



Manufacturer of shut-off and control valves

## TECHNICAL DATA SHEET

**Ball valve ELEPHANT BV<sub>xx</sub>P(3pc)-FP-W-ISO-H LONG  
DN10-150 63-16 bar stainless steel, full bore, welded, with  
ISO-flange and handle**



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## 1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Ball Valve ELEPHANT BVxxP(3pc)-FP-W-ISO-H LONG DN10-150 63-16 bar stainless steel, full bore, welded, with ISO-flange and handle.

1.2. Purpose: Ball valves are used as shut-off valves in heating, water supply systems, in steam, fuel and pneumatic systems with compressed air and neutral gases. Installation of valves of this series is possible in systems transporting liquid and gaseous media (water, oil, oils, steam, air, alcohols, glycol, etc.), not aggressive to the materials of the valve.

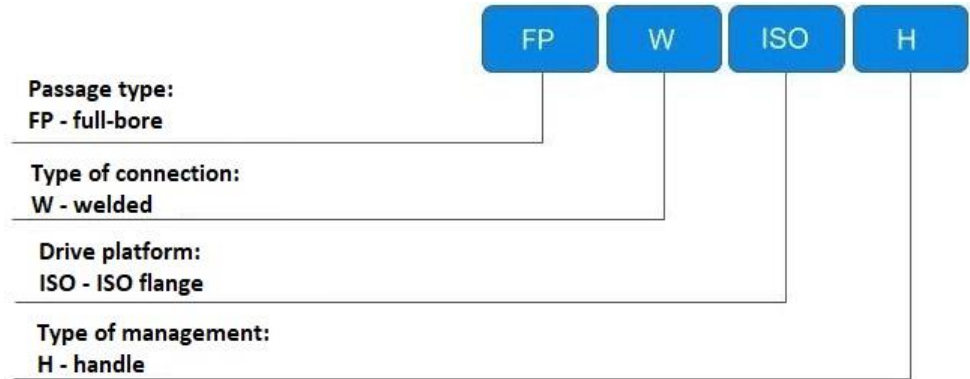
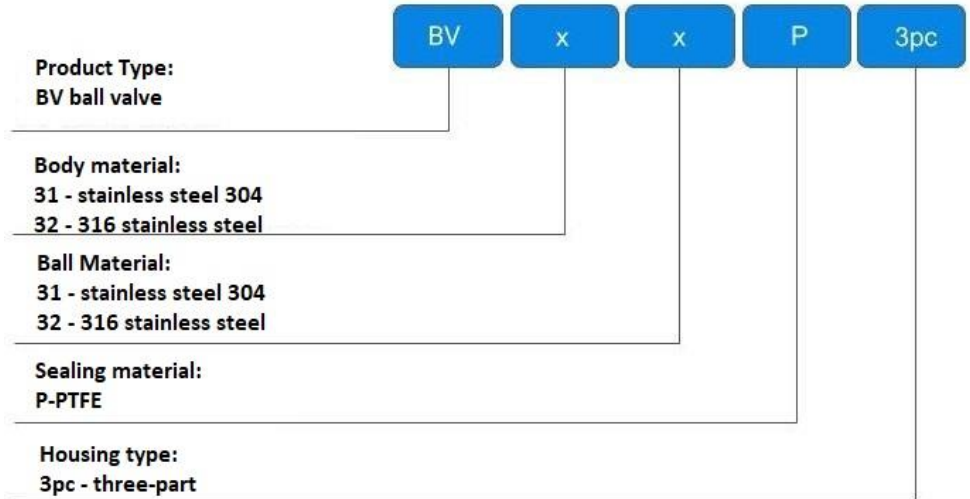
1.3 Principle of operation: The working flow is closed by means of a locking element, which is a ball with a through cylindrical hole. The ball is rotated around the axis by means of a handle mounted on the body. It is sufficient to turn it by 90 degrees to completely shut off the flow.



