



Manufacturer of shut-off and control valves

## TECHNICAL DATA SHEET

**Solenoid valve ELEPHANT VS2x-xT-NC-x  
DN15-25 10 bar direct acting, brass/stainless steel, threaded**



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## 1. GENERAL PRODUCT INFORMATION

**1.1. Product name:** Solenoid valve ELEPHANT VS2x-xT-NC-x DN15-25 10 bar direct acting, brass/stainless steel, threaded.

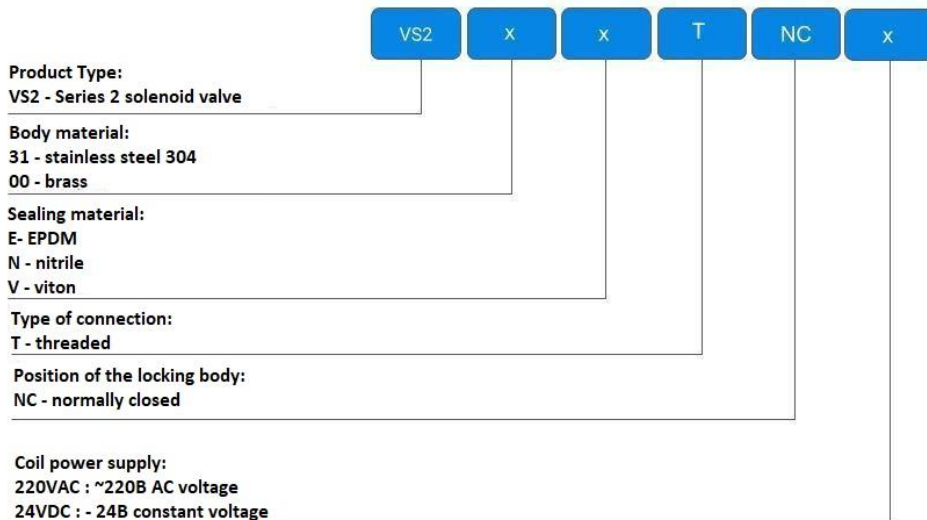
**1.2. Purpose:** Solenoid solenoid valve is a special device designed for convenient control of the working medium flow. This process is carried out in the pipeline under pressure.

**1.3. Working principle:** In a normally closed solenoid valve, the closed position is maintained if no control voltage is applied to its induction coil. When the coil is energized, the normally closed valve opens and allows the medium to flow through. When the control voltage is switched off, the valve closes automatically and blocks the flow of medium in the pipeline.

**1.4. Operational limitations:** The valve is not intended for use in NPP safety systems, as well as in environments containing aggressive components, dust and gases in concentrations destructive to metals.



## 1.5. Deciphering of the designation:



## 2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

DN	Connection thread	Cross-sectional area (mm)	Cv (m3/h)	Working pressure (bar)		Housing material
				normally closed		
				AC220V	DC24V	
15	1/2"	15	4.5	0 ~ 10	0 ~ 7	Brass / stainless steel SS304
20	3/4"	20	9.3	0 ~ 10	0 ~ 7	
25	1"	25	12	0 ~ 10	0 ~ 7	

Table continuation 1

DN	Coil power		Sealing material (max. temperature)	Operating medium
	Volt-ampere	Watt		
	AC220V	DC24V		
15	22	17	NBR (-5 – 80 °C) EPDM	water, compressed air
20	22	17		
25	22	17		



