TECHNICAL DATA SHEET

Ball valve ELEPHANT BV3232P(4pc)-FP-3x-F-ISO-H DN15-100 16 bar stainless steel, three-way, full bore, flanged with ISO-flange and handle

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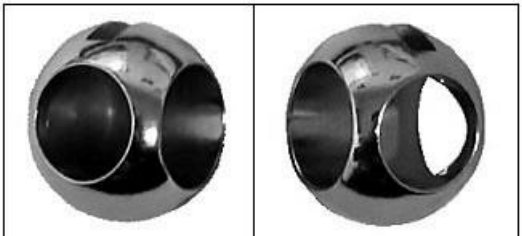
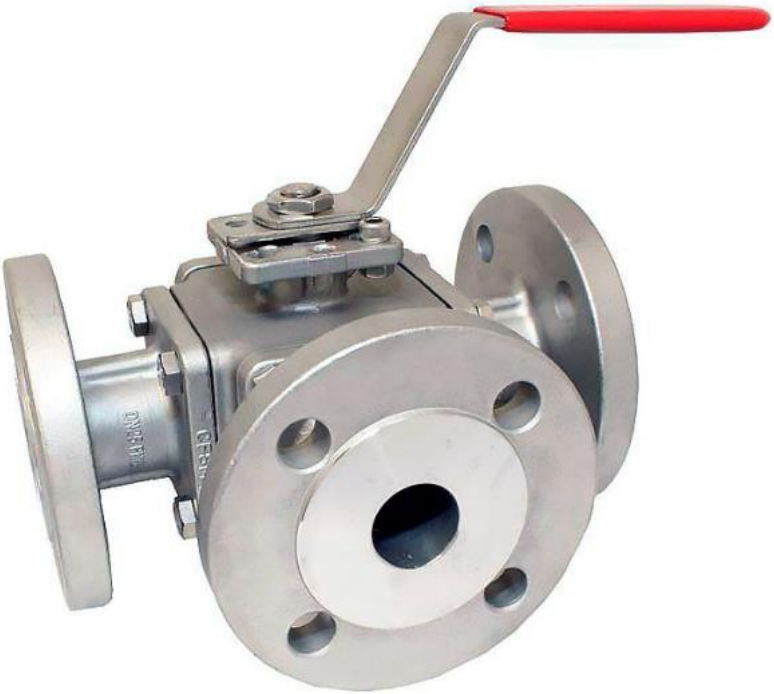
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Ball Valve ELEPHANT BV3232P(4pc)-FP-3x-F-ISO-H DN15-100 16 bar stainless steel, three-way, full bore, flanged with ISO-flange and handle.
1.2. Purpose: Ball valves are used as shut-off valves, as well as for mixing and separation of medium flows 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. By means of a handle mounted on the body, the ball is rotated around the axis. L-type valves belong to the switching type of devices. In valves having L-shaped profile of the flowing part of the shut-off ball, the working medium enters through the central spigot. Depending on the position of the handle, i.e. the ball itself, the working flow will be stopped or directed in one of the two opposite directions.
T-type valves belong to the mixing type of devices. In valves with T-shaped profile of the flowing part of the shut-off ball, there are also two channels. But, unlike the L-type, here the first channel passes through the ball, and the second channel connects to the cavity of the first at right angles. Such valves can connect 3 streams simultaneously, or 2 out of 3.





