 20669041		
KF DN 25		MZ 2C NT +AK +EK MD 4C NT +AK +EK PC 3003 VARIO select	1x 1x 1x 1x	Vacuum hose DN 8, rubber Clamping ring KF DN 20/25, aluminium External centring ring KF DN 20/25, PBT/NBR KF DN 25 with SW DN 10, PP	20686001 20660001 20660191 20662807	
VT 6025 VT 6060 VT 6130	VT 6060	MD 12C NT +AK +EK VACUU-PURE 10C	1x 1x 1x	PVC vacuum tubing angulated KF 25/25 Clamping ring KF DN 20/25, aluminium External centring ring KF DN 20/25, PBT/NBR	20686041 20660001 20660191	
Hose connec- tion	onnec- Sheldon	MZ 2C NT +AK +EK MD 4C NT +AK +EK PC 3003 VARIO select	1x	Vacuum hose DN 8, rubber	20686001	
DN 10		MD 12C NT +AK +EK VACUU-PURE 10C	1x 1x	Vacuum hose DN 10, rubber KF DN 25 with SW DN 10, PP	20686002 20662807	
-	our equipment not included?			Tel.:+49 9342 808-5550 E-Mail: info@va	Contact us: cuubrand.com	

Connection examples

Vacuum drying ovens with small flange vacuum connection



Vacuum drying ovens with hose nozzle vacuum connection



- A = Pump inlet with hose nozzle connection
- B = Pump inlet with small flange connection
- C = Small flange connection of the vacuum drying oven
- D = External centring ring
- E = Clamping ring
- F = Small flange with hose nozzle
- G = Vacuum hose
- H = Reducing piece
- * Connection parts are included in the delivery of the pump

Vacuum pumps



MZ 2C NT +AK +EK Chemistry diaphragm pump

2.0 m3/h, 7 mbar Vacuum connection: Hose nozzle DN 8-10



MD 4C NT +AK +EK

Chemistry diaphragm pump 3.4 m3/h, 1.5 mbar Vacuum connection:

Hose nozzle DN 8-10



PC 3003 VARIO select

Chemistry diaphragm pump

2.8 m3/h, 0.6 mbar Vacuum connection: Hose nozzle DN 8-10



MD 12C NT +AK +EK

Chemistry diaphragm pump 12.0 m3/h, 2 mbar

12.0 m3/h, 2 mbar Vacuum connection: Small flange DN 25 / Hose nozzle DN 15



VACUU-PURE 10C

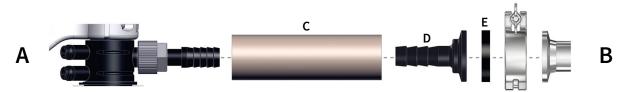
Screw pump 9 m3/h, 5 x 10-3 mbar Vacuum connection: Small flange DN 25

Vacuum concentrator

	n connection of cuum concentrator*	VACUUBRAND vacuum pump		ed connection parts** from BRAND + order number	
KF	Martin Christ Equipment type: RVC 2-Series Labogene	MZ 2C NT +AK +EK MD 4C NT +AK +EK	1x 1x	Clamping ring KF DN 10/16, aluminium External centring ring KF DN 10/16, PBT/	20660000 /NBR 20660190
DN 16	MiniVac Alpha	Equipment type: MiniVac Alpha MiniVac Beta MaxiVac Alpha PC 3001 VARIO select 1x		KF DN 16 with SW DN 10, PP Vacuum hose DN 8, rubber	20662806 20686001
SW	Eppendorf Equipment type:	MZ 2C NT +AK +EK MD 4C NT +AK +EK		Vacuum hose DN 8, rubber	20686001
	Concentrator plus	PC 3001 VARIO select	<u> </u>		2000002
SW DN 12	Labconco Equipment type:	MZ 2C NT +AK +EK MD 4C NT +AK +EK	1x	Vacuum hose DN 10, rubber	20686002
DN 12	CentriVap-Serie	PC 3001 VARIO select			
Hose	SP Scientific / Genevac Equipment type:	MZ 2C NT +AK +EK MD 4C NT +AK +EK			
tion DN 13	tion EZ-2	1x	Vacuum hose DN 10, rubber	20686002	
ls	your equipment not included?			Tel.:+49 9342 808-5550	Contact us:

