eko2500
PN 16 KNIFE GATE VALVE

DESIGN STANDARDS

- GSC-25 Cast Steel/GG 25 Cast Iron body
- Stainless Steel wedge (knife), capable of cutting through fibrous material
- Stainless Steel stem
- Lug type with internal threads
- EPDM sleeve
- Diameters from

  DN 50 to DN 300 are suitable for PN 16 flange connection

  DN 350 to DN 600 are suitable for PN 10 flange connection

  DN 350 to DN 600 are supplied with gearbox

  DN 50 to DN 300, powder epoxy coated

  DN 350 to DN 600 are painted with liquid epoxy

REMARKS & APPLICATIONS

- Pulp production
- Water, water treatment, waste water
- Chemical industry: powdery or crystallizing products
- Brewery industry: wine-producing
- Pulverized products: cement work, pneumatic transport, stocking
- Max. +130°C

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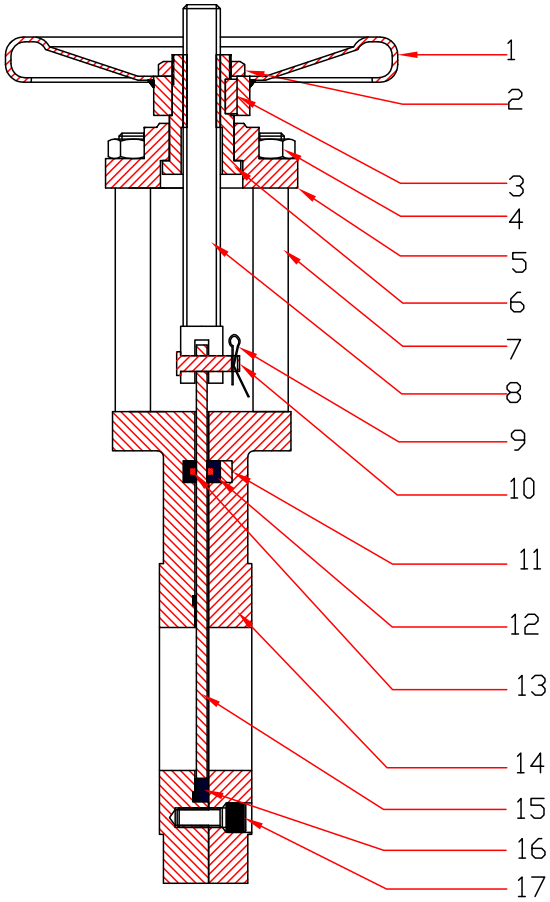
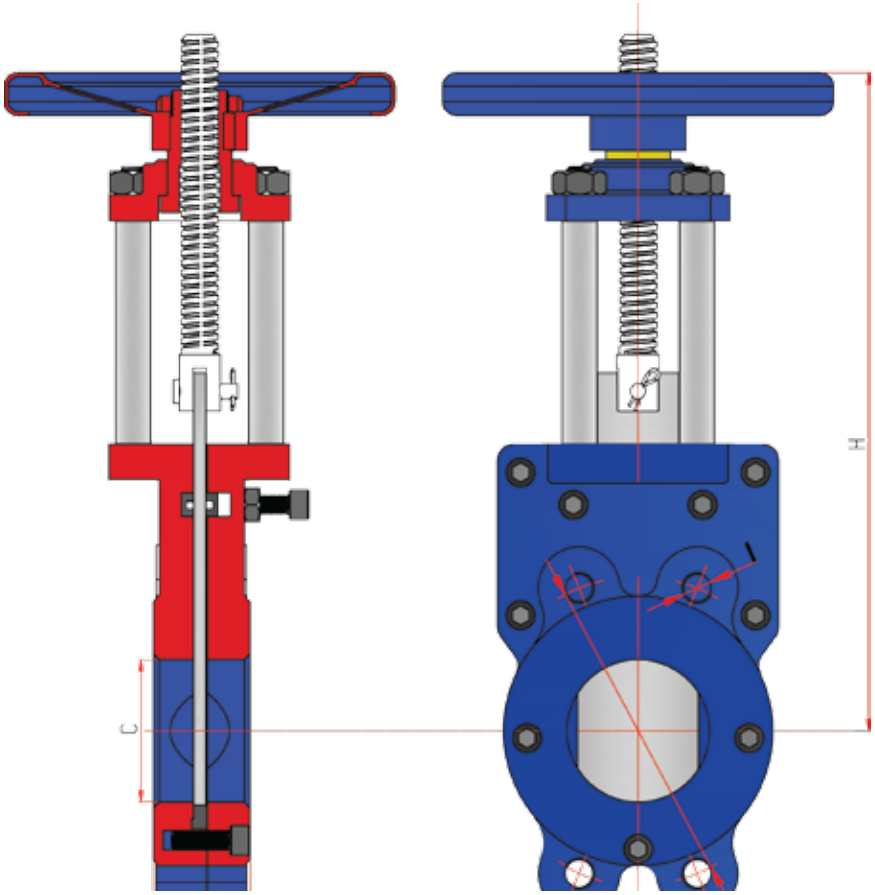
TECHNICAL DRAWING



