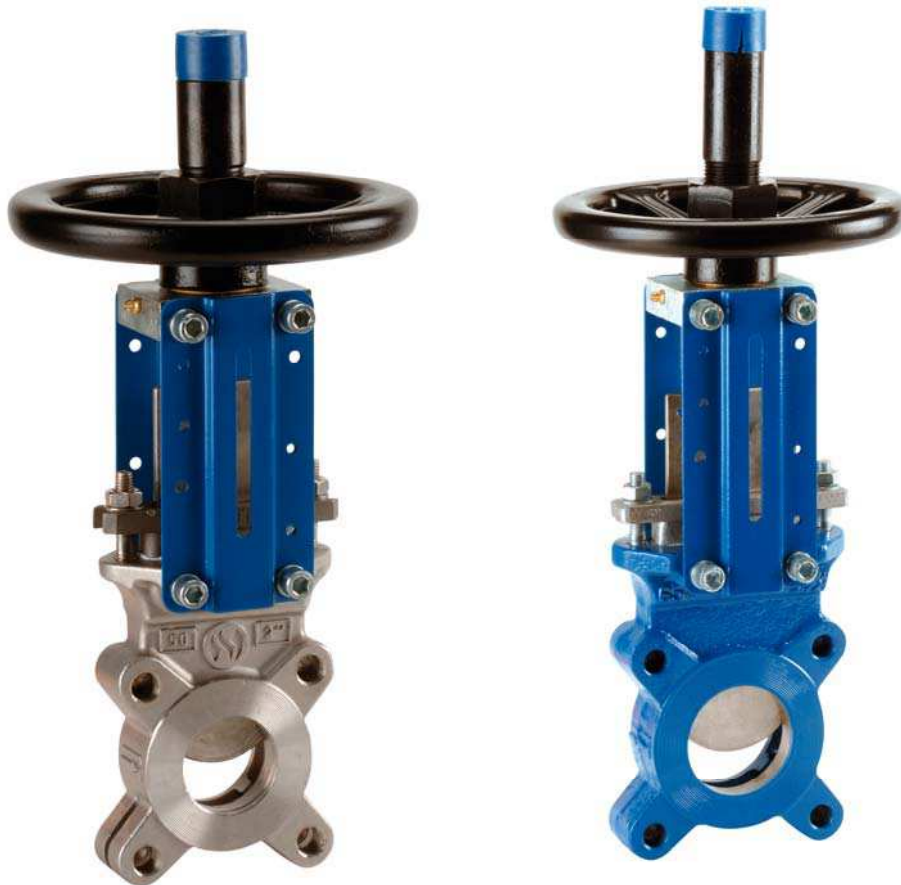


KNIFE GATE VALVE PN10



Size : DN 50 to DN 800
Ends : Between flanges ISO PN10
Min Temperature : -10°C for NBR seat (-15°C for EPDM)
Max Temperature : + 90°C for NBR seat (+ 110°C for EPDM)
Max Pressure : 10 Bars up to DN 200
Specifications : Rising rotating stem , non rising handwheel
Unidirectional tightness
Weak head loss

Materials : Cast iron or Stainless steel

KNIFE GATE VALVE PN10

SPECIFICATIONS :

- Opened or closed valve
- Rising rotating stem, non rising handwheel
- Unidirectional tightness (Respect the flow direction indicated by the arrow)
- Weak head loss
- Between flanges ISO PN10
- Full crossing threaded lower holes and blind threaded top holes
- With handwheel
- With lever or chain handwheel (option)
- Possible with bipolar sensor O + C , voltage AC 15-240V 3A, IP66 type XCK M115C
- Deflector (option)
- 50% epoxy 50% polyester painting blue colour RAL 5005
- Other seats on request (FKM, PTFE, SILICONE ...)

