ELEPHANT

Manufacturer of shut-off and control valves

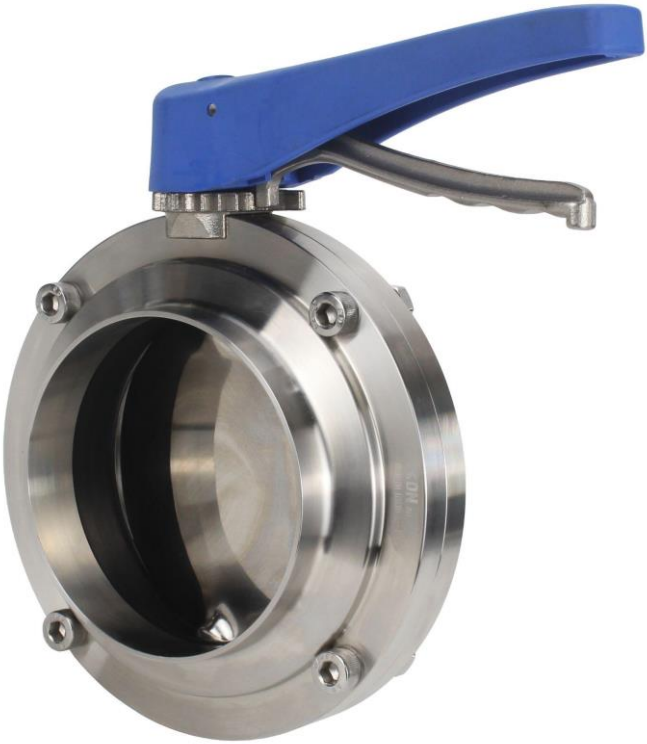
TECHNICAL DATA SHEET

Butterfly valve
Elephant WBV3131x-2W-W-H DN15-100 10 bar
food grade stainless steel, welded,
with handle

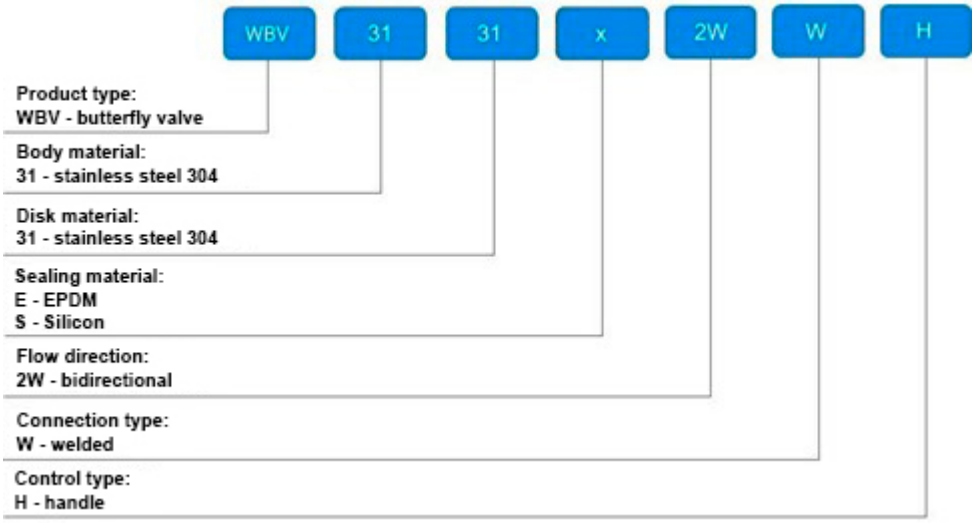
+34 900 433 073, sales@valveelephant.com
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

1. GENERAL PRODUCT INFORMATION

1.1. Product name: Butterfly valve Elephant WBV3131x-2W-W-H DN15-100 10 bar food grade stainless steel, welded, with handle.
1.2 Purpose: Rotary disk gate valve is designed for use as shut-off or regulating valves for flow control in heat supply systems, water supply systems, in technological processes of food, chemical, oil and gas, pulp and paper and other industries.
1.3 Principle of operation: The valves are opened and closed by turning the disk by 90°. Opening is done by turning the handle counterclockwise, closing - clockwise.