*\* the image may differ from the original*



#### 1.4. Deciphering of the designation:



## 2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	10-150
Nominal pressure PN, bar	DN10÷25 – 63 DN32÷50 – 40 DN65÷80 – 25 DN100÷150 – 16
Working medium temperature t, °C	-20 to +180
Working medium	water, steam, petroleum products and other liquid or gaseous media neutral to valve materials
Connection to pipeline	welded
Type of through section	full bore
Ball valve tightness class	«A»
Control type	manual
Areas of application	heating and water supply systems, industrial piping
Average service life, years	5
Average life, closing/opening cycles	100 000 (in non-aggressive environment and average pressure and temperature values)



Table 2

	Conditional flow capacity KV (for water with density 1000 kg/m <sup>3</sup> ), m <sup>3</sup> /h	Torque, Nm
DN10	13,2	3
DN15	18,9	15
DN20	47,1	30
DN25	66,0	50
DN32	87,6	15
DN40	150,8	35
DN50	207,4	50
DN65	584,4	60
DN80	678,6	80
DN100	1545,0	125
DN125	2741,0	250
DN150	4023,0	340



### 3. BASIC MATERIALS

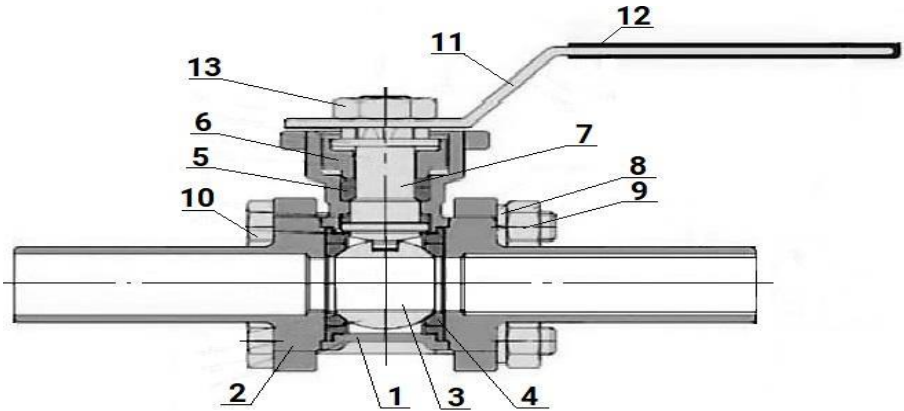


Table 3

№	Part name	Material
1	Body	stainless steel 304 / stainless steel 316
2	Side piece (2 pcs)	stainless steel 304 / stainless steel 316
3	Ball	stainless steel 304 / stainless steel 316
4	Ball seal	PTFE
5	Stem seal	PTFE
6	Sleeve	stainless steel 304
7	Stem	stainless steel 304 / stainless steel 316
8	Washer	stainless steel
9	Nut	A2-70 steel
10	Bolt	A2-70 steel
11	Handle	stainless steel
12	Handle coating	PVC
13	Nut	A2-70 steel