### 3. WEIGHT AND DIMENSIONAL PARAMETERS

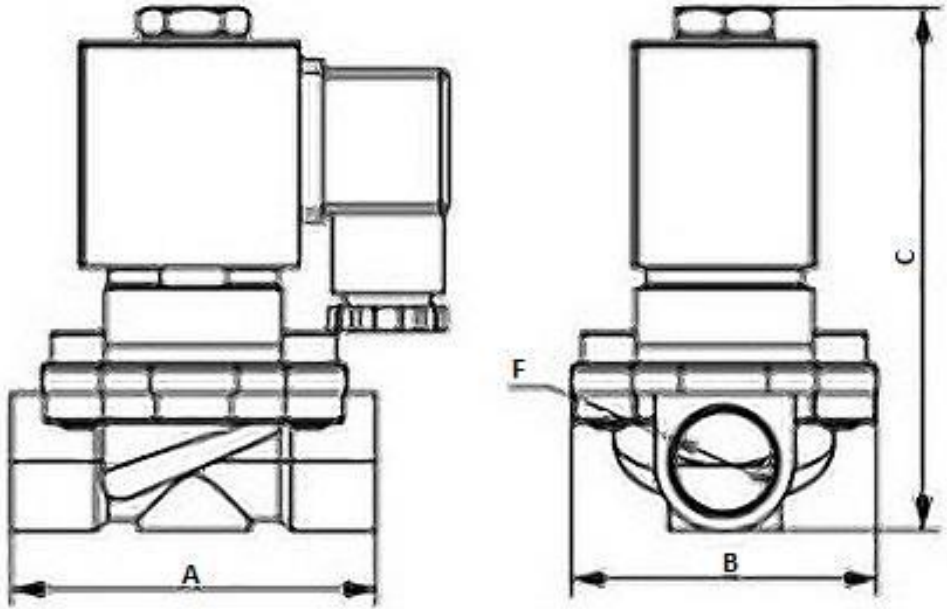


Table 2

DN	A (mm)	B (mm)	C (mm)	F (inch)	Weight (kg)
15	92	55	100	1/2"	0,744
20	95	55	106	3/4"	0,814
25	105	78	115	1"	1,364



## 4. INSTALLATION AND CONNECTION

- 4.1. When installing the valve, make sure that the direction of the arrow on the body coincides with the direction of flow of the process medium.
- 4.2. Valves must not be installed with the coil facing downwards.
- 4.3. The valve connection lead must have a grounding conductor connected to the bottom terminal of the coil.
- 4.4. The cross-section of the mains conductor at 220V AC supply should not be less than 1.5 mm<sup>2</sup>.
- 4.5. After installation, the system in which the valve is installed must be hydrotested with a pressure 1.5 times the design working pressure in the system. The test is performed in accordance with the procedure established at the enterprise.
- 4.6. It is recommended to install a mechanical filter with mesh size not exceeding 500 µm upstream of the valve.
- 4.7. The valve should be installed so that the coil is located away from heat sources in a ventilated area of the room.
- 4.8. It is strictly forbidden to energize a coil that is not mounted on the valve.
- 4.9. During installation, mechanical impact on the coil must be avoided.
- 4.10. in accordance with the procedure established by the company, the valve must not experience loads from the pipeline (bending, compression, stretching, torsion, distortion, vibration, misalignment of spigots, uneven tightening of fasteners). Connection points should ensure tightness of internal cavities in relation to the external environment.



## **5. OPERATION AND MAINTENANCE**

- 5.1. The valve may be operated at the parameters set out in section 4 of this data sheet.
- 5.2. It is not allowed to operate the valve with loose or removed body cover screws.
- 5.3. The working medium must not freeze inside the valve.
- 5.4. Valve maintenance should be performed only when the coil is de-energized.
- 5.5. Maintenance of the valve consists in removing the body cover and washing the body chambers, impulse channel and diaphragm.
- 5.6. To avoid accidents, the general safety requirements for installation and operation must be observed during installation and operation in accordance with the company's established procedures.

## **6. STORAGE AND TRANSPORTATION**

- 6.1. Products shall be stored in the manufacturer's packaging according to storage conditions in accordance with the procedure established at the enterprise.
- 6.2. The transportation of products must be carried out in accordance with the procedure established at the enterprise.

## **7. UTILIZATION**

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



## **8. WARRANTY OBLIGATIONS**

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

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

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

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

8.5. 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.

## **9. WARRANTY TERMS**

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

9.2. 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'.

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

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

9.5. 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 \_\_\_\_\_