** the image may differ from the original*

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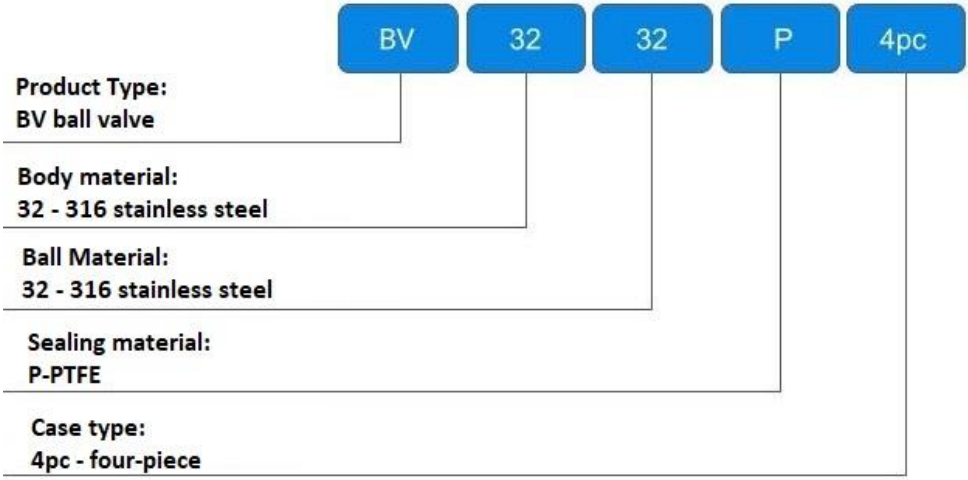
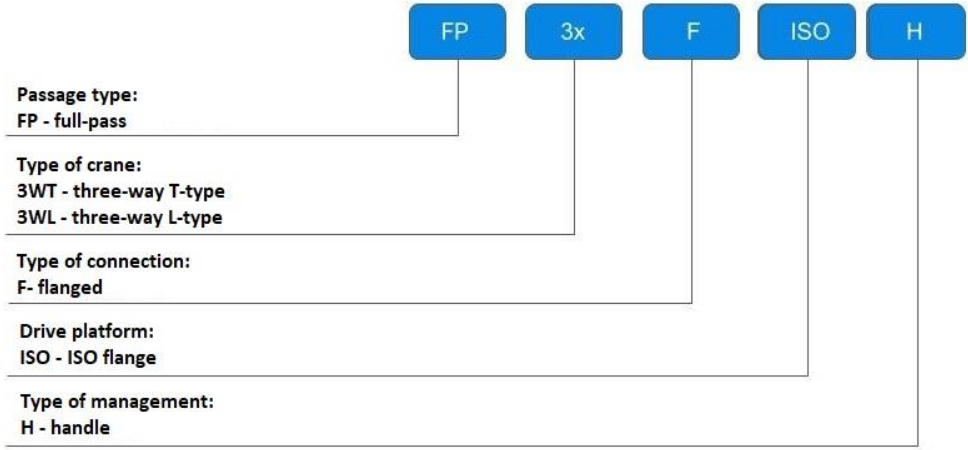
1.4. Deciphering of the designation:





2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1

Nominal diameter DN, mm	15-100
Nominal pressure PN, bar	16
Working medium temperature t, ºC	-25 to +180
Working medium	water, steam, petroleum products and other liquid or gaseous media neutral to valve materials
Connection to pipeline	flanged DIN 2501
Type of through section	full bore
Ball valve tightness class	«A»
Control type	manual
Areas of application	heating and water supply systems, industrial piping
Service life, years	10

Table 2

	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Maximum initial torque, Nm	7	10,5	13	22	31,5	36,5	66	112	157
Operating torque, Nm	5,5	8,5	10,5	17,5	25,5	29,5	53	90	126

