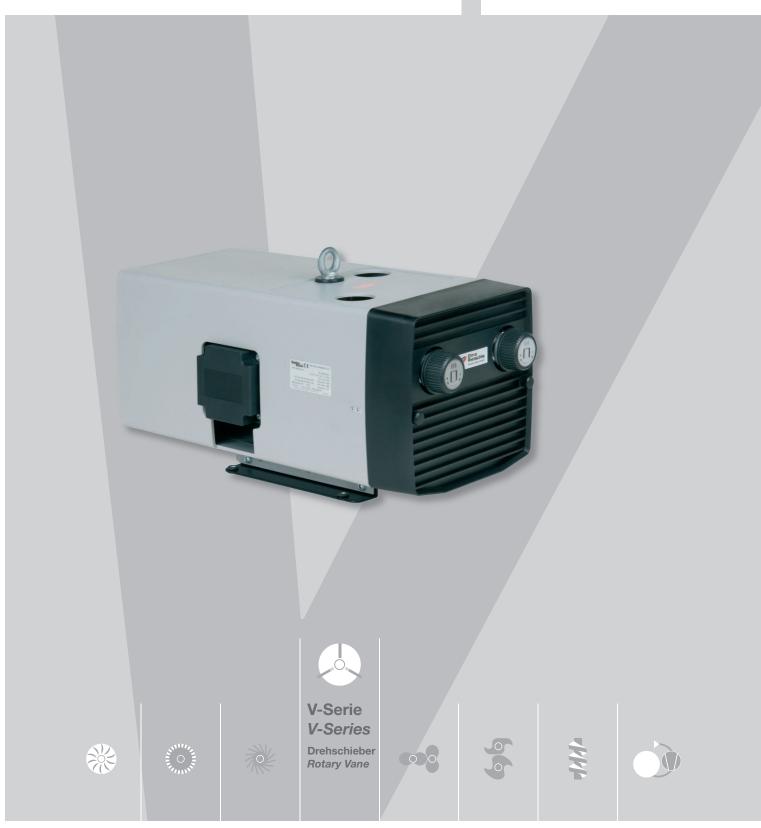
# **Original Operating Instructions** V-KTN

V-KTN 16 | 26 | 41





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# 1 Foreword

1.1 Principles

These operating instructions:

- are a part of the following dry running rotary vane pressure vacuum pumps models V-KTN16, V-KTN26 and V-KTN41.
- describe how to use them safely and properly in all life phases.
- must be available where the equipment is used.

# 1.2 Target group

The target group for these instructions is technically trained specialists.

# 1.3 Supplier documentation and accompanying documents

Document	Contents	No.
	Operating Instructions	BA 481-EN
Supplier documentation	Declaration of Conformit	C 0081-EN
	Declaration of harmlessness	7.7025.003.17
Spare parts' list	Spare parts' document	E 481
Data sheet	Technical data	D 481
Info sheet	Storage guidelines for machines	l 150
Manufacturer's declaration	EU Directive 2002/95/EG (RoHS)	-

### 1.4 Abbreviations

Fig.	Figure		
V-KTN	Pressure vacuum pump		
m³/h	Volume flow compressed/ suction air		
bar	Overpressure/ vacuum		

#### 1.5 Directives, standards, laws

See Conformity Declaration



# 1.6 Symbols and meaning

Symbol	Explanation			
$\triangleright$	Condition, pre-requisite			
####	Instructions, action			
a), b),	Instructions in several steps			
⇒	Results			
[-> 14]	Cross reference with page number			
i	Information, note			
	Safety symbol Warns of potential risk of injury Obey all the safety instructions with this symbol in order to avoid injury and death.			

# 1.7 Technical terms and meaning

Term	Explanation		
Machine	Pump and motor combination ready to be connected		
Motor	Pump drive motor		
Pressure vacuum pump	In combined use the machine may produce a vacuum and excess pres- sure at the same time.		
Rotary vane	Machine's design or active principle		
Volume flow	A pressure vacuum pump's suction air or compressed air.		
Overpressure (pressure)	Difference in pressure compared with atmospheric pressure. The corre- sponding working pressure is greater than the atmospheric pressure.		
Under pressure (vacuum)	Difference in pressure compared with atmospheric pressure. The corre- sponding working pressure is lower than the atmospheric pressure.		
Noise emission	The noise emitted at a specific loading given as a figure, sound pressure level dB(A) as per EN ISO 3744		

# 1.8 Copyright

Passing on or copying this document, using and providing information on its contents are prohibited unless expressly permitted.

# 2 Safety

The manufacturer is not responsible for damage if you do not follow all of this documentation.

