

TECHNICAL DATA SHEET

Gland stop valve
Elephant VSO3131M-F-S DN15-100 40 bar
stainless steel, flanged



1. GENERAL PRODUCT INFORMATION

1.1 Product name: Gland stop valve Elephant VSO3131M-F-S DN15-100 40 bar stainless steel, flanged.

1.2. Purpose: The shut-off valve is designed for complete shut-off of the working medium flow in the pipeline.

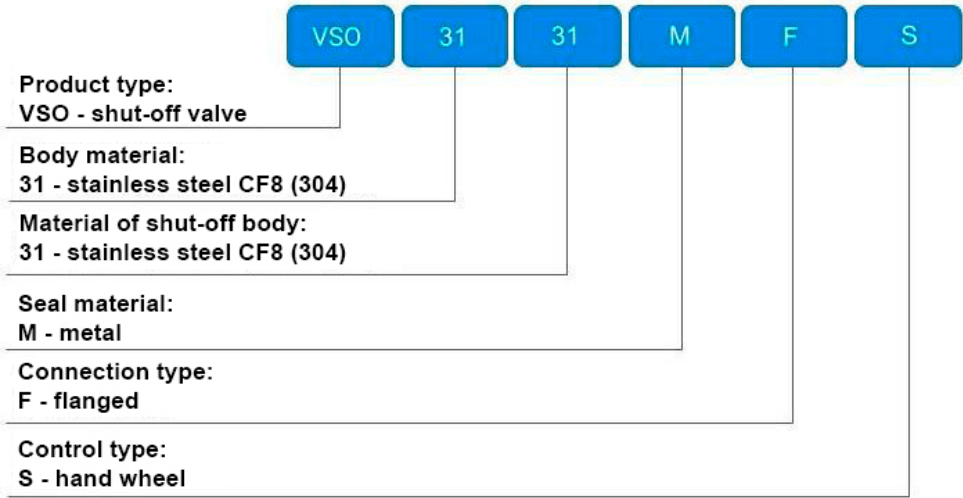
1.3. Operating principle. When turning the hand wheel clockwise or counterclockwise, the rotary motion is transferred to the spindle, and the disk fixed on it closes or opens the passage hole in the body.



** the image may differ from the original*



1.4. Deciphering the designation:



2. MAIN TECHNICAL DATA AND CHARACTERISTICS



Table 1

Nominal diameter DN, mm	15 - 100
Nominal pressure, bar	40
Working medium temperature t, °C	from -29 to +250
Working medium	wastewater, slurry, viscous, powdery and crystallized media, acids
Direction of medium supply	arrow on the valve body
Control method	hand wheel
Connection to pipeline	flanged
Body material	stainless steel CF8/SS 304
Disk material	stainless steel CF8/SS 304
Areas of application	heating and water supply systems, industrial pipelines
Average life, closing/opening cycles	6 000
Average service life, years	5



3. BASIC PART MATERIALS

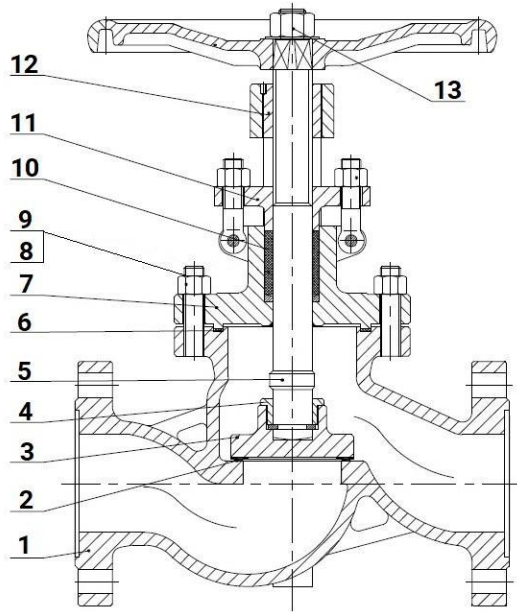


Table 2

Nº	Part name	Material
1	Body	stainless steel CF8/SS 304
2	Saddle	stainless steel CF8/SS 304
3	Disk	stainless steel CF8/SS 304
4	Disc sleeve	stainless steel CF8/SS 304
5	Stem	stainless steel CF8/SS 304
6	Gasket	PTFE
7	Cover	stainless steel CF8/SS 304
8	Stud	stainless steel CF8/SS 304
9	Nut	stainless steel CF8/SS 304
10	Packing	graphite
11	Sleeve	stainless steel CF8/SS 304
12	Stem nut	bronze
13	Handwheel	ductile iron



