ELEPHANT

Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

Ball valve ELEPHANT BV3232P(3pc)-FP-F-ISO-H DN65-100 40 bar stainless steel, full bore, flanged with ISO-flange and handle

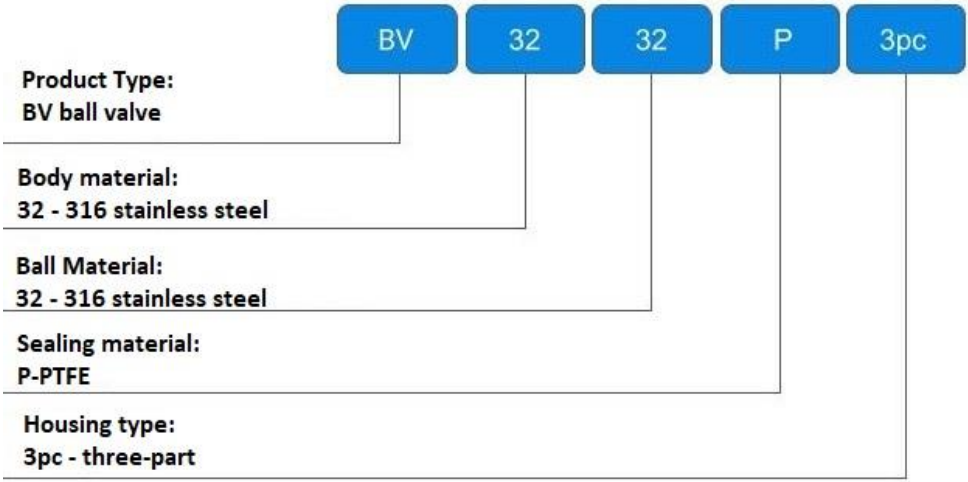
+34 900 433 073, sales@valveelephant.com
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

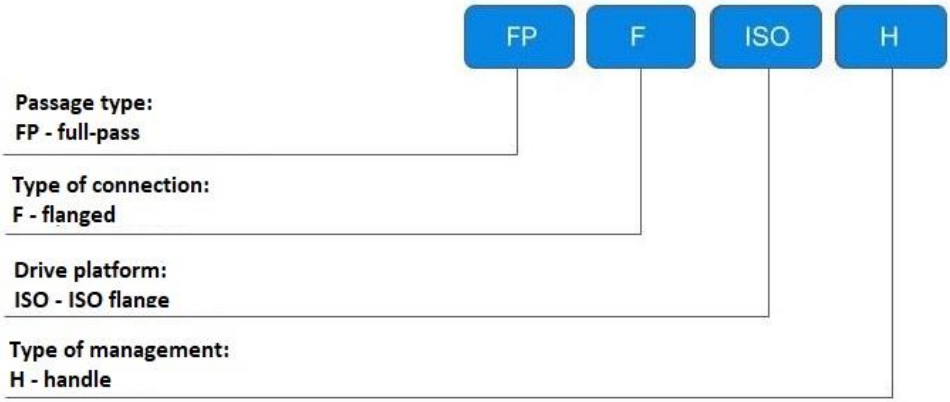
1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Ball valve ELEPHANT BV3232P(3pc)-FP-F-ISO-H DN65-100 40 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 valve materials.
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. With the help of a handle mounted on the body, the ball is rotated around the axis. It is sufficient to turn it by 90 degrees to completely shut off the flow.

** the image is for general design purposes and may differ from the original*

1.4. Deciphering of the designation:





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2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1. Main parameters

Nominal diameter DN, mm	65-100
Nominal pressure PN, bar	40
Working medium temperature t, ºC	-20 to 150
Maximum short-term temperature of working medium, ºC	230
Working medium	water, steam, petroleum products and other liquid or gaseous media neutral to valve materials
Connection to pipeline	flanged
Type of through section	full bore
Tightness class of the ball valve	«A»
Control type	manual
Body material	stainless steel AISI/SS 316
Ball material	stainless steel AISI/SS 316
Areas of application	heating and water supply systems, industrial piping
Average service life, years	5
Average life, closing/opening cycles	10 000

Table 2. Torques and throughput

	Torque on shaft, Nm	Conditional flow capacity Kv (for water with density 1000 kg/m3), m3/h
DN65	51	490
DN80	83	970
DN100	121	1610

