



Manufacturer of shut-off and control valves

## TECHNICAL DATA SHEET

**Thermodynamic condensate drain ELEPHANT  
STT2131M-W DN10-50 40 bar steel, under welding**



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## 1. GENERAL PRODUCT INFORMATION

1.1. GENERAL DESCRIPTION Product name: Thermodynamic condensate drain ELEPHANT STT2131M-W DN10-50 40 bar steel, welded.

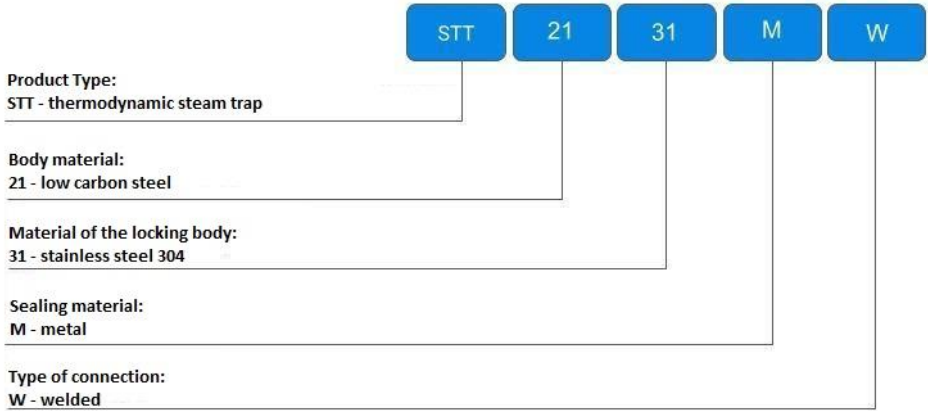
1.2. Manufacturer (supplier): ELEPHANT, Carrer d'Aragó,264,3-1,08007 Barcelona, Spain  
E-mail address: [\\_sales@valveelephant.com](mailto:_sales@valveelephant.com).

1.3. Purpose: The condensate drain is designed to release condensate, air and other non-condensable gases from the steam system, as well as to delay steam until its complete condensation.

1.4 Principle of operation: operation of the condensate drain is based on the difference in velocity of condensate and steam when flowing in the gap between the seat and disk. When steam flows through, the velocity in the gap under the disk increases with a corresponding pressure drop - the valve closes.



## 1.6. Deciphering of the designation:



## 2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	10-50
Working pressure PN, bar	40
Type of condensate drain	thermodynamic
Operating temperature of medium, °C	250-300
Maximum medium temperature, °C	350
Working medium	saturated steam, superheated steam, compressed air, compressed gas
Connection to pipeline	welding



### 3. BASIC MATERIALS

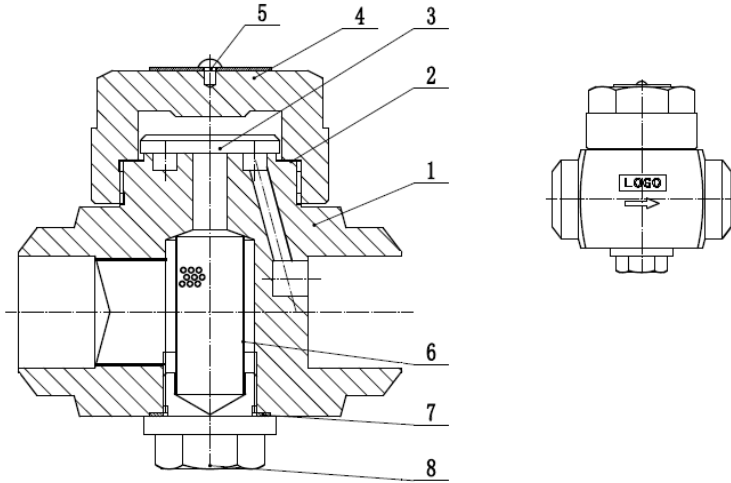


Table 2

Nº	Part name	Material
1	Body	steel 20
2	Cover gasket	steel13Cr
3	Plate	stainless steel AISI 304
4	Cover plate	steel 20
5	Logo plate	stainless steel AISI 304
6	Filter	stainless steel AISI 304
7	Gasket	steel13Cr
8	threaded plug	steel 20



#### 4. WEIGHT AND DIMENSIONAL PARAMETERS

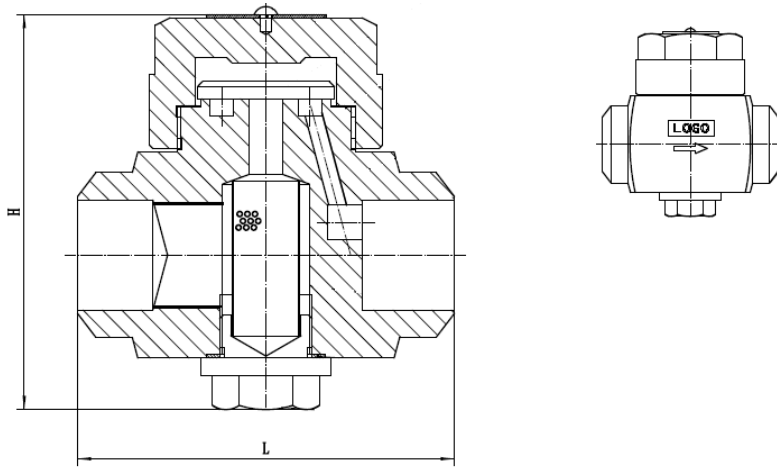


Table 3

DN	L, mm	H, mm	Throughput capacity Kv, t/h	Weight, kg
10	70	80	0,4	1,0
15	70	84	0,4	1,0
20	80	84	0,4	1,2
25	85	88	0,4	1,5
32	110	100	0,8	4,0
40	120	110	0,8	4,5
50	140	125	0,9	5,5



