

LEYCON

User manual GA06230_002_C1

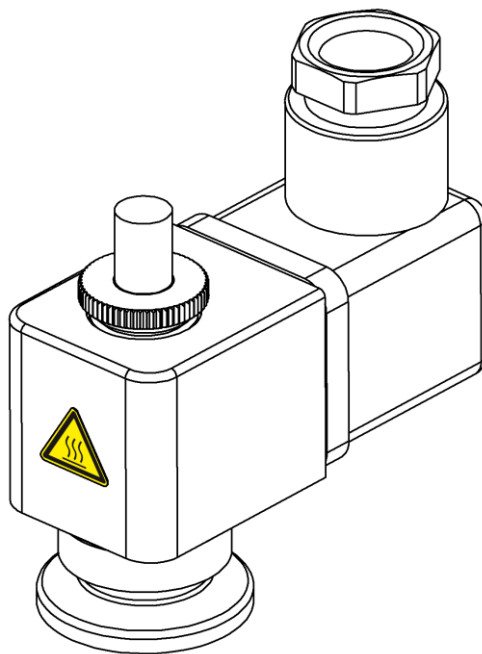
Power Failure Venting Valve DN 10 ISO-KF

- electromagnetically actuated

Part numbers

174 26

174 46



Imprint

Manufacturer Leybold GmbH, D-50968 Cologne, Germany

Website: www.leybold.com
Phone: +49 (0) 221 347 0
Fax: +49 (0) 221 347 1250
Email: info@leybold.com

Publisher Leybold GmbH, D-50968 Cologne, Germany

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Original document The German language version of this user manual is the original document. All other languages are a translation of the original user manual. In case of deviations the information within the original user manual is valid.

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1 Description of product

1.1 Important information



This symbol points to a very important statement that requires particular attention.

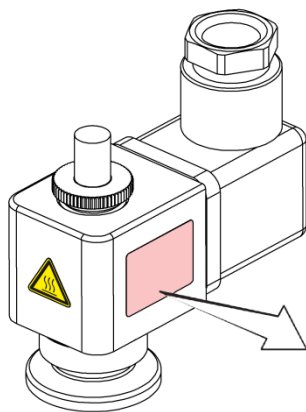
Example:



Leybold disclaims any liability for damages resulting from inappropriate packaging.

1.2 Identification of product

The fabrication number and part number are fixed on the product directly or by means of an identification plate.



.....	PN
.....	SN
.....	Built
	
Leybold GmbH Bonner Str. 498, D-50968 Köln, Germany	
	

Figure 1-1

PN: Part number

SN: Fabrication number



In all communications with Leybold, please specify the information on the product nameplate.

1.3 Validity of the user manual



This document applies to products with the part numbers:

- **174 26:** 200 ... 230 VAC
- **174 46:** 24 VDC

1.4 Technical data

Material

Item	Material
Housing	Aluminium
Armature	Steel
Pole tube	Brass
Pressure spring	Steel
Sealing profile	FPM
Filter	Bronze
Protective lid	PE
Packing	Carton box, foil

Table 1-1

General technical data

Type / Item	Value / description
Connection flange	DN 10 ISO-KF
Mounting position	any
Actuation	opens with pressure spring closes electromagnetically
Flow direction in the event of a power failure	see chapter «3 Function»
Tightness [mbar l/s]	$<1 \times 10^{-7}$
Pressure range, absolute [mbar]	$1 \times 10^{-6} \dots 2500$
Switching times [ms] ¹	
Opening time	30
Closing time	30
Venting time [s]	270 for 50 l vessel

¹ At a pressure difference $\Delta p = 0$.

Type / Item	Value / description
Temperatures [°C]	
Ambient temperature	0 ... 50
Pilot valve	
Ambiance 20 °C	<55
Ambiance 50 °C	<80
Bakeout temperature	
Housing	<60
Actuator	<50
Cycles until first service ²	≈ 3 million cycles
Duty cycle	100% i.e. continuous duty possible
Weight [g]	100
Protection class	IP65
Approval	
Solenoid coil	UL
Cable socket	UL

Table 1-2

Electrical data

	Value / description	
Type / Item	Part number 174 26	Part number 174 46
Nominal voltage	200 ... 230 V 10% 50/60 Hz	24 VDC 10%
Nominal power		
Pickup	3.7 VA	2.2 W
Type of connection	cable socket according to DIN 43650	

Table 1-3

² Switching cycles under clean conditions.

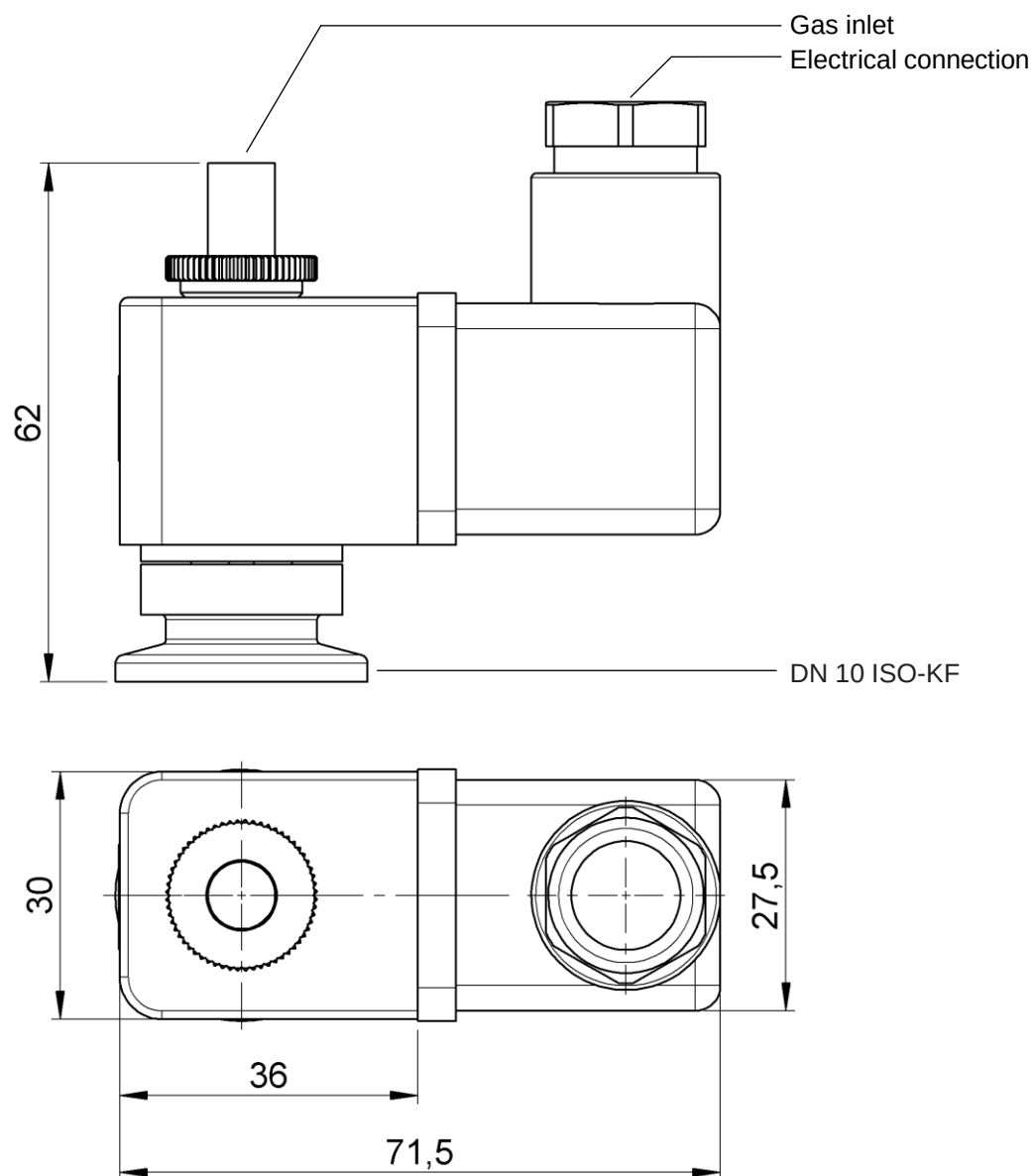
Dimensions [mm]

Figure 1-2

1.5 Components delivered with the valve

Protective covers on the flange.

The original document of this user manual in German language is also enclosed.

1.6 Warranty

Leybold assumes no liability if the end-user or third parties:

- disregard the information in this document
- use the product in a non-conforming manner
- make any kind of interventions (modifications, alterations etc.) on the product
- use the product with accessories, options, and add-ons not listed in the corresponding product documentation.