USE :

- Water, water treatment, chemical pulp, powders, food industry, chemistry
- Min and max Temperature Ts : - 10°C to + 90°C for cast iron body with NBR seat
- Min and max Temperature Ts : - 15°C to + 110°C for cast iron body with EPDM seat
- Min and max Temperature Ts : - 15°C to + 110°C for stainless steel body with EPDM seat
- Min and max Temperature Ts : - 15°C to + 110°C with **WHITE EPDM** seat(on request)
- Min and max Temperature Ts : - 10°C to + 180°C with **FKM** seat(on request)
- Min and max Temperature Ts : + 0°C to + 180°C with **PTFE** seat (on request)
- Min and max Temperature Ts : - 20°C to + 200°C with **SILICONE** seat (on request)
- When using powders, inverse flow direction

MAX PRESSURE :

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700-800
Ps (Bars)	10	10	10	10	10	10	10	8	6	4	4	3	3	3	2

MIN AND MAX SEAT TEMPERATURES WITH REFERENCES :

SEAT	TEMPERATURE
NBR	-10°C à +90°C
EPDM	-15°C à +110°C
WHITE EPDM	-15°C à +110°C
FKM	-10°C à +180°C
PTFE	+0°C à +180°C
SILICONE	-20°C à +200°C

SEAT	TEMPERATURE
NBR	-10°C à +90°C
EPDM	-15°C à +110°C
WHITE EPDM	-15°C à +110°C
FKM	-10°C à +180°C
PTFE	+0°C à +180°C
SILICONE	-20°C à +200°C

KNIFE GATE VALVE PN10

RANGE AND ACCESSORIES :



- Between flanges ISO PN10 cast iron body, SS 304 gate , NBR seat, with handwheel
- Between flanges ISO PN10 cast iron body, SS 304 gate, EPDM seat, with handwheel



- Between flanges ISO PN10 , CF8M body, SS 316 gate , EPDM seat, with handwheel



- Between flanges ISO PN10 cast iron body, SS 304 gate , NBR seat, with handwheel and sensor



- Bipolar sensors O + C kit



- Sensor (alone)



- Chain handwheel



- Chain (per meter)

KNIFE GATE VALVE PN10

RANGE AND ACCESSORIES (SUITE) :



- Lever



- SS ASTM A351 CF8M Deflector



- SS ASTM A351 CF8M Deflector kit (with flange gasket)