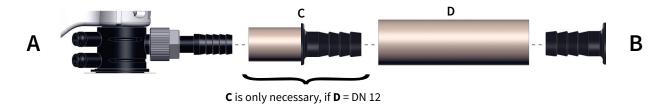
Connection examples

Vacuum concentrators with small flange vacuum connection



- A = Pump inlet with hose nozzle connection
- B = Small flange connection of the vacuum concentrator
- C = Vacuum hose
- D = Small flange with hose nozzle
- E = External centring ring
- F = Clamping ring

Vacuum concentrators with hose nozzle vacuum connection



- A = Pump inlet with hose nozzle connection
- B = Hose nozzle connection of the vacuum concentrator
- C = Adapter SW DN 10 to SW DN 12
- D = Vacuum hose

Vacuum pumps



MZ 2C NT +AK +EK
Chemistry diaphragm pump
2.0 m³/h, 7 mbar
Vacuum connection:
Hose nozzle DN 8-10



MD 4C NT +AK +EK
Chemistry diaphragm pump
3.4 m³/h, 1.5 mbar
Vacuum connection:
Hose nozzle DN 8-10



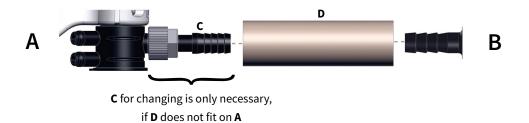
PC 3001 VARIO select Chemistry diaphragm pump 2.0 m³/h, 2.0 mbar Vacuum connection: Hose nozzle DN 6-10

Rotary evaporator

		ired connection parts** from UBRAND + order number			
SW	Eyela Equipment type:	MZ 2C NT +AK +EK MD 1C +AK +EK PC 510/520 select PC 3003/3004 VARIO select	1x 1x	Vacuum hose DN 6, rubber SW DN 6/10 with tube 10/8mm	20686000 20636635
DN 6	DN 6 Equipment type: N-1200	PC 3001 VARIO select VACUU·LAN components	1x	Vacuum hose DN 6, rubber	20686000
	R-100 MD 1C +AK R-300 PC 510/520 se	MZ 2C NT +AK +EK MD 1C +AK +EK PC 510/520 select PC 3003/3004 VARIO select			
SW DN 8	Hei-VAP Value Hei-VAP Value digital Hei-VAP Advantage IKA Equipment type: RV 8 RV 10 digital KNF Equipment type: RC 600 RC 900 Phoenix Instruments Equipment type: RE-100D	PC 3001 VARIO select VACUU·LAN components	1x	Vacuum hose DN 8, rubber	20686001
Is	Dragon Lab Equipment type: RE 100-Pro				Contact us:
	not included?		Te	el.:+49 9342 808-5550 E-Mail: info@va	

Connection example

Rotary evaporator with hose nozzle vacuum connection



- A = Pump inlet with hose nozzle connection
- B = Hose nozzle connection of the rotary evaporator
- C = Hose nozzle for changing
- D = Vacuum hose

Vacuum pumps



MZ 2C NT +AK +EK Chemistry diaphragm pump 2.0 m³/h, 7 mbar

Vacuum connection: Hose nozzle DN 8-10



MD 1C +AK +EK

Chemistry diaphragm pump 1.3 m³/h, 2 mbar Vacuum connection: Hose nozzle DN 8-10



PC 3001 VARIO select

Chemistry diaphragm pump 2.0 m³/h, 2.0 mbar Vacuum connection: Hose nozzle DN 6-10



PC 510 select

Chemistry diaphragm pump 2.0 m³/h, 7 mbar Vacuum connection: Hose nozzle DN 8-10



PC 3003 VARIO select

Chemistry diaphragm pump 2.8 m³/h, 0.6 mbar Vacuum connection: Hose nozzle DN 8-10



VCL-connection

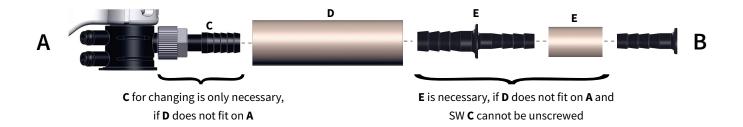
VACUU·LAN components Vacuum connection: Hose nozzle DN 6-10 *Example