Failures due to contamination or wear and tear, as well as expendable parts (e.g. seals), are not covered by the warranty.

Improperly accomplished maintenance work may reduce the safety, lifetime and performance of the product and lead to refusal of warranty claims.



Maintenance work not described in this user manual may only be carried out by the Leybold service staff or by specialists trained and authorized by Leybold.

2 Safety

2.1 Compulsory reading material

Read this chapter prior to performing any work with or on the product. It contains important information that is significant for your own personal safety. This chapter must have been read and understood by all persons who perform any kind of work with or on the product during any stage of its serviceable life.

	NOTICE
	Lack of knowledge Failing to read this manual may result in property damage. Firstly, read manual.



This user manual is an integral part of a comprehensive documentation belonging to a complete technical system. It must be stored together with the other documentation and accessible for anybody who is authorized to work with the system at any time.

2.2 Danger levels

	DANGER
	High risk Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

	WARNING
	Medium risk Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

	CAUTION
	Low risk Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

	NOTICE
	Command Indicates a hazardous situation which, if not avoided, may result in property damage.

2.3 Purpose of use

2.3.1 Permitted use

- The Power failure venting valve is used for automatic venting of pumps as well as of small and medium vacuum systems.
- Use product for clean and dry vacuum applications only. Observe the specification in «1.4 Technical data».

2.3.2 Not intended use

- Use of the product for liquid gas.
- Use of the product without instruction or outside of the permitted limits.
- Detaching of hazard notices, disabling safety systems.
- Conducting any kind of interventions (modifications, alterations etc.) on the product.
- Use with accessories and options, which are not mentioned in the corresponding product documentation.
- Either use, not explicitly mentioned as permitted use, applies as adverse use.

Valves are not suitable for use in processes with

- radioactive substances
- explosive substances
- flammable gas mixtures
- pyrophoric gases
- Liquids or liquid gases
- media condensing in the pump / the valve
- solids / dust
- oxidative substances with the exception of $\leq 21\%$ oxygen in air
- toxic gases according to GHS categories I and II

The following gases may only be used after consultation with Leybold:

- corrosive gases
- toxic gases according to GHS categories III and IV



DANGER

Toxic substances and gases

If toxic substances or gases are used in the plant, the operator must take the appropriate safety precautions.

2.4 Obligations / area of responsibility

2.4.1 Manufacturer

Leybold GmbH as manufacturer is responsible for supplying the product, with its user manual and original accessories, in a completely safe condition.

2.4.2 Operator



The operator is the person in charge of the product. The operator ensures that the product is used in accordance with the instructions, and the safety of the equipment in use. Training and deployment of personnel who use the product is also the operator's charge.

The operator has the following duties:

- To know local, operative regulations regarding safety and accident prevention.
- To assure that the national laws and directives are respected.
- To understand safety indications on the product, and instructions in the user manual.
- To immediately inform the manufacturer, if safety shortcomings of the product or its use occur.
- To check the sound condition of the product regularly and to assure the execution of the maintenance works mandated.



The end-user assumes the responsibility in conjunction with the process media used.



If the Power failure venting valve is to be integrated in a vacuum system where toxic process gases are used or toxic gases arise during the process and where an overpressure can occur, take appropriate safety measures for exhausting such gases and dispose of them without polluting the environment.

2.5 Personnel qualifications

	WARNING
	Unqualified personnel Inappropriate handling may cause serious injury or property damage. Only qualified personnel are allowed to carry out the described work.

2.6 General Safety Instructions

- Adhere to the applicable regulations and take the necessary precautions for the process media used.
Consider possible reactions between the materials and the process media.
Consider possible reactions of the process media due to the heat generated by the product.
- Adhere to the applicable regulations and take the necessary precautions for all work you are going to do and consider the safety instructions in this document.
- Before beginning to work, find out whether any vacuum components are contaminated. Adhere to the relevant regulations and take the necessary precautions when handling contaminated parts.

2.7 Safety labels

Label	Location on valve
	On valve body or actuators. If lost, the sticker must be replaced.

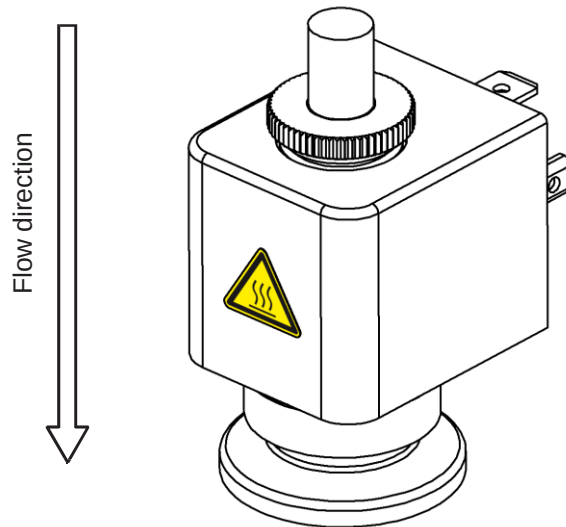
Table 2-1

3 Function

- The Power failure venting valve opens in the event of a power failure. However, if the pressure in the vacuum system is >2.5 bar, the valve remains closed.
- The Power failure venting valve remains closed as long as the pilot valve is energized.

Flow direction in the event of a power failure

Pressure in the vacuum system <1 bar



Pressure in the vacuum system $1 \dots 2.5$ bar

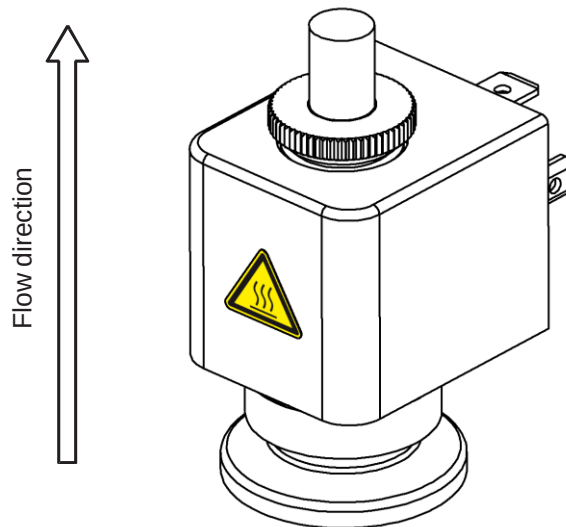


Figure 3-1

4 Installation

The subsequent notes need to be observed for all installation works!



Disconnect electrical power during installation and configurations.



WARNING

Unqualified personnel

Inappropriate handling may cause serious injury or property damage.
Only qualified personnel are allowed to carry out the described work.



NOTICE

Contamination

Product may get contaminated because of inadequate handling.
Always wear cleanroom gloves when handling the product.



NOTICE

Inappropriate tools

Sealing surfaces may get damaged.
Do not use sharp-edged tools.

4.1 Unpacking



- Before unpacking, check whether the packaging shows transport damages and the goods could be damaged.
- Check whether the goods are complete and in impeccable condition. If you have any objections, please contact the local agency immediately; see backside of the document.
- Store the original packaging material. It may be useful if products must be returned.



Remove the protective covers from the valve only at the moment when the valve is being installed into the system. Keep unprotected sealing surfaces clean and do not damage them.

4.2 Installation into the system

4.2.1 Vacuum connection

	⚠ DANGER
	Overpressure in the vacuum system >1 bar Injury caused by released parts and harm caused by escaping process gases can result if clamps are opened while the vacuum system is pressurized. Do not open any clamps while the vacuum system is pressurized. Use a suitable external centering ring for overpressure (e.g. part number 18353).