PARTS AND MATERIALS

No.	Part Name	Material
1	Handwheel	ST-37
2	Nut	Steel 1050
3	Rod	Steel 1050
4	Nut (Rod)	Steel 1050
5	Top Flange	GG25 Cast Iron
6	Brass Nut	MS58
7	Stud	Steel 1050
8	Stem	SAE 420
9	Wire	-
10	Pin	SAE 304
11	Pressing Bar	SAE 304
12	Upper Gasket	EPDM
13	Packing	PTFE
14	Body	GSC-25 Cast Steel/GG 25 Cast Iron
15	Gate (Wedge)	SAE 304
16	Seat Gasket	EPDM
17	Bolt	DIN 912

DIMENSIONS AND PRODUCT DATA



DIMENSION TABLE

DN	H	B	C	D	I	Number of Holes	Weight (kg.)
50	250	43	44	125	M 16	4	7.5
65	295	46	61	145	M 16	4	9.5
80	340	46	74	160	M 16	8	13
100	375	52	97	180	M 16	8	16.5
125	395	56	116.5	210	M 16	8	19
150	455	62	139	240	M 20	8	25
200	580	66	195	295	M 20	12	34.5
250	670	71	235	355	M 24	12	61
300	795	78	297	410	M 24	12	79
350	1280	78	350	460	M20	16	143
400	1460	102	400	515	M24	16	203
450	1650	114	450	565	M24	20	320
500	1900	127	500	620	M24	20	346.5
600	2300	154	600	725	M27	20	454

GENERAL INSTRUCTIONS AND INSTALLATION

Handle valve with precaution
Take care of the coatings and protections. Do not drag the valves, avoid shocks and frictions which may cause starters of corrosion.

Store the equipment under good conditions
The valves must be protected from;
Humidity and rain to avoid corrosion;
Wind, sand: to avoid the penetration of sold particles whose presense is catastrophic for the tightness;
Sunshine and heat; they damage the coatings, particularly harmful for plastic valves and fittings very sensitive to the ultraviolet.

Valves with rubber seat must always be stored half-opened.
The aparatuses with metal seat must be stored closed (except particular specifications) to avoid the penetration of the particles in internal volumes.
Ball valves must be stored in open position.
Preserve the aparatuses with their plastic caps which should be taken away when mounting the valves.

Clean the pipes
Rinsing the pipes is essential (water, air, steam if compatible) before testing and starting of the installations. It is critical to eliminate all the particles and several objects which could remain in the pipes and especially welding residues which could definitively damage the valve seat.

Clean the gasket seat
Be sure that the gasket seats are perfectly clean and free from stripes.

Align pipings
Control piping alignment. For correcting bad alignments do not rely on the valves: this may cause leakage and operating defect or even of breaking.

Avoide Water Hammers
A rise in pressure of extreme brutality can be generated by a water hammer. A water hammer can cause the damage: butterfly valve disc splits, destroyed various aparatus, axes deformed. There are very varied causes of the water hammers but generally: the starting of pump and the sudden closing of valve.

Respect assembly direction
Certain valves are one-way (non-return valve, knife gate valves, etc.)
Take care of an assembly in conformity with the arrow direction or of the instructions of assembly.

Use support for heavy valves
In certain cases, valves of large lenght, heavy servo-motor, it can be essential to provide for supports which will avoid tensions prejudicial with the operating risking the fast deterioration of the stem and of the tightness.

Maintenance and control
- Control the valves yearly.
- Change the gaskets after each disassembling.
- Any maintanance action must be carried out when the installation is in the atmospheric pressure.
- Cut energy supply of the actuators.
- The valves are always delivered with the loosened packing gland. Before any use, tighten the gland gradually.
- After setting under pressure on line, check the leakage on the level of the packing and tighten if necessary.
- Be sure that the position indicator is visible.
- Assembly in specific end of line.
- Respect the recommended positions of assembly.
- Respect the disassembling direction.
- In the event of prolonged storage or of weak frequency of operation, lubricate the valve stem regularly.
- Take care of assembly of the protection tube of stem at the time of the first installation. The grease reserve of the stem is ensured in the protection tube, offering a regular greasing.
- When assembling of an electric motor on the valve, take care to lubricate the nut of the motor and the stem of the valve.