



DAVINCI TECHNICAL DATA GUIDE

KNIFE GATE VALVE

BIDIRECTIONAL WITH 2 BODIES

Ref. 157A-SC



Range
DN50-2000

Approvals/Standards

Design: MSS SP-81
Flange standards: DIN PN10/PN16, 150LB, JIS10K TABLE E/D
Face to face: MSS SP-81
Testing standard: API-598

Application

Applicable for coal in power plant, slag discharge, sewage treatment, food, paper making, medicine, petroleum and chemical industry, water, Oil, steam, connecting or cutting grout, gold powder, ores, slag, coal, pulp, wood pulp, tailings, fibers, dust, chemicals, sewage treatment, sedimentation tanks, asphalt, bunker export, cereals, slaughter plant waste and other media.





GENERAL CHARACTERISTICS

Bidirectional seal
 2 Pieces body design
 Full bore design
 Fluid without retention in valve body
 2 Pieces strong yoke design
 High variety of materials available.

WORKING CONDITIONS

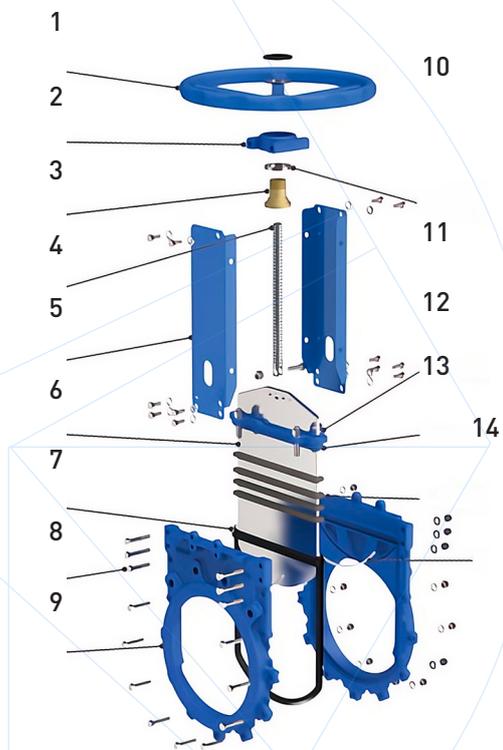
Pressure ratings:
 DN50-DN200: 16 bar
 DN250-DN600: 10 bar
 DN650-DN700: 8 bar
 DN750-DN1000: 6 bar
 Working temperature: Acc. to materials selected.

PRODUCT DESCRIPTION

157A Series No groove bi-directional seal knife gate valve, cast iron body with the overall structure knife gate valve, including valve' body, gate, and U-shaped flexible seal at the bottom of the body with grooves. When the valve is closed, the bottom of the gate edge contact with the seal and then compress the seal into the groove in the body and sealed gate realization; when the gate opens, separate gate from the bottom edge of the seal, seal will bounce to same level as groove, which will prevent the media sediment accumulated in the body cavity of the groove, no clogging, no residue, pipe easy to clean, so as to effectively improve the sealing effect knife gate valve to prevent leakage when the valve is closed.

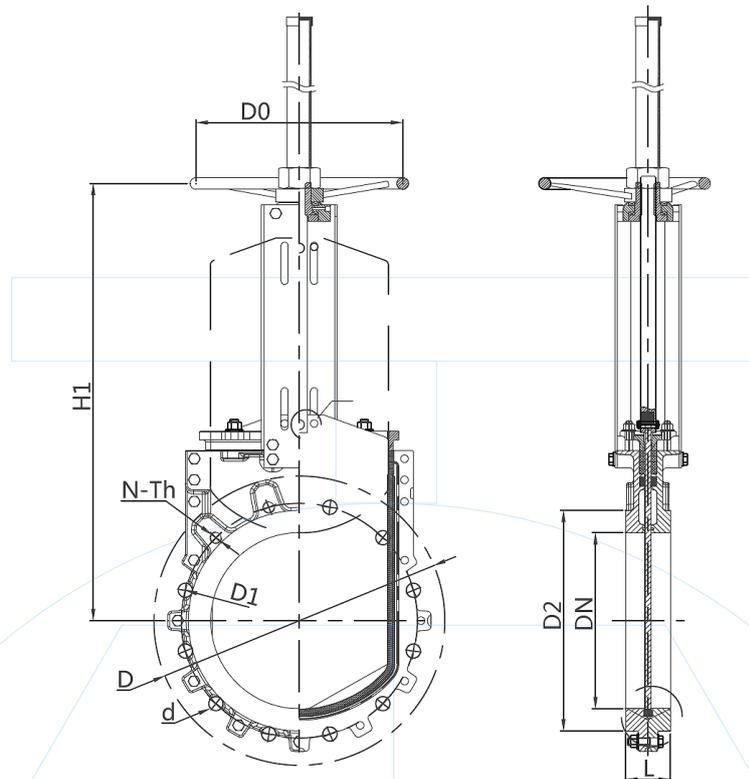
Nº	ITEM	MATERIAL
1	Handwheel	GJS400-15
2	Yoke flange	GJS400-15
3	Stem nut	Brass
4	Stem	AISI420 / AISI304 / AISI316
5	Yoke	Q235
6	Gate knife	AISI304 / AISI316L
7	Seat / Body sealing	EPDM / NBR / FKM
8	Bolts	Fe+Zn / AISI304
9	Body	WCB / CF3M / CF8M / CF8 / GJS400-15
10	Bearing	ZChSnSb10-6
11	Bolts	Fe+Zn / AISI304
12	Packing gland	WCB / CF8
13	Packing	PTFE + EPDM
14	Body	WCB / CF3M / CF8M / CF8 / GJS400-15
	RAL 5015 Painting	Epoxy 250 µm