1.4. Deciphering the designation:



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2. MAIN TECHNICAL DATA AND CHARACTERISTICS

Table 1. Main parameters

Nominal diameter DN, mm	15 - 100
Nominal pressure, bar	10
Working medium temperature t, ºC	EPDM: from -20 to +135 Silicon: from -50 to +180
Sterilization temperature, ºC	+135 (max. 20 min.)
Working medium	cold and hot water, steam, other media neutral to the materials of the parts
Sealing material	EPDM or Silicon
Flow direction	double-sided
Sealing class	A GOST 9544-2015
Control type	handle
Pipeline connection	welding
Body material	food grade stainless steel AISI 304
Disk material	food grade stainless steel AISI 304
Scope of application	food production, as well as industries with high requirements for sanitary control and cleanliness of equipment
Average life, number of closing/opening cycles	30 000 - 50 000 (depending on the working environment and operating conditions)

3. BASIC PART MATERIALS

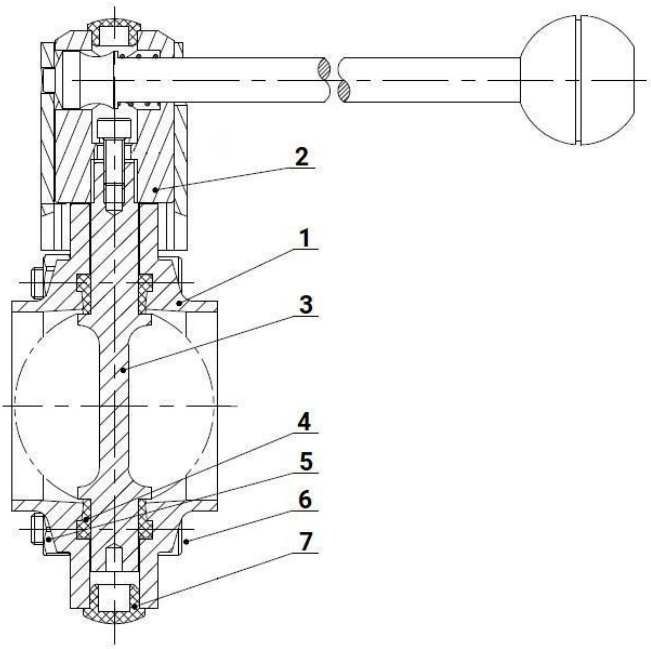

Table 2. Material specification

№	Part name	Material
1	Body	stainless steel AISI 304
2	Swivel unit	stainless steel AISI 304
3	Disk	stainless steel AISI 304
4	Seat seal	EPDM or Silicon
5	Nut	A2~70 steel
6	Bolt	A2~70 steel
7	Plug	ABS plastic

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4. WEIGHT AND DIMENSIONAL PARAMETERS