## **5. OPERATING INSTRUCTIONS**

5.1. Steam traps ELEPHANT KCF do not require special maintenance. The scope and intervals of maintenance are determined by the operating organization, based on the operating conditions.

5.2 It is necessary to provide installation of appropriate shut-off valves, providing reliable disconnection of the necessary section of the pipeline for carrying out any works on it.

5.3 When traps are used in new systems that have not been flushed, it may be necessary to inspect and clean the trap. Before starting maintenance, isolate the section of piping with the trap and depressurize to zero. Allow the trap to cool down. When reassembling, make sure that all mating surfaces are clean.

5.4 Maintenance and repairs can be carried out without removing the trap from the pipeline, provided the necessary precautions are observed. Prior to installation, disassembly and maintenance work, disconnect the trap from steam and condensate sources and depressurize the system.

5.5. When operating the trap traps, the regulations must be followed in accordance with the company's established procedures.

## **6. INSTALLATION INSTRUCTIONS**

6.1. The installation, operation and maintenance of condensate traps may be performed by personnel who have studied the product design, safety rules, requirements of this TP and have skills in working with condensate traps.

6.2 Before installing the condensate trap it is necessary to clean the pipeline from impurities by blowing out. All filters, if they are installed upstream of the traps, should also be purged.

6.3 It is mandatory to check that the trap is installed in the direction of flow. The flow direction arrow is shown on the product body.

6.4 If there is a possibility of system pressure exceeding the pressure limit of the trap, it must be ensured that a safety valve is in place.

6.5 When draining to the atmosphere, it must be ensured that the condensate will be discharged to a safe place.



## **7. TRANSPORTATION AND STORAGE CONDITIONS**

7.1. The condensate traps can be transported in packaging made in accordance with the company's established procedure.

7.2. Storage of condensate traps should provide conditions that guarantee safety of products from mechanical damage and corrosion.

## **8. UTILIZATION**

8.1. The product is disposed of in accordance with the procedure established at the enterprise (remelting, burial, resale).



## **9. WARRANTY OBLIGATIONS**

9.1. Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

9.2. The warranty applies to equipment installed and used in accordance with the installation instructions and product specifications described in this data sheet.

9.3. The manufacturer guarantees compliance of the product with safety requirements, provided that the consumer complies with the rules of transport, storage, installation and operation.

9.4. The warranty covers all defects caused by the fault of the manufacturer.

9.5. The warranty does not apply:

- parts and materials of the product subject to wear and tear;
- for cases of damage caused by:
  - modifications to the original design of the product;
  - violation of general installation recommendations;
  - faults caused by improper maintenance and storage; improper operation and use of the equipment.

## **10. WARRANTY TERMS**

10.1. Claims to the quality of the goods may be made during the warranty period.

10.2. Defective products are repaired or exchanged for new ones free of charge during the warranty period. ELEPHANT decides whether to replace or repair the product. The replaced product or its parts resulting from the repair shall become the property of 'ELEPHANT'.

10.3. Costs related to dismantling, installation and transport of the defective product during the warranty period shall not be reimbursed to the Buyer.

10.4. If the claim is unfounded, the Buyer shall pay the costs of diagnostics and expertise of the product.

10.5. Products are accepted for warranty repair (as well as for return) fully assembled.





## WARRANTY CARD № \_\_\_\_\_

№	Product Name	Packs

Name and address of the trading organisation \_\_\_\_\_

Date of sale \_\_\_\_\_ Seller's signature \_\_\_\_\_

Stamp or seal of the trading organisation \_\_\_\_\_ Acceptance stamp \_\_\_\_\_

I agree with the terms and conditions of the warranty:

Buyer \_\_\_\_\_ (signature)

Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

For warranty repairs, complaints and product quality claims, please contact ELEPHANT at: Carrer d'Aragó,264,3-1,08007 Barcelona, Spain\_E-mail address: sales@valveelephant.com.

When making a complaint about the quality of goods, the buyer shall present the following documents:

1. A free-form application, which shall specify:
  - name of the organisation or full name of the buyer, actual address, contact telephone numbers;
  - name and address of the organisation that carried out the installation;
  - basic parameters of the system in which the product was used;
  - a brief description of the defect.
2. Document confirming the purchase of the product (delivery note, receipt)..
3. Act of hydraulic test of the system in which the product was installed.
4. This completed warranty card.

A note on the return or exchange of goods \_\_\_\_\_

Date: « \_\_\_ » \_\_\_\_\_ 202\_\_ r. Caption \_\_\_\_\_