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

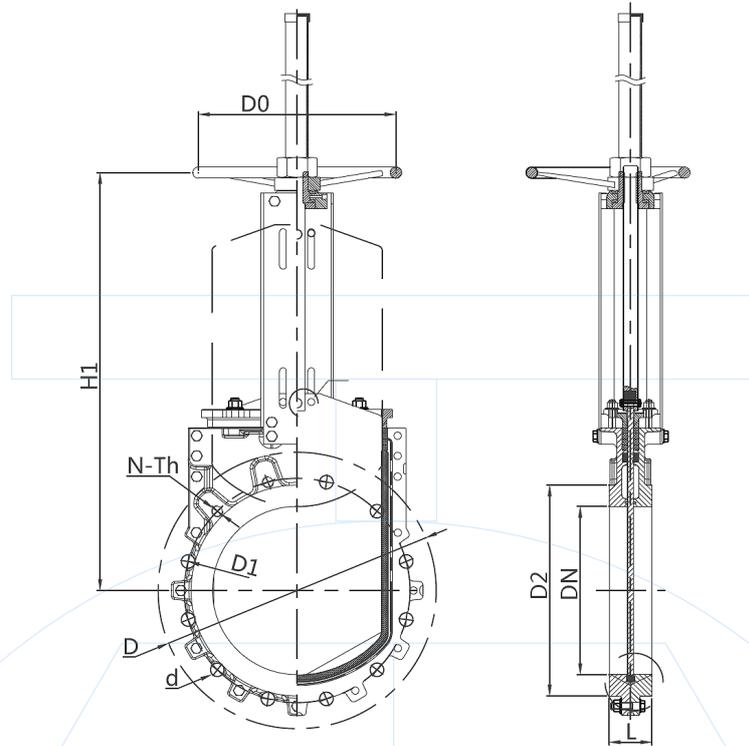


OPERATION OPTIONS

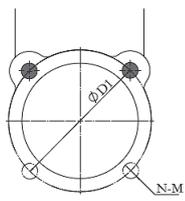
- Handwheel.
- Electric actuator.
- Pneumatic actuator.
- Hydraulic actuator.
- Sprocket actuator.
- Electro-hydraulic actuator.
- Gearbox.

**PN10**

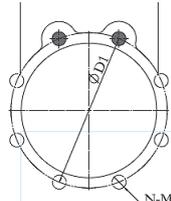
DN	L	D	D1	D2	D0	N-Th	d(φ)	H1
50	48	165	125	99	180	4-M16	18	265
65	48	185	145	118	200	4-M16	18	290
80	51	200	160	132	200	8-M16	18	330
100	51	220	180	156	240	8-M16	18	360
125	57	250	210	184	260	8-M16	18	400
150	57	285	240	211	280	8-M20	23	450
200	70	340	295	266	300	8-M20	23	530
250	70	395	350	319	320	12-M20	23	595
300	76	445	400	370	350	12-M20	23	660
350	76	505	460	429	400	16-M20	23	760
400	89	565	515	480	450	16-M24	27	850
450	89	615	565	530	500	20-M24	27	940
500	114	670	620	582	500	20-M24	27	1050
550	114	725	680	628		20-M27	30	Gear
600	114	780	725	682		20-M27	30	Gear
700	127	895	840	794		24-M27	30	Gear
800	127	1015	950	901		24-M30	30	Gear
900	127	1115	1050	1001		28-M30	30	Gear
1000	149	1230	1160	1112		28-M33	30	Gear
1100	149	1340	1260	1220		28-M33	30	Gear
1200	156	1455	1380	1328		32-M36	30	Gear
1350	171	1630	1540	1480		36-M39	30	Gear
1400	171	1675	1590	1530		36-M39	30	Gear
1500	198	1795	1705	1640		40-M39	30	Gear
1600	198	1915	1820	1750		40-M45	30	Gear
1800	219	2115	2020	1950		40-M45	30	Gear
2000	250	2325	2230	2150		48-M45	30	Gear

