



Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

**Gate valve ELEPHANT GVKR1331E-2W-Fb-2P DN50-300
10 bar cast iron, interflanged with pneumatic actuator**



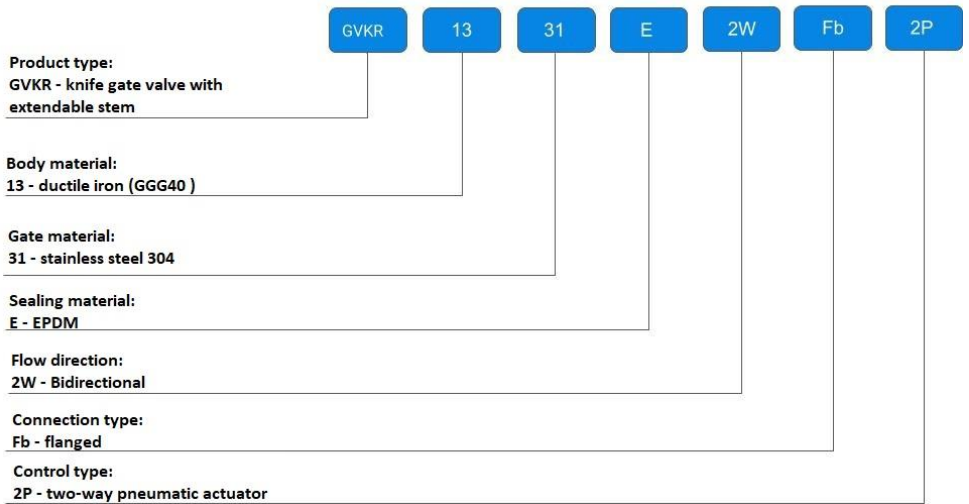
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1. GENERAL INFORMATION ABOUT THE PRODUCT

- 1.1. Product name: Gate valve ELEPHANT GVKR1331E-2W-Fb-2P DN50-300 10 bar cast iron, interflanged with pneumatic actuator.
- 1.2. Purpose: Gate valve is designed for installation on the pipeline as a shut-off device and serves for shutting off the flow of working medium in sewerage systems, treatment facilities, food and mining industries.



1.3. Deciphering the designation:



BASIC TECHNICAL DATA AND CHARACTERISTICS

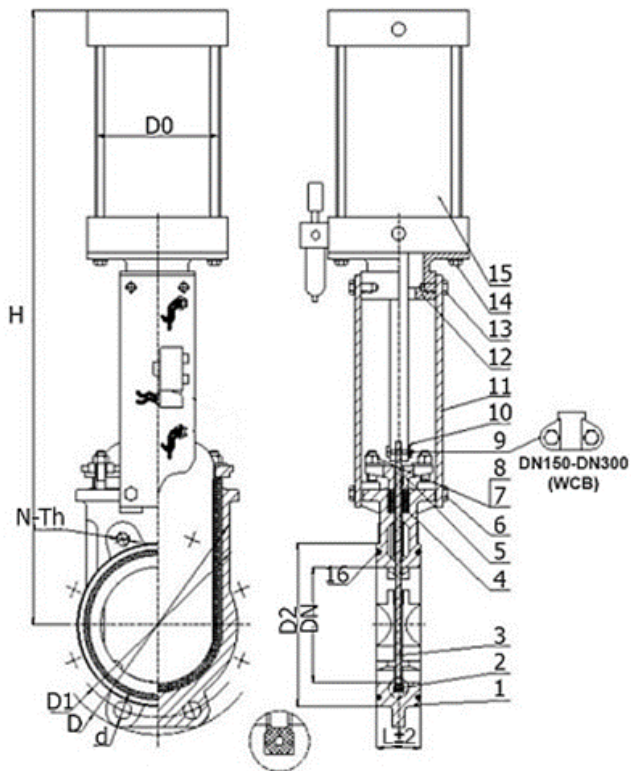
Nominal diameter DN, mm	50 – 300
Nominal pressure, MPa (kg/cm ²)	1,0 (10)
Flow direction	double-sided
Working medium temperature t, °C	-15 to +90
Ambient temperature t, °C	-5 to +50
Tightness in the gate	A
Working medium	Wastewater, slurry, viscous, powdery and crystallized media
Working medium of the pneumatic actuator	compressed air: <ul style="list-style-type: none"> • contamination class 6; • at ambient temperatures between +5° C and +50° C, the dew point is 10° C lower than the ambient temperature; • at temperatures below +5° C, the dew point is 5° C lower than the ambient temperature..
Pipeline connection	interflange
Control type	double-acting pneumatic actuator
Stem	retractable
Color	blue
Housing material	cast iron GGG40
Gate material	stainless steel AISI 304