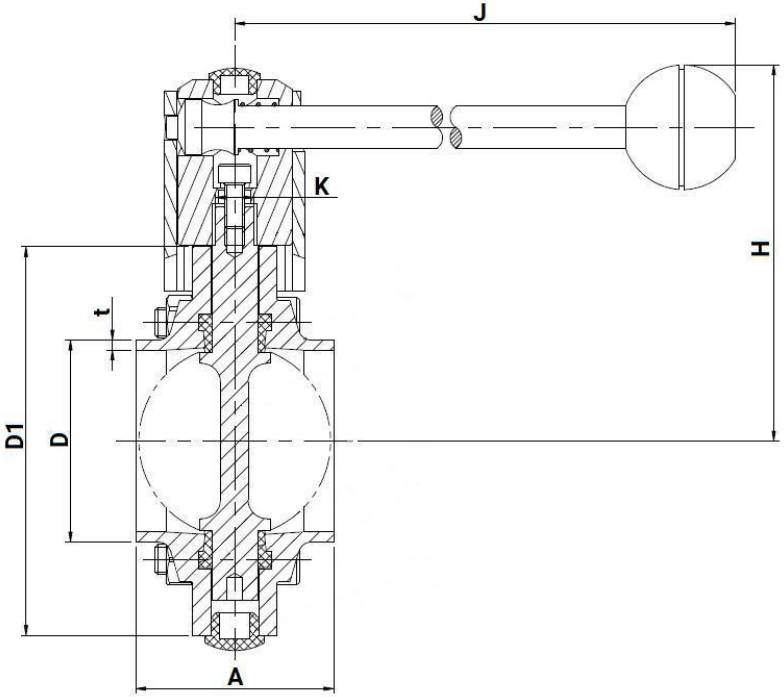

Table 3. Dimensional characteristics and weight

	D	t	D1	A	H	J	K	Weight
	mm							kg
DN15	18	1,5	78	50	86	126	8x8	1,08
DN20	23	1,5	78	50	86	126	8x8	1,07
DN25	29	1,5	78	50	86	126	8x8	1,03
DN32	35	1,5	86	50	90	126	8x8	1,22
DN40	41	1,5	90	50	92	126	8x8	1,21
DN50	53	1,5	106	52	104	133	10x10	1,67
DN65	70	2,0	124	56	113	144	10x10	2,17
DN80	85	2,0	139	60	123,5	160	10x10	2,52
DN100	104	2,0	159	64	133,5	160	10x10	3,11

Table 4. Value of torques and throughputs

	Torque values for actuator selection, Nm	Conditional flow capacity KV (for water with density 1000 kg/m3), m3/h
DN15	10	8
DN20	10	12
DN25	10	15
DN32	10	25
DN40	10	40
DN50	10	80
DN65	20	131
DN80	20	186
DN100	20	257

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5. INSTALLATION AND OPERATING INSTRUCTIONS

5.1 Installation, operation and maintenance of the gate valves may be performed by personnel who have studied the gate valve design, safety rules, requirements of the installation, adjustment, operation and maintenance manual and who are certified for the relevant type of work.
5.2 The gate valves should be installed on pipelines for media and parameters specified in the product passport.
5.3 Before installation it is necessary to clean (blow out) pipelines from dirt, sand, scale. The surface of the ends for welding of the disk gate valve should be clean and free from oil, paint, corrosion, etc.
5.4 Welding ends shall be properly aligned and parallel to each other. The load from the pipeline shall not be transferred to the gate body.
5.5 Welding of the disk gate valve shall be performed in accordance with the approved welding procedure and shall be performed by a qualified welder.
5.6 The gate to be welded shall be aligned and positioned along the pipeline in accordance with the gap between the edges to be welded as specified in the welding procedure card.
5.7 The gate may be tack welded at the root weld using filler materials similar to those specified for the root weld. The tack welds shall be welded with the root seam, all defective tack welds shall be removed.
5.8 **Attention!** Before welding, measures shall be taken to protect the sealing surface.
5.9 Tightness tests should be carried out in accordance with the procedure established at the enterprise.
5.10. During operation it is necessary to carry out periodic inspections (routine works) within the terms established by the operating organization, depending on the operating modes of the system.
5.11. During inspection check: general condition of the gate, condition of fastening connections, tightness of stem seals.
5.12. To ensure labor safety it is strictly forbidden to perform works on defects elimination in the presence of working medium pressure in the pipeline.
5.13. Sterilization (washing and disinfection) of gates should be carried out in accordance with the internal instructions of the enterprise.
5.14. The main types of gate cleaning are:

- ultrasonic cleaning;
- steam cleaning;
- cleaning with water-soluble cleaning agents.

5.15. The most effective method is mechanized automatic washing and disinfection (CIP). CIP washing is the internal cleaning of equipment and piping networks without disassembly or opening of equipment with minimal (or no) manual labor. It involves irrigation of

surfaces and circulation of cleaning solutions through this equipment at high turbulence and flow rates.
5.16. The food production enterprise develops instructions for washing and disinfection treatment of process equipment, individual production areas, taking into account the specifics of production activities and used detergents and disinfectants.
5.17. Control is established over the availability of shipping documents and the availability of certificates of state registration for used detergents and disinfectants, taking into account their area of application.

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6. CONDITIONS OF TRANSPORTATION AND STORAGE

6.1 Transportation and storage conditions comply with the internal instructions of the company.
6.2 The gates can be transported by any type of transport. At the same time, the gate must be installed on transportation means to exclude the possibility of mechanical damage, internal surfaces must be protected from contamination.
6.3 During transportation and storage the gate must be in the position of incomplete closing, i.e. the locking disk must be in loose contact with the collar surface - without deformation of the rubber.
6.4 When loading and unloading, the gates should be slung by the body.
6.5 The gates 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 and gasoline.
6.6 During long-term storage of the gate valve it is necessary to inspect it periodically (at least twice a year), remove external dirt and rust, if necessary treat the seat seal with silicone spray lubricant.

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.

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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 _____