1. Remove the protective lid and connect the valve to the vacuum system using a small flange fitting.

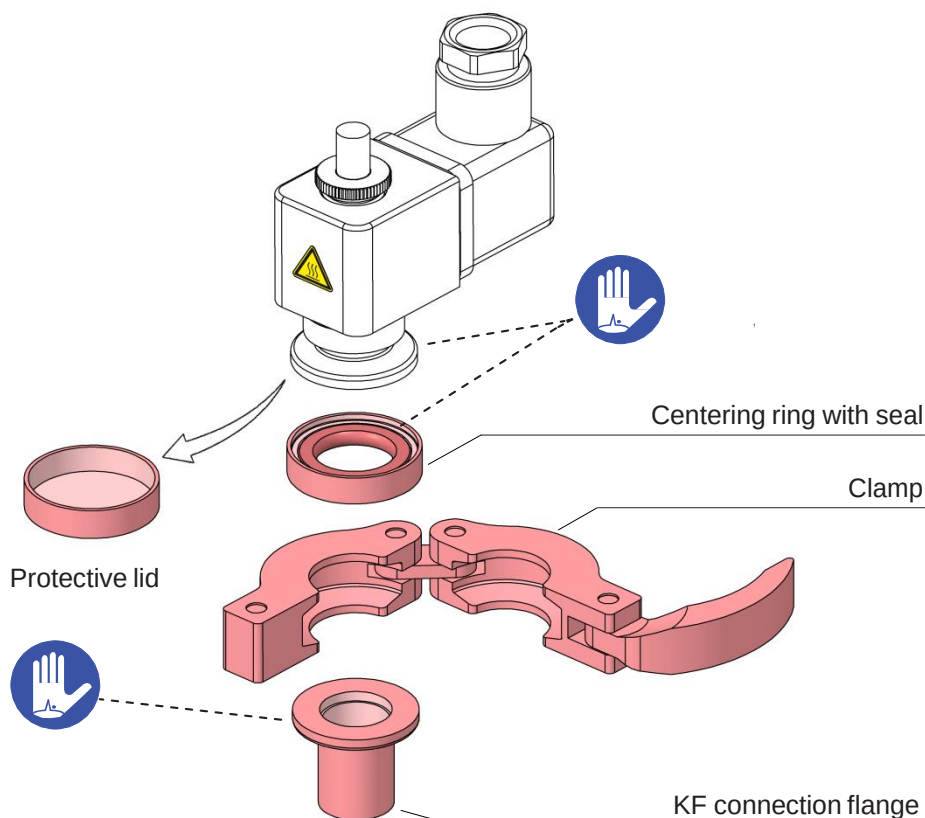


Figure 4-1



Please keep the protective lids.

2. Check that the vacuum connections are leak tight.

4.2.2 Electrical connection

	⚠ DANGER Electric shock Parts being under voltage will result in serious injury or death. Before connecting or disconnecting the product, turn off the control system.
	NOTICE Wrong voltage Incorrect voltages can destroy the product. The rating of the supply voltage must correspond to the nominal voltage of the product; see chapter «1.4 Technical data».
	NOTICE Voltage > 60V For voltages above 60V, the installation must be carried out by a qualified electrician.



The cable must meet the following specifications:

- flexible
- conductor cross section 0.75 mm²
- cable diameter ≤ 7 mm
- 3 poles with protective conductor