Filtration / solid phase extraction (SPE) / nucleic acid purification

	m connection application*	VACUUBRAND vacuum pump	Required connection parts** from VACUUBRAND + order number
SW	Vacuum connection	ME 1	Ju Vanuur haas DNC mikhan
DN 6	DN 6 Hose nozzle DN 6	Hose nozzle DN 6 ME 4C NT + 2AK ME 1C ME 2C NT	- 1x Vacuum hose DN 6, rubber 20686000
SW	Vacuum connection	ME 1	– 1x Vacuum hose DN 8, rubber 20686001
DN 8	DN 8 Hose nozzle DN 8	ME 4C NT + 2AK ME 1C ME 2C NT	1x Vacuum nose prvo, rapper
sw	Vacuum connection	ME 1	– 1x Vacuum hose DN 8, rubber 20686001
DN 10 Hose nozzle DN 10	Hose nozzle DN 10	ME 4C NT + 2AK ME 1C ME 2C NT	TA Vacuum nose bix 6, rubber 20000001
ls	your equipment not included?		Contact us: Tel.:+49 9342 808-5550 E-Mail: info@vacuubrand.com

Connection example

Applications with hose nozzle vacuum connection



A = Pump inlet with hose nozzle connection
B = Hose nozzle connection of the
application equipment

C = Hose nozzle for changing D = Vacuum hose

E = Reducing piece + hose DN 6

Vacuum pumps



ME 1 Diaphragm pump 0.7 m³/h, 100 mbar Vacuum connection: Hose nozzle DN 6-10



ME 1C
Chemistry diaphragm pump
0.7 m³/h, 100 mbar
Vacuum connection:
Hose nozzle DN 8-10
(cannot be unscrewed)



Chemistry diaphragm pump 2.1 m³/h, 70 mbar Vacuum connection: Hose nozzle DN 8-10 (cannot be unscrewed)



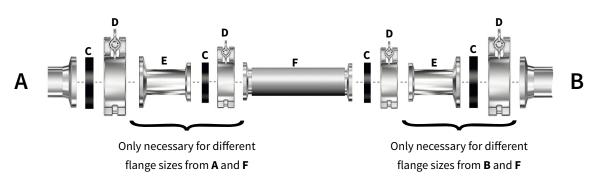
ME 4C NT + 2AK
Chemistry diaphragm pump
3.9 m³/h, 70 mbar
Vacuum connection:
Hose nozzle DN 8-10

Fore vacuum generation for turbomolecular pumps

	m connection of rbomolecular pump*	VACUUBRAND vacuum pump	Required connection parts** from VACUUBRAND + order number	
		MD 4 NT	1x Stainless steel tubing KF DN 16, length 250mm*** 2x Clamping ring KF DN 10/16, aluminium 2x External centring ring KF DN 10/16, PBT/NBR	20673306 20660000 20660190
KF DN 16	Fauinment type:	VACUU-PURE 10	1x Clamping ring KF DN 10/16, aluminium 1x External centring ring KF DN 10/16, PBT/NBR 1x Reducing piece KF DN 25/16, aluminium 2x Clamping ring KF DN 25, aluminium 2x External centring ring KF DN 20/25, PBT/NBR 1x Stainless steel tubing KF DN 25, length 250mm***	20660000 20660190 20669041 20660001 20660191 20673307
		MD 1	1x KF DN 16 hose nozzle DN 6, aluminium 1x Vacuum hose DN 6, rubber 1x Clamping ring KF DN 10/16, aluminium 1x External centring ring KF DN 10/16, PBT/NBR	20662510 20686000 20660000 20660190
KF	Pfeiffer Equipment type: HiPace 10 Edwards	MD 4 NT	1x Stainless steel tubing KF DN 16, length 250mm*** 1x Reducing piece KF DN 25/16, aluminium 2x Clamping ring KF DN 10/16, aluminium 2x External centring ring KF DN 10/16, PBT/NBR 1x Clamping ring KF DN 25, aluminium 1x External centring ring KF DN 20/25, PBT/NBR	20673306 20669041 20660000 20660190 20660001 20660191
DN 25	Fauinment type:	VACUU·PURE 10	1x Stainless steel tubing KF DN 25, length 250mm*** 2x Clamping ring KF DN 25, aluminium 2x External centring ring KF DN 20/25, PBT/NBR	20673307 20660001 20660191
		MD 1	1x KF DN 25 with hose nozzle DN 8, aluminium 1x Vacuum hose DN 6, rubber	20662516 20686000
ls	s your equipment not included?		Cc Tel.:+49 9342 808-5550 E-Mail: info@vacuubi	ontact us: rand.com