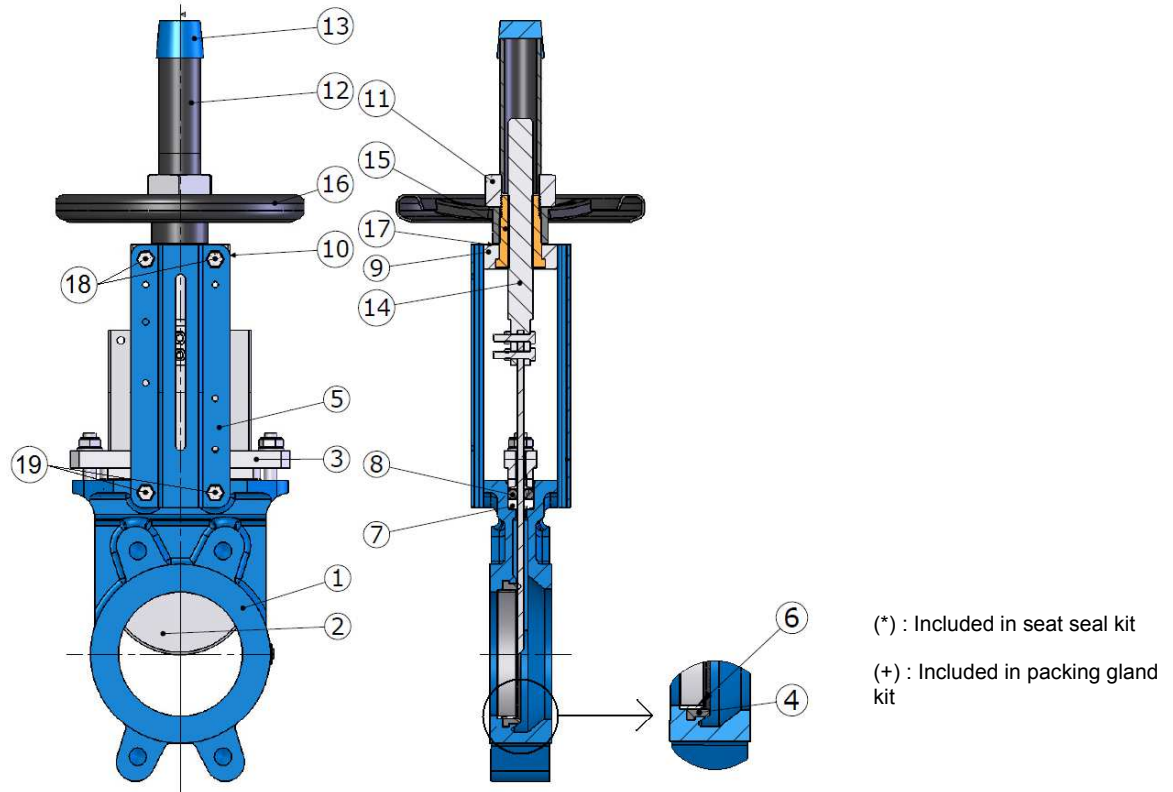
- Stainless steel support with bolting



- Square lever

KNIFE GATE VALVE PN10

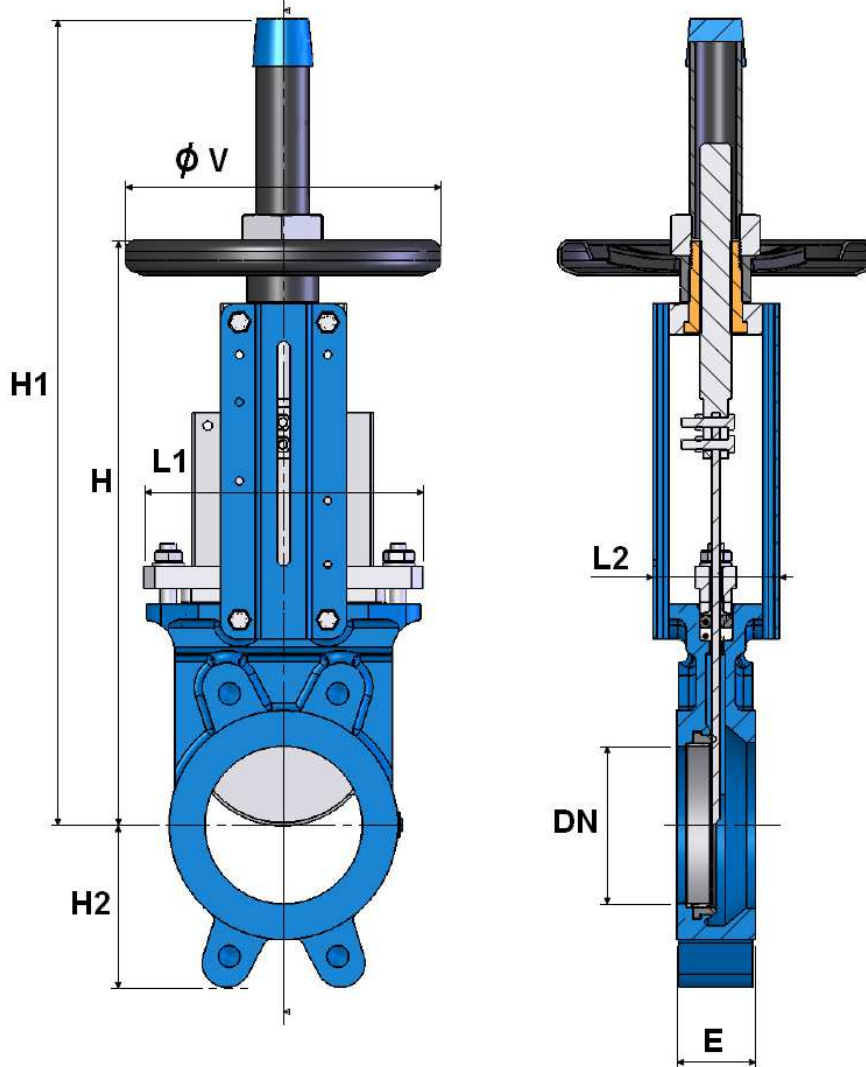
MATERIALS WITH HANDWHEEL



Item	Designation	Materials	Materials	Materials
1	Body	Cast iron EN GJL-250	Cast iron EN GJL-250	ASTM A351 CF8M
2	Gate	SS 304	SS 304	SS 316
3	Packing gland nut DN50 – DN 200	Aluminium	Aluminium	ASTM A351 CF8M
3	Packing gland nut DN 250 – 700	Ductile iron EN GJS-400-15	Ductile iron EN GJS-400-15	ASTM A351 CF8M
4(*)	Seat	NBR	EPDM	EPDM
5	Support	Painted steel	Painted steel	Painted steel
6(*)	Retainer	SS 304	SS 304	SS 316
7(+)	Packing (Tress)	PTFE	PTFE	PTFE
8(+)	Packing (O ring)	NBR	EPDM	EPDM
9	Yoke	Steel	Steel	Steel
10	Greaser	Brass	Brass	Brass
11	Fixing screw	Steel	Steel	Steel
12	Hood	Steel	Steel	Steel
13	Hood cover	Plastic	Plastic	Plastic
14	Spindle	SS 303	SS 303	SS 303
15	Stem nut	Bronze	Bronze	Bronze
16	Handwheel	Steel	Steel	Steel
17	Washer	Brass	Brass	Brass