1. Unfasten the screw and unplug the cable socket.

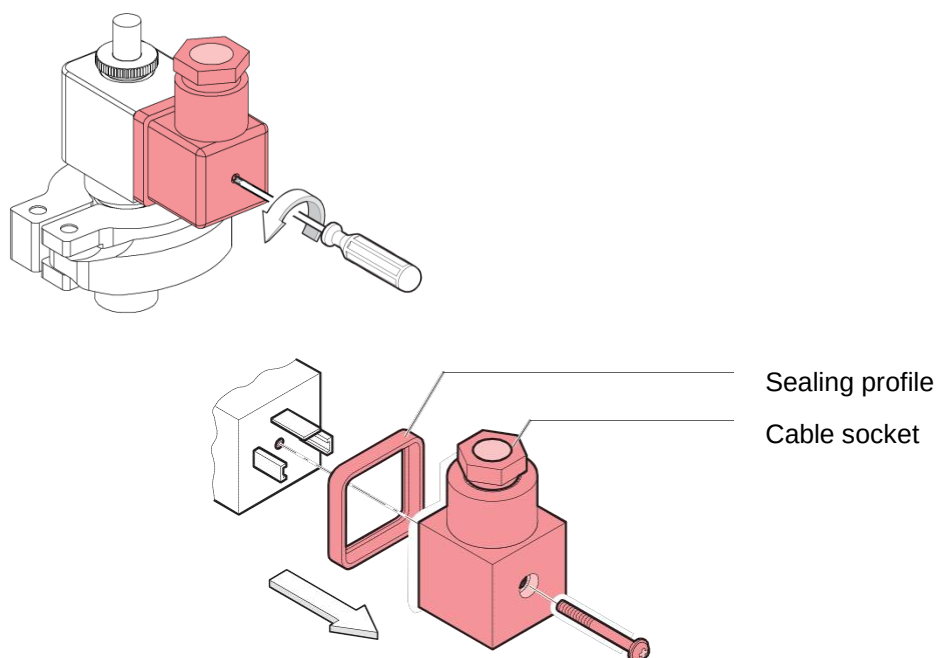


Figure 4-2

2. Remove the insert.

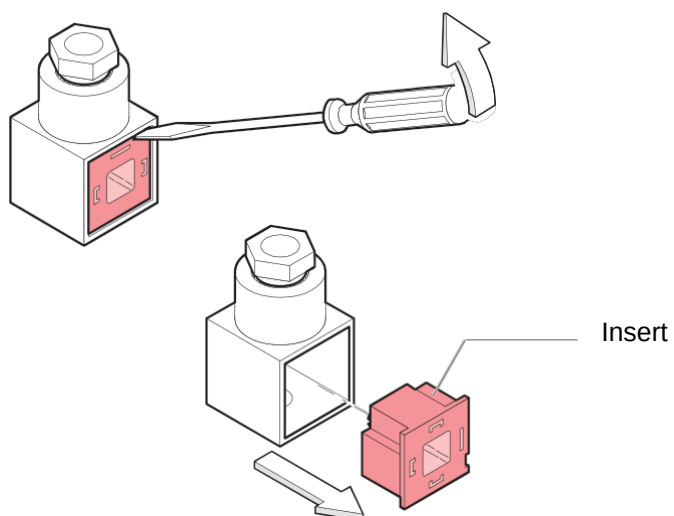


Figure 4-3

3. Unscrew the strain relief and remove the cable gland.

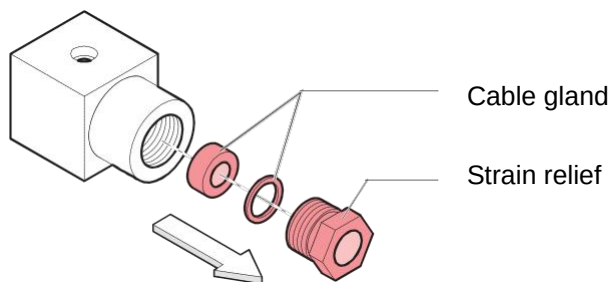


Figure 4-4

4. Slide the nut, washer, sealing washer and housing on the cable.

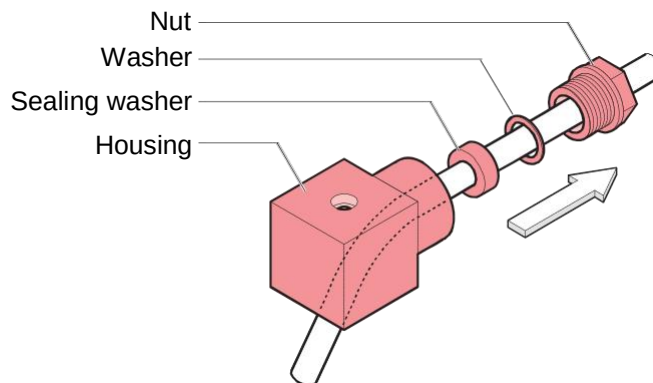


Figure 4-5

5. Prepare the cable: skin jacket → strip insulation → twist strands → crimp

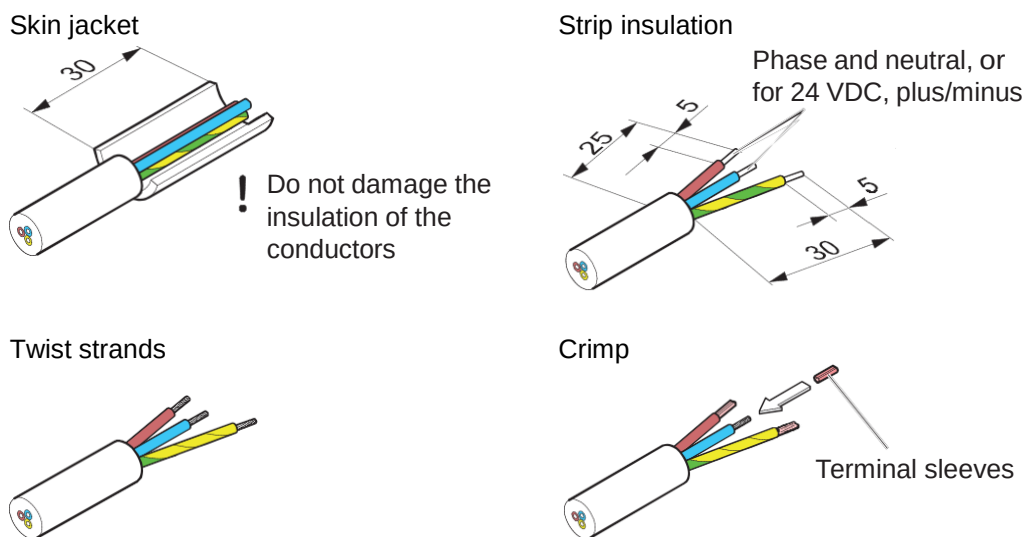


Figure 4-6

6. Connect the cable.

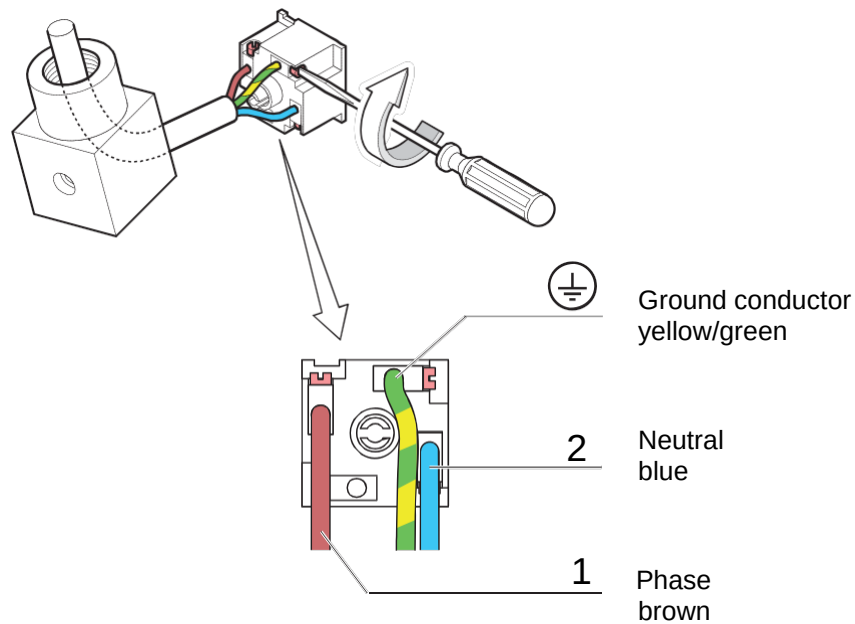


Figure 4-7



For the 24 VDC version, the polarity need not be taken into consideration. For safety reasons, we recommend to connect the protective ground also to the 24 VDC version, especially if no safety extra-low voltage (SELV) is used.

7. Push the insert and cable in until it catches.

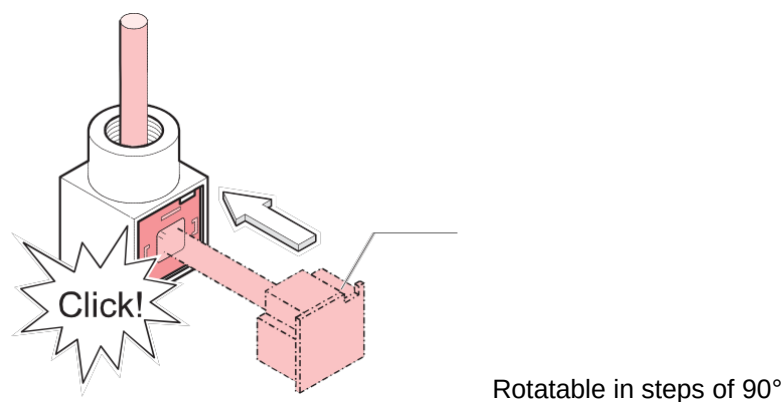


Figure 4-8

8. Mount the cable gland and strain relief.

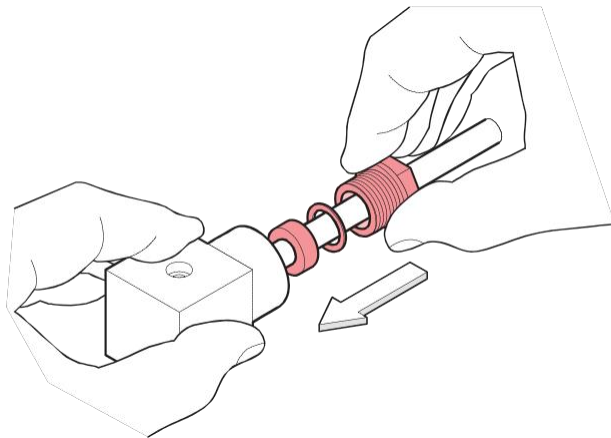


Figure 4-9

9. Tighten the strain relief.

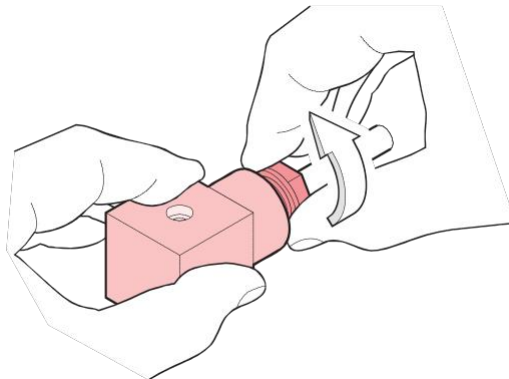


Figure 4-10

10. Remove the filter and the nut and turn the pilot valve so that the electrical connection is in the desired position. Fix it by first inserting the nut and then the filter.

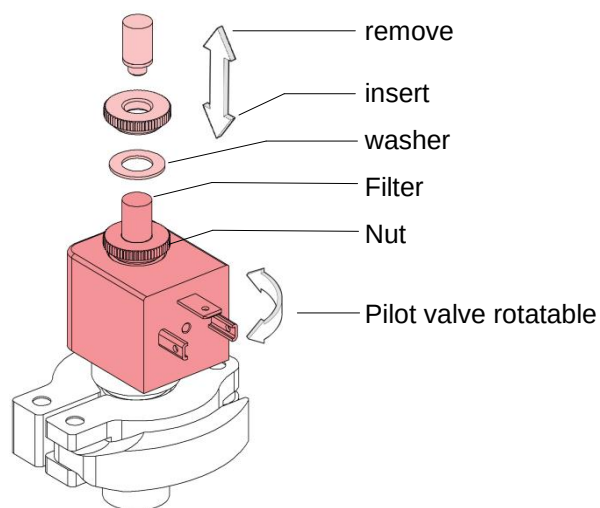


Figure 4-11

11. Mount the sealing profile. Plug in the cable socket and secure it with the screw.

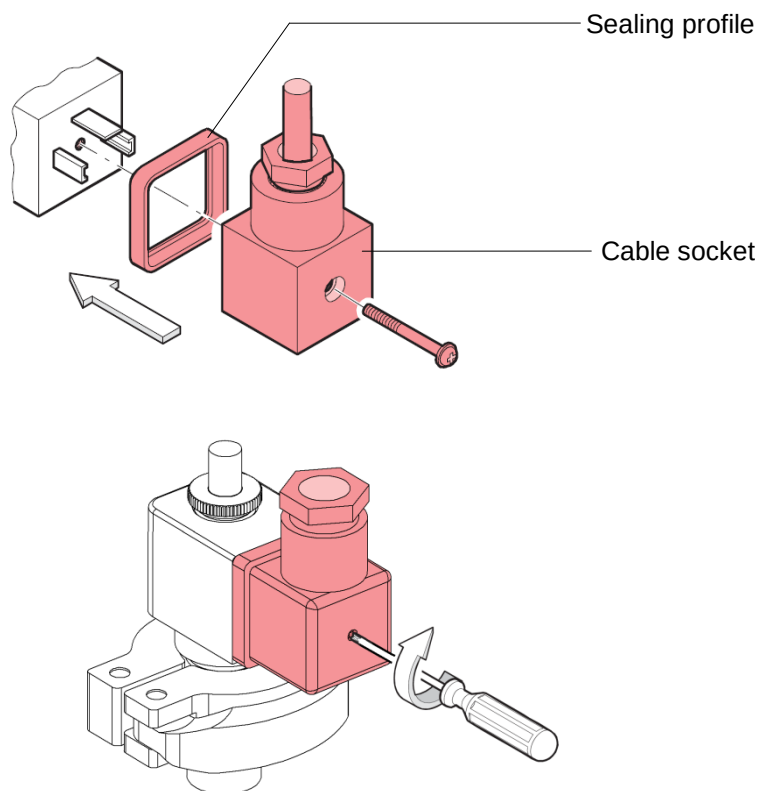


Figure 4-12

NOTICE	
	Interference with susceptible equipment Potential interference with susceptible equipment near the pilot valve. To prevent interference with susceptible equipment near the pilot valve, a suitable interference suppression kit must be installed.

