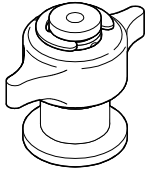


Venting Valve

manually actuated
with screw cap
DN 10 ISO-KF

VVH010-A
VVH010-X



Operating Manual
Incl. Manufacturer's declaration

sina55e1 (0005)

Validity

This document applies to products with part numbers
250-840 (VVH010-A aluminum housing)
250-841 (VVH010-X stainless steel housing)

We reserve the right to make technical changes without prior notice.

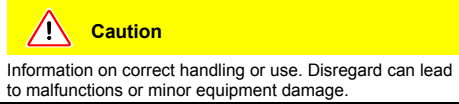
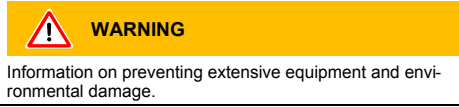
Intended Use

The Venting valves are used for manual venting of small vacuum systems.

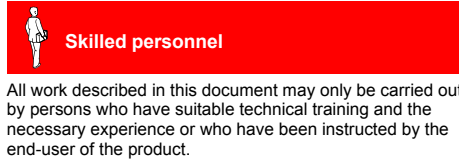
Functional Principle

The Venting valve is opened by loosening and closed by tightening the screw cap.

Symbols Used



Personnel Qualifications



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.
- 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.

Communicate the safety instructions to all other users.

Liability and Warranty

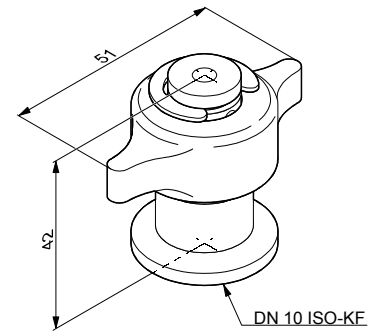
Inficon assumes no liability and the warranty becomes null and void if the end-user or third parties

- 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 not listed in the corresponding product documentation.

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

	VVH010-A aluminum	VVH010-X stainless steel
Connection flange	DN 10 ISO-KF	
Installation angle	any	
Actuation	manual actuation via screw cap	
Valve completely opened	2 turns from idle stroke	
Venting time (50 l)	14 s	
Tightness	1×10 ⁻⁹ mbar l/s	
Pressure range	1×10 ⁻⁸ mbar ... 1 bar (absolute)	
Bursting pressure	5 bar (absolute)	
Temperatures ambience bakeout	0 °C ... 80 °C ≤80 °C	0 °C ... 120 °C ≤120 °C
Materials		
housing	3.0615	1.4305
valve plate	3.0615	1.4301
O-ring	FPM	
screw cap	brass (nickel-plated)	
protective lid	PE	
packing	carton box, foamed material	
Weight	0.1 kg	0.15 kg

Dimensions [mm]



Installation

Vacuum connection

Caution



Caution: vacuum component
Dirt and damages impair the function of the vacuum component.
When handling vacuum components, take appropriate measures to ensure cleanliness and prevent damages.

Caution

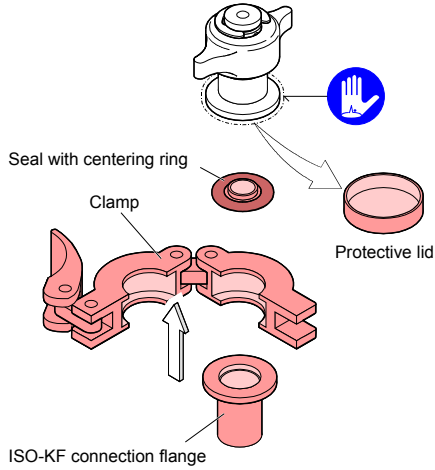


Caution: dirt sensitive area
Touching the product or parts thereof with one's bare hands increases the desorption rate.
Always wear clean, lint-free gloves and use clean tools when working in this area.



Notice:
Keep the protective lid and put it in place again when removing the valve from the vacuum system.

Remove the protective lid and connect the valve to the vacuum system by means of the small flange fitting.



