

TECHNICAL DATA SHEET

**Ball valve Elephant BV3131P(2pc)-FP-T-H IT/ET DN15-50
63/40 bar stainless steel, full bore, threaded, with handle**



1. GENERAL INFORMATION ABOUT THE PRODUCT

1.1. Product name: Ball valve Elephant BV3131P(2pc)-FP-T-H IT/ET DN15-50 63/40 bar stainless steel, full bore, threaded, with handle.

1.2. Purpose: Ball valves are used as shut-off valves in heating and water supply systems, fuel and pneumatic systems with compressed air and neutral gases. Valves of this series can be installed in systems that transport liquid and gaseous media (water, oil, air, alcohols, glycol, etc.) that are non-aggressive to the valve materials.

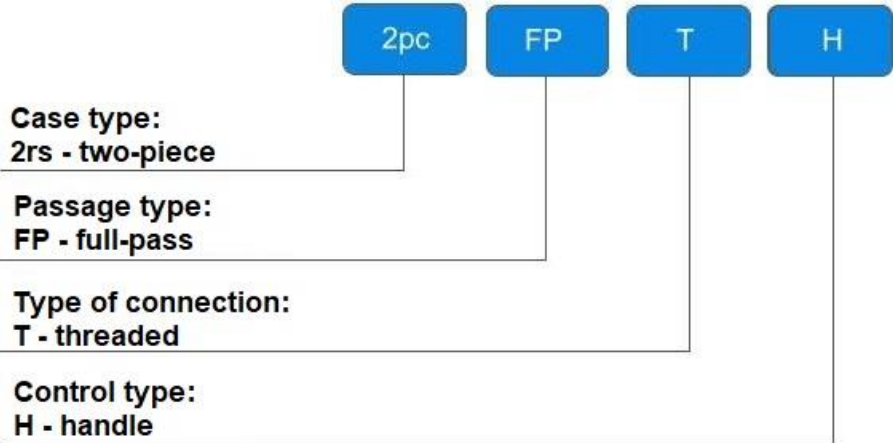
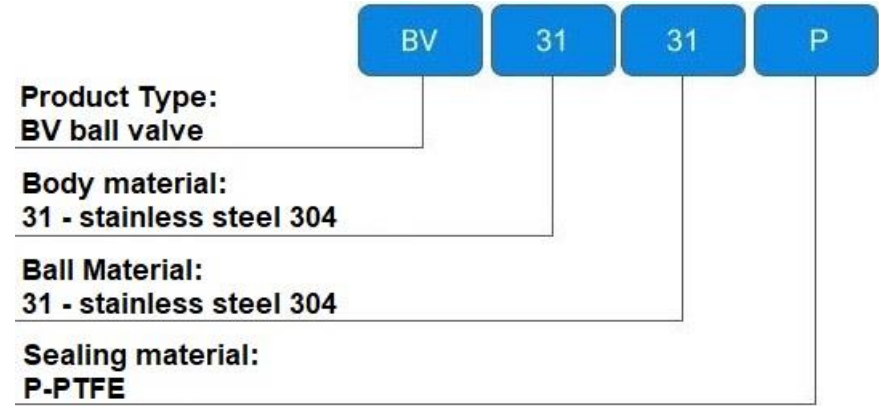
1.3. Principle of operation: The working flow is shut off by a locking element, which is a ball with a through cylindrical hole. The ball is rotated around its axis using a handle mounted on the body. To completely shut off the flow, it is sufficient to turn it 90 degrees.



**the image may differ from the original*



1.4. Decoding of the designation:



2. KEY TECHNICAL DATA AND CHARACTERISTICS

Table 1. Main parameters

Nominal diameter DN, mm	15÷50
Nominal pressure, bar	DN15÷25 – 63 DN32÷50 – 40
Working medium temperature t, °C	from -20 to +150
Working medium	water, petroleum products, and other liquid or gaseous media that are neutral to the crane materials
Pipeline connection	internal/external thread BSPT/BSPT
Type of passage section	full bore
Sealing class	A
Control type	manual (handle)
Body material	stainless steel AISI 304
Ball material	stainless steel AISI 304
Seal material	PTFE
Average service life, years	10
Average service life, opening/closing cycles	10 000



