



Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

**Control ball valve ELEPHANT BVR3232P(1pc)-SP-W-H
DN50 40 bar stainless steel, standard bore, welded
with handle, with nipples**



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1. GENERAL PRODUCT INFORMATION

1.1. Product Name: Control ball valve ELEPHANT BVR3232P(1pc)-SP-W-H DN50 40 bar stainless steel, standard bore, welded, with handle, with nipples.

1.2. Purpose: The ball valve is used as a shut-off/regulating valve in heat supply systems, 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: Shut-off/regulation of the working flow is performed by means of the locking element, which is a ball with a special cross-section. The ball is rotated around the axis by means of a handle with a pointer mounted on the body. The valve is equipped with a scale with values. The selected position of the handle is secured with a nut. Measuring nipples are designed for connection of portable balancing and measuring devices, which allow measuring differential pressure, temperature and flow rate of the working medium. These devices are used for balancing of the network and adjustment of the regulating valve. Network balancing - adjustment of the required pressures at different sections by adjusting the position of the shut-off valve regulating valve. The instrument is connected to the valve via measuring nipples and does not require draining the pipeline or stopping network operation.

1.4. Effect of application:

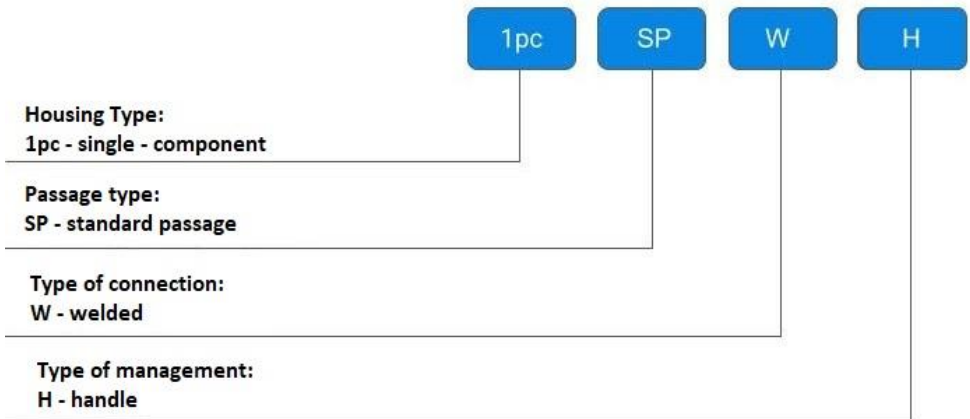
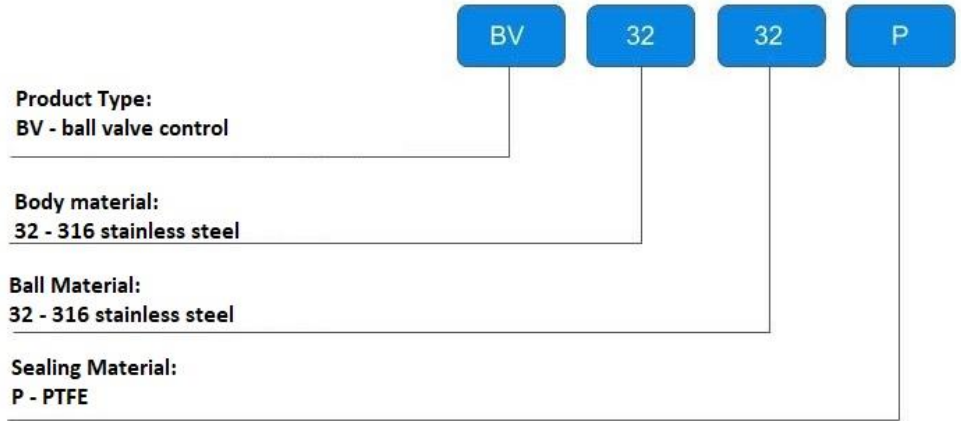
- Increased stability and reliability of heat networks due to stabilization of hydraulic regimes.
- Convenience and simplicity of balancing heat and water supply networks.
- Convenience of pressure regulation in heating systems without the use of pressure regulators and balancing valves.
- Reduction of costs for installation and maintenance of systems due to high reliability and resistance of the valve to contamination.
- Minimal time of readjustment of shut-off valves to a new operating mode.