3. BASIC MATERIALS

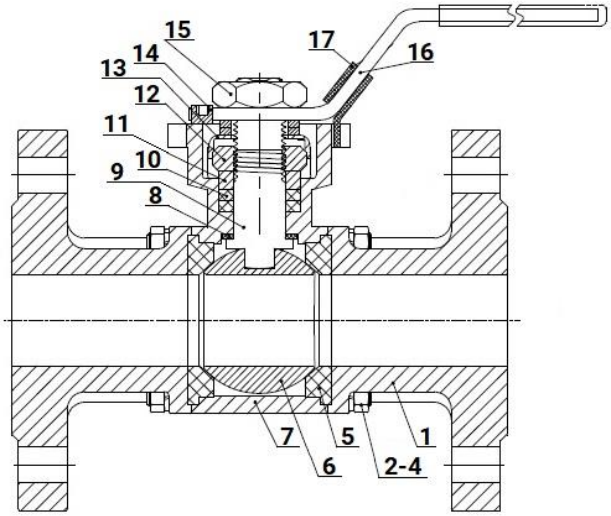

Table 3. Material specification

№	Part name	Quantity, pcs	Material
1	Flange part	2	stainless steel AISI/SS 316
2	Stud	4/6/8	stainless steel AISI/SS 304
3	Nut	8/12/16	stainless steel AISI/SS 304
4	Gasket	8/12/16	stainless steel AISI/SS 304
5	Seal	2	PTFE
6	Ball	1	stainless steel AISI/SS 316
7	Body	1	stainless steel AISI/SS 316
8	Thrust pad	1	PTFE
9	Rod	1	stainless steel AISI/SS 316
10	Packing	3	PTFE
11	Thrust ring	1	stainless steel AISI/SS 304
12	Positioning screw	1	stainless steel AISI/SS 304
13	Movable cover	1	stainless steel AISI/SS 304
14	Positioning bolt	1	stainless steel AISI/SS 304
15	Hexagonal nut	1	stainless steel AISI/SS 304
16	Handle	1	stainless steel AISI/SS 201+PVC
17	Locking stopper	1	stainless steel AISI/SS 201

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4. WEIGHT AND DIMENSIONAL PARAMETERS

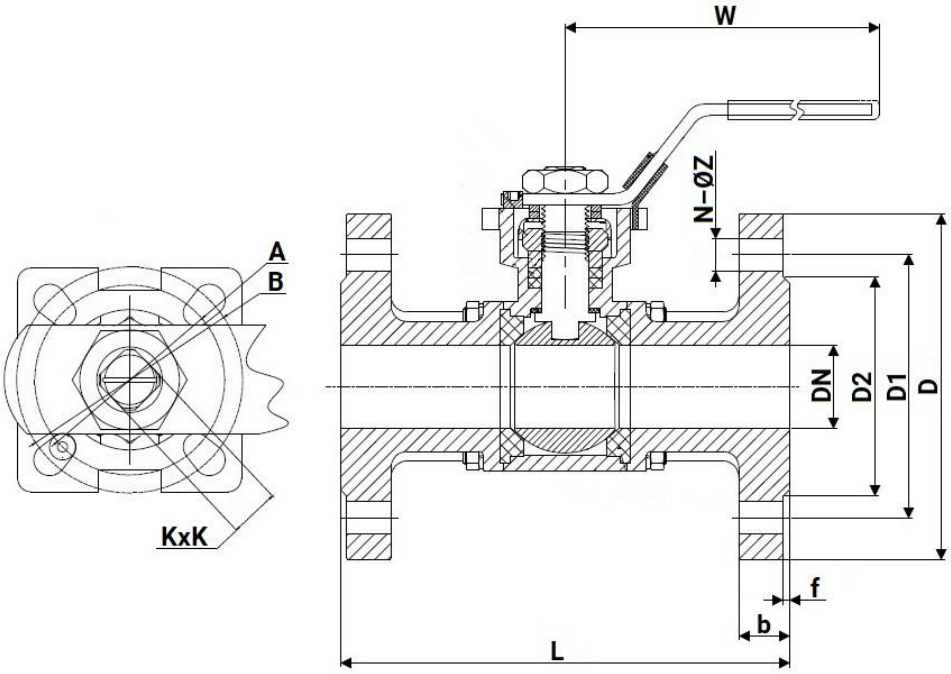

Table 4.1. Dimensional characteristics

	D, mm	D1, mm	D2, mm	W, mm	L, mm	b, mm	f, mm
DN65	185	145	122	260	290	22	3
DN80	200	160	138	260	310	24	3
DN100	235	190	162	300	350	26	3

Table 4.2. Dimensional characteristics, ISO flange type and weight

	A, mm	B, mm	KxK, mm	N – ØZ, mm	ISO 5211	Weight, kg
DN65	Ø70	Ø102	17x17	8 – Ø18	F07/F10	14
DN80	Ø70	Ø102	17x17	8 – Ø18	F07/F10	21
DN100	Ø70	Ø102	19x19	8 – Ø22	F07/F10	29

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.

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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, 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 that the crane is operational
by turning the handle, while 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. Transportation of ball valves is carried out 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 _____