**ANSI 150LB**

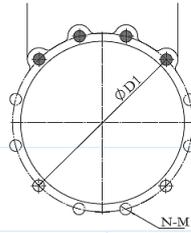
DN	L	D	D1	D2	D0	N-Th	d(φ)	H1
2"	48	152	121	92	180	4-5/8"	19	260
2-1/2"	48	178	140	105	200	4-5/8"	19	292
3"	51	191	153	127	200	4-5/8"	19	320
4"	51	229	191	157	240	8-5/8"	19	358
5"	57	254	216	186	260	8-3/4"	22	395
6"	57	279	242	216	280	8-3/4"	22	450
8"	70	343	299	270	300	8-3/4"	22	532
10"	70	406	362	324	320	12-7/8"	25	670
12"	76	483	432	381	350	12-7/8"	25	758
14"	76	533	476	413	400	12-1"	29	857
16"	89	597	540	470	450	16-1"	29	946
18"	89	635	578	533	500	16-1 1/8"	32	1023
20"	114	699	635	584	500	20-1 1/8"	32	Gear
22"	114	750	692	641		20-1 1/4"	35	Gear
24"	114	813	750	691		24-1 1/4"	35	Gear
26"	114	870	806	749		28-1 1/4"	35	Gear
28"	127	927	864	800		28-1 1/4"	35	Gear
30"	127	985	914	857		28-1 1/2"	35	Gear
32"	127	1060	978	914		32-1 1/2"	41	Gear
34"	127	1110	1029	965		32-1 1/2"	41	Gear
36"	127	1170	1086	1022		32-1 1/2"	41	Gear
38"	149	1240	1149	1073		36-1 1/2"	41	Gear
40"	149	1290	1200	1124		36-1 1/2"	41	Gear
42"	149	1345	1257	1194		40-1 1/2"	41	Gear
44"	149	1405	1314	1245		40-1 1/2"	41	Gear
46"	149	1455	1365	1295		44-1 1/2"	41	Gear
48"	156	1510	1422	1359		44-1 3/4"	41	Gear
50"	156	1570	1480	1410		44-1 3/4"	51	Gear
52"	156	1625	1537	1461		44-1 3/4"	51	Gear
54"	171	1685	1594	1511		44-1 3/4"	51	Gear
56"	171	1745	1651	1575		48-1 3/4"	51	Gear



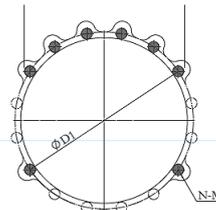
DN50-DN65



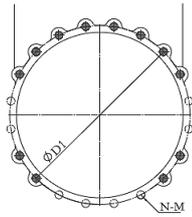
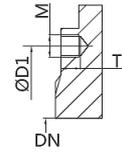
DN80-DN200



