

USER MANUAL

FLOAT TYPE STEAM TRAP

SK-61

SYMBOLS AND DESCRIPTIONS

Warning Signs in User's Guide



IMPORTANT INFORMATION Shows useful tips and suggestions.



DANGER

Indicates danger to life and property.



HIGH VOLTAGE

Warning danger of electric shock!



FIRE DANGER

Warning danger of fire!



HOT SURFACE

Warning risk of hot surface!

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Please read this manual before you start using it!

CONTENT

PAGE TITLE

- 2 General Information
- 2 General Features
- 3-4 Safety and Environmental Instructions
 - 4 Transport, Packaging and Storage
 - 5 Installation
 - 5 Operation
 - 6 Maintenance and Cleaning Disassembly,
 - 7 Maintenance and Cut-out
- 8-9 Technical Drawing

1. GENERAL INFORMATION



- Products are designed and manufactured by professional team. All parts are manufactured with high quality standards and environmental factors in mind.
- The user manual describes the correct and safe use of the item. All health and safety instructions must be followed during the installation.
- The operating area must be selected correctly to avoid missapplication.
- That user manual is a part of the product and must be read.
- The installer must carry out the installation in accordance with the warnings and information specified in the user manual.
- General terms and conditions stated at sales document.
- Ayvaz reserves the right to change products, specifications at any time without any prior notice.

PRODUCT CODE: SK-61

2. GENERAL FEATURES



2.1 GENERAL SAFETY INFORMATION

The safety use of steam trap according to working instructions can be done if it can be install and maintain by qualified person. Installation of jacket to the line, safety instructions, safety tools and correct use of tools must be available too.

PRESSURE

Before the maintenance, be careful if there is pressure at the pipeline which jacket going to be installed. If there is pressure in the system, it should be discharged by safely.

TEMPERATURE

Before the maintenance, be careful of the temperature on the line. It can cause some physical injuries. Please wait until the temperature decrease to nominal level.

2.2 GENERAL PRODUCT INFORMATION

SK-61 product is a float trap with air discharge unit.

SK 61 type float trap provides mounting possibilities for right-to-left flow and left-to-right flow in horizontal position. Connection for vertical flow is also possible. The condensate flow direction must be specified during the ordering process. The factory default setting is flow direction from right to left.

3. SAFETY AND ENVIRONMENTAL INS.

This product is produced for industrial use. It is dangerous for household use.

3.1 General Safety Instructions

- Follow the installation and maintenance instructions of the user manual.
 - Wear protective goggles and gloves during operation.
 - Repairs should only be carried out by technical experts. Otherwise, accidents may occur.
 - Do not use non-operating switches and electronic devices. Contact the authorized service for support.
 - Signs should be placed where the fluid temperature is 60 ° C and above.
- The item must be operated in accordance with the general safety instructions listed above. Ayvaz cannot be held responsible for problems arising from use that does not comply with the safety instructions.

3.2 Working Conditions

Pressure Class	PN25
PMA-Pressure Maximum Allowable (bar)	25
TMA-Temperature Maximum Allowable (°C)	300
PMO-Pressure Maximum Operation (bar)	25
TMO-Temperature Maximum Operation (°C)	250
PMX-Differential Pressure Maximum (bar)	4,5 -10 - 14

3.3 Incorrect Usage

Incorrect use may result in hazardous situations and injuries.

- Do not make any changes to the product without authorization. Otherwise the product will not be covered by the warranty.
- Do not use the product in hazardous areas.

Ayvaz cannot be held responsible for any dangerous situations and injuries caused by incorrect usage.

Do not use this item in combination with safety precautions or emergency devices.

3.4 Responsibility of the User

This item is a commercial product. Therefore, the user is responsible for legal obligations related to occupational safety.

Along with the safety instructions specified in this user manual; accident prevention measures and environmental protection laws must be considered.