#### 2.1 Warning instruction markings

Warning	Danger level	Consequences if not obeyed	
	immediately imminent danger	Death, severe bodily injury	
WARNING	possible imminent danger	Death, severe bodily injury	
	possible hazardous situation	Slight bodily injury	
NOTICE	possible hazardous situation	Material damage	

#### 2.2 General

These operating instructions contain basic instructions for installation, commissioning, maintenance and inspection work which must be obeyed to ensure the safe operation of the machine and prevent physical and material damage.

The safety instructions in all sections must be taken into consideration.

The operating instructions must be read by the responsible technical personnel/ operator before installing and commissioning and must be fully understood. The contents of the operating instructions must always be available on site for the technical personnel/operator. Instructions fixed directly onto the machine must be obeyed and must always remain legible. This applies for example to:

- Symbols for connections
- Data and motor data plate
- Instruction and warning plates

The operator is responsible for observing local regulations.



#### 2.3 Designated use

The machine must only be operated in such areas as are described in the operating instructions:

- only operate the machine in a technically perfect condition
- do not operate the machine when it is only partially assembled
- the machine must only be operated at an ambient temperature and suction temperature of between 5 and 40°C. Please contact us for temperatures outside this range.
- the machine may convey, compress or extract the following media:
  - convey air with a relative humidity of 30 -90%
  - all non-explosive, non-inflammable, non-aggressive and non-poisonous dry gases and gas air mixtures

#### 2.4 Unacceptable operating modes

- extracting, conveying and compressing explosive, inflammable, aggressive or poisonous media, e.g. dust as per ATEX zone 20-22, solvents as well as gaseous oxygen and other oxidants, extremely damp air, water vapour, traces of oil, oil vapour and grease
- using the machine in non-commercial plants if the necessary precautions and protective measures have not been taken in the plant
- installing in environments that are at risk of explosions
- using the machine in areas with ionising radiation
- back pressures on the outlet side of more than +0,1bars
- modifications to the machine and accessories



2.6

#### 2.5 Personal qualifications and training

- Ensure that people entrusted with working on the machine have read and understood these operating instructions before starting work, particularly the safety instructions for installation, commissioning, maintenance and inspection work.
- Manage the responsibilities, competence and monitoring of staff
- all work must only be carried out be technical specialists:
  - Installation, commissioning, maintenance and inspection work
  - Working with electricity
- personnel being trained to work on the machine must be supervised by technical specialists only

#### The following safety regulations apply in addition to the safety instructions and intended use listed in these instructions:

- Accident prevention regulations, safety and operating regulations
- the standards and laws in force
- 2.7 Safety notes for the operator

Safety-conscious work

- hot parts of the machine must not be accessible during operation or must be fitted with a guard
- People must not be endangered by the free extraction or discharge of pumped media
- Risks arising from electrical energy must be eliminated.
- The machine must not be in touch with inflammable substances.
   Danger of fire by hot surfaces, discharge of pumped media or cooling air



#### 2.8 Safety instructions for installing, commissioning and maintenance

- The operator will ensure that any installation, commissioning and maintenance work is carried out by authorised, qualified specialists who have gained sufficient information by an in-depth study of the operating instructions.
- Only work on the machine when it is idle and cannot be switched on again
- Ensure that you follow the procedure for decommissioning the machine described in the operating instructions.
- Fit or start up safety and protective devices again immediately after finishing work.
- Conversion work or modifications to the machine are only permissible with the manufacturer's consent.
- Only use original parts or parts approved by the manufacturer. The use of other parts may invalidate liability for any consequences arising.
- Keep unauthorised people away from the machine

#### 2.9 Guarantee conditions

The manufacturer's guarantee or warranty will no longer apply in the following cases:

- Improper use
- Not complying with these instructions
- Operation by insufficiently qualified staff
- Using spare parts that have not been approved by Gardner Denver Schopfheim GmbH
- Unauthorised modifications to the machine or the accessories supplied by Gardner Denver Schopfheim GmbH

# 3 Transport, storage and disposal

- 3.1 Transportation
- 3.1.1 Unpack and check the delivery condition

### 3.1.2 Lifting and transporting

- a) Unpack the machine on receipt and check for transport damage.
- b) Notify the manufacturer of transport damage immediately
- c) Dispose of the packaging in accordance with the local regulations in force.

# WARNING

Death or limbs crushed as a result of the items being transported falling or tipping over.

- When transporting with the lifting device remember:
- a) Select the lifting device suitable for the total weight to be transported.
- b) Ensure that the machine cannot tip and fall.
- c) Do not stop under a suspended load.
- d) Put the goods to be conveyed on a horizontal base.

#### Lifting device/ Transporting with a crane

### WARNING

#### Bodily injury resulting from improper operation

- a) Loads crosswise to the ring level are not permitted.
- b) Avoid impact stress.
- a) Tighten the eyebolts (Fig. 1/1) firmly.
- b) The machine must be suspended on the eyebolt using the lifting device for lifting and transporting.