12. Connect the cable to the power supply.

5 Operation

	WARNING
	Unqualified personnel Inappropriate handling may cause serious injury or property damage. Only qualified personnel are allowed to carry out the described work.
	CAUTION
	Hot surfaces Risk of burning when touching hot surfaces. Wear protective gloves.



The product is ready for operation as soon as it has been installed.

If the valve is operated under harsh or dirty conditions, it should be cleaned / maintained before the specified service time has been reached.

Valve positions

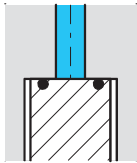
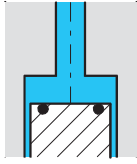
Valve closed: Pilot valve energized or Power failure and $p_{\text{vacuum}} > 2.5 \text{ bar}$	Atmosphere Vacuum 
Valve open: Power failure and $p \leq 2.5 \text{ bar}$	Atmosphere Vacuum 

Table 5-1

6 Maintenance



Under clean operating conditions the valve does not need any maintenance during the specified cycle life.



Contamination from the process may require more frequent maintenance.



WARNING

Unqualified personnel

Inappropriate handling may cause serious injury or property damage.
Only qualified personnel are allowed to carry out the described work.



WARNING

Contaminated parts

Contaminated parts can be detrimental to health and environment.
Before beginning to work, find out whether any parts are contaminated.
Adhere to the relevant regulations and take the necessary precautions when handling contaminated parts.



CAUTION

Hot surfaces

Risk of burning when touching hot surfaces.
Touch hot surfaces only if the valve has cooled down.



NOTICE

Discoloration of the plastic cover

The plastic cover may discolor during cleaning with aggressive detergent (e. g. Acetone).
Use mild detergent only.



NOTICE

Inappropriate tools

Sealing surfaces may get damaged.
Do not use sharp-edged tools.



Leybold assumes no liability and the warranty becomes null and void if maintenance works are performed, which are not covered by this user manual.

Dismount the valve

1. Vent the vacuum system and wait until the valve has cooled down to $<55^{\circ}\text{C}$.



⚠ DANGER

Electric shock

Parts being under voltage will result in serious injury or death.
Before connecting or disconnecting the product, turn off the control system.

2. Unlock the cable socket, disconnect it from the power supply and unplug it.

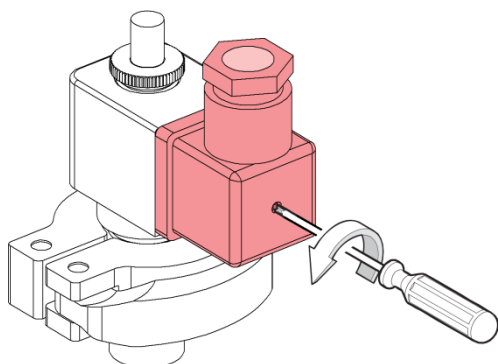


Figure 6-1

3. Remove the small flange fitting and put the protective lid in place.

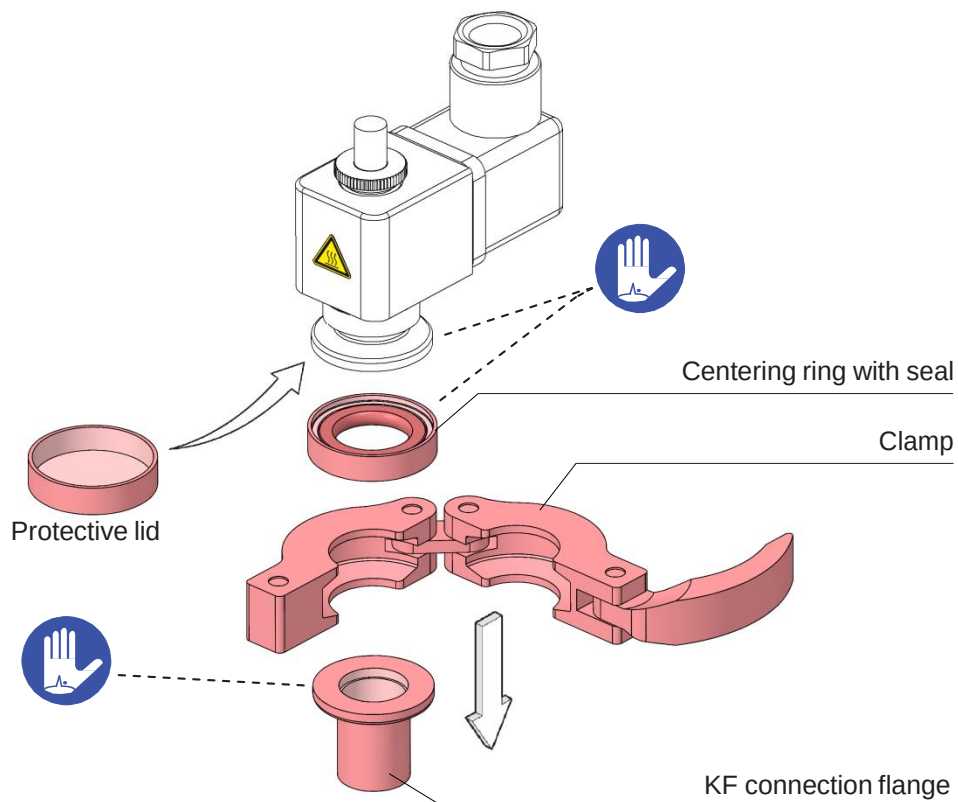


Figure 6-2

Disassemble and clean the valve



WARNING

Cleaning agents

Cleaning agents can be detrimental to health and environment.

Adhere to the relevant regulations and take the necessary precautions when handling cleaning agents and disposing of them. Consider possible reactions with the product materials.

4. Clean the valve and replace its parts.
For information on the spare parts refer to chapter «11 Spare parts and accessories».
 - Clean parts (except pilot valve with cable socket and clamp) in an ultrasonic bath or
 - rinse with alcohol and subsequently heat to $\approx 50\text{ }^{\circ}\text{C}$ in an oven or with an industrial blower.

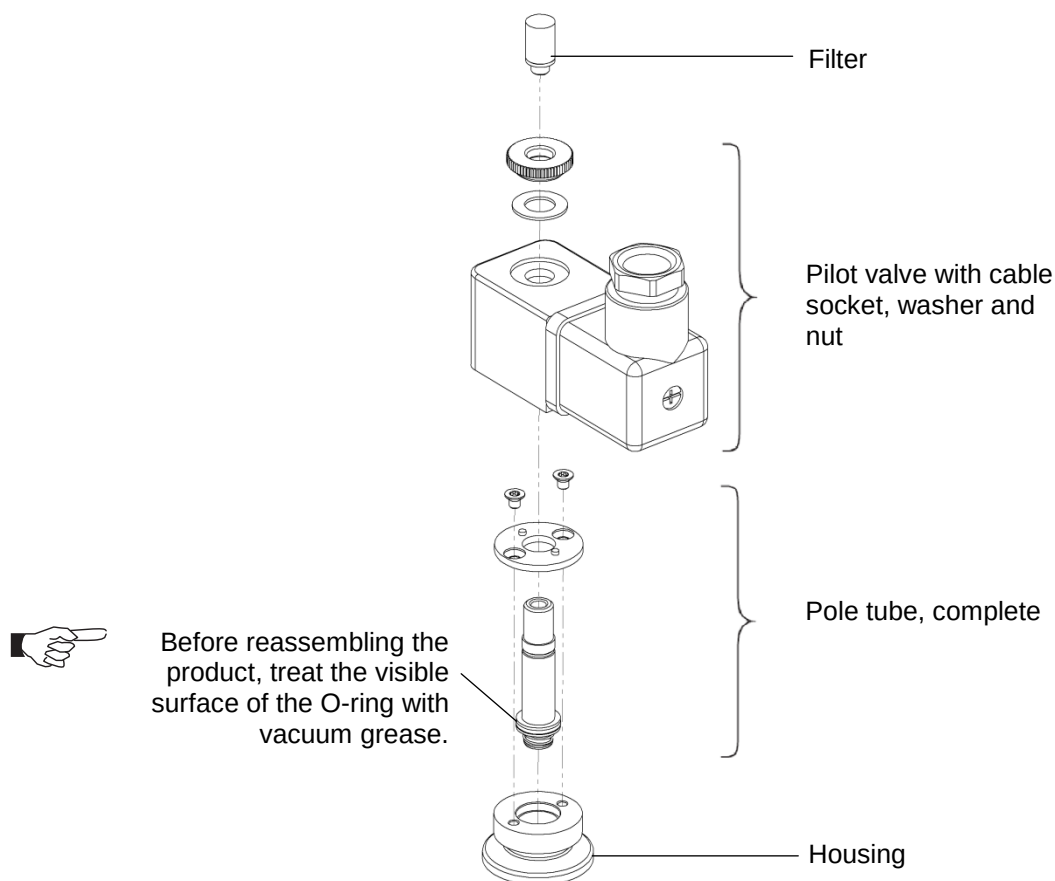


Figure 6-3



If venting takes considerably longer than before, replace the filter.

