

KNIFE GATE VALVES

S76.2 FIG 170 , 172

Application

- Water, water treatment, chemical pulp, powders, food industry, chemistry
- When using powders, inverse flow direction

DN 50-700
PN 10

Working temperature

- Min. temperature: -10°C for cast iron type (-15°C for S.S.)
- Max. temperature: + 80°C for cast iron type (+ 110°C for S.S.)

Technical description

- Opened or closed valve
- Rising rotating stem, non rising handwheel
- Unidirectional tightness (Respect the flow direction indicated by the arrow)
- Weak head loss
- Full crossing threaded lower holes and blind threaded top holes
- 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 5017

Connection to piping

- between flanges

Operation

- Handwheel
- Chin handwheel
- Lever

Range

- Between flanges GN10 cast iron body, SS 304 gate, NBR seat, with handwheel **Ref. 170** from DN 50 to DN 700
- Between flanges GN10 SS CF8M body, SS 316 gate, EPDM seat, with handwheel **Ref. 172** from DN 50 to DN 400
- With chain handwheel (**Ref. 980179**) from DN 50 to DN 600
- Option with deflector (**Ref. 98018**)
- Option with bipolar sensors O + C (**Ref. 980135**) from DN 50 to DN 700

Max. pressure

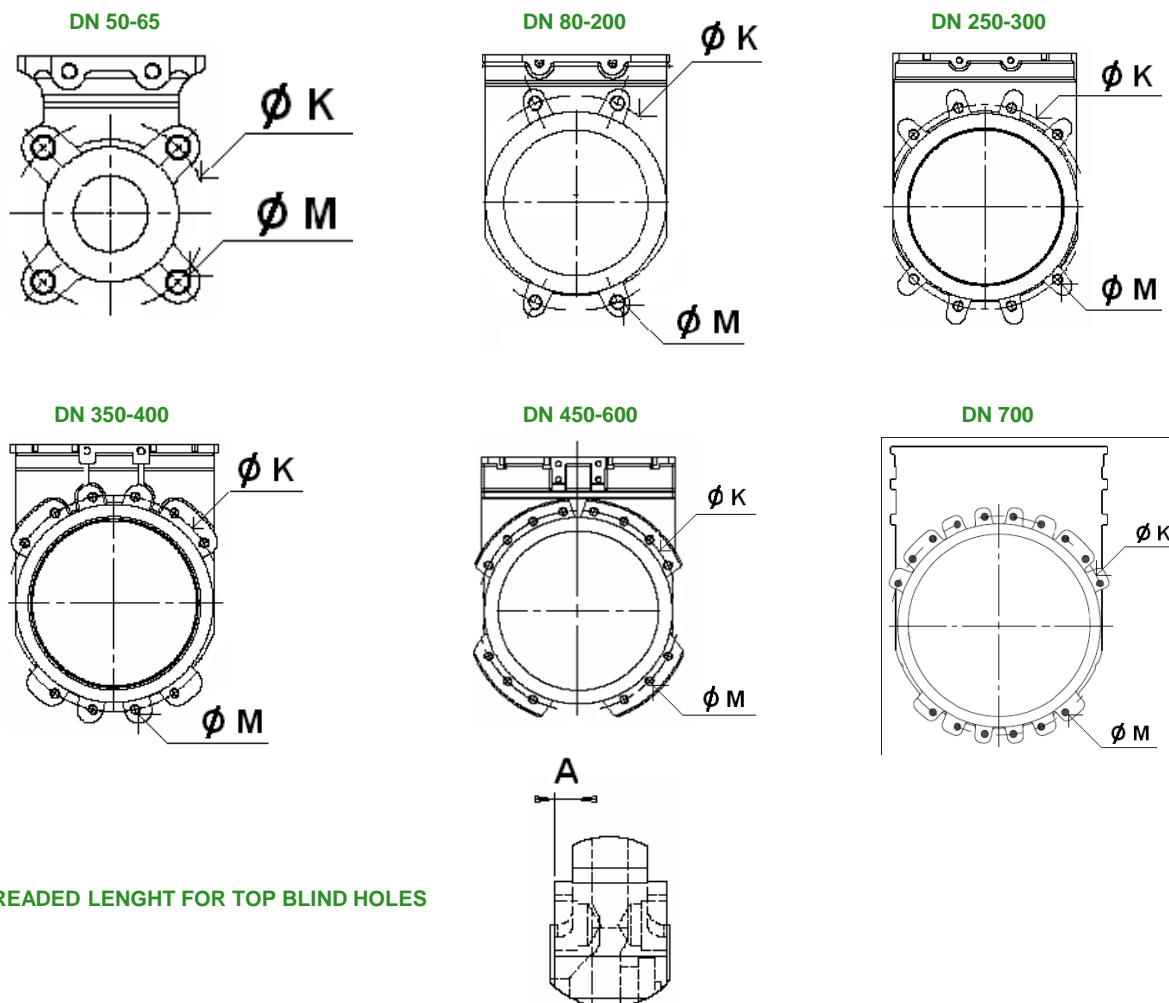


DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
Pa (bar)	10	10	10	10	10	10	10	8	4	4	4	3	3	3	2

