TECHNICAL DATA SHEET

Ball valve ELEPHANT BV4242E-FP-GRM-ISO DN15-100 10 bar UPVC, full port, glued removable muff connection, with ISO flange and bare square stem

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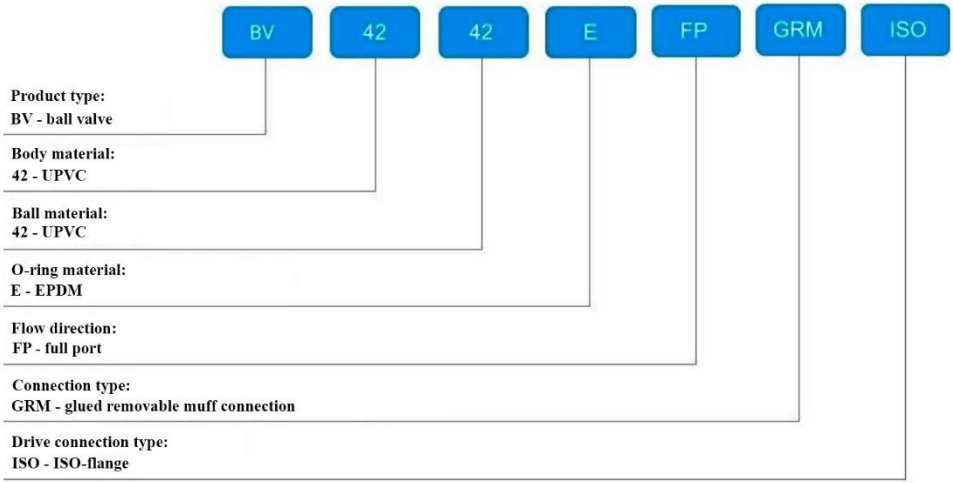
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

1. GENERAL INFORMATION ABOUT THE PRODUCT

1.1. Product name: Ball valve ELEPHANT BV4242E-FP-GRM-ISO DN15-100 10 bar UPVC, full port, glued removable muff connection, with ISO flange and bare square stem.
1.2. Purpose: The ball valve is used as a shut-off valve to shut off the flow of the working medium in pipelines.
1.3. Operating principle: The shut-off of the working flow occurs by means of a locking element, which is a ball with a through cylindrical hole.

1.4. Decoding of the designation:



2. KEY TECHNICAL DATA AND CHARACTERISTICS

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Table 1. Key parameters

Nominal diameter DN, mm	15-100
Nominal pressure, bar	10
Working environment temperature, ºC	from 0 to +45
Working environment	water, air without impurities of oil and fat, waste water and other media neutral to the material
Ambient temperature, ºC	from 0 to +40
Flow direction	full port
Sealing class	A
Control type	under drive
Connection to the pipeline	glued removable muff connection
Body material	UPVC
Ball material	UPVC
O-ring material	EPDM
Application	water supply systems, water treatment, sewerage
Average resource, opening/closing cycles	5 000

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3. MAIN MATERIALS OF PARTS

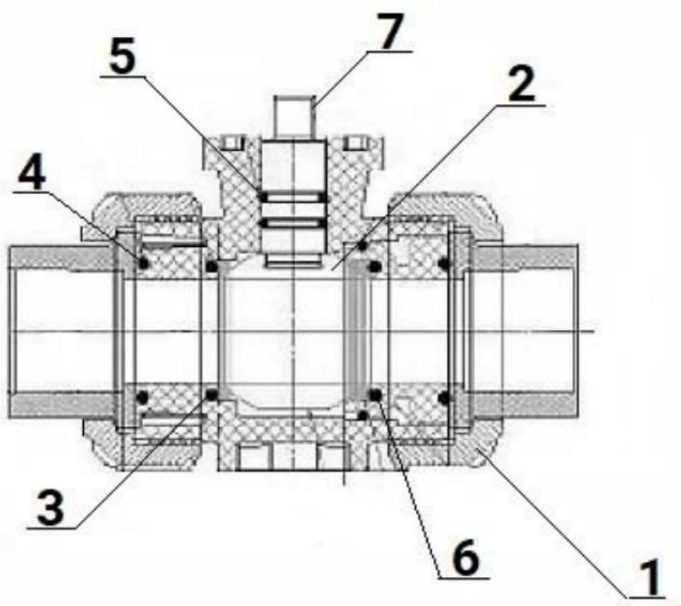

Figure 1 - Detailing

Table 2. Parts specification

№	Part name	Material
1	Body	UPVC
2	Ball	UPVC
3/4/5/6	O-ring seals	EPDM
7	Rod	Stainless steel AISI 304

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4. WEIGHT AND DIMENSIONAL PARAMETERS