7 Repairs

Repairs may only be carried out by qualified personnel. We recommend having this work carried out by one of our service centers.

You will find the addresses of the service centers on the backside of the document. When contacting us, please always specify the fabrication number of the valve; see chapter «1.2 Identification of product».

8 Dismounting and Storage

	WARNING
	Unqualified personnel Inappropriate handling may cause serious injury or property damage. Only qualified personnel are allowed to carry out the described work.
	CAUTION
	Hot surfaces Risk of burning when touching hot surfaces. Touch hot surfaces only if the valve has cooled down.

8.1 Dismounting

	WARNING
	Contaminated parts Contaminated parts can be detrimental to health and environment. Before beginning to work, find out whether any parts are contaminated. Adhere to the relevant regulations and take the necessary precautions when handling contaminated parts.

1. Vent the vacuum system and wait until the surface temperature of the valve has cooled down to < 55°C.
2. Unlock the cable socket and unplug it.
3. Remove the small flange fitting and put the protective lid in place.



For detailed information about how to dismount the valve see chapter «6 Maintenance».

8.2 Storage

NOTICE	
	Wrong storage Inappropriate temperatures and humidity may cause damage to the product. The valve must be stored at: – relative humidity between 10% and 70% – temperature between 10 °C and +50 °C – non-condensing environment

1. Clean / decontaminate valve.
2. Cover all valve openings with protective covers or foils.

9 Packaging and Transport



WARNING

Unqualified personnel

Inappropriate handling may cause serious injury or property damage.
Only qualified personnel are allowed to carry out the described work.



WARNING

Harmful substances

Risk of injury in case of contact with harmful substances.
Remove harmful substances (e. g. toxic, caustic or microbiological ones) from product before you return the product to Leybold.



NOTICE

Wrong handling during transport

Valve and attached parts may get damaged.
Use suitable means to transport the valve. Connectors, connecting cables, position indicators and pilot valves must not be used to lift the valve.



NOTICE

Inappropriate packaging

Product may get damaged if inappropriate packaging material is used.
Always use the original packaging material and handle product with care.



When returning products, the completed form «12.2 Declaration of chemical contamination» must be enclosed to the shipment.

9.1 Packaging

	NOTICE Valve in open position Valve mechanism may get damaged if valve gate is in open position. Make sure that the valve is closed.
---	---

1. Cover all valve openings with protective covers or foils.
2. Pack valve appropriately, by using the original packaging material.



Leybold disclaims any liability for damages resulting from inappropriate packaging.

9.2 Transport

	NOTICE Inappropriate packaging Product may get damaged if inappropriate packaging material is used. Always use the original packaging material and handle product with care.
--	---



Leybold disclaims any liability for damages resulting from inappropriate packaging.

10 Disposal

	WARNING
	Harmful substances Environmental pollution. Discard products and parts according to the local regulations.

Separating the components

After disassembling the product, separate its components according to the following criteria:

- **Contaminated components**
 Contaminated components (radioactive, toxic, caustic, microbiological hazard etc.) must be decontaminated in accordance with the relevant national regulations, separated according to their materials, and disposed of.
- **Other components**
 Such components must be separated according to their materials and recycled.

11 Spare parts and accessories



NOTICE

Non-original spare parts

Non-original spare parts may cause damage to the product.
Use original spare parts from Leybold only.

When ordering spare parts or accessories, always indicate:

- all information on the product nameplate
- description and ordering number according to the spare parts or accessories list.

Spare parts

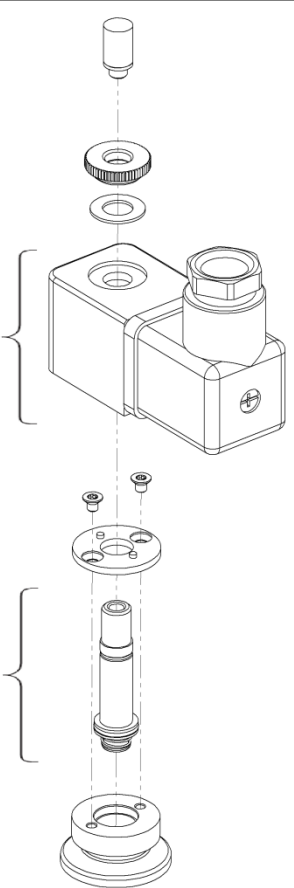
Description		Part No.
Filter, 5 pcs.		215701V01
Pilot valve with cable socket 200 ... 230 VAC 24 VDC		E215240V01 E215242V01
Pole tube, complete		215700V01

Table 11-1

12 Appendix

12.1 Safety information on contamination

Aim and purpose

Each entrepreneur (operating company) is responsible for the health and safety of its employees. The responsibility extends to external personnel carrying out repairs on the site of the operating company and to personnel of contractors.

The enclosed declaration shall inform contractors about contamination of compressors, vacuum pumps and vacuum components returned for repair. Due to this information, the contractor is capable of taking the necessary safety precautions when carrying out repairs.



The same regulations apply for **on-site repairs**.

Preparation for dispatch

Before dispatching the product the operating company must fill out the declaration as per chapter «12.2 Declaration of chemical contamination» and enclose it to the shipping documents. The shipping instructions stated in the relevant user manual must be observed.

For example:

- Drain all service fluids
- Remove filter elements, where applicable
- Close all openings airtight
- Pack products appropriately
- Dispatch products in suitable transport containers



Attach declaration on contamination to the **outside** of the transport container.

12.2 Declaration of chemical contamination

Declaration of Contamination of Compressors, Vacuum Pumps and Components

The repair and / or servicing of compressors, vacuum pumps and components will be carried out only if a correctly completed declaration has been submitted. Non-completion will result in delay. The manufacturer can refuse to accept any equipment without a declaration.

A separate declaration has to be completed for each single component.

This declaration may be completed and signed only by authorized and qualified staff.

Customer/Dep./Institute : _____ Address : _____ _____ Person to contact: _____ Phone : _____ Fax: _____ End user: _____	Reason for return: ☒ applicable please mark Repair: ☐ chargeable ☐ warranty Exchange: ☐ chargeable ☐ warranty ☐ Exchange already arranged / received Return only: ☐ rent ☐ loan ☐ for credit Calibration: ☐ DKD ☐ Factory-calibr. ☐ Quality test certificate DIN 55350-18-4.2.1																																																																
A. Description of the Leybold product: _____ Failure description: _____ Material description : _____ Catalog number: _____ Additional parts: _____ Serial number: _____ Application-Tool: _____ Type of oil (Fore/Vacuum-Pumps) : _____ Application- Process: _____																																																																	
B. Condition of the equipment <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">No¹⁾</th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Contamination :</th> <th style="width: 10%; text-align: center;">No¹⁾</th> <th style="width: 10%; text-align: center;">Yes</th> </tr> </thead> <tbody> <tr> <td>1. Has the equipment been used</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td>toxic</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td>2. Drained (Product/service fluid)</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td>corrosive</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td>3. All openings sealed airtight</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td>flammable</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td>4. Purged</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> <td>explosive ²⁾</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td colspan="4">If yes, which cleaning agent</td> <td></td> <td>radioactive ²⁾</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td colspan="4">and which method of cleaning</td> <td></td> <td>microbiological ²⁾</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> <tr> <td colspan="4">¹⁾ If answered with "No", go to D. ←</td> <td></td> <td>other harmful substances</td> <td style="text-align: center;">☐</td> <td style="text-align: center;">☐</td> </tr> </tbody> </table>			No ¹⁾	Yes	No		Contamination :	No ¹⁾	Yes	1. Has the equipment been used	☐	☐	☐	☐	toxic	☐	☐	2. Drained (Product/service fluid)	☐	☐	☐	☐	corrosive	☐	☐	3. All openings sealed airtight	☐	☐	☐	☐	flammable	☐	☐	4. Purged	☐	☐	☐	☐	explosive ²⁾	☐	☐	If yes, which cleaning agent					radioactive ²⁾	☐	☐	and which method of cleaning					microbiological ²⁾	☐	☐	¹⁾ If answered with "No", go to D. ←					other harmful substances	☐	☐
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C. Description of processed substances (Please fill in absolutely) 1. What substances have come into contact with the equipment ? Trade name and / or chemical term of service fluids and substances processed, properties of the substances According to safety data sheet (e.g. toxic, inflammable, corrosive, radioactive) <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">X</th> <th style="width: 40%;">Tradename:</th> <th style="width: 50%;">Chemical name:</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">a)</td><td></td><td></td></tr> <tr><td style="text-align: center;">b)</td><td></td><td></td></tr> <tr><td style="text-align: center;">c)</td><td></td><td></td></tr> <tr><td style="text-align: center;">d)</td><td></td><td></td></tr> </tbody> </table>		X	Tradename:	Chemical name:	a)			b)			c)			d)																																																			
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b)																																																																	
c)																																																																	
d)																																																																	
2. Are these substances harmful ? No Yes 3. Dangerous decomposition products when heated ? ☐ ☐ If yes, which ? _____																																																																	
²⁾ Components contaminated by microbiological, explosive or radioactive products/substances will not be accepted without written evidence of decontamination.																																																																	