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S76.2 FIG 170 , 172

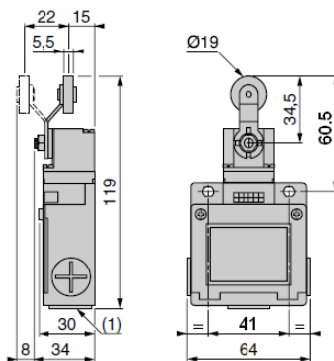
SIZE FIXING VALVE THREADED HOLES (BETWEEN FLANGES GN10 in mm):



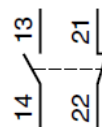
THREADED LENGHT FOR TOP BLIND HOLES

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
Ø K	125	145	160	180	210	240	295	350	400	460	515	565	620	725	840
Ø M	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M24	M24	M24	M27	M27
Nb threaded hole	4	4	4	4	4	4	4	8	8	10	10	14	14	14	16
A	8	8	9	9	9	10	10	12	12	20	20	22	22	22	22

SENSOR SIZE (in mm) AND SCHEMA



Bipolar sensor O + C
(XE2S P2151)

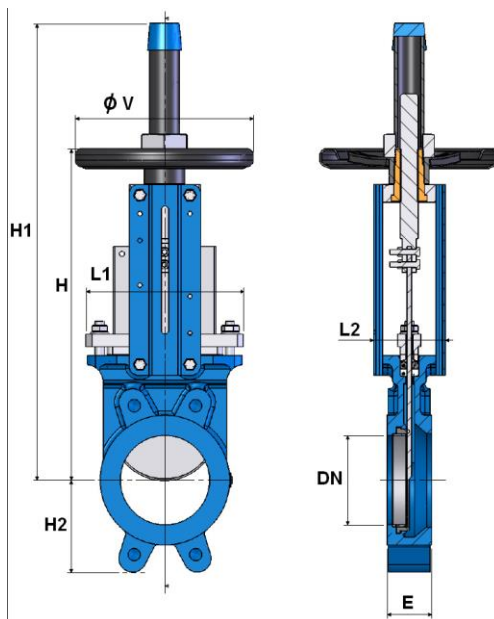
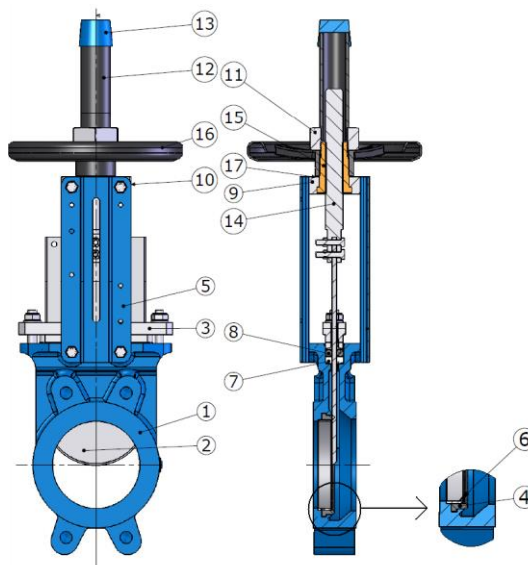


KNIFE GATE VALVES

S76.2 FIG 170 , 172

Materials with handwheel

Position	Component	Material Ref. 170	Material Ref. 172
1	Body	Cast iron EN GJL-250	ASTM A351 CF8M
2	Gate	SS 304	SS 316
3	Packing gland nut DN50 – DN 200	Aluminium	ASTM A351 CF8M
3	Packing gland nut DN 250 – 700	Cast iron EN GJL-250	ASTM A351 CF8M
4(*)	Seat	NBR	EPDM
5	Support	Painted steel	Painted steel
6(*)	Retainer	SS 304	SS 316
7(+)	Packing (Tress)	PTFE	PTFE
8(+)	Packing (O ring)	NBR	EPDM
9	Yoke	Steel	Steel
10	Oil hole	Steel	Steel
11	Fixing screw	Steel	Steel
12	Hood	Steel	Steel
13	Hood cover	Plastic	Plastic
14	Spindle	SS 303	SS 303
15	Stem nut	Bronze	Bronze
16	Handwheel	Steel	Steel
17	Washer	Brass	Brass