4. WEIGHT AND DIMENSIONAL PARAMETERS

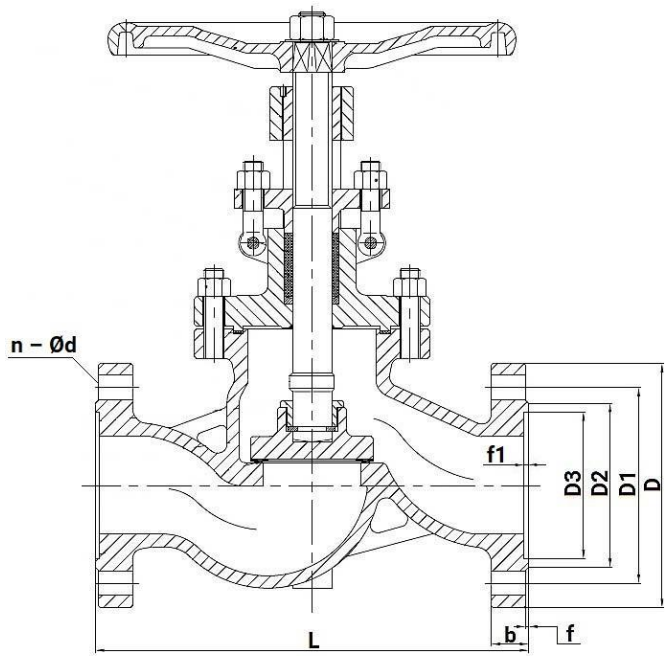


Table 3

	L, mm	D, mm	D1, mm	D2, mm	D3, mm	b, mm	f, mm	f1, mm	n – Ød	Weight, kg
DN15	130	95	65	45	40	16	2	4	4 – Ø14	3,77
DN20	150	105	75	55	51	16	2	4	4 – Ø14	5,15
DN25	160	115	85	65	58	16	2	4	4 – Ø14	5,85
DN32	180	135	100	78	66	18	2	4	4 – Ø18	7,04
DN40	200	145	110	85	76	18	3	4	4 – Ø18	9,54
DN50	230	160	125	100	88	20	3	4	4 – Ø18	11,97
DN65	290	180	145	120	110	22	3	4	8 – Ø18	17,64
DN80	310	195	160	135	121	22	3	4	8 – Ø18	22,29
D100	350	230	190	160	150	24	3	4,5	8 – Ø23	36,70

5. INSTALLATION AND OPERATING INSTRUCTIONS



5.1 Safety during the operation of shut-off valves must be observed in accordance with the internal instructions of the company.

5.2 Installation, operation and maintenance of valves are allowed to personnel who have studied the valve design, safety rules and requirements of the operating manual.

5.3 Before installation on the pipeline valves are subjected to inspection and testing, it is necessary to pay attention to the condition of the internal cavities of valves, accessible for visual inspection, check the ease and smoothness of movement.

5.4 Valves shall be installed in places accessible for inspection and maintenance. Before installation the pipeline should be cleaned of dirt, scale, sand, etc.

5.5 The operating position of the valve is any, except for the handwheel downwards.

5.6 The direction of flow of the working medium should correspond to the arrow marked on the valve body.

5.7 Before installing the valve, it is necessary to:

- perform preservation of the valve assembly in accordance with the internal instructions of the company (wiping with a rag moistened with low-viscosity oils or solvent followed by blowing with warm air or wiping dry),
- check the ease and smoothness of the spool lift and perform a hydraulic test with the pressure specified in the technical data sheet.

5.8 In the case of valves that are constantly opened or closed during operation, it is necessary to perform one opening-closing cycle every six months to prevent the formation of scale and deposits on the surface of the stem and sealing surfaces of the valve.

5.9 **CAUTION!** Shut-off valves must not be used as control valves.



6. CONDITIONS OF TRANSPORTATION AND STORAGE

6.1 Transportation and storage conditions comply with the company's internal instructions.

6.2 Shut-off valves are transported in containers in accordance with the company's internal instructions and secured against possible movement with the wedge lowered to the stop. It is allowed to transport valves without packaging, provided that the manufacturer or supplier provides reliable installation and fastening of valves on the vehicle and protection from environmental influences

6.3 Mechanical damage and contamination of internal surfaces of valves and sealing surfaces of flanges during transportation are not allowed.

6.4 When valves are delivered with mating flanges during transportation it is allowed to remove the latter, putting them together with fasteners in one container with the valve.

6.5 Valves should be stored in dry warehouses, protected from direct sunlight and at least 1 m away from heat-emitting devices, as well as not exposed to oil, gasoline.

6.6 Valves in long-term storage are subject to periodic inspection at least once a year. In case of violation of preservation, perform preservation again. Apply preservation lubricant on degreased clean and dry surface of parts. Degreasing should be performed with a clean rag soaked in gasoline.

7. UTILIZATION

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

7.2 Before sending for utilization, residues of the working medium shall be removed from the fitting. Methods of removal of the working medium and decontamination of the valve shall be approved in accordance with the established procedure at the enterprise operating the product.



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__ yr. Caption _____