D. Legally binding declaration

I / we hereby declare that the information supplied on this form is accurate and sufficient to judge any contamination level.

Name of authorized person (block letters) : _____

Date _____

signature of authorized person _____

firm stamp

12.3 Declaration of incorporation



EC Declaration of Incorporation

(Translation of original Declaration of Incorporation)

The manufacturer: Leybold GmbH
Bonner Strasse 498
D-50968 Köln
Germany

herewith declares that the following product:

Product designation: HV vacuum valve with pneumatic actuator

Type designation: LEYCON

Part number: 17420, 17426, 17446

complies with the following fundamental requirements of the **Machinery Directive (2006/42/EC)**:
Annex I, Paragraph 1.1.2, 1.1.3, 1.1.5, 1.3.1, 1.3.2, 1.3.4, 1.5.1, 1.5.3, 1.5.4

The safety objectives of the Low Voltage Directive 2014/35/EU were complied with in accordance with
Appendix 1 No. 1.5.1 of Machinery Directive 2006/42/EC.

Other applied directives and harmonized standards:

- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU & 2015/863

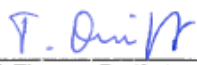
The incomplete machine may only be put into operation after it has been determined that the machine into
which the incomplete machine shall be installed complies with the regulations laid down in the EC
Machinery Directive (2006/42/EC).

The manufacturer commits himself to make the special documentation on the incomplete machine
electronically available to national authorities upon request.

The special engineering documentation belonging to the machine was compiled in accordance with
Annex VII Part B.

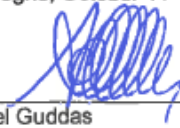
Documentation officer: Leybold GmbH, Bonner Straße 498, D-50968 Köln
T: +49(0)221 347 0
F: +49(0)221 347 1250
documentation@leybold.com

Cologne, October 11th, 2019



i.V. Thomas Dreifert
Engineering Manager
Product Company Cologne

Cologne, October 11th, 2019



Axel Guddas
General Manager
Product Company Cologne

Notes



300503443_000_A1

Čeština (024)	Návod k použití přiložený k tomuto výrobku je standardně k dispozici v němčině a angličtině. Potřebujete-li návod k použití ve svém jazyce (v rámci EU), obraťte se prosím na některou z poboček Leybold.
Dansk (016)	Den medfølgende brugsvejledning til deres produkt fås på to sprog, engelsk og tysk. Hvis en brugsvejledning på eget europæiske sprog ønskes, bedes man tage kontakt til ens Leybold repræsentant.
Deutsch (001)	Die diesem Produkt beigelegte Gebrauchsanleitung liegt standardmäßig in den Sprachen Deutsch und Englisch vor. Für eine Gebrauchsanleitung in Ihrer Landessprache (EU) wenden Sie sich an die Leybold-Niederlassung.
Eesti (028)	Selle tootega kaasnev kasutusjuhend on standardselt saksa ja inglise keeles. Kasutusjuhendi saamiseks teie riigikeeles (EL) pöörduge Leybold-filiaali poole.
Ελληνικά (017)	Οι οδηγίες χρήσης που συνοδεύουν αυτό το προϊόν είναι διαθέσιμες στα γερμανικά και στα αγγλικά. Για οδηγίες χρήσης στη γλώσσα σας (ΕΕ) απευθυνθείτε σε υποκατάστημα της Leybold.
English (002)	The instruction manual supplied with your product is available in two different standard European languages, English and German. If you wish to have a manual in your own European language, please contact your Leybold representative.
Español (006)	Las instrucciones de operación, adjuntas al presente producto, son en alemán e inglés. Para obtener las instrucciones en su idioma nacional (EU), póngase en contacto con su representante de Leybold.
Français (003)	Le mode d'emploi fourni avec ce produit est rédigé en anglais et en allemand. N'hésitez pas à contacter votre agence Leybold si vous avez besoin du mode d'emploi traduit dans la langue de votre pays (union européenne).
Hrvatski (029)	Uz ovaj proizvod standardno su priložena uputstva za upotrebu na njemačkom i engleskom jeziku. Za uputstva na jeziku Vaše zemlje (u EU), obratite se poslovnici Leybold-a.
Italiano (004)	Le istruzioni per l'uso allegate al presente prodotto sono disponibili di norma in lingua tedesca e inglese. Per le istruzioni per l'uso nella propria lingua (UE) si prega di rivolgersi alla filiale Leybold.
Íslenska (034)	Leiðarvísirinn sem fylgir vörinni er gefinn út á tveimur tungumálum, þýsku og ensku. Hafið samband við næsta útibú Leybold varðandi leiðarvísi á tungumáli ykkar (ESB).
Latviešu (030)	Kopā ar jūsu produktu piegādātā lietošanas instrukcija ir pieejama divās dažādās standartā Eiropas valodās, angļu un vācu. Ja jūs vēlaties saņemt instrukciju citā Eiropas valodā, sazinieties ar savu Leybold pārstāvi.
Lietuvių (031)	Prie šio produkto pridedamos naudotojo instrukcijos paprastai pateikiamos dviemomis kalbomis - vokiečių ir anglų. Dėl instrukcijos jūsų valstybine kalba (ES), kreipkitės į Leybold atstovybę.
Magyar (033)	A termékhez mellékelte használati útmutató angol és német nyelvű. Ha a használati útmutatót a saját nyelvén (EU) szeretné megkapni, akkor kérjük forduljon az egyik Leybold képviselőhez.
Nederlands (010)	De bij dit product bijgevoegde gebruiksaanwijzing is standaard in het Duits en Engels beschikbaar. Voor een gebruiksaanwijzing in uw taal (EU), neem dan contact op met het Leybold-filiaal.
Norsk (020)	Bruksanvisningen som medfølger dette produktet finnes som standard i språkversjonene engelsk og tysk. Ønsker du en bruksanvisning på ditt nasjonale språk (innen EU), henvender du deg til en Leybold-forhandler.
Polski (022)	Instrukcja obsługi załączona do tego produktu dostępna jest w języku niemieckim i angielskim. Po instrukcję obsługi w innym języku urzędowym Unii Europejskiej proszę zgłosić się do siedziby Leybold.
Português (005)	As Instruções de Uso anexas a este produto são fornecidas normalmente nas línguas alemã e inglesa. Para Instruções de Uso na sua língua (UE), queira dirigir-se à sucursal de Leybold.
Română (013)	Manualul de utilizare anexat acestui produs este disponibil în mod standard în limbile germană și engleză. Pentru a obține un manual de utilizare în limba țării dumneavoastră (EU), vă rugăm să vă adresați unei reprezentanțe Leybold.
Slovenčina (023)	Návod na používanie priložený k tomuto produktu je štandardne k dispozícii v nemeckom a anglickom jazyku. Ak potrebujete návod na používanie v jazyku svojej krajiny (EÚ), obráťte sa na pobočku Leybold.
Slovenščina (032)	Priložena navodila so na voljo v dveh različnih evropskih jezikih, angleščini in nemščini. Če želite navodila za uporabo v svojem -jeziku (EU), se obrnite na predstavnika Leybold.
Suomi (019)	Tähän tuotteenseen liittyvä käyttöopas on saksan- ja englanninkielellä. Mikäli haluatte käyttöoppaan maanne kielellä (EU), voitte kääntyä vastaavan Leybold-toimipisteen puoleen.
Svenska (009)	Den användarmanual som följer med denna produkt finns i standardutförandet på tyska och engelska. Vänd dig till en Leybold-återförsäljare för en användarmanual på ditt språk (gäller EU-språk).
Türkçe (018)	Bu ürünün ekinde bulunan kullanım kılavuzu, standart olarak Almanca ve İngilizce dillerinde bulunmaktadır. Kendi dilinizdeki (AB) kullanım kılavuzu için bir Leybold-Şubesine başvurun.
Български (027)	Приложенияте към този продукт указания за употреба в общия случай са налични на немски и на английски език. За указания на Вашия език (ЕС) можете да се обърнете към представителството на Leybold.
Русский (007)	В стандартную комплектацию изделия входит руководство по эксплуатации на немецком и английском языках. За руководством по эксплуатации на языке Вашей страны (ЕС), пожалуйста, обращайтесь в представительство Leybold.

