ELEPHANT

Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

Butterfly valve Elephant
WBV1413E-2W-Fb-H DN40-300 16 bar
cast iron, interflanged, with ISO-flange and handle

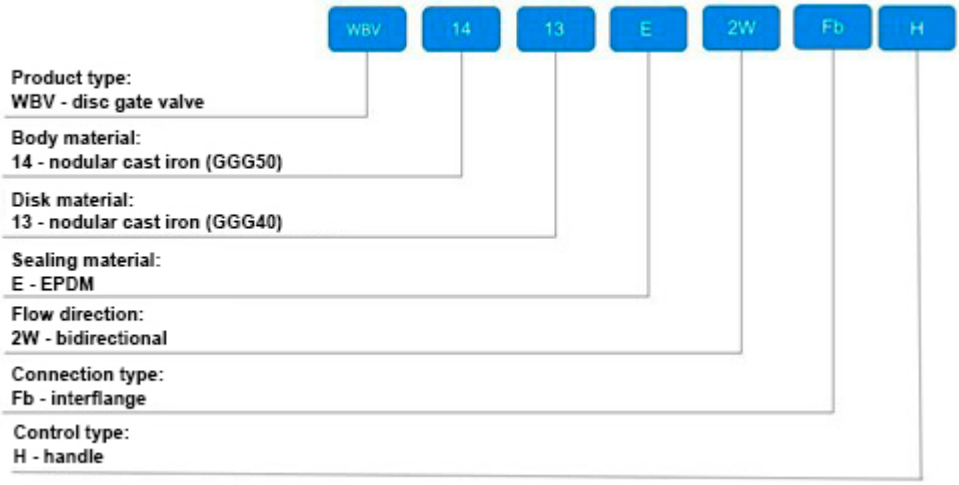
+34 900 433 073, sales@valveelephant.com
Carrer d'Aragó,264,3-1,08007 Barcelona, Spain

1. GENERAL INFORMATION ABOUT THE PRODUCT

1.1. Product name: Butterfly valve Elephant WBV1413E-2W-Fb-H DN40-300 16 bar cast iron, interflanged, with ISO-flange and handle.

1.2. Purpose: The butterfly valve is designed for use as a shut-off or regulating valve for controlling flows in heat and water supply systems, in technological processes of chemical, oil and gas, pulp and paper and other industries.

1.3. Deciphering the designation:



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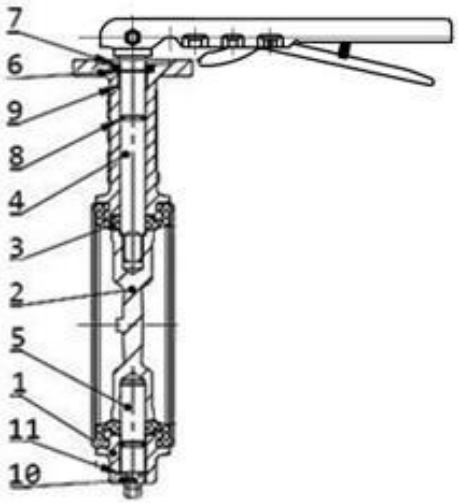
MAIN TECHNICAL DATA AND CHARACTERISTICS

Nominal diameter DN, mm	40 - 300
Nominal pressure, bar	16
Flow direction	bilateral
Maximum temperature of working medium t, ºC	up to +110
Working medium	cold and hot water, air without oil and grease, stationary conditioning, slightly aggressive media, other media neutral to the material
Control type	handle
Body material	cast iron GGG50
Disk material	cast iron GGG40
Average service life, years	5
Average life, closing/opening cycles	20 000 (in non-aggressive environment and average pressure and temperature values)



MATERIAL INFORMATION FOR THE MAIN PARTS

№	Name	Material	№	Name	Material
1	Body	cast iron GGG50	6, 11	Retaining ring	stainless steel SS 201
2	Disk	cast iron GGG40	7	Duster	NBR
3	Seat seal	EPDM	8	Stem gasket	NBR
4	Upper stem	stainless steel SS 420	9	Shaft gasket	stainless steel SS 201
5	Lower stem	stainless steel SS 420	10	Plug	plastic

