TECHNICAL DATA SHEET

Ball valve ELEPHANT BV3232P(2pc)-FP-F-ISO-H DN15-300 40/16 bar stainless steel, full bore, flanged, with ISO-flange and handle

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Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

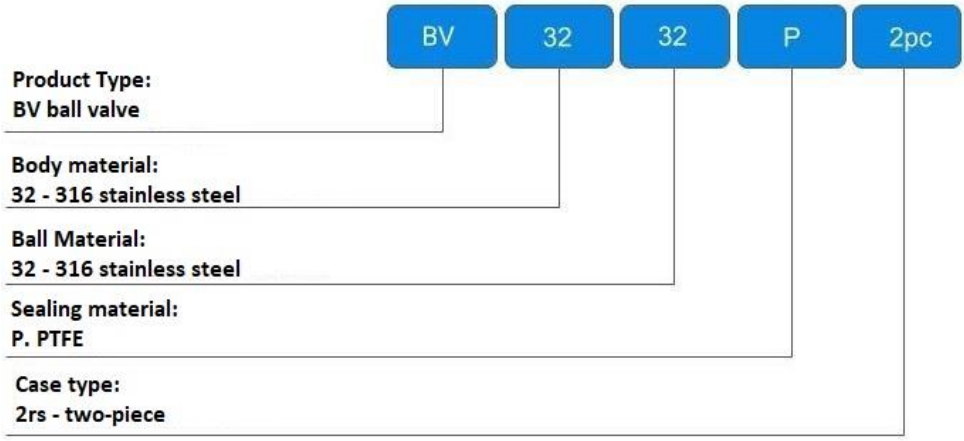
1. GENERAL PRODUCT INFORMATION

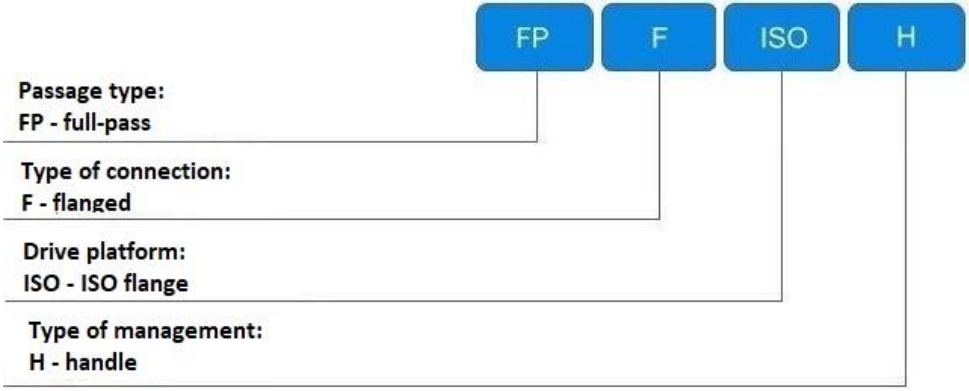
1.1. Наименование изделия: Ball valve ELEPHANT BV3232P(2pc)-FP-F-ISO-H DN15-300 40/16 bar stainless steel, full bore, flanged, with ISO-flange and handle.

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.), non-aggressive to the materials of the valve. The use of ball valves as control valves is not allowed.

1.3 Principle of operation: Closing of the working flow occurs through the 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.

1.4. Deciphering of the designation:





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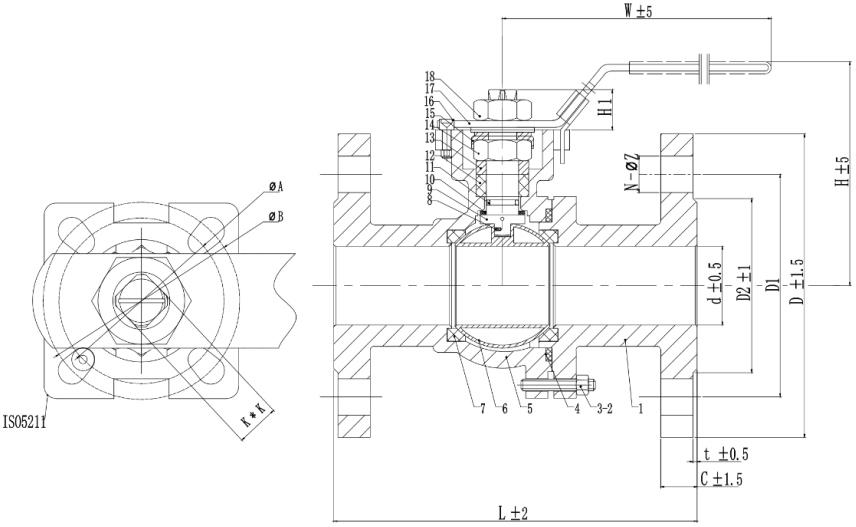
2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1. Characteristics