MATERIAL INFORMATION FOR MAJOR PARTS

№	Product Name	Material	№	Product Name	Material
1	Housing	Cast iron GGG40	9	Stem	AISI201 steel
2	Gland seal	EPDM	10	Release pin	AISI201 or WCB steel
3	Knife	Steel AISI304	11	Protective plate	A3 steel
4	Guide	PTFE	12	Support plate	WCB carbon steel
5	Gland	Carbon steel WCB	14	Nut/Bolt	AISI201 steel
6, 13	Bolt	Steel AISI201	15	Pneumatic actuator	-
7-8	Nut/Bolt	Steel AISI201	16	Seat seal	Nitrile NBR



BASIC DIMENSIONS OF GATE VALVES



DN	PN	L	D	D1	D2	D0	N-Th	d	H	Bec кг	ISO 5210
50	10	48	165	125	99	80	4-M16	Ø18	455	9	F10
65	10	48	185	145	118	100	4-M16	Ø18	500	11	F10
80	10	51	200	160	132	100	8-M16	Ø18	530	14	F10
100	10	51	220	180	156	125	8-M16	Ø18	635	17.5	F10
125	10	57	250	210	184	125	8-M16	Ø18	715	21	F10
150	10	57	285	240	212	160	8-M20	Ø23	810	29	F10
200	10	70	340	295	266	160	8-M20	Ø23	955	41	F10
250	10	70	395	350	319	200	12-M20	Ø23	1090	62	F14
300	6	76	445	400	370	200	12-M20	Ø23	1225	75	F14



INSTALLATION AND OPERATION

1. Before installing the gate valve on the pipeline it is necessary to set up the actuator and gate valve for joint operation in accordance with the pneumatic actuator manufacturer's instructions:
 - check the mounting or mount the actuator with the gate valve. When mounting the gate valve with actuator in any position other than vertical, the actuator must have its own supports. Installation of the actuator under the gate valve is strictly not recommended;
 - set the limit switches and travel limiters for the “open” and “closed” positions. Perform several test opening-closing cycles of the gate valve by means of the handwheel. If the gate valve opens and closes normally when opened by the handwheel, connect the gate valve to the power supply and control networks and perform several test opening-closing cycles with the electric actuator.
2. Only after performing these operations, if the gate valve and actuator function normally, can the gate valve be installed on the pipeline:
 - Recommended position of the gate valve on the pipeline:
 - VERTICAL (handwheel or actuator upwards) on horizontal piping.
 - HORIZONTAL (with hand wheel or actuator to the side) on horizontal and vertical pipelines.
 - **IT IS NOT ALLOWED TO INSTALL THE GATE VALVE WITH HAND WHEEL OR ACTUATOR DOWNWARDS!**
3. During installation, gaskets must be installed between the flanges of the gate valve and the pipeline.
4. Bolts (for blind holes) and studs (for through holes) are used to mount the gate valve. **DO NOT** use 2 bolts connected by an extended nut instead of studs. Bolts and studs must be tightened evenly crosswise in several passes.
5. It is not allowed to mount the gate valve pre-mounted with flanges and then weld the flanges to the pipe.
6. During inspection check: the general condition of the gate valve and actuator, the threaded part of the spindle, which should be lubricated (recommended lubricant CYATIM-201), the condition of the bolted connections, tightness of the gasket joint and gland seals.



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.