- Fig. 1 Lifting and transporting
- 1 Eyebolt



#### 3.2 Storage

#### 3.2.1 Ambient conditions for storage

with normal air humidity. It should not be stored for more than 6 months.see Info "Machine storage guidelines", Page 4

The machine must be stored in a dry environment

Material damage caused by improper storage.

Ensure that the storage area meets the following

Value

0% to 80%

-10°C to +60°C

3.3 Disposal

# WARNING

NOTICE

conditions: a) dust free b) vibration free

**Ambient conditions** 

Relative humidity Storage temperature

 $\triangleright$ 

#### Danger from inflammable, corrosive or poisonous substances.

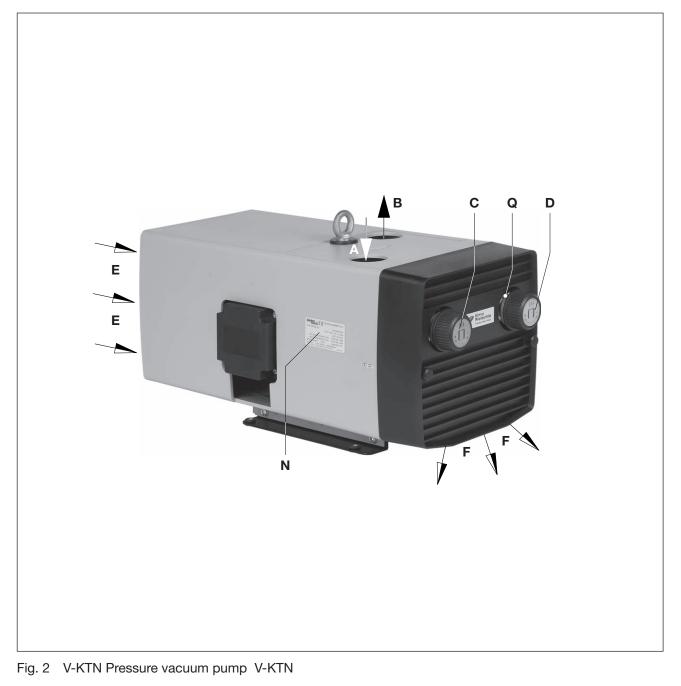
Machines that come into contact with hazardous substances must be decontaminated before disposal.

- $\triangleright$  When disposing ensure the following:
- a) Collect oils and grease separately and dispose of in accordance with the local regulations in force.
- b) Do not mix solvents, cold cleaner and paint residues
- c) Remove components and dispose of them in accordance with the local regulations in force.
- d) Dispose of the machine in accordance with the national and local regulations in force.
- e) Parts subject to wear and tear (marked as such in the spare parts list) are special waste and must be disposed of in accordance with the national and local waste laws.



# 4 Set up and operation

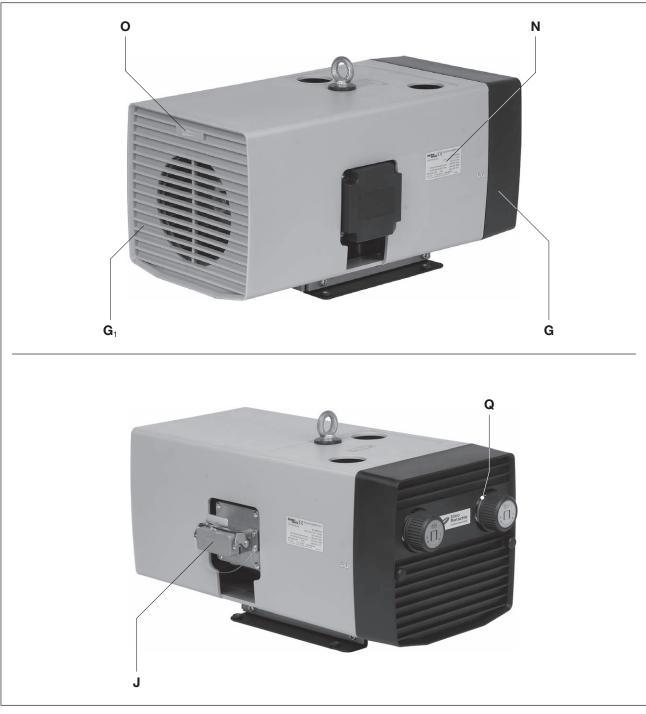
# 4.1 Setup



- A Vacuum connection
- **B** Pressure connection
- C Vacuum regulating valve
- **D** Pressure regulating valve