** the image may differ from the original*



1.5. Deciphering of the designation:



2. BASIC TECHNICAL DATA AND CHARACTERISTICS

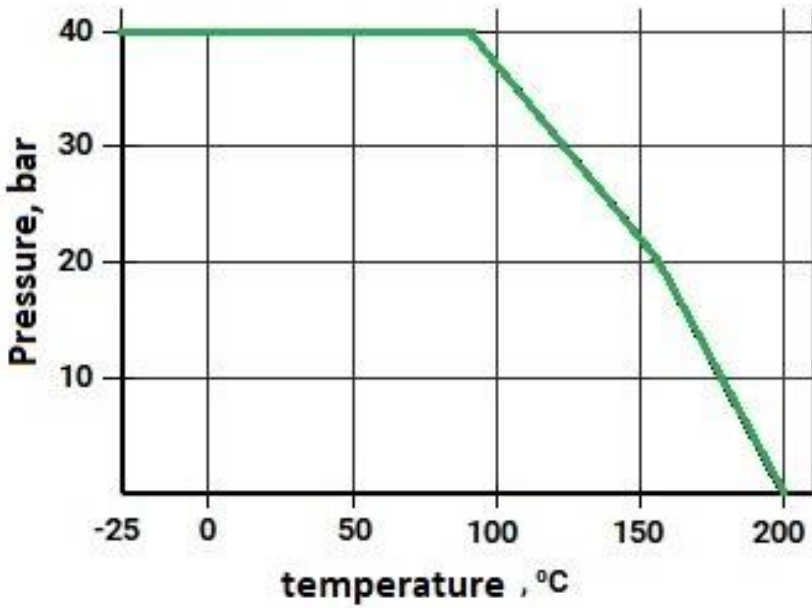
Table 1

Nominal diameter DN, mm	50
Nominal pressure PN, bar	40
Flow characteristic	equal
Working medium temperature t, °C	-25 to +200
Working medium	water, gas, oil products and other media, including aggressive media that are neutral to the materials of the valve components
Connection to pipeline	welded
Type of cross-section	standard bore
Direction of working medium flow	body arrow
Sealing class of the ball valve	«A»
Control type	manual
Areas of application	heating and water supply systems, industrial piping
Service life, years	10

Table 2

Value on the crane scale	1	2	3	4	5	6	7	8	9	10
Flow coefficient Kv, m ³ /h	0,96	2,40	4,26	6,57	9,64	17,87	29,11	44,60	60,47	76,58





3. BASIC MATERIALS

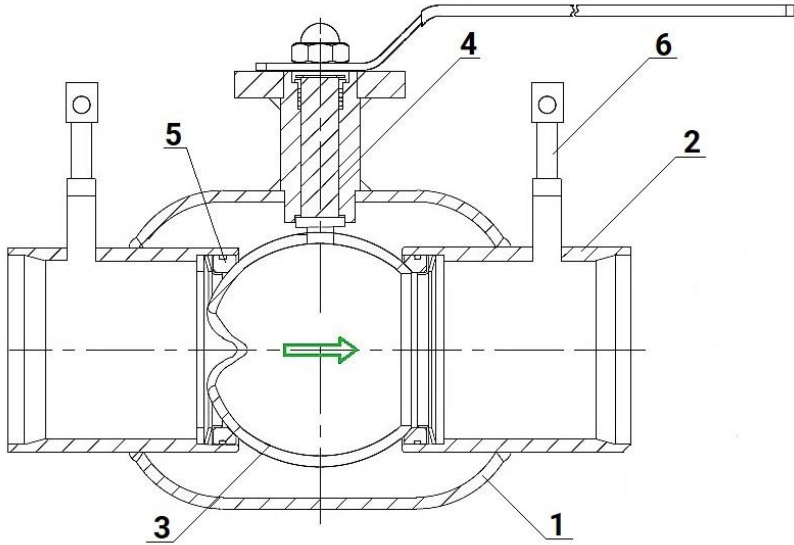
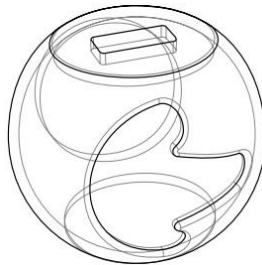