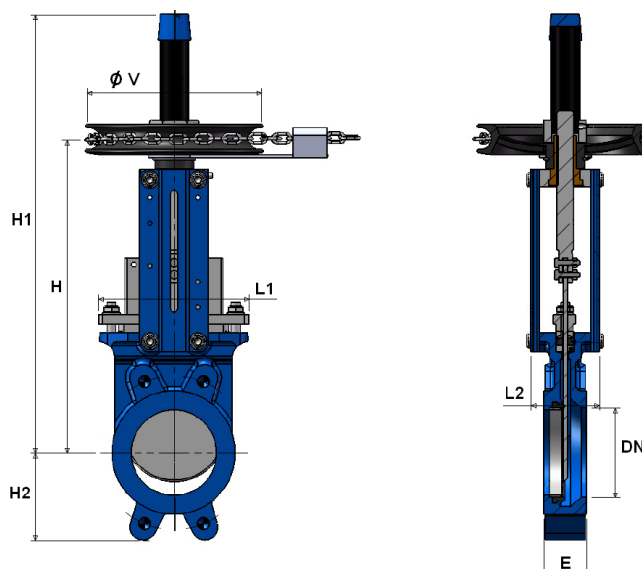
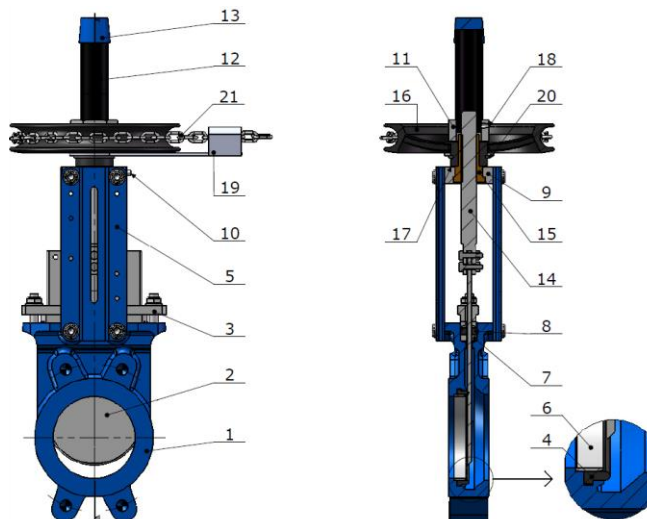
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
E	40	40	50	50	50	60	60	70	70	96	100	106	110	110	110
H	289	316	342	382	415	458	575	676	776	906	1012	1098	1210	1416	1611
H1	409	436	462	502	585	637	815	1016	1116	1336	1442	1628	1740	2046	2461
H2	63	70	92	105	120	130	160	198	234	256	292	308	340	400	452
L1	124	139	154	174	192	217	270	326	380	438	493	546	620	714	830
L2	92	92	92	92	102	102	119	119	119	290	290	290	290	290	320
Ø V	185	185	185	185	225	225	325	325	380	450	450	450	450	450	620
Weig. Ref.170 (Kg)	6,53	7,1	8,53	9,8	12,7	16,16	26,7	43,5	57,5	108	132	170	210	298	446
Weig. Ref.172 (Kg)	6,52	7,81	8,48	10,6	12,7	15,8	27,8	44,6	58,6	110	150	-	-	-	-

KNIFE GATE VALVES

S76.2 FIG 170 , 172

Materials with chain handwheel

Position	Component	Material Ref. 170 + 980179	Material Ref. 172 + 980179
1	Body	Cast iron EN GJL-250	ASTM A351 CF8M
2	Gate	SS 304	SS 316
3	Packing gland nut DN50 – DN 200	Aluminium	ASTM A351 CF8M
3	Packing gland nut DN 250 – 600	Cast iron EN GJL-250	ASTM A351 CF8M
4(*)	Seat	NBR	EPDM
5	Support	Painted steel	Painted steel
6(*)	Retainer	SS 304	SS 316
7(+)	Packing (Tress)	PTFE	PTFE
8(+)	Packing (O ring)	NBR	EPDM
9	Yoke	Steel	Steel
10	Oil hole	Steel	Steel
11	Fixing screw	Steel	Steel
12	Hood	Steel	Steel
13	Hood cover	Plastic	Plastic
14	Spindle	SS 303	SS 303
15	Stem nut	Bronze	Bronze
16	Handwheel	Steel	Steel
17	Washer	Brass	Brass
18	Fixing screw	SS 304	SS 304
19	Chain guide	Cast iron	Cast iron
20	Washer	Brass	Brass
21	Chain	Steel or stainless steel	Steel or stainless steel