- E Cooling air inlet
- F Cooling air outlet
- **Q** hot surfaces > 70°C



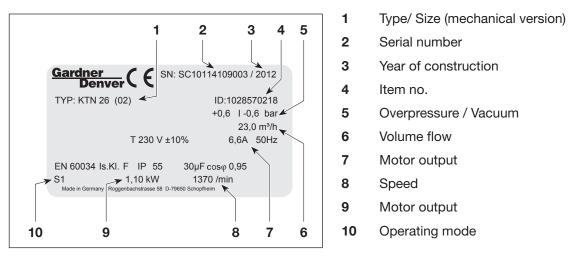


- Fig. 3 Pressure vacuum pump V-KTN V-KTN
- G Outlet grid
- **G**<sub>1</sub> Inlet grating
- J Plug connection (optional)

- N Data plate
- **O** Rotation direction arrow
- **Q** hot surfaces > 70°C



#### 4.1.1 Data plate





### 4.2 Description

The V-KTN range has a connecting thread on the pressure side and on the suction side. The aspirated air is cleaned by an inbuilt fine micro filter. The carbon dust caused by the scoring of the blades can also be separated by an integral filter.

The motor and the pump have a common shaft.

The V-KTN are in a plastic sound cover. Inside the sound cover is also a fan that provides cooling. The vacuum regulating valve (Fig. 2/C) and the pressure regulating valve (Fig. 2/D) enable the vacuum and pressure to be set to the required values which have an upper limit.

The compressed air is cooled by a cooling segment in versions (02) and (03).

### 4.3. Areas of application

These dry running rotary vane pressure vacuum pumps models V-KTN 16 to V-KTN 41 are suitable for creating pressure and vacuum at the same time. Constant operation is permissible.

The nominal flow rate is 15, 25 and 40 m<sup>3</sup>/h at 50 Hz. The load limits (bars) on the intake and pressure sides are specified on the data plate (Fig. 2/N). Data sheet D 481 shows the dependency of the flow rate on the excess pressures.

These dry running machines are suitable for conveying air with a relative humidity of 30 - 90%.



winding and the bearings may be exceeded. Please contact the manufacturer should the unit be used under such conditions.

If the unit is switched on more frequently (at regular intervals of about 10 times an hour) or at higher ambient temperatures and intake temperatures, the excess temperature limit of the motor

If it is installed in the open air the unit must be protected from environmental influences, (e.g. by a protective roof).



# 5 Installation

5.1 Preparing for installation

Check the following points:

- Machine freely accessible from all sides
- Do not close ventilation grids and holes
- Sufficient room for installing and removing pipes and for maintenance work, particularly for installing and dismantling the machine
- No external vibration effects
- Do not suck any hot exhaust air from other machines into the cooling system.

To remove the outlet grid (Fig. 3/G) and the inlet grating (Fig.  $3/G_1$ ) at least 30 cm of space must be available for maintenance work. You must also ensure that the cooling air inlets (Fig. 2/E) must be at least 10 cm away from the nearest wall (outgoing cooling air must not be sucked in again).

#### 5.2 Installation

#### NOTICE

The machine may only be operated when it is set up horizontally. Other installation on request.

Material damage resulting from the machine tipping over and falling.

When installed at more than 1000 m above sea level a reduction in power is noticeable. In this case we would ask you to contact us.

Ensure that the foundation complies with the following conditions:

- Level and straight
- The bearing surface must be able to bear the weight of the machine



It must be possible to install the machine on a firm foundation without anchoring. When installing on a substructure we recommend fixing with flexible buffers.



#### 5.3 Connecting pipes

a) Vacuum connection at (Fig. 2/A) and pressure connection at (Fig. 2/B).

# NOTICE

Material damage resulting from the forces and torques of the pipes on the unit being too high. screw pipes in by hand.

The machine output is reduced if the pipes are too narrow and/or too long.

b) Check to ensure the intake line and pressure line are connected correctly.

#### NOTICE

Length of the connection pipes With connection pipes that have the same pipe cross section as the machine connection and are

more than 3m long, a non-return valve especially for the purpose must be installed in order to avoid reverse operation when the machine has stopped

5.4 Control and relief valves

The required pressure and vacuum ranges can be set with the pressure regulating valve (Fig. 2/D) and the vacuum regulating valve (Fig. 2/C) as shown on the symbol plate attached to the rotary knob.

### NOTICE

# Do not operate without the standard control and relief valves.

If the permissible final compression pressure and the permissible vacuum are exceeded (see data plate) the machine may be damaged.

#### Pressure regulating valve

With the response of the pressure regulating valve, compressed air can escape with a temperature of >70°C!



#### 5.5 Connecting the motor



### GEFAHR

# Danger of death if the electrical installation has not been done professionally.

The electrical installation may only be done by a specialist electrician observing EN 60204. The operating company has to provide the main switch.