Table 3

Nº	Part name	Material
1	Body	SS316 stainless steel
2	Connection part	SS316 stainless steel
3	Ball	SS316 stainless steel
4	Stem	SS316 stainless steel
5	Sealing ring	RPTFE
6	Nipple	SS316 stainless steel



char



4. WEIGHT AND DIMENSIONAL PARAMETERS

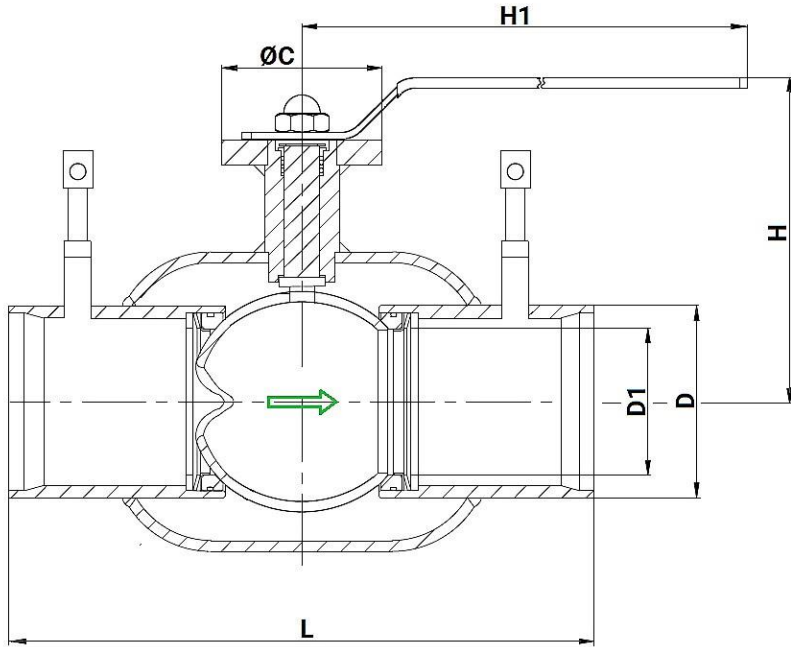


Table 4

	L, mm	D, mm	D1, mm	ØC, mm	H, mm	H1, mm	Weight, kg
DN50	300±3	60	40	90	150	195	5,6



5. OPERATING INSTRUCTIONS

5.1. It is forbidden:

- allow the working medium to freeze inside the ball valve;
- - operate the product under conditions and parameters that do not correspond to the nameplate values;
- to 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 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.

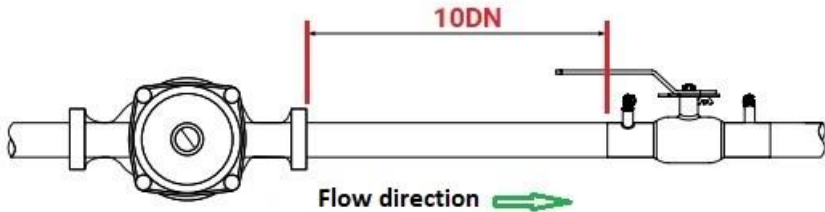
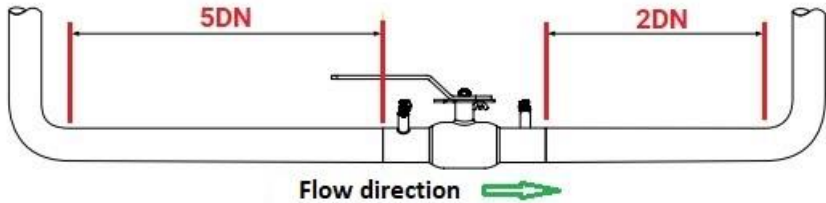


6. INSTALLATION INSTRUCTIONS

6.1. The ball valve may be installed on the pipeline section in any mounting position that ensures convenient operation and access to the manual actuator.

6.2 The valve shall be installed on the pipeline so that the arrow on its body coincides with the direction of medium flow.

6.3 The straight section of the pipeline in front of the valve must be at least 5 DN of the pipe and at least 10 DN in case of installation directly after the pump.



6.4. 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.

6.5 Before installing the valve, the pipeline must be cleaned of dirt, sand, scale and any foreign objects.

6.6 When installing on a horizontal pipeline, the valve should be fully open.

6.7. When installing the valve on a vertical pipeline:

- When welding the upper end, the valve must be fully open (to prevent sparks from damaging the ball surface and the seal);
- When welding the lower end, the valve must be completely closed (to avoid draught from the heat of welding).

6.8. Avoid overheating the valve body during welding. The body is considered overheated if the body surface temperature at the valve seats exceeds 80 °C during welding. The seat area must be cooled against overheating with a moistened rag.

6.9. It is forbidden to turn the ball directly after welding (without preliminary cooling).

6.10. It is inadmissible to reduce the construction length of the welded ball valve, as this length is specially designed to avoid overheating of the ball seal when it is installed on the pipeline.



6.11. The ball valve must not be subjected to loads from the pipeline (bending, compression, tension, torsion, misalignment, 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.

6.12. After the installation and cooling of the valve should be checked the operability of the valve by turning the handle, while 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.

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.



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 _____

