ELEPHANT

Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

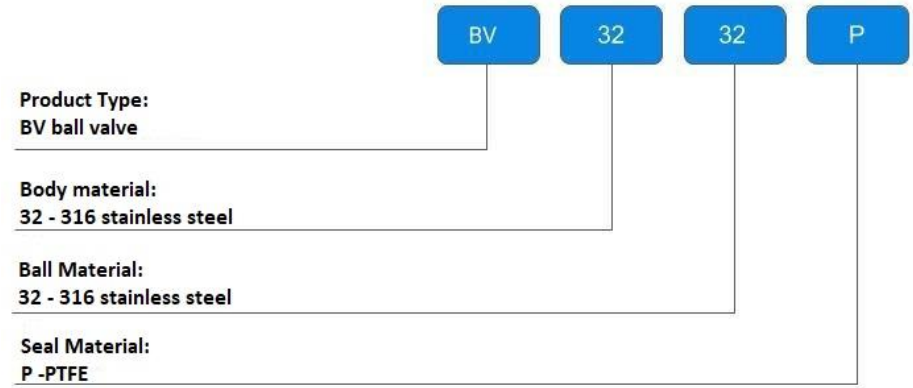
Ball valve ELEPHANT BV3232P-FP-Fb-ISO-H DN15-100
16 bar stainless steel, full bore, interflange
with ISO-flange and handle

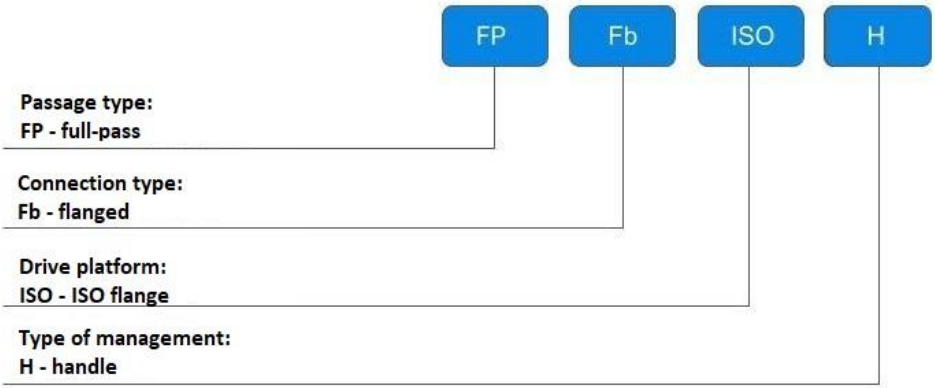
+34 900 433 073, sales@valveelephant.com
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Ball valve ELEPHANT BV3232P-FP-Fb-ISO-H DN15-100 16 bar stainless steel, full bore, interflange 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. Deciphering of the designation:





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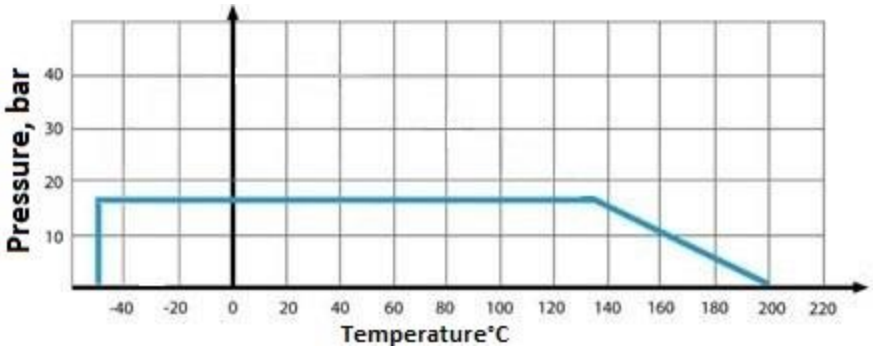
2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	15 – 100
Nominal pressure PN, bar	16
Ambient temperature, ºC	-50 to +200
Tightness in the gate	A
Working medium	water, steam, oil products and other liquid or gaseous media neutral to the materials used
Connection to pipeline	interflange
Control type	manual (handle)
Ball passage	full bore without constriction
Complement	electric or pneumatic actuator can be installed (ISO 5211-2001)

3. TEMPERATURE-PRESSURE DIAGRAM



4. MATERIAL INFORMATION FOR MAJOR PARTS

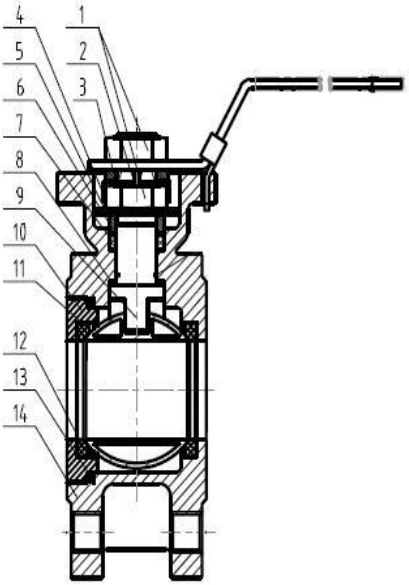


Table 2

№	Name	Material	№	Name	Material
1	Nut	Steel 304	8	Stop gasket	PTFE
2	Handle	Steel 201+PVC	9	Stem	Steel 316
3	Washer	Steel 304	10	Ball cover	Steel 316
4	Retaining ring	Steel 304	11	Ball	Steel 316
5	Thrust washer	Steel 304	12	Ball seal	PTFE
6	Gland washer	Steel 304	13	Gasket	PTFE
7	Gland	PTFE	14	Body	Steel 316