Operation

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

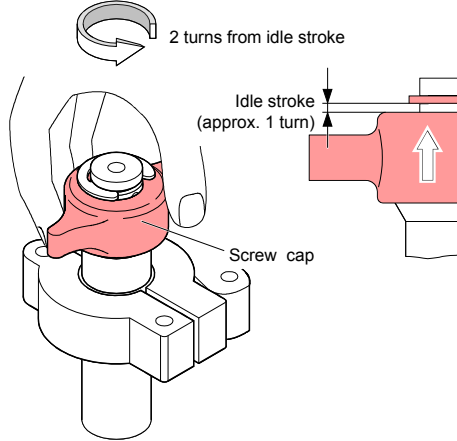
When the valve is delivered, it is slightly opened (i.e. not tight).

DANGER

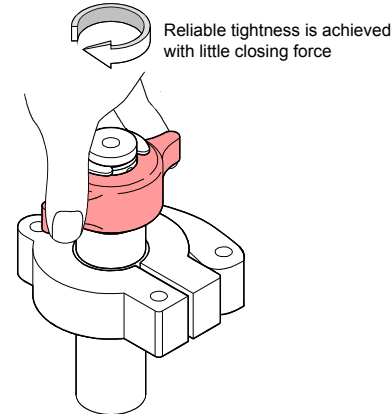


Caution: hot surface
Touching the hot surface (> 55 °C) can cause burns.
Wear protective gloves.

Opening



Closing



Deinstallation

DANGER



Caution: 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



Caution: vacuum component
Dirt and damages impair the function of the vacuum component.
When handling vacuum components, take appropriate measures to ensure cleanliness and prevent damages.

Caution

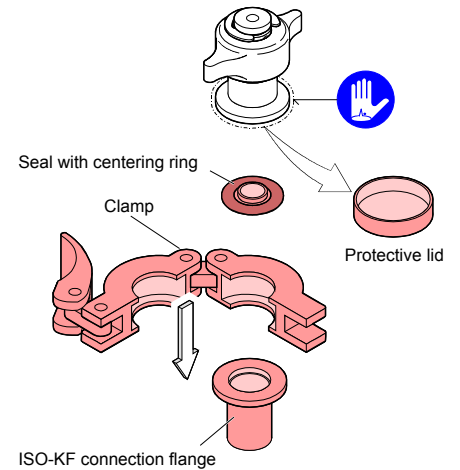


Caution: dirt sensitive area
Touching the product or parts thereof with one's bare hands increases the desorption rate.
Always wear clean, lint-free gloves and use clean tools when working in this area.

Precondition

The vacuum system has been vented and the Venting valve has cooled down to < 55 °C.

Disassemble the small flange connection and place the protective lid.



(0005)

Maintenance/Repair

Under clean operating conditions, the product requires no maintenance.

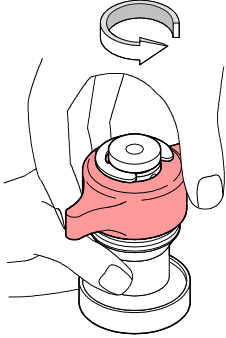
Disassembling and Cleaning the Valve

Precondition

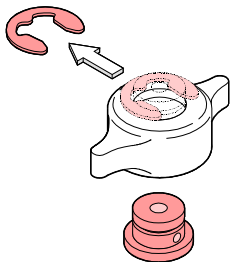
The Venting valve has been deinstalled according to section "Deinstallation".

Procedure

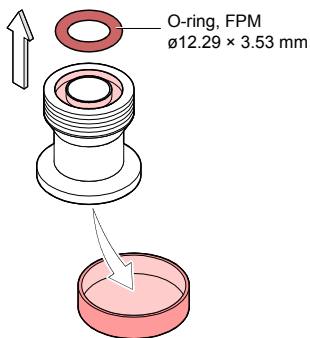
- 1 Completely unscrew the screw cap (approx. 3½ turns from idle stroke).



- 2 Remove the circlip.



- 3 Carefully remove the O-ring and take off the protective lid.



