TECHNICAL DATA SHEET

Ball valve ELEPHANT BV3232P(2pc)-FP-F-ISO-R DN200-300 16 bar stainless steel, full bore, flanged, with ISO-flange and reducer

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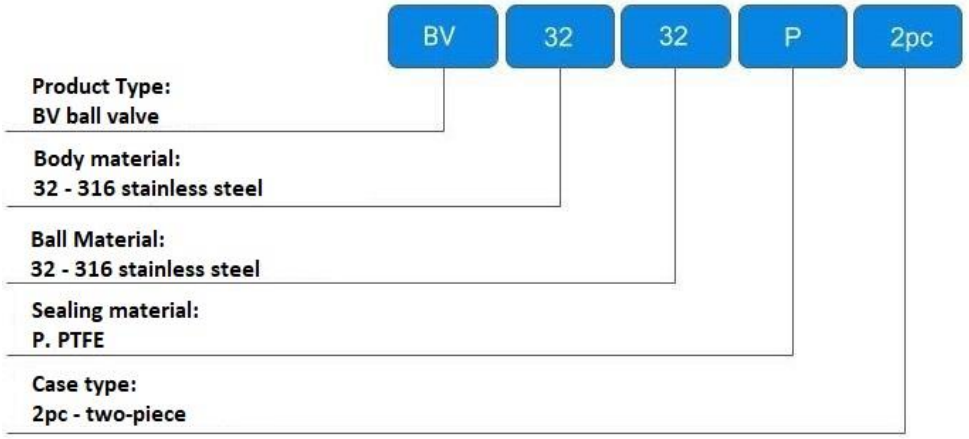
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

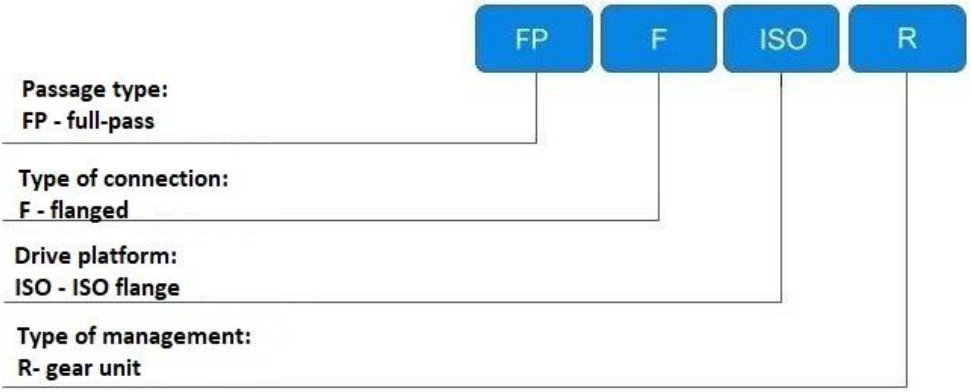
1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Ball valve ELEPHANT BV3232P(2pc)-FP-F-ISO-R DN200-300 16 bar stainless steel, full bore, flanged, with ISO-flange and reducer.
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. By turning the hand wheel on the gearbox mounted on the valve body, the ball is rotated around the axis.

** the image may differ from the original*

1.4. Deciphering of the designation:





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2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	200 - 300
Nominal pressure PN, bar	16
Working medium temperature t, ºC	от -29 до +150
Working medium	cold and hot water, air without oil and grease impurities, other media neutral to materials
Flow direction	bilateral
Tightness class	A
Control type	gearbox
Pipeline connection	flanged
Body material	stainless steel 316
Areas of application	heating and water supply systems, industrial piping
Average life, number of opening/closing cycles	40 000
Average service life, years	10

3. BASIC MATERIALS

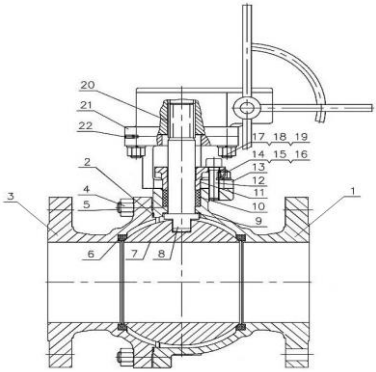

Table 2

№	Part name	Material
1	Body	stainless steel 316
2	Gasket	stainless steel 316+graphite
3	Cover	stainless steel 316
4	Nut	stainless steel ASTM A193 Gr.B8M
5	Bolt	stainless steel ASTM A193 Gr.B8M
6	Ball seal	PTFE
7	Ball	316 stainless steel
8	Rod	stainless steel 316
9	Thrust pad	PTFE
10	Stem seal	PTFE
11	Gland packing	stainless steel 316
12	Bolt	stainless steel ASTM A193 Gr.B8M
13	Support frame	stainless steel 304
14	Gasket	stainless steel 304
15	Stud	ASTM A193 Gr.B8M Cl2 stainless
16	Nut	stainless steel ASTM A193 Gr.B8M
17	Shock absorbing gasket	stainless steel 304
18	Stud	ASTM A193 Gr.B8M Cl2 stainless

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Table continuation 2

19	Nut	stainless steel ASTM A193 Gr.B8M
20	Gearing	steel 45
21	Gearbox	-
22	Screw	stainless steel ASTM A193 Gr.B8M

4. WEIGHT AND DIMENSIONAL PARAMETERS

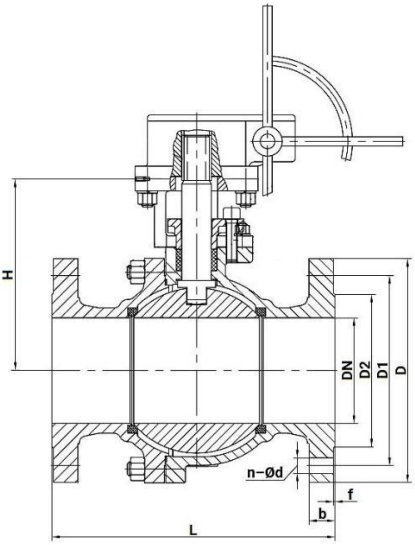

Table 3

DN	L	D	D1	D2	f	b	H	n–Ød	Stem square	ISO 5211	Weight
mm											kg
200	400	340	295	268	2	24	180	12–Ø22	27x27	F12/F14	118
250	450	405	355	320	2	26	296	12–Ø26	27x27	F12/F14	206
300	610	460	410	378	2	28	305	12–Ø26	36x36	F14	266

Table 4

	Torque, Nm
DN200	380
DN250	580
DN300	650

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 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.

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

5.3 It is not allowed to operate the valve with loose gearbox fastening.

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.

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6. INSTALLATION INSTRUCTIONS

6.1. The ball valve should preferably be installed in a mounting position with the gearbox facing upwards, ensuring ease of operation and access to the mechanisms.
6.2 Installation and removal 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, 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 it is necessary to check the crane operability
by turning the hand wheel of the gearbox, in this case moving parts should move smoothly, without jerks and jams. 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).

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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 _____

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