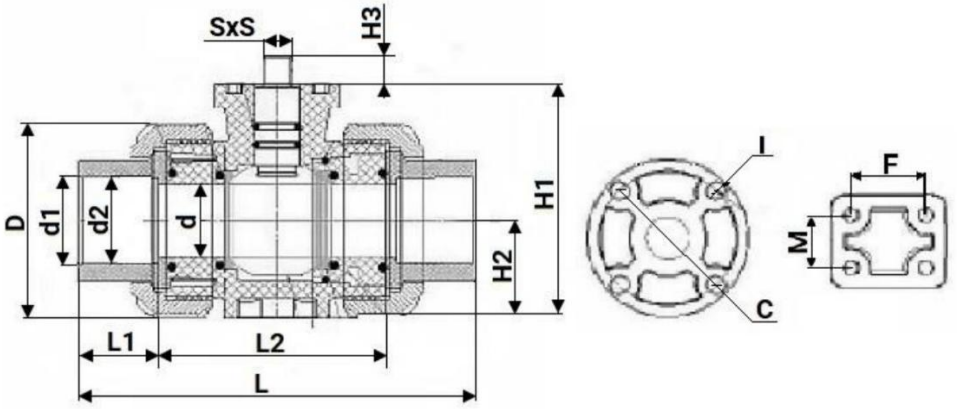

Figure 2 – Dimensions

Table 3.1. Dimensions

	D, mm	d, mm	d1, mm	d2, mm	L, mm	L1, mm	L2, mm	H1, mm	H2, mm
DN15	56	15	20.3	20	123.5	23	67	66	27.5
DN20	65	20	25.3	25	137	26	74	77.5	32
DN25	75.5	25	32.3	32	148	29	77	89.5	37.5
DN32	86.5	32	40.4	40	165	32.5	88	103	43
DN40	101	40	50.4	50	176	35.5	93	116.5	50
DN50	121.5	50	63.4	63	197	38.5	105	138	60
DN65	153	63	75.5	75	279	65	134	171	76
DN80	175	75	90.5	90	307	70	148	194	88
DN100	194	90	110.5	110.1	354	84	157.5	220	99.5

Table 3.2. Dimensions and weight

	H3, mm	SxS, mm	F, mm	M, mm	C, mm	ISO	I	Torque, Nm	Weight, kg
DN15	8	9x9	-	20	36	F03	M5	3.0	0.316
DN20	8	9x9	20	-	36	F03	M5	3.0	0.340
DN25	8	9x9	26	19	36	F03	M5	4.0	0.469
DN32	12	11x11	28	20	50	F05	M6	5.0	0.704
DN40	12	11x11	35	27	50	F05	M6	6.0	0.933
DN50	13	11x11	35	27	50	F05	M6	7.0	1.408
DN65	16	14x14	38	46	70	F07	M8	9.0	3.325
DN80	16	14x14	50	46	70	F07	M8	11.0	2.278
DN100	17.5	14x14	50	46	70/ 102	F07/ F10	M8/ M10	15.0	2.279

5. OPERATION INSTRUCTIONS

5.1. It is prohibited to:

- use ball valves as control valves;
- allow the working medium inside the ball valve to freeze;
- operate the products under conditions and at parameters that do not correspond to the rated values;
- perform installation, dismantling, and preventive work in the presence of a working medium and pressure in the pipeline;
- use ball valves instead of plugs when testing pipeline systems;
- use valves as supports for the pipeline;
- use levers (gas wrenches, extensions) to operate the valve, increasing the handle arm;
- install products on systems with a working medium containing abrasive components.

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

5.3. Do not operate the tap with a loose handle mounting nut, as this may result in breakage of the stem neck.

5.4. For preventive purposes, as well as to prevent the formation of karst deposits on the surface of the ball, it is necessary to perform 2-3 “open-closed” cycles several times a year.

5.5. In case of using a ball valve with a working medium with a high content of mechanical impurities, installation of additional filtering equipment at the inlet is mandatory.

5.6. When installing and operating cranes, safety requirements according with the procedures established at the enterprise.

5.7. Maintenance of cranes during operation is reduced to periodic inspections. In this case, the stroke of the rod is checked until the crane is fully opened and closed, and there is no leakage.

6. INSTALLATION INSTRUCTIONS

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6.1. The ball valve may be installed on a pipeline section in any mounting position that ensures ease of operation and access to the drive.
6.2. Installation and dismantling of the product, as well as any repair or adjustment operations, must be carried out in the absence of pressure in the system.
6.3. Before installing the tap, the pipeline must be cleaned of dirt, sand, scale and any foreign objects.
6.4. The ball valve must not be subject to loads from the pipeline (bending, compression, stretching, torsion, distortions, vibration, misalignment of pipes, uneven tightening of fasteners). If necessary, supports or compensators must be provided to reduce the load on the fittings from the pipeline.
6.5. After installation, it is necessary to check the functionality of the crane by turning the handle; the moving parts should move smoothly, without jerking or jamming.

7. TRANSPORTATION AND STORAGE CONDITIONS

7.1. Transportation and storage conditions - in accordance with the procedures established at the enterprise.
7.2. Storage should be carried out in the original packaging - in accordance with the procedures established at the enterprise.
7.3. When shipped to the consumer, the taps are not subject to preservation, since the materials used in their manufacture are weather-resistant and have a protective coating.
7.4. During storage and transportation, ball valves do not cause harm to the environment and human health.

8. DISPOSAL

8.1. Disposal of the product (remelting, burial, resale) is carried out in accordance with the procedure established at the enterprise.
8.2. Before sending for disposal, any remaining working medium must be removed from the fittings. Methods for removing the working medium and decontaminating the fittings must be approved in accordance with the established procedure at the enterprise operating the product.

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 №____

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№	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__yr. Caption _____