- a) The electrical motor data can be found on the data plate (Fig. 3/N) or the motor data plate. The motors comply with DIN EN 60034 and are in protection class IP 55 and insulation class F. The appropriate connection diagram is located in the motor's terminal box (not for the plug connection version). The motor data must be compared with the data of the existing mains network (current type, voltage, network frequency, permitted current value).
- b) Connect the motor via plug-connector (Fig. 2/J) if fitted or via the motor protection switch (for safety reasons, a motor protection switch is required and the connecting cable must be installed via a cable fitting to provide strain relief). We recommend using motor protection switches with delayed switch off, depending on possible excess current. Temporary excess current can occur when the machine is started cold.

#### NOTICE

#### **Power supply**

The conditions at the installation location must match the information on the motor data plate. Without derating the following is permissible:

- ± 5% voltage deviation
- ± 2% Frequency deviation

# 6 Commissioning and decommissioning

#### 6.1 Commissioning

# WARNING

#### Unsachgemäßer Umgang Improper use

May lead to severe or fatal injuries. Therefore be sure to obey the safety instructions.



# Noise emission

A

VORSICHT

The highest noise pressure levels measured as per EN ISO 3744 are given in Section 9. When spending a long time in the vicinity of the running machine use ear protectors to avoid permanent damage to your hearing.

# NOTICE

Wait until the machine stops The machine must only be switched on again after it stops.



#### 6.1.1 Drehrichtung prüfen

- The drive shaft direction of rotation is shown by the rotation direction arrow (Fig. 3/O).
- a) Start the motor briefly (max. two seconds) to check the direction of rotation. When looking at the motor fan, it must rotate clockwise.
   The suction pipe must not be connected when starting up like this.

#### NOTICE

#### Incorrect direction of rotation

Running the machine in reverse for a long time may cause damage to the blades which may lead to the blades breaking. Use a phase sequence indicator to check the direction of rotation **(anti-clockwise rotating field)**.

#### 6.2 Decommissioning/ storing

#### Stop the machine

- a) Switch the machine off.
- b) If available close the cut off device in the suction and pressure pipe.
- c) Disconnect the machine from the electricity source.
- d) Depressurise the machine: Open the pipes slowly.⇒ The pressure reduces slowly.
- e) Remove the pipes and hoses.
- f) Seal the connections for suction and discharge nozzles with adhesive foil.
- see also Section 3.2.1, Page 11
- a) Check the condition of the machine (cleanliness, cabling etc.).
- For installation see Section 5 Page 15
- For commissioning see Section 6.1 Page 18





# 7 Maintenance and repair



# DANGER

**Danger of death from touching live parts.** Before maintenance work disconnect the machine by pressing the main switch or unplugging it and ensure that it cannot be turned on again.



# WARNING

#### Hot surfaces

4

During maintenance work there is the danger of getting burnt on hot components of the machine. Wait for the machine to cool down.

#### 7.1 Ensuring operational safety

Regular maintenance work must be carried out in order to ensure operational safety.

Maintenance intervals also depend on the operational demands on the machine.

With any work observe the safety instructions described in Section 2.8 "Safety notes for installation, commissioning and maintenance".

The whole unit should always be kept in a clean condition.

#### 7.2 Maintenance work

Interval	Maintenance to be carried out	Section
monthly	Check the pipes and screws for leaks and to ensure they are seated properly and if necessary seal again or tighten up.	-
monthly	Check the terminal box and cable inlet holes for leaks and if necessary re-seal.	_
monthly	Clean the regulating valves and ventilation slots on the ma- chine and the motor cooling ribs. If there is a great deal of dust in the spaces on the cooling ribs and cooling pipes after removing the inlet grating (Fig. 2/ G) clean by blowing through.	_
_	The machine's bearings are permanently lubricated and do not require re-lubricating.	—
monthly / every 6 months	Clean or replace filter cartridges	7.2.1
V-KTN 16: 7,000 h / 1,000 h V-KTN 26: 5,000 h / 1,000 h V-KTN 41: 3,000 h / 1,000 h	Check blades ⇒ Replace blades	7.2.2



# 7.2.1 Air filtering

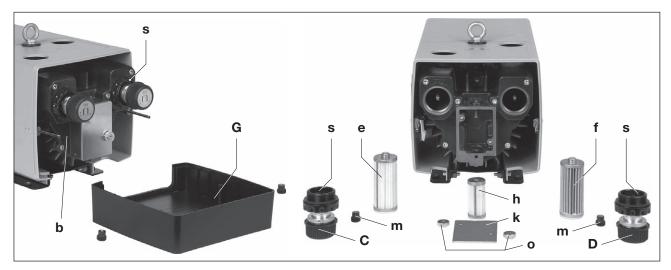


Fig. 5 Air filtering

- **C** Vacuum regulating valve
- D Pressure regulating valve
- **G** Outlet grid
- b Housing cover
- e,f,h Filter cartridge
- k Filter cover
- m Knurled knob
- o Knurled nut
- s Screw cap