3. MAIN MATERIALS OF PARTS

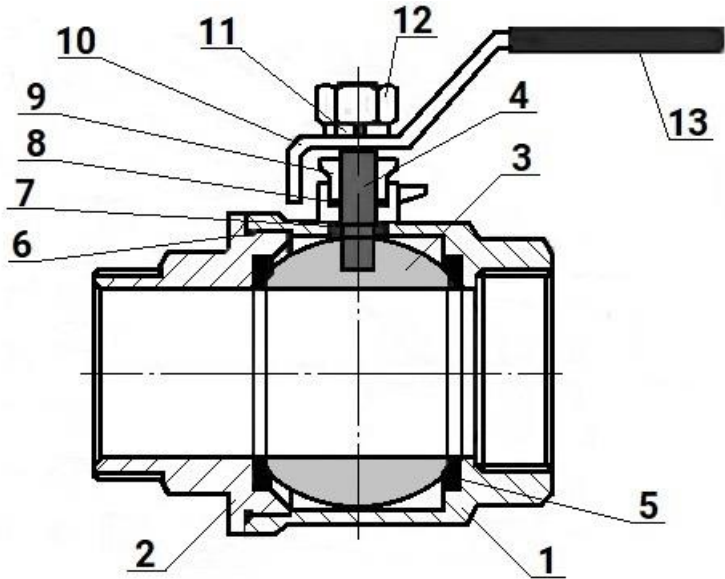


Figure 1 - Detailing

Table 2. Materials of parts

Nº	Part name	Material
1	Body	AISI 304 stainless steel
2	Half body, external thread	AISI 304 stainless steel
3	Ball	AISI 304 stainless steel
4	Stem	AISI 304 stainless steel
5	Seat seal	PTFE
6	Body seal	PTFE
7	Thrust washer	PTFE
8	Stem seal	PTFE
9	Gland	AISI 304 stainless steel
10	Handle	AISI 201 stainless steel
11	Pin	AISI 304 stainless steel
12	Nut	AISI 304 stainless steel
13	Handle	stainless steel + PVC

4. WEIGHT, DIMENSIONS, AND HYDRAULIC PARAMETERS

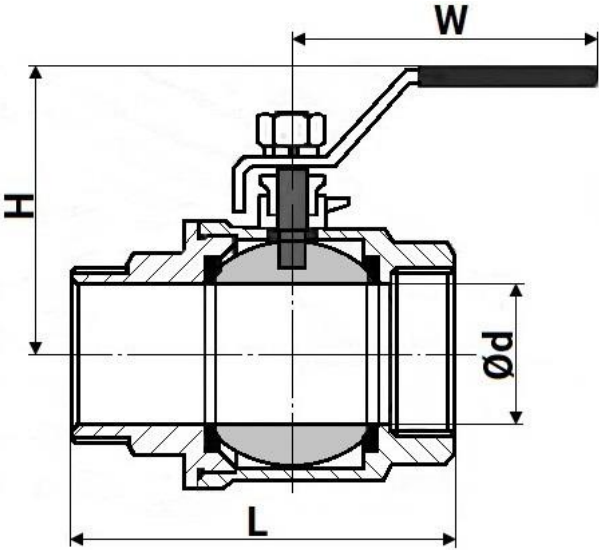


Figure 2 – Dimensions

Table 3. Dimensional characteristics

	Ød	L	W	H
	mm			
DN15	15	65	105	50
DN20	20	76	115	55
DN25	25	90	120	63
DN32	32	101	128	70
DN40	38	110	160	80
DN50	49	125	165	94

Table 4. Throughput and weight

	Nominal flow capacity Kv (for water with a density of 1000 kg/m3), m3/h	Weight, kg
DN15	18,7	0,24
DN20	46,9	0,33
DN25	65,7	0,54
DN32	85,9	0,79
DN40	148,5	1,14
DN50	206,2	1,65



5. OPERATING INSTRUCTIONS

5.1. Only personnel who have studied the design of ball valves, safety rules, and the requirements of the installation, adjustment, operation, and maintenance manual, and who have been certified for the relevant type of work, are permitted to operate, maintain, and install ball valves.

5.2. It is prohibited to:

- use ball valves as control valves;
- allow the working medium to freeze inside the ball valve;
- operate the products in conditions and at parameters that do not correspond to the passport values;
- perform installation, dismantling, and preventive maintenance work in the presence of a working medium and pressure in the pipeline;
- use ball valves instead of plugs when testing pipeline systems;
- use valves as supports for pipelines;
- use levers (gas wrenches, extenders) that increase the lever arm to control the valve;
- install products on systems with a working medium containing abrasive components.

5.3. To avoid water hammer in the pipeline, open and close the valve smoothly, without jerks.

5.4. Do not operate the valve with a loose handle nut, as this may result in breakage of the stem neck.

5.5. For preventive maintenance and to prevent the formation of karst deposits on the surface of the ball, it is necessary to perform 2-3 “open-close” cycles several times a year.

5.6. When using a ball valve with a working medium with a high content of mechanical impurities, the installation of additional filtering equipment at the inlet is mandatory.

5.7. During installation and operation of valves, safety requirements must be followed in accordance with the procedures established at the enterprise.

5.8. Maintenance of valves during operation is limited to periodic inspections. During these inspections, the stroke of the stem is checked until the valve is fully open or closed, and the absence of leaks is verified.



6. INSTALLATION INSTRUCTIONS

6.1. The ball valve may be installed on the pipeline section in any mounting position that ensures ease of operation and access to the actuator.

6.2. Installation and removal of the product, as well as any repair or adjustment operations, must be carried out when there is no pressure in the system.

6.3. Before installing the valve, the pipeline must be cleaned of dirt, sand, scale, and any foreign objects.

6.4. The ball valve must not be subjected to loads from the pipeline (bending, compression, tension, torsion, skewing, vibration, misalignment of pipes, uneven tightening of fasteners). If necessary, supports or compensators should be provided to reduce the load on the valve from the pipeline.

6.5. After installation, check the valve's operability by turning the handle; the moving parts should move smoothly, without jerks or jamming. Tests for tightness of connections are carried out in accordance with the procedures established at the enterprise.

7. TRANSPORTATION AND STORAGE CONDITIONS

7.1. Ball valves are transported in accordance with the procedures established at the enterprise.

8. DISPOSAL

8.1. Disposal of the product (remelting, burial, resale) is carried out in accordance with the procedures established at the enterprise.



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__yr. Caption _____