Sales and Service

Germany

Leybold GmbH

Sales, Service, Support Center (3SC)
Bonner Straße 498
D-50968 Cologne
T: +49-(0)221-347 1234
F: +49-(0)221-347 31234
sales@leybold.com
www.leybold.com

Leybold GmbH Sales Area North

Branch Office Berlin
Industriestraße 10b
D-12099 Berlin
T: +49-(0)30-435 609 0
F: +49-(0)30-435 609 10
sales.bn@leybold.com

Leybold GmbH Sales Office South

Branch Office Munich
Karl-Hammerschmidt-Straße 34
D-85609 Aschheim-Dornach
T: +49-(0)89-357 33 9-10
F: +49-(0)89-357 33 9-33
sales.mn@leybold.com
service.mn@leybold.com

Leybold Dresden GmbH Service Competence Center

Zur Wetterwarte 50, Haus 304
D-01109 Dresden
T: +49-(0)351-88 55 00
F: +49-(0)351-88 55 041
info.dr@leybold.com

Europe

Belgium

Leybold Nederland B.V.
Belgisch bijkantoor
Levenssesteenweg 542-9A
B-1930 Zaventem
Sales:
T: +32-2-711 00 83
F: +32-2-720 83 38
sales.zv@leybold.com
Service:
T: +32-2-711 00 82
F: +32-2-720 83 38
service.zv@leybold.com

France

Leybold France S.A.S.
Parc du Technopolis, Bâtiment Beta
3, avenue du Canada
F-91940 Les Ulis cedex
Sales and Service:
T: +33-1-69 82 48 00
F: +33-1-69 07 57 38
info.ctb@leybold.com
sales.ctb@leybold.com

Leybold France S.A.S.

Valence Factory
640, Rue A.Bergès
B.P. 107
F-26501 Bourg-lès-Valence Cedex
T: +33-4-75 82 33 00
F: +33-4-75 82 92 69
marketing.vc@leybold.com

Great Britain

Leybold UK LTD.

Unit 9
Silverglade Business Park
Leatherhead Road
Chessington
Surrey (London)
KT9 2QL
Sales:
T: +44-13-7273 7300
F: +44-13-7273 7301
sales.in@leybold.com
Service:
T: +44-13-7273 7320
F: +44-13-7273 7303
service.in@leybold.com

Italy

Leybold Italia S.r.l.

Via Trasimeno 8
I-20128 Mailand
Sales:
T: +39-02-27 22 31
F: +39-02-27 20 96 41
sales.mi@leybold.com
Service:
T: +39-02-27 22 31
F: +39-02-27 22 32 17
service.mi@leybold.com

Netherlands

Leybold Nederland B.V.

Floridadreef 102
NL-3565 AM Utrecht
Sales and Service:
T: +31-(30) 242 63 30
F: +31-(30) 242 63 31
sales.ut@leybold.com
service.ut@leybold.com

Switzerland

Leybold Schweiz AG, Pfäffikon
Churerstrasse 120
CH-8808 Pfäffikon
Warehouse and shipping address:
Riedthofstrasse 214
CH-8105 Regensdorf
Sales:
T: +41-44-308 40 50
F: +41-44-302 43 73
sales.zh@leybold.com
Service:
T: +41-44-308 40 62
F: +41-44-308 40 60
service.zh@leybold.com

Spain

Leybold Spain, S.A.
C/ L. Huelva, 7
E-08940 Cornelià de Llobregat
(Barcelona)
Sales:
T: +34-93-666 43 11
F: +34-93-666 43 70
sales.ba@leybold.com
Service:
T: +34-93-666 46 11
F: +34-93-685 43 70
service.ba@leybold.com

America

USA

Leybold USA Inc.

5700 Mellon Road
USA-Export, PA 15632
T: +1-724-327-5700
F: +1-724-325-3577
info.ex@leybold.com
Sales:
T: +1-724-327-5700
F: +1-724-333-1217
Service:
T: +1-724-327-5700
F: +1-724-325-3577

Brazil

Leybold Brasil

Rod. Vice-Prefeito Hermenegildo Tonolli,
nº. 4413-6B
Distrito Industrial
Jundiá – SP
CEP 13.212-315
Sales and Service:
T: +55 11 3395 3180
F: +55 11 99467 5934
sales.ju@leybold.com
service.ju@leybold.com

Asia

P. R. China

Leybold (Tianjin)

International Trade Co. Ltd.
Beichen Economic
Development Area (BEDA),
No. 8 Western Shuangchen Road
Tianjin 300400
China
Sales and Service:
T: +86-22-2697 0808
F: +86-22-2697 4061
F: +86-22-2697 2017
sales.tj@leybold.com
service.tj@leybold.com

India

Leybold India Pvt Ltd.

No. 82(P), 4th Phase
K.I.A.D.B. Plot
Bommasandra Industrial Area
Bangalore – 560 099
India
Sales and Service:
T: +91-80-2783 9925
F: +91-80-2783 9926
sales.bgl@leybold.com
service.bgl@leybold.com

Japan

Leybold Japan Co., Ltd.

Headquarters
Shin-Yokohama A.K.Bldg., 4th floor
3-23-3, Shin-Yokohama
Kohoku-ku, Yokohama-shi
Kanawaga 222-0033
Japan
Sales:
T: +81-45-471-3330
F: +81-45-471-3323
sales.yh@leybold.com

Leybold Japan Co., Ltd.

Tsukuba Technical Service Center
1959, Kami-yokoba
Tsukuba-shi, Ibaraki-shi 305-0854
Japan
Service:
T: +81-29 839 5480
F: +81-29 839 5485
service.iik@leybold.com

Malaysia

Leybold Malaysia

Leybold Singapore Pte Ltd.

No. 1 Jalan Hi-Tech 2/6
Kulim Hi-Tech Park
Kulim, Kedah Darul
Aman 09000
Malaysia
Sales and Service:
T: +604 4020 222
F: +604 4020 221
sales.ku@leybold.com
service.ku@leybold.com

South Korea

Leybold Korea Ltd.

3F, Jellzone 2 Tower
Jeongja-dong 159-4
Bundang-gu Sungnam-si
Gyeonggi-do
Bundang 463-384, Korea
Sales:
T: +82-31 785 1367
F: +82-31 785 1359
sales.bd@leybold.com
Service:
623-7, Upsung-Dong
Cheonan-Si
Chungcheongnam-Do
Korea 330-290
T: +82-41 589 3035
F: +82-41 588 0166
service.cn@leybold.com

Singapore

Leybold Singapore Pte Ltd.

8 Commonwealth Lane #01-01
Singapore 149555
Singapore
Sales and Service:
T: +65-6303 7030
F: +65-6773 0039
sales.sg@leybold.com
service.sg@leybold.com

Taiwan

Leybold Taiwan Ltd.

No 416-1, Sec. 3
Chunghsin Rd., Chutung
Hsinchu County 310
Taiwan, R.O.C.
Sales and Service:
T: +886-3-500 1688
F: +886-3-583 3999
sales.hc@leybold.com
service.hc@leybold.com

Headquarter

Leybold GmbH

Bonner Straße 498
D-50968 Cologne
T: +49-(0)221 347 0
F: +49-(0)221-347 1250
info@leybold.com



www.leybold.com