Nominal diameter DN, mm	15 – 300
Nominal pressure PN, bar	DN15-50 – 40 DN65-300 - 16
Working medium temperature t, ºC	-20 to +200
Tightness in the gate	class A
Working medium	water, steam, oil products and other liquid or gaseous media neutral to the materials used
Connection to pipeline	flanged
Control type	DN15-200 - manual (handle) DN250-300 - bare stem
Ball passage	full bore without constriction
Body material	stainless steel CF8M/SS 316
Ball material	stainless steel AISI 316
Average service life, years	10
Average life, closing/opening cycles	40 000 (in non-aggressive environment and medium pressure and temperature values)

3. COMPONENT MATERIALS AND DIMENSIONS

3.1. DN15-100



Drawing 1 – Details and dimensions for DN15-100

Table 2. Dimensional characteristics for DN15-100

DN	d	D	D1	D2	C	t	L	W	H	H1	A	B	KxK (stem)	N-ØZ,
	mm													pcs-mm
15	15	95	65	45	16	2	115	127	79	8	36	50	9x9	4-Ø14
20	20	105	75	58	18	2	120	127	83	9	36	50	9x9	4-Ø14
25	25	115	85	68	18	2	125	165	94	14	42	50	11x11	4-Ø14
32	32	140	100	78	18	2	130	165	115	15	42	50	11x11	4-Ø18
40	38	150	110	88	18	3	140	186	115	17	50	70	14x14	4-Ø18
50	50	165	125	102	20	3	150	186	120	20	50	70	14x14	4-Ø18
65	65	185	145	122	19	3	170	260	151	22	70	102	17x17	4-Ø18
80	76	200	160	138	21	3	180	321	158	21	70	102	17x17	8-Ø18
100	99	220	180	158	21	3	190	321	188	20	70	102	17x17	8-Ø18

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Table 3. Parts specification for Dn15-100

№	Part name	Material
1	Flange element	stainless steel CF8M/SS 316
2	Bolts	stainless steel A320 B8
3	Nuts	steel A194 8
4	Intermediate gasket	PTFE
5	Valve body	stainless steel CF8M/SS 316
6	Ball	stainless steel AISI 316
7	Seat	PTFE
8	Electrostatic device	stainless steel AISI 304
9	Stem	stainless steel AISI 316
10	Push gasket	PTFE
11	Sealing ring	NBR
12	Filler	PTFE
13	Compression ring	stainless steel AISI 304
14	Hexagon nut	steel A194 8
15	Anti loosening cover	stainless steel AISI 304
16	Set screws	A194 8 steel
17	Handle	stainless steel SS 201+ PVC
18	Hexagon nut	steel A194 8

3.2. DN125-200

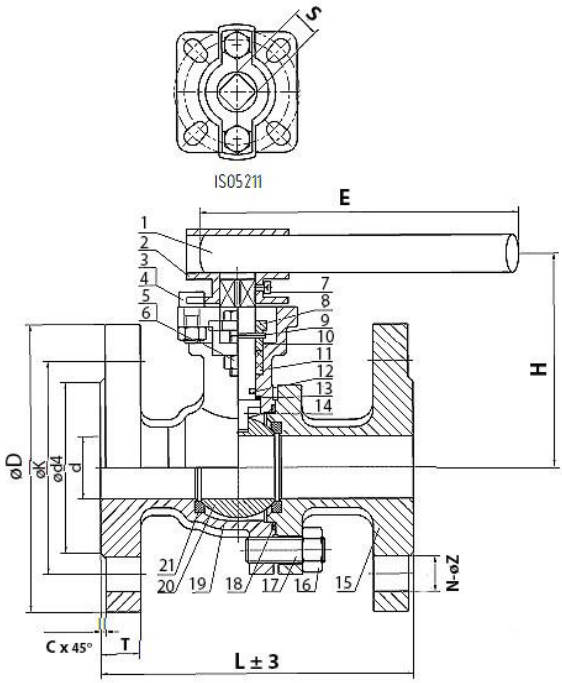

Figure 2 – Details and dimensions for DN125-200

Table 4. Dimensional characteristics for DN125-200

DN	d	d4	K	D	C	T	L	S (stem)	H	E	N-ØZ, pcs-mm
	mm										
125	122	190	210	250	3	22	325	27x27	206	750	8-Ø18
150	146	214	240	285	3	24	350	27x27	223	750	8-Ø22
200	200	268	295	340	3	24	400	27x27	300	800	12-Ø22

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Table 5. Parts specification for DN125-200