Connection example

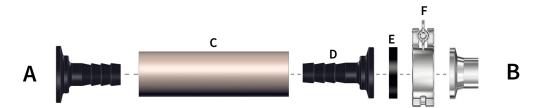
Turbomolecular pumps with small flange vacuum connection



- A = Pump inlet with small flange connection
- B = Small flange connection of the turbomolecular pump
- C = External centring ring

- D = Clamping ring
- E = Reducing piece
- F = Stainless steel tubing

Turbomolecular pumps with hose nozzle vacuum connection



- A = Pump inlet with hose nozzle connection
- B = Small flange connection of the turbomolecular pump
- C = Vacuum hose

- D = Small flange with hose nozzle
- E = External centring ring
- F = Clamping ring

Vacuum pumps



MD 4 NT

Diaphragm pump 3.8 m³/h, 1 mbar Vacuum connection: Small flange DN 16



MD 1

Diaphragm pump 1.2 m³/h, 1.5 mbar Vacuum connection: Hose nozzle DN 6



VACUU-PURE 10

Screw pump 10 m³/h, 5 x 10⁻³ mbar Vacuum connection: Small flange DN 25

Oil-free vacuum for reactors and synthesis applications



PC 3003 VARIO select

Chemistry diaphragm pump 2.8 m³/h, 0.6 mbar Vacuum connection: Hose nozzle DN 8-10



PC 3010 VARIO select

Chemistry diaphragm pump 13.0 m³/h, 0.6 mbar Vacuum connection: Small flange DN 25



VACUU-PURE 10C

Screw pump 9 m³/h, 5 x 10⁻³ mbar Vacuum connection: Small flange DN 25

Fine vacuum distillation



RC 6

Chemistry-HYBRID pump $5.9 \, \text{m}^3/\text{h}, 2 \, \text{x} \, 10^3 \, \text{mbar}$ Vacuum connection: Small flange DN 16



VACUU-PURE 10C

Screw pump 9 m³/h, 5 x 10⁻³ mbar Vacuum connection: Small flange DN 25



Connections are individual and not standardized. Please contact VACUUBRAND: Tel.: +49 9342 808-5550 | E-Mail: info@vacuubrand.com

www.vacuubrand.com/contact

Nomenclature

VACUUBRAND pumps

The names of the VACUUBRAND pumps are intended to provide a first support to the technical design. More detailed information can be found in the technical specifications of the pumps.

M Diaphragm (membrane) pump

The letters E, Z, D, V complete the name of a diaphragm pump and indicate the internal configuration and the ultimate vacuum that can be achieved with it:

E = single stage (attainable ultimate vacuum typical 70 mbar)

Z = two stages (attainable ultimate vacuum typical 7 mbar)

D = three stages (attainable ultimate vacuum typical 1.5 mbar)

V = four stages (attainable ultimate vacuum typical 0.6 mbar) R Rotary vane pump

The letters E, Z complete the name of a rotary vane pump and indicate the internal configuration and the ultimate vacuum that can be achieved with it:

E = single stage (attainable ultimate vacuum typical 10⁻¹ mbar)

Z = two stages (attainable ultimate vacuum typical 10⁻³ mbar)

C Chemistry design, with fluoropolymer flowpath

PC "Pumping Unit, Chemistry" –
a chemistry pump with vacuum control
and solvent recovery

AK Separator catchpot for inlet or outlet condensates, collects particles and droplets, keeps condensate in vacuum line from flowing into the pump, protecting pump performance and providing additional noise reduction on the pressure side

