



Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

**Butterfly valve Elephant
WBV3432x-2W-Fb-R DN400-500 16 bar
carbon steel, interflanged, with gearbox**



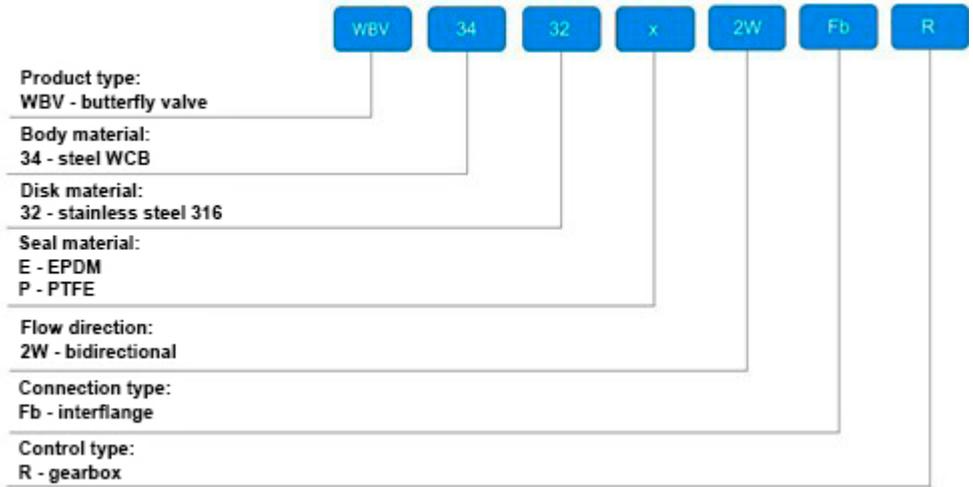
+34 900 433 073, sales@valveelephant.com
Carrer d'Aragó, 264, 3-1, 08007 Barcelona, Spain

1. GENERAL INFORMATION ABOUT THE PRODUCT

- 1.1. Product name: Butterfly valve Elephant WBV3432x-2W-Fb-R DN400-500 16 bar carbon steel, interflanged, with gearbox.
- 1.2. Purpose: The butterfly valve is designed for use as a shut-off or regulating valve for controlling flows in heat supply systems, water supply systems, in technological processes of food, chemical, oil and gas, pulp and paper and other industries.



1.3. Deciphering the designation:



MAIN TECHNICAL DATA AND CHARACTERISTICS

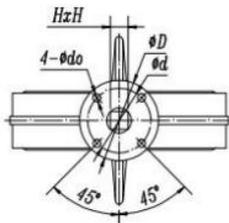
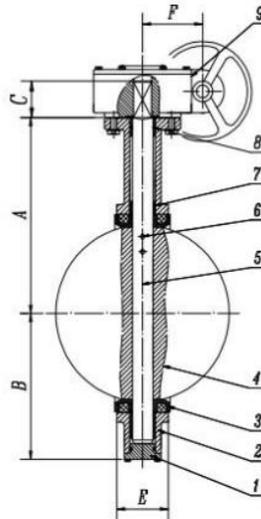
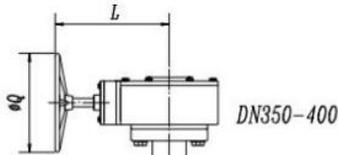
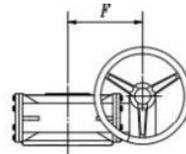
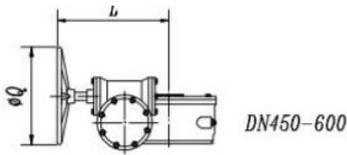
Nominal diameter DN, mm	400 – 500
Nominal pressure, bar	16
Flow direction	double-sided
Working medium temperature t, °C	from -20 to +120 for EPDM from -10 to +180 for PTFE
Working medium	EPDM: cold and hot water, air without oil and grease, other media neutral to the material PTFE: water, alkalis, acids, solvents and oxidizing agents
Body material	steel WCB
Disk material	stainless steel AISI 316L
Connection to pipeline	interflanged
Type of control	reducer
Torque, Nm	DN400 - 850 DN500 - 1400

MATERIAL INFORMATION FOR THE MAIN PARTS

No	Name	Material	No	Name	Material
1, 2	Plug, Body	steel WCB	6	Stud	stainless steel AISI 316
3	Seat seal	EPDM / PTFE	7	Coupling	PTFE
4	Disk	stainless steel AISI 316L	8	Sealing ring	NBR
5	Stem	stainless steel AISI 316	9	Gearbox	-



MAIN DIMENSIONS OF VALVES



DN	A	B	C	E	$\varnothing Q$	L	F	$\varnothing D$	$\varnothing d$	4- $\varnothing do$	HxH / \varnothing stem
mm											
400	400	298	52	86±2	285	240	107	175	140	4-18	27x27 / 27
500	480	358	65	127±2	285	255	174	175	140	4-18	27x27 / 27



INSTALLATION AND OPERATION

1. Clean (blow out) pipelines from dirt, sand, scale before installation.
2. Installation of butterfly valves should be performed only between collar flanges.
3. The inside diameter of the flanges should correspond to the nominal diameter of the disk butterfly valve.
4. The flanges shall be placed plane-parallel to each other at a distance that allows the gate to be placed freely (without excessive force) between them. The sealing surfaces of the flanges shall be free of nicks, dents, burrs, and other surface defects.
5. Before beginning installation, the butterfly valve disk must be opened slightly, but so that the disk does not protrude beyond the butterfly valve body.
6. Center the butterfly valve and lightly tighten the bolts (studs), but do not tighten them. Open the butterfly valve disk to the “fully open” position.
7. Tighten the bolts (studs) so that the flanges and the body (metal part) of the bolt make contact. The flange connections should be tightened evenly in three or even four passes, in a “crosswise” sequence.
8. Bolt tightening on inter-flange connections should be uniform throughout. Slowly close and open the butterfly valve. If the gate has been installed correctly, the gate should open and close freely.
9. During operation, periodic inspections (routine maintenance) should be performed at the times established by the schedule, depending on the operation mode of the system (unit), but at least once a month.
10. 11. During inspections it is necessary to check:
 - a) general condition of the penstock;
 - b) condition of fastening joints;
 - c) tightness of joints in relation to the external environment;
 - d) operability and ability of the gate to perform its functions.
11. To ensure a long service life of the gate, it is necessary to periodically open and close the gate fully or partially during a long “downtime”, more than three months.
12. Inspections and tests are to be carried out by personnel operating the system or unit, who have the necessary competence and qualifications.



WARRANTY PERIOD

Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

The warranty does not apply:

- parts and materials of the product subject to wear and tear
- for cases of damage caused by:
 - violations of the product storage, installation, testing, operation and maintenance specifications;
 - improper transportation and handling operations;
 - the presence of traces of exposure to substances aggressive to the product materials;
 - presence of damage caused by fire, elements, force majeure circumstances;
 - damage caused by incorrect actions of the consumer;
 - traces of tampering with the design of the product.

SALES MARK

Nº	Product Name	Packs

Date of sale: _____

L.S.