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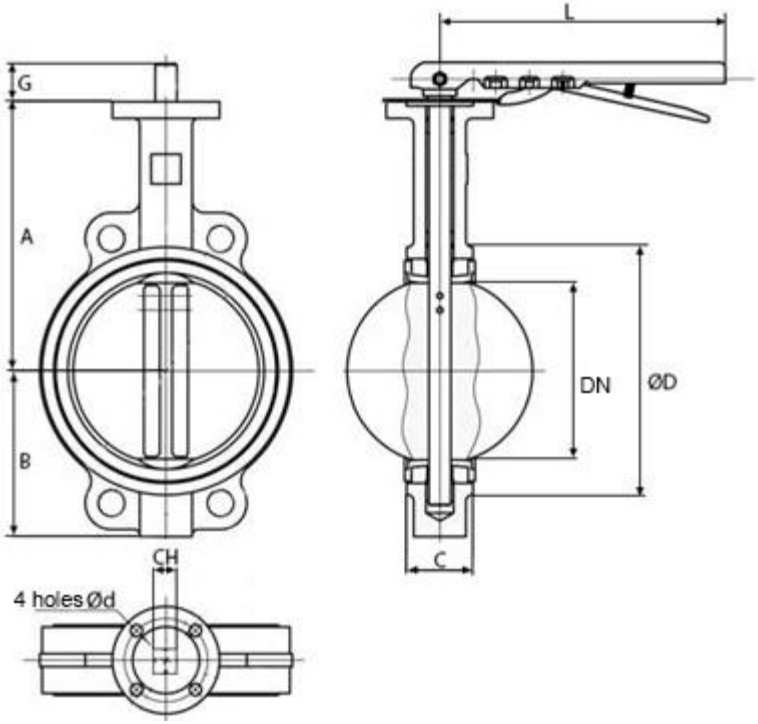

MAIN DIMENSIONS OF VALVES

DN	A	B	C	ØD	L	Ød	G	CH (stem)	ISO	Torque, Nm	Weight, kg
mm											
40	126	67	43	75	216	8	25	9x9	F05	20	1.6
50	126	67	43	84.5	216	8	25	9x9	F05	23	2.2
65	136	75	46	104.5	216	8	25	9x9	F05	29	2.5
80	144	92	46	123.5	216	8	25	9x9	F05	39	2.9
100	155	106	52	139.5	255	10	25	11x11	F07	59	3.8
125	183	121	56	169.5	255	10	25	14x14	F07	84	5.8
150	199	136	56	196	255	10	25	14x14	F07	86	7.4
200	222	171	60	247	370	12	30	17x17	F10	220	12.5
250	270	200	68	304	370	12	30	22x22	F10	350	18.9
300	317	317	78	358	370	12	30	22x22	F10	420	27.0

INSTALLATION AND OPERATION

1. Clean (blow out) pipelines from dirt, sand, scale before installation.
2. Installation of butterfly valves should be performed between flat or collar flanges.
3. The inner diameter of flanges should correspond to the nominal diameter of the disk butterfly valve.
4. Before beginning installation, the butterfly valve disk should be opened slightly, but so that the disk does not extend beyond the butterfly valve body.
5. 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.
6. Tighten the bolts (studs) so that the flanges and the body (metal part) of the gate are in contact. The flange connections should be tightened evenly in three or even four passes, in a “crosswise” sequence.
7. Bolt tightening on inter-flange connections should be uniform throughout. Slowly close and open the disk butterfly valve.
8. If the gate has been installed correctly, the gate should open and close freely.
9. Types, amounts, and frequency of maintenance.
10. During operation, periodic inspections (routine maintenance) should be performed within the timeframe established by the schedule, depending on the mode of operation of the system (unit), but at least once a month.
11. During inspections it is necessary to check:
    a) general condition of the gate;
    b) condition of fastening connections;
    c) tightness of joints in relation to the external environment;
    d) operability and ability of the gate to fulfill its functions.
12. 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 idle period of more than three months.
13. Inspections and tests shall be performed by personnel operating the system or unit who have the necessary competence and qualifications.

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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

№	Product Name	Packs

Date of sale: _____

L.S.