To use the item safely, the user must follow the instructions below;

- The user must be regularly familiar with occupational health and safety issues, be familiar with first aid and be able to follow the instructions in this manual.
- User must read user manual and safety instructions and understand.
- Do not test the item and do not use it out of design purpose.
- Control of the safety, pressure and temperature of the facility where the item will be decided by the user.

3.5 User Competence

Operating and handling errors can cause serious injuries to the user and damages to the product.

- Actions described in this guide, a user with qualifications which is mentioned below can perform the installation.
- The installation has to be done by qualified installers.

Competent User

A competent user is an individual authorized by the company, who is eligible to understand the technical information contained in this manual, has knowledge of measurement and control, knows the legal responsibilities of the country in which he performs the operation or installation operation, is able to operate independently in dangerous areas, in compliance with current standards and regulations.

3.6 Personal protective equipment

Personal protective equipment is a means of protecting competent users from hazards that may occur during operation. The competent user must wear personal protective equipment during installation. Follow the protection directives at the work site. Personal protective equipment must be supplied by the company that purchased the product.

4. TRANSPORT, PACKAGING AND STORAGE



4.1 Transport

After the item reaches you, check for damage caused by the transport. Report any significant damage immediately.

4.2 Packaging and Storage

Do not remove the package before installing the item. Keep the item in a safe place for damage.

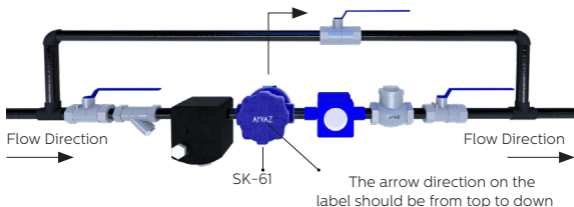
5. INSTALLATION



Before the installation, you should read safety instructions carefully.

- a-** Check the label and technical information sheet if the product is suitable for the required installation.
- b-** Check the maximum pressure and temperature values. If the pressure in the system is higher than the maximum value of the product, provide the use of safety tools in order to prevent the excess pressure.
- c-** Remove the product from package carefully. Parts of the product may resemble the packaging element. In this case, please contact your dealer.
- d-** Determine the liquid flow direction and the correct mounting position (flow direction on the body)
- e-** If the condensate is discharged into the atmosphere, take into account that the temperature of the discharged condensate may be 100 °. Make sure the system is fully functional after installation and maintenance.
- f-** The traps can also be used in vertical connections with top entry, bottom outlet or horizontal connections from right to left and left to right. The flow direction is accepted from right to left when not specified in the order stage. A maximum of 120mm is required to remove the cover.

The arrow here should be the same as the flow direction.



6. OPERATION



The steam trap is a trap which continuously evacuates the condensate. When the system starts to operate, the thermostatic air ejector activates and evacuates the air in the system. Subsequent steam closes the air ejector, but as soon as the condensate trap arrives, the lamella rises and opens the main valve and the condensate is evacuated. When the steam reaches the trap again, the float descends and closes the main valve.

7. MAINTENANCE & CLEANING



7.1 Maintenance

Before carrying out any operation on the trap, the trap should be isolated from the supply line and return line and the pressure in the system should be relieved safely. Then the trap should be allowed to cool. When reassembling the system, ensure that all connection surfaces are clean.

7.2 Cleaning

It can cause physical injury, product damage and environmental damage.

The fluid in the item can be a risk to the user, the environment and the item itself.

- If there is a shut-off valve, the bottom shut-off valve is closed first. The fluid in the device is discharged into a suitable storage container by means of a drain plug or valve.
 - The device is carefully disassembled.
 - The inside of the device is cleaned with a soft brush and the outside with a wet cloth and allowed to dry.
 - Electrical connections must not come into contact with the wet area.
-
- Do not use aggressive cleaning agents.
 - Do not clean with sharp or hard objects.

8. DISASSEMBLY, MAINTENANCE AND CUT-OUT



Fluid that can cause physical injury, product damage and environmental damage.

- Carefully clean the dismantled item to eliminate physical injuries, fluid damage, and damage to the environment.