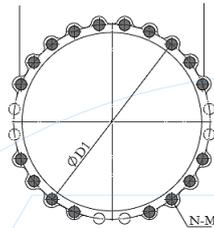
DN225-DN300



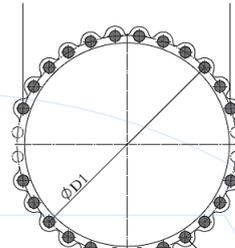
DN350-DN400



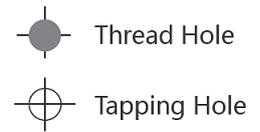
DN450-DN600



DN650-DN800

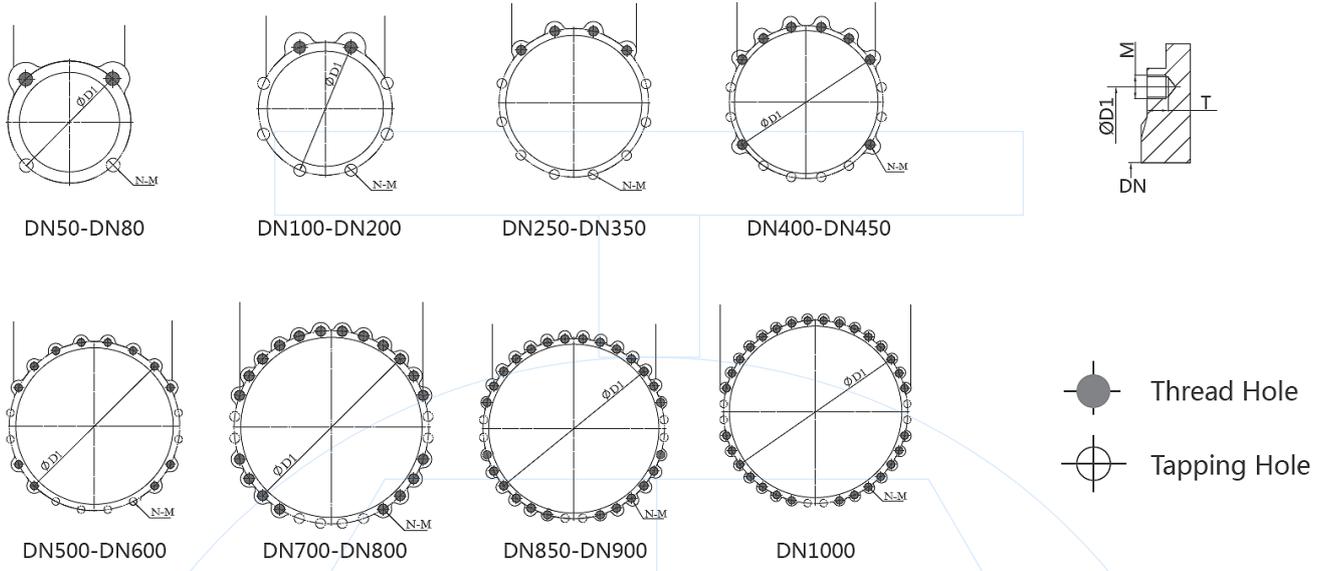


DN850-DN1000



PN10 THREADED HOLES AND TAPPING HOLES

DN	D1	N	M	T	Thread holes	Tapping holes
50	125	4	16	13	2	2
65	145	4	16	13	2	2
80	160	8	16	13	2	6
100	180	8	16	13	2	6
125	210	8	16	16	2	6
150	240	8	16	16	2	6
200	295	8	16	20	2	6
225	310	12	20	20	4	8
250	350	12	20	20	4	8
300	400	12	20	20	4	8
350	460	16	20	20	8	8
400	515	16	24	24	8	8
450	565	20	24	24	12	8
500	620	20	24	24	12	8
550	680	20	27	24	12	8
600	725	20	27	27	12	8
700	840	24	27	27	18	6
800	950	24	30	30	18	6
900	1050	28	30	30	22	6
1000	1160	28	33	33	22	6



PN10 THREADED HOLES AND TAPPING HOLES

DN	D1	N	M	T	Thread holes	Tapping holes
2"	121	4	M5/8-11	13	2	2
2-1/2"	140	4	M5/8-11	13	2	2
3"	153	4	M5/8-11	13	2	2
4"	191	8	M5/8-11	13	2	6
5"	216	8	M3/4-10	16	2	6
6"	242	8	M3/4-10	16	2	6
8"	299	8	M3/4-10	20	2	6
10"	362	12	M7/8-9	20	4	8
12"	432	12	M7/8-9	20	4	8
14"	476	12	M1-8	20	6	6
16"	540	16	M1-8	24	8	8
18"	578	16	M1 1/8-7	24	8	8
20"	635	20	M1 1/8-7	24	12	8
22"	692	20	M1 1/4-7	24	12	8
24"	750	20	M1 1/4-7	27	12	8
28"	864	28	M1 1/4-7	27	20	8
30"	914	28	M1 1/4-7	27	20	8
32"	978	28	M1 1/2-6	30	20	8
34"	1029	32	M1 1/2-6	30	26	6
36"	1086	32	M1 1/2-6	30	26	6
40"	1200	36	M1 1/2-6	33	30	6
40"	1200	36	M1 1/2-6	33	30	6



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