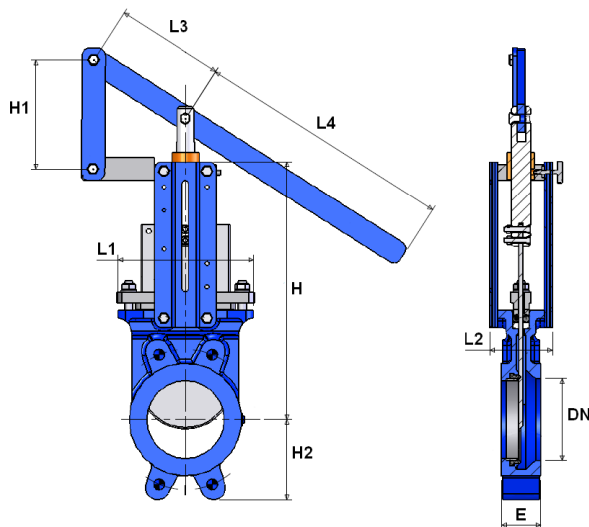
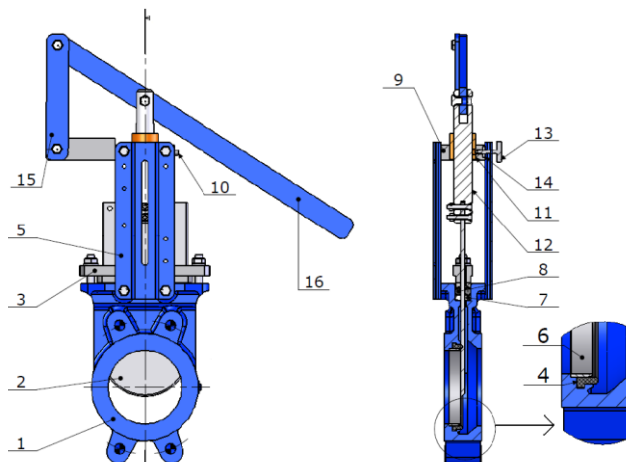
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
E	40	40	50	50	50	60	60	70	70	96	100	106	110	110	110
H	289	316	342	382	415	458	575	676	776	906	1012	1098	1210	1416	1611
H1	409	436	462	502	585	637	815	1016	1116	1336	1442	1628	1740	2046	2461
H2	63	70	92	105	120	130	160	198	234	256	292	308	340	400	452
L1	124	139	154	174	192	217	270	326	380	438	493	546	620	714	830
L2	92	92	92	92	102	102	119	119	119	290	290	290	290	290	320
Ø V	185	185	185	185	225	225	325	325	380	450	450	450	450	450	620
Weig. Ref.170 (Kg)	6,53	7,1	8,53	9,8	12,7	16,16	26,7	43,5	57,5	108	132	170	210	298	446
Weig. Ref.172 (Kg)	6,52	7,81	8,48	10,6	12,7	15,8	27,8	44,6	58,6	110	150	-	-	-	-

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Materials with lever

Position	Component	Material Ref. 170 + 980179	Material Ref. 172 + 980179
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2	Gate	SS 304	SS 316
3	Packing gland nut DN50 – DN 200	Aluminium	ASTM A351 CF8M
3	Packing gland nut DN 250 – 300	Cast iron EN GJL- 250	ASTM A351 CF8M
4(*)	Seat	NBR	EPDM
5	Support	Painted steel	Painted steel
6(*)	Retainer	SS 304	SS 316
7(+)	Packing (Tress)	PTFE	PTFE
8(+)	Packing (O ring)	NBR	EPDM
9	Yoke	Steel	Steel
10	Oil hole	Steel	Steel
11	Stem nut	Bronze	Bronze
12	Spindle	SS 303	SS 303
13	Fixing screw	Steel	Steel
14	Wedge	Steel	Steel
15	Link	Steel	Steel
16	Lever	Steel	Steel



DN	50	65	80	100	125	150	200	250	300
E	40	40	50	50	50	60	60	70	70
H	240	265	290	335	373	424	533	625	732
H1	125	125	125	125	170	170	190	285	285
H2	63	70	92	105	120	130	160	198	234
L1	124	139	154	174	189	220	275	326	380
L2	83	83	83	83	93	93	108	108	108
L3	140	140	140	140	140	140	230	230	230
L4	340	340	340	340	440	440	640	680	680
Weig. Ref.170 or 172 + 980178 (Kg)	8,9	9,81	11	13,3	16	18,9	32,9	53,6	67,3

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