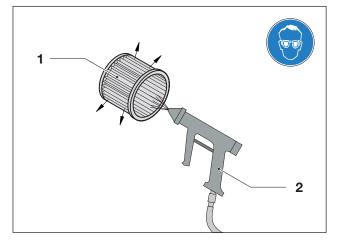


Fig. 6 Purging filter cartridge

- 1 Filter cartridge
- 2 Compressed air

# NOTICE

**Insufficient maintenance on the air filter** The power of the machine lessens and damage may occur to the machine.

The filter cartridges (Fig. 5/e) for intake air, (Fig. 5/f) for blowing air and (Fig. 5/h) for air charging must be cleaned every month or more often depending on how dirty they are by blowing out from inside to outside. In spite of cleaning the filters their separation efficiency will continue to deteriorate. Therefore the filters should be replaced every six months.

# Changing filters:

Unscrew the outlet grid (Fig. 5/G).

Undo the screw cap (Fig. 5/s) and the knurled knob (Fig. 5/m). Undo the knurled nut (Fig. 5/o) and remove the filter cover (Fig. 5/k). Remove and clean or replace filter cartridges (e), (f) and (h). Reassemble in reverse order.

### WARNING

# Danger of injury when dealing with compressed air.

When blowing through with compressed air, solid particles may be carried along or powder dust swirling around may cause injury to the eyes. Therefore, when cleaning with compressed air always wear goggles and a dust mask.



# 7.2.2 Replacing blades

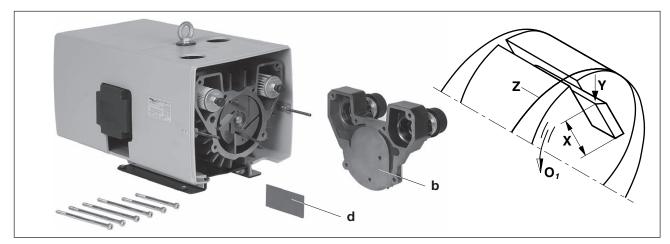


Fig. 7 Changing blades

- **O**<sub>1</sub> Direction of rotation
- X Minimum height
- Y Slanting side of the blade
- Z Drilled holes in the housing
- b Housing lid
- d Blade

# **Checking blades:**

V-KTN 16 / 26 have 6 carbon blades and V-KTN 41 has 7 carbon blades that wear out gradually during operation.

V-KTN 16: First check after 7,000 operating hours, then every 1,000 operating hours.

V-KTN 26: First check after 5,000 operating hours, then every 1,000 operating hours.V-KTN40: First check after 3,000 operating hours then every 1,000 operating hours.

Unscrew the outlet grid (Fig. 5/G). Unscrew the housing cover (Fig. 7/b) from the housing. Remove the blades (Fig. 7/d) to be checked. All blades must have a minimum height (Fig. 7/X):

 Type
 X (minimum height)

 V-KTN 15, 25
 24 mm

 V-KTN 40
 35 mm



### The blades must only be changed as a set.

**Changing blades:** If you detect during the blade check that the minimum height has been reached or it has fallen below the minimum height, the blade set must be changed.Blow out the housing and the rotor slot. Insert the blades into the rotor slot. When doing this you must ensure that the blades with the sloping side (Fig. 7/Y) point outwards and the direction of rotation of these sloping sides (Fig. 7/ $O_1$ ) matches that of the drilled holes for the housing (Fig. 7/Z). Screw on the housing lidFig. 6/b) and outlet grid (Fig. 5/G). Before starting up check that the blades run freely by moving the fan round, for it unscrew the inlet grating (Fig. 2/G<sub>1</sub>):



#### 7.3 Repair/ Service

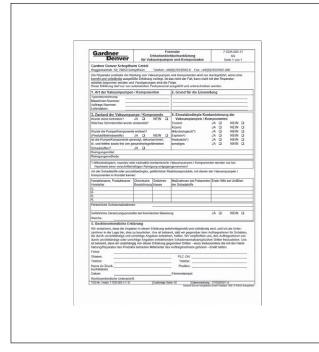


Fig. 8 Clearance certificate 7.7025.003.17

 a) For on site repair work the motor must be disconnected from the mains by a qualified electrician so that it cannot be started up again accidentally. For repairs use the manufacturer, its branch offices or authorised dealers. Please contact the manufacturer for the address of the service centre responsible for you (see Manufacturer's address).