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5. BASIC CRANE DIMENSIONS

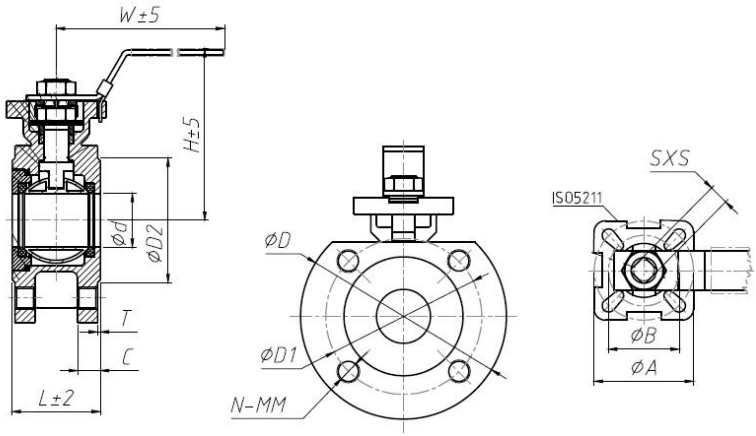

Table 3

DN	d	D2	D1	D	T	C	N-	L	H	W	SxS	A	B	IS05211
15	15	45	65	95	2	14	4-	42	70	130	9x9	50	36	F03/F05
20	20	58	75	105	2	16	4-	48	86	130	9x9	50	36	F03/F05
25	25	68	85	115	2	16	4-	50	93	165	11x11	50	42	F04/F05
32	32	78	100	140	2	16	4-	60	101	165	11x11	50	42	F04/F05
40	36	88	110	150	3	16	4-	65	121	190	14x14	70	50	F05/F07
50	46	102	125	165	3	18	4-	80	129	190	14x14	70	50	F05/F07
65	58	122	145	185	3	18	4-	110	140	255	17x17	102	70	F07/F10
80	73	138	160	200	3	20	8-	120	157	315	17x17	102	70	F07/F10
100	90	158	180	220	3	20	8-	150	180	325	17x17	102	70	F07/F10

5. WEIGHTS AND TORQUES

Table 4

DN	15	20	20	32	40	50	65	80	100
Torque, Nm	3.5	3.5	4.5	7	8.5	14.5	21	28	51
Weight, kg	1.7	1.9	2.5	3.5	4.35	5.45	7.8	10.3	18

6. HYDROTEST RESULT

The ball valve has passed hydraulic tests for strength and density of metal of body parts, tests for tightness against external environment of seals of movable and fixed connections.

Table 5

1.	**Hydraulic tests according to the procedure established at the enterprise**		
1.1	**Tests for strength and density of the material of hull parts and welded seams; tests for tightness against the external environment of seals of movable and fixed connections**		
		Test medium	water
		Test pressure (1.5), bar	24
		Dwell time at steady pressure before the start of control, sec.	60
		Inspection pressure PN, bar	16
		Control (measurement) time, not less than, sec.	60
		Results of strength and density tests	No leaks or perspiration through the metal
		Results of leak tightness tests in relation to the external environment	No leaks
1.2	**Gate tightness tests**		
		Pressure value 1.1, bar	17,6
		Dwell time at steady pressure before the start of control, sec.	120
		Control (measurement) time, sec.	180
		The results of the gate leakage test: - side A - side B	«A»

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7. OPERATING INSTRUCTIONS

7.1. It is forbidden:

- Use ball valves as control valves;
- Allow the process medium to freeze inside the ball valve;
- operate the product under conditions and at parameters that do not correspond to the nameplate values;
- Perform installation, dismantling, preventive maintenance work in the presence of 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, extensions) that increase the leverage of the handle to operate the valve.;
- Install the products on systems with media containing abrasive components.

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

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

7.3 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.

7.4 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.

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

7.6. 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.

8. INSTALLATION INSTRUCTIONS

8.1. The ball valve may be installed on the pipeline section in any mounting position that provides ease of operation and access to the actuator.
8.2 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.
8.3 Before installing the valve, the pipeline should be cleaned of dirt, sand, scale and any foreign objects.
8.4 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.
8.5 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.

9. TRANSPORTATION AND STORAGE CONDITIONS

9.1. Transportation of ball valves shall be carried out in accordance with in accordance with the company's established procedure.
9.2. Storage should be carried out in the factory packaging in accordance with the procedure established at the enterprise.
9.3. 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.
9.4 During storage, transportation ball valves do not harm the environment and human health.

10. UTILIZATION

10.1. The product is disposed of in accordance with the procedure established at the enterprise (remelting, burial, resale).

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11. WARRANTY OBLIGATIONS

11.1. Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.
11.2. The warranty applies to equipment installed and used in accordance with the installation instructions and product specifications described in this data sheet.
11.3. The manufacturer guarantees compliance of the product with safety requirements, provided that the consumer complies with the rules of transport, storage, installation and operation.
11.4. The warranty covers all defects caused by the fault of the manufacturer.
11.5. 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.

12. WARRANTY TERMS

12.1. Claims to the quality of the goods may be made during the warranty period.
12.2. 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'.
12.3. Costs related to dismantling, installation and transport of the defective product during the warranty period shall not be reimbursed to the Buyer.
12.4. If the claim is unfounded, the Buyer shall pay the costs of diagnostics and expertise of the product.
12.5. 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 _____

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