8.1 Disassembly

If there are closing valves, remove the item safely after closing the closing valves. If there is not closing valve, remove only the item to be disassembled on the tank when the system pressure and electrical connections are cut off.

8.2 Maintenance

Clean the item carefully to eliminate physical injuries, product damage, and environmental damage from the fluid before sending it to maintenance. Contact our customer representative for shipping operations.

8.3 Cut-Out

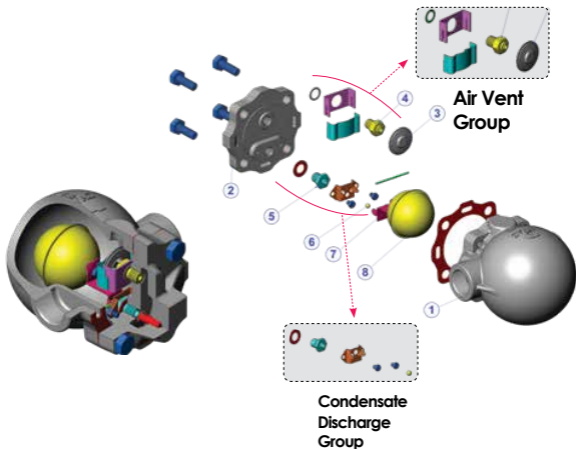
This product is made of high quality parts and materials which are recyclable and reusable. Therefore, do not dispose of the product with household or other waste at the end of its service life.

Metal recycling facilities can be taken to recycling.

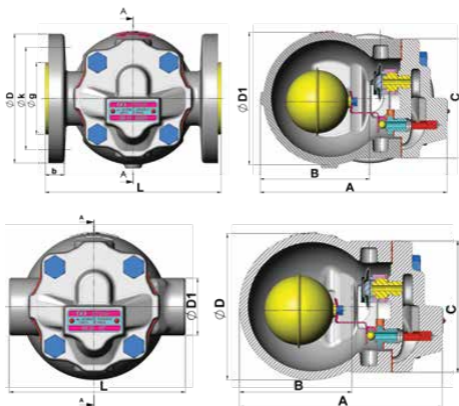
9. TECHNICAL DRAWING



SK-51 TECHNICAL SPECIFICATIONS



Part List			SK-61 Weights (kg)	
No	Part Name	Material		
1	Body	Stainless Steel AISI 316	1/2"	3,2
2	Cover	Stainless Steel AISI 316	3/4"	3,2
3	Thermostatic Capsule	Stainless Steel	1"	4,4
4	Capsule Seat	Stainless Steel AISI 304	DN15	4,25
5	Float Seat	Stainless Steel AISI 304	DN20	4,675
6	Ball	Stainless Steel AISI 440 C	DN25	6,56
7	Float Lever	Stainless Steel AISI 304		
8	Float	Stainless Steel AISI 304		



Dimensions

Size	Code	Flanged											
		ØD (mm)	Øk (mm)	Øg (mm)	b (mm)	Ø14x4 (mm)	A (mm)	H1 (mm)	H2 (mm)	H (mm)	L1 (mm)	L2 (mm)	L (mm)
DN 15	703200102001	95	65	46	14	Ø14x4	152.5	81.5	106	95	150	245	320
DN 20	703200102004	105	75	56	16	Ø14x4	152.5	81.5	106	98	150	245	320
DN 25	703200102011	117	85	65	17	Ø14x4	170	99.5	108	120	160	252	320

Size	Code	Threaded							
		ØD (mm)	A (mm)	H1 (mm)	H2 (mm)	H (mm)	L1 (mm)	L2 (mm)	L (mm)
1/2"	703200101001	150	81.5	108	98	40	122	277	270
3/4"	703200101004	150	81.5	108	98	40	122	277	270
1"	703200101007	167	92.5	108	120	47	145	290	300

All the dimensions in the table are given in "mm".

Subject to technical alterations and deviations resulting from the manufacturing process without giving any notification.



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