Notice
When reassembling the valve, treat the O-ring with a lint-free cloth slightly moistened with vacuum oil. Be careful to insert the O-ring level into the groove without twisting it.

- 4 Clean the Venting valve.

STOP DANGER

Caution: cleaning agents
Cleaning agents can be detrimental to health and environment.
Adhere to the relevant regulations and take the necessary precautions when handling and disposing of cleaning agents. Consider possible reactions with the product materials.

Procedure

- Carefully clean the parts with a grease solving, non-scouring cleaner.
- After cleaning the parts should preferably be rinsed with alcohol and subsequently heated to $\approx 50^{\circ}\text{C}$ in an oven or with an industrial blower.
- Carefully clean the sealing surfaces with a lint-free cloth soaked with alcohol. Allow them to dry.

- 5 Perform the above steps in reverse order to re-assemble the valve.

Returning the Product

! WARNING

Caution: forwarding contaminated products
Contaminated products (e.g. radioactive, toxic, caustic or microbiological) can be detrimental to health and environment.
Products returned to Inficon should preferably be free of harmful substances. Adhere to the forwarding regulations of all involved countries and forwarding companies and enclose a duly completed declaration of contamination.

Products that are not clearly declared as "free of harmful substances" are decontaminated at the expense of the customer.

Products not accompanied by a duly completed declaration of contamination are returned to the sender at his own expense.

Disposal

STOP DANGER

Caution: 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.

! WARNING

Caution: substances detrimental to the environment
Products or parts thereof (mechanical and electric components, operating fluids etc.) can be detrimental to the environment.
Dispose of such substances in accordance with the relevant 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 recycled.
- Other components
Such components must be separated according to their materials and recycled.

Declaration of Contamination

The service, repair, and/or disposal of vacuum equipment and components will only be carried out if a correctly completed declaration has been submitted. Non-completion will result in delay. This declaration may only be completed (in block letters) and signed by authorized and qualified staff.

1 Description of product
 Type _____
 Article Number _____
 Serial Number _____

2 Reason for return

3 Operating fluid(s) used

4 Process related contamination of product:

toxic	no <input type="checkbox"/>	yes <input type="checkbox"/>	
corrosive	no <input type="checkbox"/>	yes <input type="checkbox"/>	
biological hazard	no <input type="checkbox"/>	yes <input type="checkbox"/> *)	
explosive	no <input type="checkbox"/>	yes <input type="checkbox"/> *)	
radioactive	no <input type="checkbox"/>	yes <input type="checkbox"/> *)	
other harmful substances	no <input type="checkbox"/>	yes <input type="checkbox"/>	

*) Products thus contaminated will not be accepted without written evidence of decontamination!

The product is free of any substances which are damaging to health yes

5 Harmful substances, gases and/or by-products
 Please list all substances, gases, and by-products which the product may have come into contact with:

Trade/product name manufacturer	Chemical name (or symbol)	Dangerous material class	Measures in case of spillage	First aid in case of contact

6 Legally binding declaration:
 I/we hereby declare that the information on this form is complete and accurate and that I/we will assume any further costs that may arise. The contaminated product will be in accordance with the applicable regulations.

Organization/company _____
 Address _____ Post code, place _____
 Phone _____ Fax _____
 Email _____
 Name _____

Data and legally binding signature _____ Company stamp _____

This form can be downloaded from our website.

Copies: Original for addressee - 1 copy for accompanying documents - 1 copy for file of sender

Manufacturer's Declaration

as defined by the Council Directive relating to machinery 98/37/EC, Appendix IIb.

We, Inficon, hereby declare that putting the incomplete equipment mentioned below into operation is not permitted until evidence is given that the system into which the incomplete equipment shall be installed is in accordance with the provisions of the EC Council Directive relating to machinery.

Venting Valve

manually actuated
 with screw cap
 DN 10 ISO-KF

VVH010-A
 VVH010-X

Part numbers
 250-840
 250-841

Standards

Harmonized and international/national standards and specifications:

- ISO 1609
- DIN 28 403

Signatures

Balzers, 11 April 2000

Robert Polacek
 Product management

Balzers, 11 April 2000

Heinz-Hermann Kersken
 Product development