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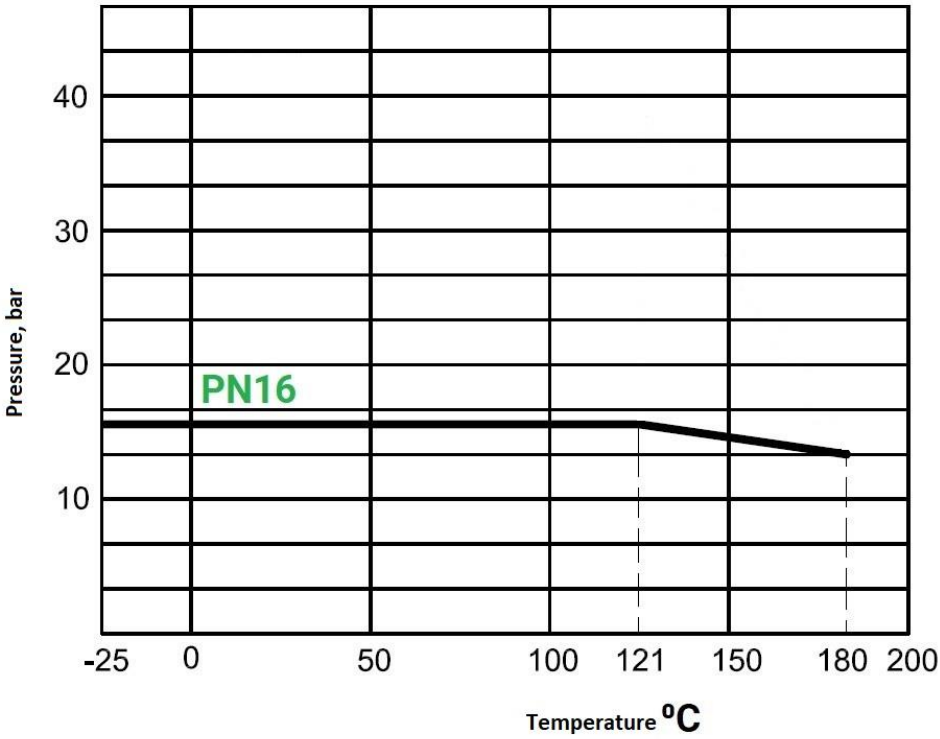
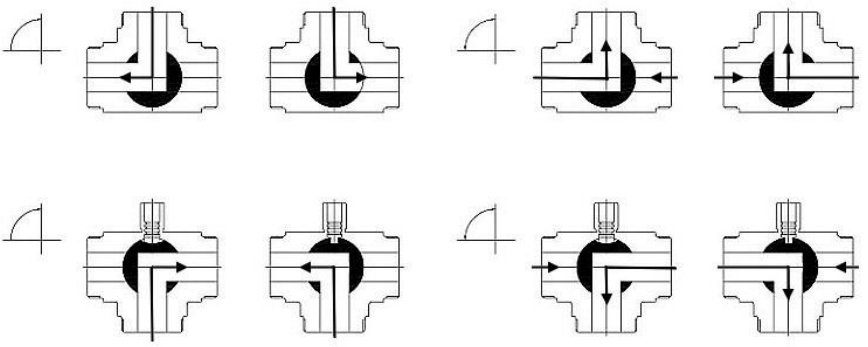
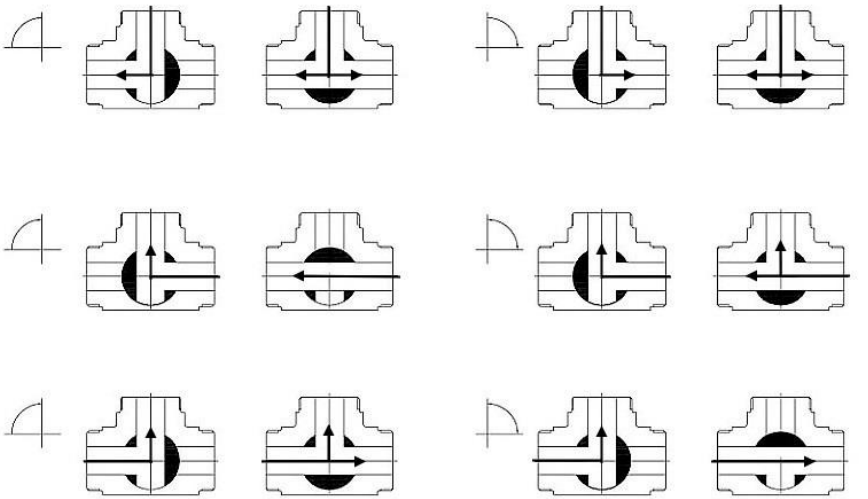

40
30
20
10
Pressure, bar
PN16
-25
0
50
100
121
150
180
200
Temperature °C

L-type flow diagrams



T-type flow diagrams



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3. BASIC MATERIALS

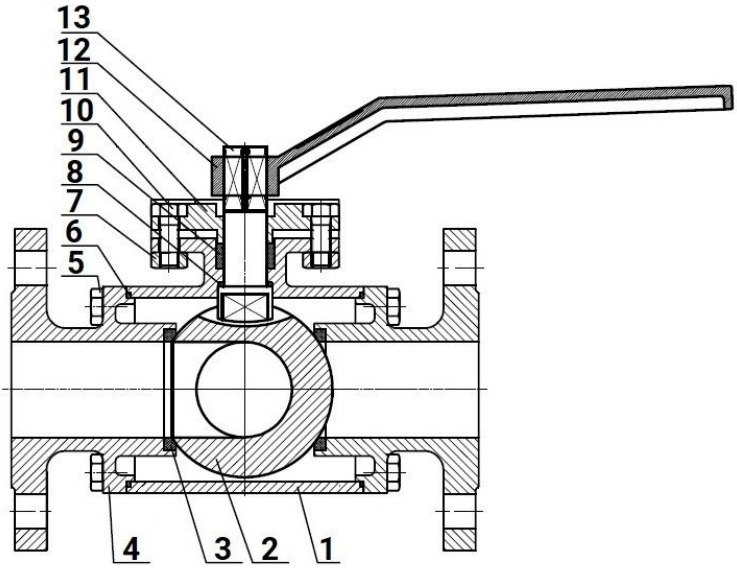

Table 3

№	Part name	Material
1	Body	SS316 stainless steel
2	Ball	SS316 stainless steel
3	Seal	PTFE
4	Body cap	SS316 stainless steel
5	Bolt	SS304 stainless steel
6	Gasket	PTFE
7	Nut	SS304 stainless steel
8	Gasket	PTFE
9	Stem seal	PTFE
10	Bolt	stainless steel SS304
11	Gland	SS304 stainless steel
12	Handle	stainless steel AISI 201
13	Stem	SS316 stainless steel