#### 4. WEIGHT AND DIMENSIONAL PARAMETERS

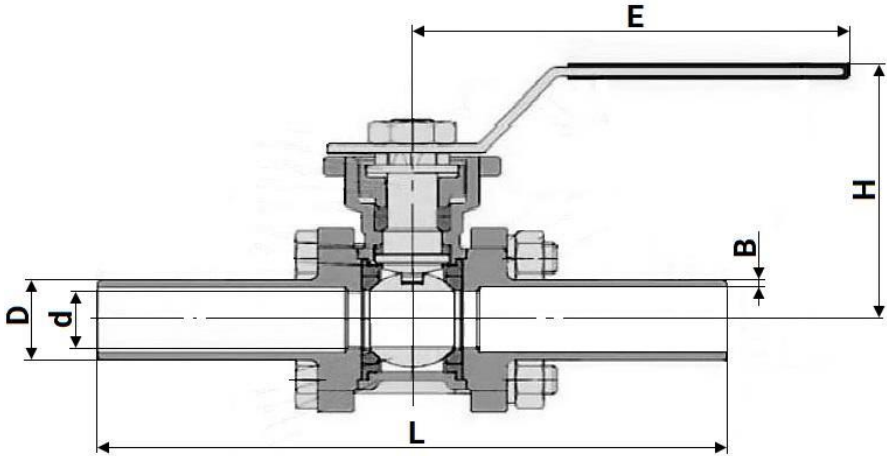


Table 4

DN	d	D	B	H	L	E	Square	ISO	Weight, kg
	MM							5211	
DN10	12	17,2	2,1	50	130	120	9x9	F03/F04	0,63
DN15	15	21,3	2,1	55	150	120	9x9	F03/F04	0,75
DN20	20	26,9	2,1	66	155	135	9x9	F03/F04	1,20
DN25	25	33,7	2,8	71	186	160	11x11	F04/F05	1,67
DN32	32	42,4	2,8	81	195	170	11x11	F04/F05	2,10
DN40	38	48,3	2,8	87	231	190	14x14	F05/F07	2,78
DN50	50	60,3	2,8	91	243	220	14x14	F05/F07	3,80
DN65	64	76,1	3,0	119	290	280	17x17	F07/F10	7,80
DN80	76	88,9	3,0	125	302	280	17x17	F07/F10	11,50
DN100	100	114,3	3,0	159	326	330	22x22	F10	18,20
DN125	125	141,3	3,4	186	360	330	22x22	F10/F12	26,00
DN150	150	168,3	3,4	207	390	330	27x27	F10/F12	38,00



## 5. OPERATING INSTRUCTIONS

### 5.1. It is forbidden:

- use ball valves as control valves;
- allow the working medium to freeze inside the ball valve;
- operate the products under conditions and parameters that do not correspond to the nameplate values;
- perform installation, dismantling, preventive maintenance works in the presence of working medium and pressure in the pipeline;
- use ball valves instead of plugs when testing pipeline systems;
- использовать краны в качестве опор для трубопровода;
- Use levers (gas wrenches, extensions) that increase the leverage of the handle to operate the valve;
- install the products on systems with media containing abrasive components.

5.2. To avoid water hammer in the pipeline to open and close the valve smoothly, without jerking.

5.3 It is not allowed to operate the valve with loosened handle fastening nut, as it may lead to stem neck breakage.

5.3 For preventive purposes, as well as to prevent the formation of karst deposits on the surface of the ball, it is required several times a year to perform 2-3 cycles open-close.

5.4 If the ball valve is used with a working medium with a high content of mechanical impurities, the installation of additional filtering equipment at the inlet is mandatory.

5.5. During installation and operation of cranes, safety requirements must be met in accordance with the procedure established at the enterprise.

5.6. Maintenance of the valves in operation is reduced to periodic inspections. In this case, the stroke of the valve stem is checked until the valve is fully opened-closed, no leaks are detected.





## 6. INSTALLATION INSTRUCTIONS

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

6.2 Installation and dismantling of the product, as well as any repair or adjustment operations should be performed in the absence of pressure in the system.

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

6.4 The ball valve should not experience loads from the pipeline (bending, compression, stretching, torsion, warping, vibration, misalignment of spigots). If necessary, supports or compensators should be provided to reduce the load on the valve from the pipeline.

6.5 After installation it is necessary to check the performance of the valve

by turning the handle, in this case moving parts should move smoothly, without jerks and seizures. Tightness tests of connections are carried out in accordance with the procedure established at the enterprise.



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

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

7.2. Storage should be carried out in the factory packaging in accordance with the procedure established at the enterprise.

7.3. At shipment to the customer the valves are not subjected to preservation, as the materials used in their manufacture are weatherproof and have a protective coating.

7.4 During storage, transportation ball valves do not harm the environment and human health.

## **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 \_\_\_\_\_