# NOTICE

For each machine that is sent to an Elmo Rietschle Service centre for inspection, maintenance or repair, a fully completed, signed declaration of harmlessness must be enclosed. The declaration of harmlessness is part of the supplier's documentation.

 b) After a repair or re-commissioning, the actions listed under "Installation" and "Commissioning" must be carried out as for initial commissioning.



#### 7.4 Spare parts

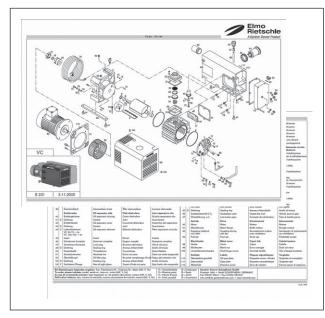


Fig. 9 Spare parts (example)

Order spare parts in accordance with the:

- Spare parts list •
  - **E 481** → V-KTN 16 V-KTN 41
  - Download the PDF file: . http://www.gd-elmorietschle.com Downloads

    - **Product Documents**
    - V-Series → Spare Parts
  - Parts subject to wear and gaskets are indicated separately on the list.
- Internetseite:
  - http://www.service-er.de
  - Select the type, size and design. •

### NOTICE

Only use original spare parts or parts approved by the manufacturer. The use of other parts may lead to malfunctions and invalidate liability or the guarantee for any consequences arising.



Fig. 10 Web site http://www.service-er.de



Fault	Cause	Troubleshooting	Important
Machine is switched off by the motor pro- tection switch	Mains voltage/ Frequency does not correspond with the motor data	Check by qualified electrician	Section 5.5
	Connection to motor terminal board is not correct	-	
	Motor protection switch is not set correctly		
	Motor protection switch is triggered too quickly	Use a motor protection switch with an overload-dependent delayed switch off that takes into consideration the short term excess current at start up (version with short circuit and overload trigger as per VDE 0660 Part 2 orIEC 947-4)	
	The blow out filter cartridge is dirty.	Clean or replace the filter cartridge	Section 7.2.1 Section 7.4
	The regulating valves are dirty so that the permissible pres- sure and/or vacuum values have been exceeded.	Clean or replace the regulat- ing valves	Section 7.2 Section 7.4
Intake or blowing power is not suf-	Intake filter and/or blow out filter are dirty	Clean or replace the intake filter	Section 7.2.1 Section 7.4
ficient	Lines are too long or too nar- row	Check the hose or the pipe	Section 5.3
	Machine or system leaking	Check the pipework and screw connections for leaks and to ensure that they are firmly seated.	Section 7.2
	Blades are damaged	Replace blades	Section 7.2.2 Section 7.4

# 8 Malfunctions: Causes and elimination



# **Malfunctions: Causes and elimination**

Fault	Cause	Troubleshooting	Important	
Excess pressure or vacuum not achieved	Machine or system leaking	Check the pipework and screw connections for leaks and to ensure that they are firmly seated.	Section 7.2	
	Blades are worn or damaged	Replace blades	Section 7.2.2 Section 7.4	
Machine gets too hot	Ambient or intake temperature is too high	Ensure it is being used prop- erly	Section 2.3	
	Cooling air supply is ob- structed	Check environmental condi- tions	Section 5.1	
		Clean ventilation slots	Section 7.2	
	The blow out filter cartridge is dirty.	Clean or replace the filter cartridge	Section 7.2.1 Section 7.4	
	The regulating valves are dirty so that the permissible pres- sure and/or vacuum values have been exceeded.	Clean or replace the regulat- ing valves	Section 7.2 Section 7.4	
The machine makes an abnormal noise	The compressor housing is worn (chatter marks)	Repair by manufacturer or authorised workshop	Elmo Rietschle Service	
	A regulating valve is vibrating	Replace the valve	Section 7.4	
	Blades are damaged	Replace blades	Section 7.2.2 Section 7.4	
Please contact Elmo Rietschle Service for other malfunctions or those that cannot be eliminated.				



# 9 Technical Data

V-KTN			16	26	41
Sound pressure level (max.)		50 Hz	66	67	70
EN ISO 3744 Tolerance±3 dB(A)	dB(A)	60 Hz	67	71	73
Waight (may)	ka	3 ~	28.4	35.1	49.9
Weight (max.)	kg -	1 ~	28.6	35.2	52.2
Length	mm		480	511	592
Width	mm		245	245	275
Height	mm		286	286	319
Vacuum connection			G 1/2	G <sup>1</sup> / <sub>2</sub>	G <sup>3</sup> / <sub>4</sub>
Pressure connection			Rp 1/2	Rp 1/2	Rp <sup>3</sup> / <sub>4</sub>