4. WEIGHT AND DIMENSIONAL PARAMETERS

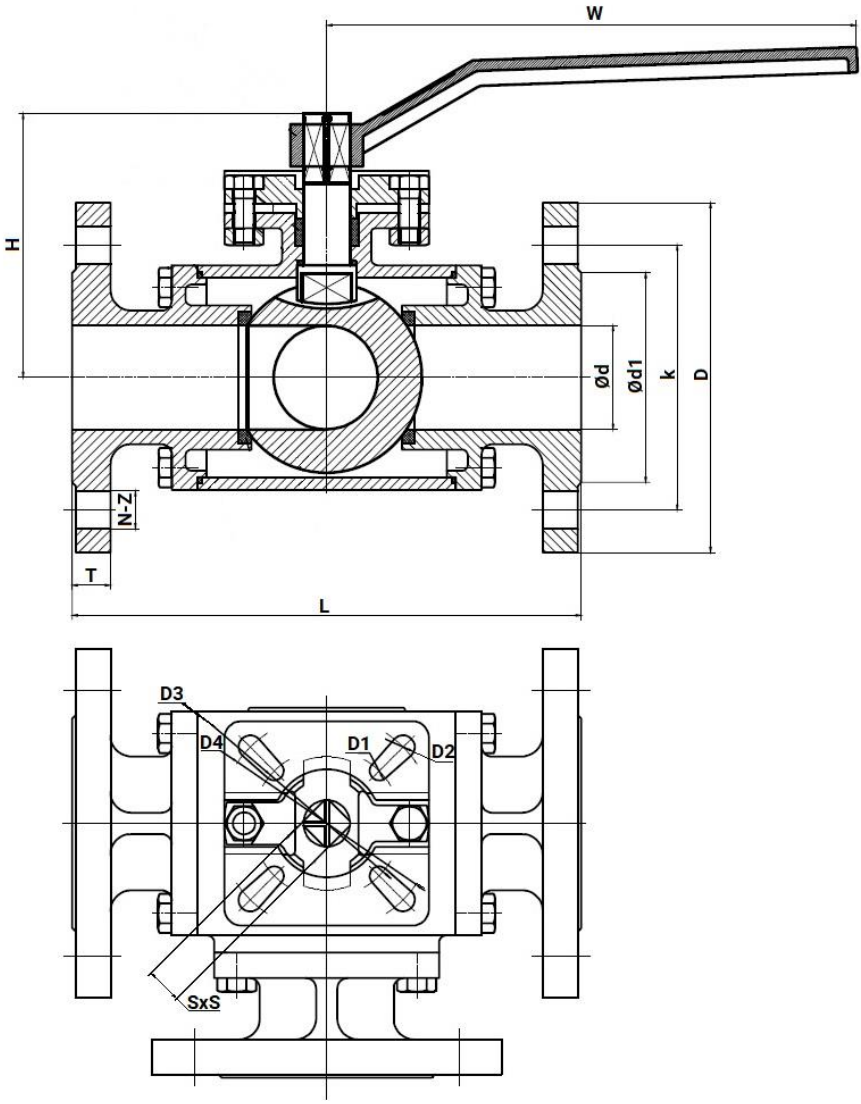

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Table 4.1.

	d, mm	d1, mm	k, mm	D, mm	L, mm	H, mm	W, mm	T, mm
DN15	15	45	65	95	150	72	150	14
DN20	18	58	75	105	160	77	190	14
DN25	25	64	85	115	180	82	190	14
DN32	32	78	100	140	200	100	215	16
DN40	38	88	110	150	220	108	215	16
DN50	49	99	125	165	240	125	250	18
DN65	65	122	145	185	260	144	250	18
DN80	80	138	160	200	280	160	300	20
DN100	100	158	180	220	325	187	300	20

Table 4.2.

	D1, mm	D2, mm	D3, mm	D4, mm	SxS, mm	N – Z, mm	ISO 5211	Weight, kg
DN15	5,5	6	36	42	9x9	4 –14	F03/F04	3,5
DN20	6,0	7	42	50	11x11	4 –14	F04/F05	4,5
DN25	6,0	7	42	50	11x11	4 –14	F04/F05	5,6
DN32	7,0	9	50	70	14x14	4 –18	F05/F07	9,3
DN40	7,0	9	50	70	14x14	4 –18	F05/F07	11,65
DN50	9,0	11	70	102	17x17	4 –18	F07/F10	17,95
DN65	9,0	11	70	102	17x17	4 –18	F07/F10	26,5
DN80	9,0	11	70	102	19x19	8 –18	F07/F10	39,1
DN100	11,0	13	102	125	19x19	8 –18	F10/F12	58,5

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 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 joints 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.

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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 _____