EX Exhaust vapor (emission) condenser for nearly 100 % solvent recovery in compact design, protecting environment and lab air

NT Labels the series of pumps comprising the New Technology

Connection parts

DN Nominal diameter

KF Small flange

SW Hose nozzle

Example:

Overview

Clamping rings and centering rings	Ord. no.
Clamping ring for KF DN 10/16, aluminium	20660000
Clamping ring for KF DN 20/25, aluminium	20660001
Clamping ring for KF DN 10/16, stainless steel	20660010
Clamping ring for KF DN 20/25, stainless steel	20660011
External centring ring for KF DN 10/16 PBT (non-wetted) with sealing ring NBR	20660190
External centring ring for KF DN 20/25 PBT (non-wetted) with sealing ring NBR	20660191
External centring ring for KF DN 10/16 PBT (non-wetted) with sealing ring FPM	20660195
External centring ring for KF DN 20/25 PBT (non-wetted) with sealing ring FPM	20660196
Centring ring aluminium, sealing ring FEP KF DN 10/16	20635065
Centring ring aluminium, sealing ring FEP KF DN 20/25	20635722

Small flanges	Ord. no.
Small flange DN 10 with hose nozzle DN 6, aluminium	20662500
Small flange DN 16 with hose nozzle DN 6, aluminium	20662510
Small flange DN 16 with hose nozzle DN 10, aluminium	20662511
Small flange DN 25 with hose nozzle DN 8, aluminium	20662516
Small flange DN 25 with hose nozzle DN 10, aluminium	20662517
Small flange DN 25 with hose nozzle DN 12, aluminium	20662518
Small flange DN 25 with hose nozzle DN 15, aluminium	20662519
Small flange DN 16 with hose nozzle DN 10, plastic PP	20662806
Small flange DN 25 with hose nozzle DN 10, plastic PP	20662807
Small flange DN 25 with hose nozzle DN 15, plastic PP	20662808
Small flange DN 10 with hose nipple DN 12, aluminium	20662530
Small flange DN 16 with hose nipple DN 19, aluminium	20662531
Small flange DN 25 with hose nipple DN 19-20, aluminium	20662532
Small flange DN 25 with hose nipple DN 25, aluminium	20662533

Overview

Reducing pieces	Ord. no.
Reducing piece with KF DN 25/10, aluminium	20669040
Reducing piece with KF DN 25/16, aluminium	20669041
Reducing piece with KF DN 25/10, stainless steel	20672910
Reducing piece with KF DN 25/16, stainless steel	20672911

Tubing	Ord. no.
Vacuum tubing made of stainless steel KF DN 16, length 250 mm	20673306
Vacuum tubing made of stainless steel KF DN 16, length 500 mm	20673316
Vacuum tubing made of stainless steel KF DN 16, length 750 mm	20673326
Vacuum tubing made of stainless steel KF DN 16, length 1000 mm	20673336
Vacuum tubing made of stainless steel KF DN 25, length 250 mm	20673307
Vacuum tubing made of stainless steel KF DN 25, length 500 mm	20673317
Vacuum tubing made of stainless steel KF DN 25, length 750 mm	20673327
Vacuum tubing made of stainless steel KF DN 25, length 1000 mm	20673337
Vacuum tubing made of PVC with internal spiral KF DN 16, length 1000 mm	20686020
Vacuum tubing made of PVC with internal spiral KF DN 25, length 1000 mm	20686021
Vacuum tubing made of PTFE with KF DN 16, length 1000 mm	20686031
Vacuum tubing made of PTFE with KF DN 25, length 1000 mm	20686033
Vacuum tubing made of rubber DN 6 mm, available per meter	20686000
Vacuum tubing made of rubber DN 8 mm, available per meter	20686001
Vacuum tubing made of rubber DN 10 mm, available per meter	20686002
Vacuum tubing made of rubber DN 15 mm, available per meter	20686003
Vacuum tubing made of rubber DN 20 mm, available per meter	20686005
Vacuum tubing made of PVC with internal spiral KF DN 16/25, 1m	20686040
Vacuum tubing made of PVC with internal spiral KF DN 25/25, 1m	20686041
Adapter hose nozzle DN 10 mm to hose nozzle 1/2" (DN 12 mm)	20636002

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