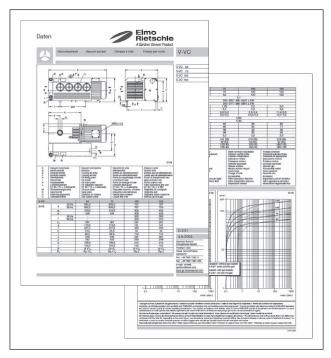


Fig. 11 Data sheet (example)

You will find more technical data on the data sheet **D 481** 

- Download the PDF file
   D 481 → V-KTN 16 V-KTN 41
  - Download the PDF file
     <u>http://www.gd-elmorietschle.com</u>
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    - $\rightarrow$  V-Series  $\rightarrow$  Data Sheets

# NOTICE

Subject to technical changes.





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Elmo Rietschle is a brand of Gardner Denver's Industrial Products Division and part of Blower Operations.

		<u>Gardner</u> Denver	
EC - 0	declaration	of conformity 2006/42/EC	
Hereby the manufacturer confirms:	Postfach	Gardner Denver Schopfheim GmbH Postfach 1260 D-79642 Schopfheim	
that the machine: of the:	Dry runr Series: Type:	ning pressure/vacuum pump V-KTN V-KTN 10, V-KTN 15, V-KTN 25, V-KTN 40 V-KTN 16, V-KTN 26, V-KTN 41	
is conform to the regulatio	ons of the guid	leline indicated above.	
The following harmonized an EN 1012-1:2010 EN 1012-2:1996+A1:2009	Compressors a Compressors	ndards and specifications are applied: and vacuum pumps — Safety requirements — Part 1: and vacuum pumps — Safety requirements — Part 2: os	
These declarations of confor proval by us and the approva		d when the machine has been modified without prior ap- cumented in writing.	
Name and address of the E0 charge for documentation	C person in	Gardner Denver Schopfheim GmbH Postfach 1260 D-79642 Schopfheim	
Gardner Denver Schopfheim Schopfheim, 1.8.2011 M Dr. Friedrich Justen, Director			
		C_0081_EN	

Gardner	Safety declaration form			7.7025.003.17	
<b>Denver</b> for vacuum pum		ps and components			
Denver			Page 1 of 1		
Gardner Denver Schopfheim GmbH           Roggenbachstr. 58, 79650 Schopfheim         Phone: +49/(0)7622/392-0         Fax: +49/(0)7622/392-300					
Repairs and/or maintenance of vacuum pumps and components will only be carried out if a declaration has been					
filled in <u>correctly and completely</u> . If not, the repair work cannot be started and delays will result.					
This declaration must only be filled in and signed by authorised qualified staff.					
1. Type of vacuum pumps/ components			2. Reason for the submission		
Type description:					
Machine number					
Order number: Delivery date:					
			A Contomination of the		
<b>3. Condition of vacuum pumps/ components</b> Was this being operated? YES INO I			4. Contamination of the vacuum pumps/ components when in use		
Which lubrication was used?			Toxic		
			Corrosive	YES 🗆 NO 🗖	
Was the pump/ component em			Microbiological*)	YES 🗆 NO 🗖	
(Product/Consumables)	YES 🛛	NO 🗆	Explosive*)	YES D NO D	
Has the pump/ component bee	n cleaned and	decontamina	,	YES INO I	
	YES ם		other	YES 🗆 NO 🗖	
Cleaning agent:					
Cleaning method:					
*) Microbiological, explosive or radioactively contaminated vacuum pumps/ components will only be accepted					
with proof that they have been cleaned properly.					
Type of toxic substance or process-related, dangerous reaction products with which the vacuum pumps/ components came into contact:					
Trade name, manufacturer's product name	Chemical name	Hazard class	Action to be taken if toxic substances are released	First aid in the event of accidents	
1					
2					
4					
Personal protection measures:					
Hazardous decomposition proc	lucts when su	bjected to the	rmal load	YES D NO D	
Which?					
5. Legally binding declaration					
We swear that the information in this declaration is accurate and complete and that I, the undersigned, am in a					
position to judge this. We are aware that we are liable to the contractor for damage caused by incomplete and inaccurate information. We undertake to release the contractor from any damage claims from third parties arising					
from incomplete or incorrect information. We are aware that, regardless of this declaration, we are directly liable					
to third parties including in particular the contractor's staff entrusted with handling or repairing the product.					
Company:					
Street: Post code/ Town:					
Phone: Fax:					
Name (in capitals)     Position:					
Date:					
Legally binding signature:					
TOS no. / Index: 7.7025.003.17 / 0.     Office responsible: GS     File management:\7702500317.xl					
			Gardner Denver Schopfheim	GmbH Postfach 1260 D-79642 Schopfheim	