

KNIFE GATE VALVE METAL/METAL TIGHTNESS Ref. 176

Ref. : DS 176

Rev. : 2

Date : 09/09

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SPECIFICATIONS :

- . Opened or closed valve
- . Between flanges GN10
- . Unidirectional type (mounting sense)
- . **No tightness - loose factor : 2% of Kvs**
- . Weak head losse
- . Rising stem
- . On option with position indicator IP66

USE :

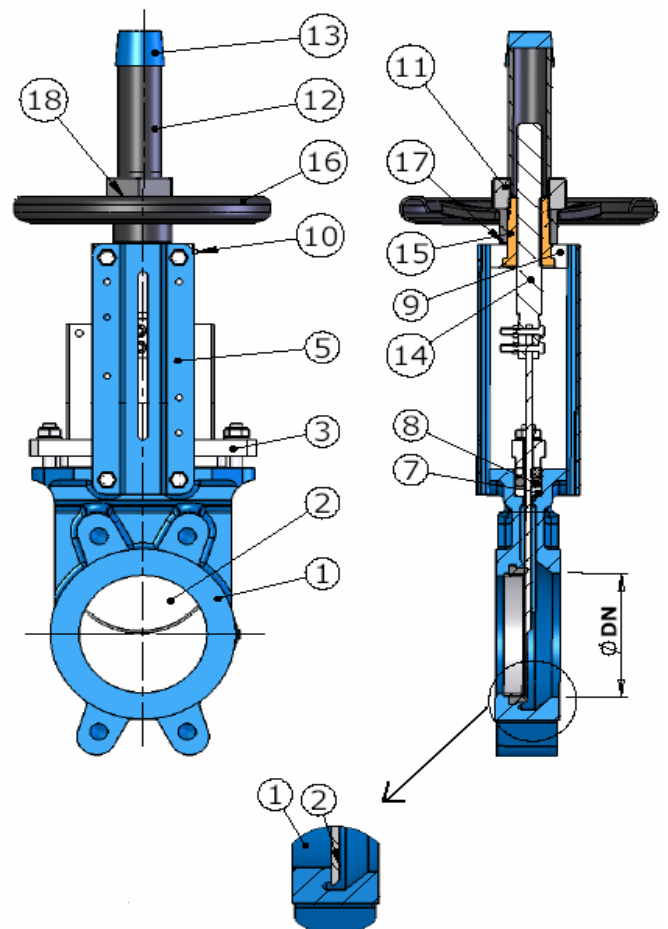
- . Water,water treatment,chemical industry,food industry,powders
- . Max Temperature Ts : 160°C
- . Max Pressure Ps (bar) : see dimensions
- . When using powder , please inverse assembly direction

RANGE :

- . Between flanges GN10 **Ref. 176** DN50 to DN300

MATERIALS :

Item	DESIGNATION	MATERIALS
1	Body	Cast Iron EN GJL-250
2	Knife	SS 304
3	Packing gland	Aluminium
5	Support	Steel
7	Packing	PTFE
8	O ring	NBR
9	Yoke	Steel
10	Oil hole	Steel
11	Fixing screw	Steel
12	Hood	Steel
13	Hood cover	Plastic
14	Spindle	SS 303
15	Stem nut	Bronze
16	Handwheel	Steel
17	Washer	Brass
18	Fixing screw	SS 304



Option with position indicator :



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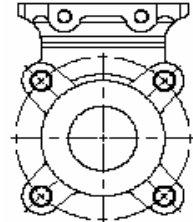
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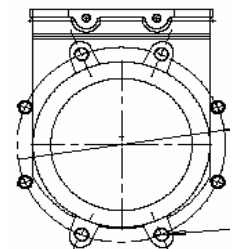
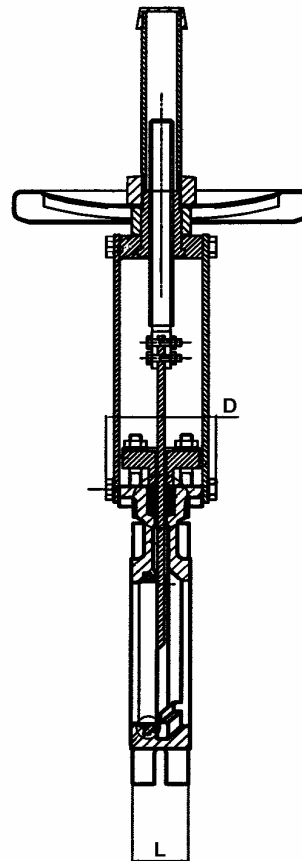
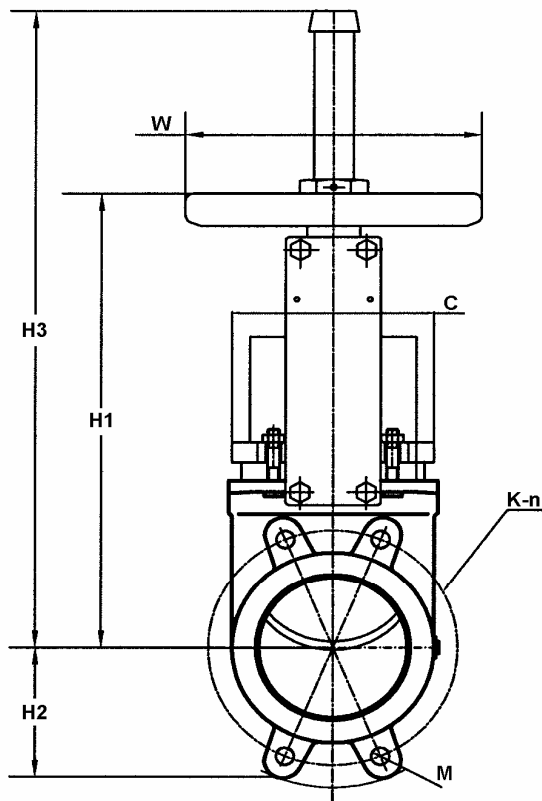
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SIZE:

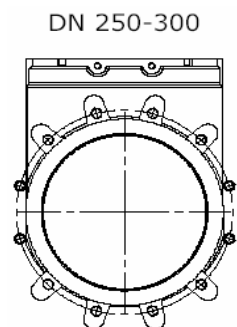
DN	50	65	80	100	125	150	200	250	300
H1	289	316	342	382	415	458	575	676	776
H2	63	70	92	105	120	130	160	198	234
H3	410	440	460	500	585	637	815	1016	1116
C	124	139	154	174	192	217	270	326	380
D	92	92	92	92	102	102	120	120	120
L	40	40	50	50	50	60	60	70	70
W	190	190	190	190	225	225	325	325	325
K	125	145	160	180	210	240	295	350	400
A	8	8	10	10	10	12	12	14	14
M	M16	M16	M16	M16	M16	M20	M20	M20	M20
Weig.	6,5	7,3	8,4	9,9	12,8	15,7	26,9	42,1	55,2
Ps	10	10	10	10	10	10	10	8	6



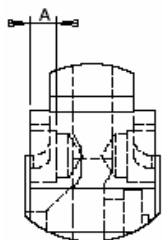
DN 50-65



DN 80-200



DN 250-300



Threading length for top holes

STANDARDS :

. DIRECTIVE 97/23/CE : Conform

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

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INSTALLATION INSTRUCTIONS :

Use

- To bring into service the installation after this one was controlled.
- For temperatures higher than 60° not to touch the body of the equipment under pressure and to provide a protection.
- To use adapted flanges.

Maintenance and control

- Control the valves annually.
- Change the joints after each disassembling.
- Any maintenance action must be carried out when the installation is in the atmospheric pressure.
- Cut energy supply of the actuators.

Clean pipings

- Before the tests and the starting of the installations, carry out the abundant rinsing of piping (water, air, steam if compatible).
- It is essential to eliminate all the particles and various objects which could remain in pipes and particularly welding residues which could definitively damages the valve seat .

Clean the gasket seat

- Before assembly, take care that the gasket seats are perfectly clean, free from stripes prejudicial with good sealing.

Align pipings

- Check piping alignment.
- Do not rely on the valves to recover bad alignments : you risk the creation of leakage, and operating defect or even of rupture.

To avoid the «water hammers»

- A water hammer can generate a rise in pressure of extreme brutality.
- The damage caused by a water hammer is considerable: butterfly valve disc splits, axes deformed, destroyed various apparatuses.
- The causes of the water hammers are very varied but generally: the starting of pump and the brutal closing of valve.
- Attention, when starting the installation or testing, take all the necessary precautions, **slow down** motorized valves.

Handle the valves with precaution

- Sling valves by the body.
- Do not hang at the hand wheel or the servomotor.
- Attention with the shocks.

**Valves are delivered with loosened packing gland
Please screw it during setting**

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Respect assembly direction

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

To respect the tightening torques

- It is prejudicial applying higher tightening torque than the tightness' need.
- This can create markings on the seat and premature wears particularly for the rubber seat (diaphragm valves).
- Attention, when starting the installation or testing, take all the necessary precautions, **slow down** motorized valves.

To handle valve with precaution

- Take care of the coatings and protections.
- To avoid the shocks and frictions which, by destroying the coatings, create starters of corrosion.

Store the equipment under good conditions

- The valves must be stored against:
 - . humidity and rain to avoid corrosion;
 - . wind, sand: to avoid the penetration of solid particles whose presence 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 apparatuses 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 apparatuses with their plastic caps which should be taken away when mounting the valves.

Specific instructions

Knife gate valve

- After setting under pressure of the circuit, 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: see the recommendations in our catalogue.
- Respect the recommended positions of assembly.
- Respect the disassembling direction: see the recommendations in our catalogue.