18	Upper screw	Steel	Steel	Steel
19	Lower screw	Steel	Steel	Stainless steel

KNIFE GATE VALVE PN10

SIZE WITH HANDWHEEL

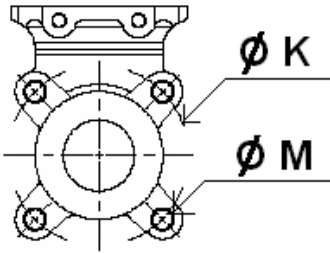


DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
E	40	40	50	50	50	60	60	70	70	96	100	106	110	110	110	110
H	289	316	342	382	415	458	575	676	776	906	1012	1098	1210	1416	1611	1870
H1	409	436	462	502	585	637	815	1016	1116	1336	1442	1628	1740	2046	2461	2820
H2	63	70	92	105	120	130	160	198	234	256	292	308	340	400	452	505
L1	124	139	154	174	192	217	270	326	380	438	493	546	620	714	830	970
L2	92	92	92	92	102	102	119	119	119	290	290	290	290	290	320	320
Ø V	200	200	200	200	250	250	300	300	300	500	500	500	500	500	800	800
Weig. Ref. (Kg)	6.53	7.1	8.53	9.8	12.7	16.16	26.8	43.5	57.5	108	132	170	210	298	446	524
Weig. Ref. (Kg)	6.52	7.81	8.48	10.06	12.7	15.8	27.8	44.6	58.6	110	150	170	210	298	-	-

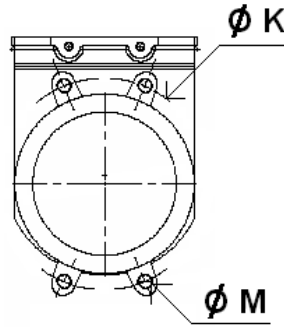
KNIFE GATE VALVE PN10

SIZE FIXING VALVE THREADED HOLES (BETWEEN FLANGES ISO PN10 in mm) :