№	Part Name	Material
1	Handle	stainless steel SS 201
2	Transition sleeve	stainless steel SS 201
3	Hexagonal screws	stainless steel AISI 304
4	Nut	stainless steel AISI 304
5	Bolt	stainless steel AISI 304
6	Nut	stainless steel AISI 304
7	Hexagonal screws	stainless steel AISI 304
8	Gland	stainless steel AISI 304
9	Spring washer	stainless steel AISI 304
10	Gland sleeve	stainless steel AISI 304
11	Seal	PTFE
12	O-ring	FKM
13	Stop gasket	PTFE
14	Stem	stainless steel AISI 316
15	Flange element	stainless steel CF8M/SS 316
16	Nut	stainless steel AISI 304
17	Bolt	stainless steel AISI 304
18	Gasket	PTFE
19	Body	stainless steel CF8M/SS 316
20	Ball	stainless steel AISI 316
21	Seat	RPTFE

3.3. DN250-300

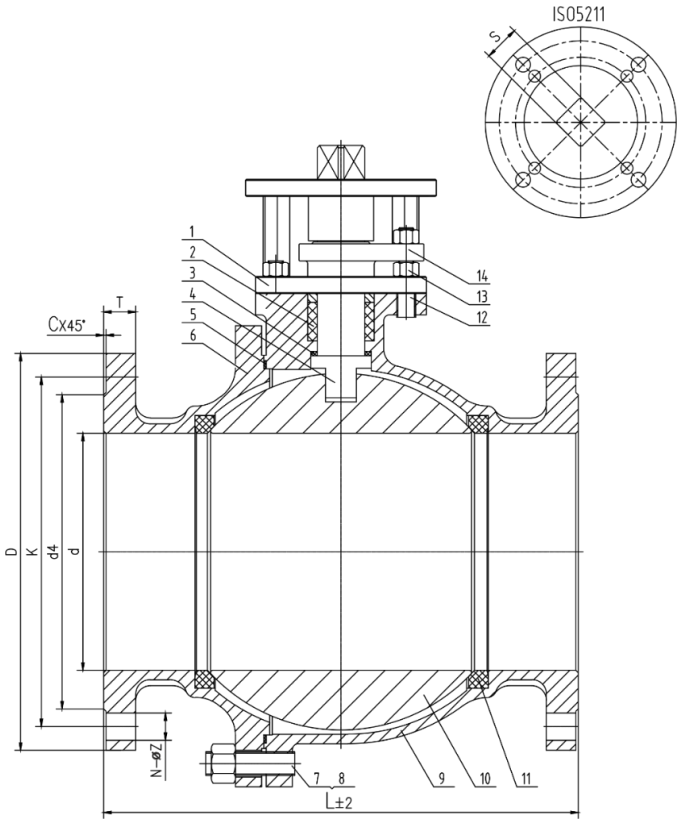

Figure 3 – Details and dimensions for DN250-300

Table 6. Dimensional characteristics for DN250-300

DN	d	d4	K	D	C	T	L	S (stem)	N-ØZ, pcs-mm
	mm								
250	250	320	355	405	2	26	450	27X27	12-Ø26
300	300	378	410	460	2	28	610	36X36	12-Ø26

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Table 7. Parts specification for DN250-300

№	Part Name	Material
1	Rack	WCB steel
2	Seal	PTFE
3	Stop gasket	PTFE
4	Stem	stainless steel AISI 316
5	Gasket	PTFE
6	Flange element	stainless steel CF8M/SS 316
7	Nut	stainless steel AISI 304
8	Bolt	stainless steel AISI 304
9	Body	stainless steel CF8M/SS 316
10	Ball	stainless steel AISI 316
11	Seat	PTFE
12	Bolt	stainless steel AISI 304
13	Nut	stainless steel AISI 304
14	gland	stainless steel CF8/SS 304

5. TECHNICAL PARAMETERS

Table 8. Torque, ISO flange type and weight

DN	PN	Torque on the shaft of the valve stem, N*m	ISO 5211	Weight, kg
15	40	18	F03/F05	2.16
20	40	22	F03/F05	2.84
25	40	26	F04/F05	3.68
32	40	32	F04/F05	5.17
40	40	38	F05/F07	6.49
50	40	50	F05/F07	8.78
65	16	50	F07/F10	12.04
80	16	65	F07/F10	12.93
100	16	125	F07/F10	19.2
125	16	250	F10/F12	32
150	16	340	F10/F12	41
200	16	485	F12/F14	72
250	16	810	F12/F14	150
300	16	1310	F14	210

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5. OPERATING INSTRUCTIONS

5.1. It is forbidden:

- use ball valves as regulating 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;
- to perform installation, dismantling, preventive maintenance work in the presence of the working medium and pressure in the pipeline;
- use ball valves instead of plugs when testing pipeline systems;
- use ball valves as supports for pipelines;
- use levers (gas keys, extensions) that increase the leverage of the handle to operate the valve;
- install products on systems with a working medium 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.

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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.

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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__r. Caption _____