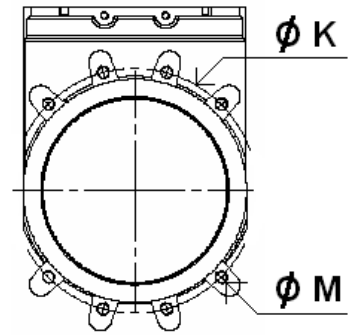
DN 50 – 65



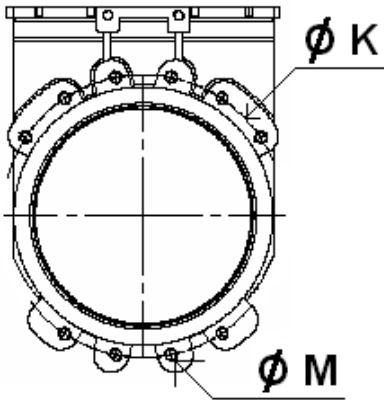
DN 80 – 200



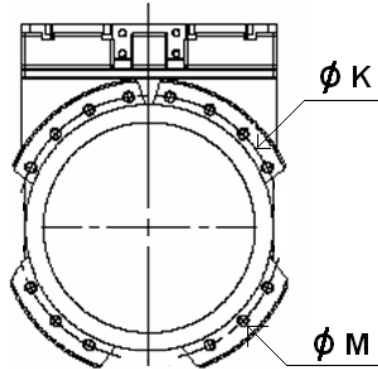
DN 250 - 300



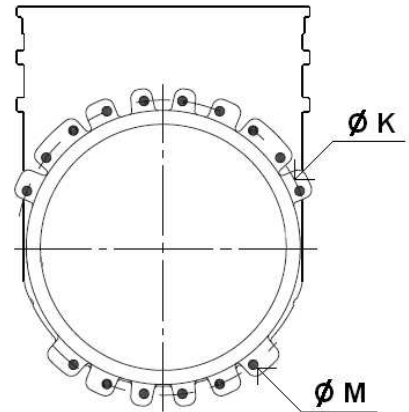
DN 350 – 400



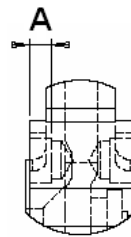
DN 450 – 600



DN 700-800



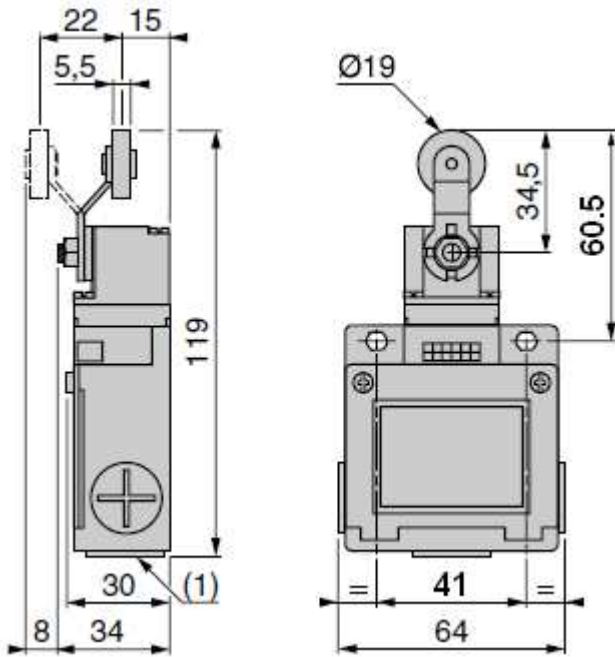
THREADED LENGHT FOR TOP BLIND HOLES :



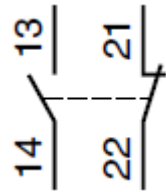
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
Ø K	125	145	160	180	210	240	295	350	400	460	515	565	620	725	840	950
Ø M	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M24	M24	M24	M27	M27	M30
Nb threaded hole	4	4	4	4	4	4	4	8	8	10	10	14	14	14	16	16
A	8	8	10	10	10	12	12	15	15	19	20	24	24	22	22	20

KNIFE GATE VALVE PN10

SENSOR SIZE (in mm) AND SCHEMA :



Bipolar sensor O + C
 (XE2S P2151)



STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : Risk category I Module A
- Test according to ISO 5208, Range A
- Between flanges ISO PN10 according to EN 1092-2 PN10

KNIFE GATE VALVE PN10

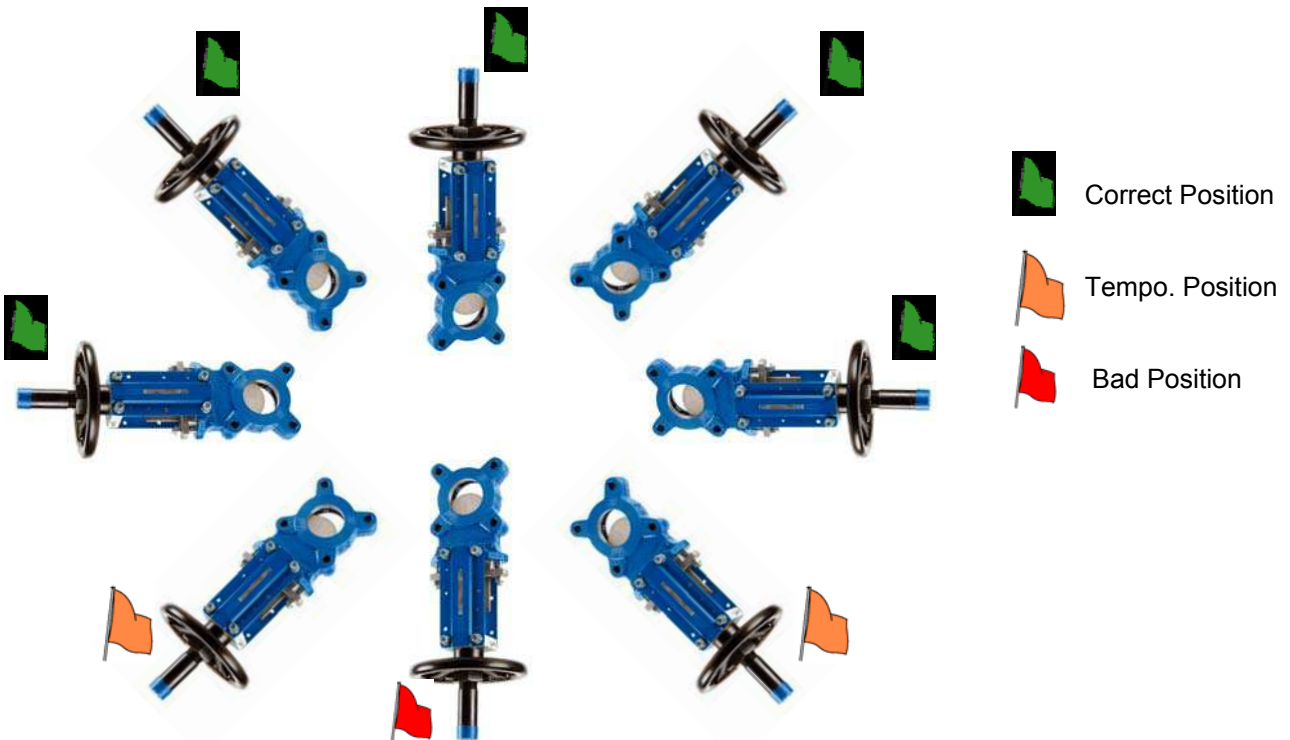
INSTALLATION INSTRUCTIONS :

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

INSTALLATION INSTRUCTIONS :

- **Before installing the valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned** (if they're not, the valves may not work correctly).
- **Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the valve and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- During installation operation, do not carry the valves by the handwheel.
- Valves can be installed in all positions but we recommend the above positions :



KNIFE GATE VALVE PN10

INSTALLATION INSTRUCTIONS (SUITE) :

- If the valve is installed at the end of the pipe, it must be between 2 flanges.
- The knife gate valves are unidirectional, respect the flow direction indicated on the body by the arrow. When using powders, inverse flow direction
- Tighten the bolts in cross. For blind holes, use studs to have a good tightening and tighten them carefully so that they don't touch the gate.
- During cleaning operation, the valves must be opened.
- Tests must be done with cleaned installation and pipe.
- Test must be done with partially opened valve. Test pressure must not exceed valve specification according to ISO 5208.
- Open carefully the valve.
- Tighten the gland packing at the first start of the installation (with a moderate torque) so that there's no leakage and the handwheel is easy to operate. Make sure there's no contact between the gate and the gland.
- Keep greased the stem.
- It's recommended to operate the valve (open and close) 1 time per month