

## QM Series

### Bi-directional seal Knife Gate Valve



**Model:** QMZ73X  
**Working Pressure:** DN50-DN200 16bar  
 DN250-DN600 10bar  
 DN650-DN700 8bar  
 DN750-DN1000 6bar  
**Type:** Wafer  
**Design Standard:** MSS SP-81  
**Flange Standard:** DIN PN10,PN16,150LB ,JIS 10K,TABLE E/D  
**Face to Face:** MSS SP-81  
**Testing Standard:** API-598

**Operation:** handwheel, electric, pneumatic, hydraulic, sprocket, electro-hydraulic, gear

**Main material:** GGG40,WCB,CF3M,CF8M,CF8

**Wedge material:** SS316L,SS304

**Sealing material:** EPDM

**Packing:** Aramid fiber,high-water-based, rubber packing graphite

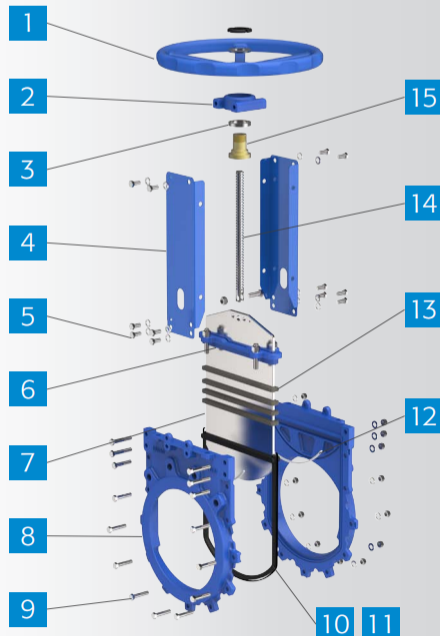
**Applicable medium:** Applicable for coal in power plant, slag discharge, sewage treatment, food, paper making, medicine, petroleum and chemical industry, water, Oil, steam, connecting or cutting grout, gold powder, ores, slag, coal, pulp, wood pulp, tailings, fibers, dust, chemicals, sewage treatment,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

#### Features:

- # Bi-directional seal
- # 2PC Body design
- # Full port design
- # Fluid without retention in valve body
- # 2PC Strong yoke design
- # Mixed with a variety of materials packing

#### Product Description:

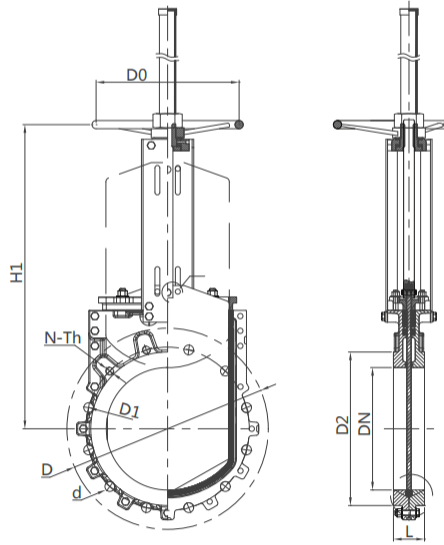
QM Series No groove bi-directional seal knife gate valve, cast iron body with the over all structure knife gate valve, including valve' body, gate, and U-shaped flexible seal at the bottom of the body with grooves. When the valve is closed, the bottom of the gate edge contact with the seal and then compress 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 logging, 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.



Code	Name	Material	QTY
1*	Hand wheel	GGG40	1
2	Yoke Flange	GGG40	1
3	Bearing	ZChSnSb10-6	2
4	Yoke	Q235	2
5	Bolt & Nut	Fe+Zn/SS304	N
6	packing Gland	WCB/CF8	1
7	Gate Disc	SS304/SS316L	1
8	Body	WCB,CF3M,CF8M,CF8,GGG40	2
9	Bolt	Fe+Zn/SS304	N
10	Seat	EPDM/NBR/FKM	1
11	Body Sealing	EPDM	1
12	Scraper	PTFE	2
13	Packing	PTFE	3-5
14	Stem	2Cr13/SS304/SS316	1
15	Stem Nut	Brass	1

\*electric, pneumatic, hydraulic, sprocket, electro-hydraulic, gear **available**

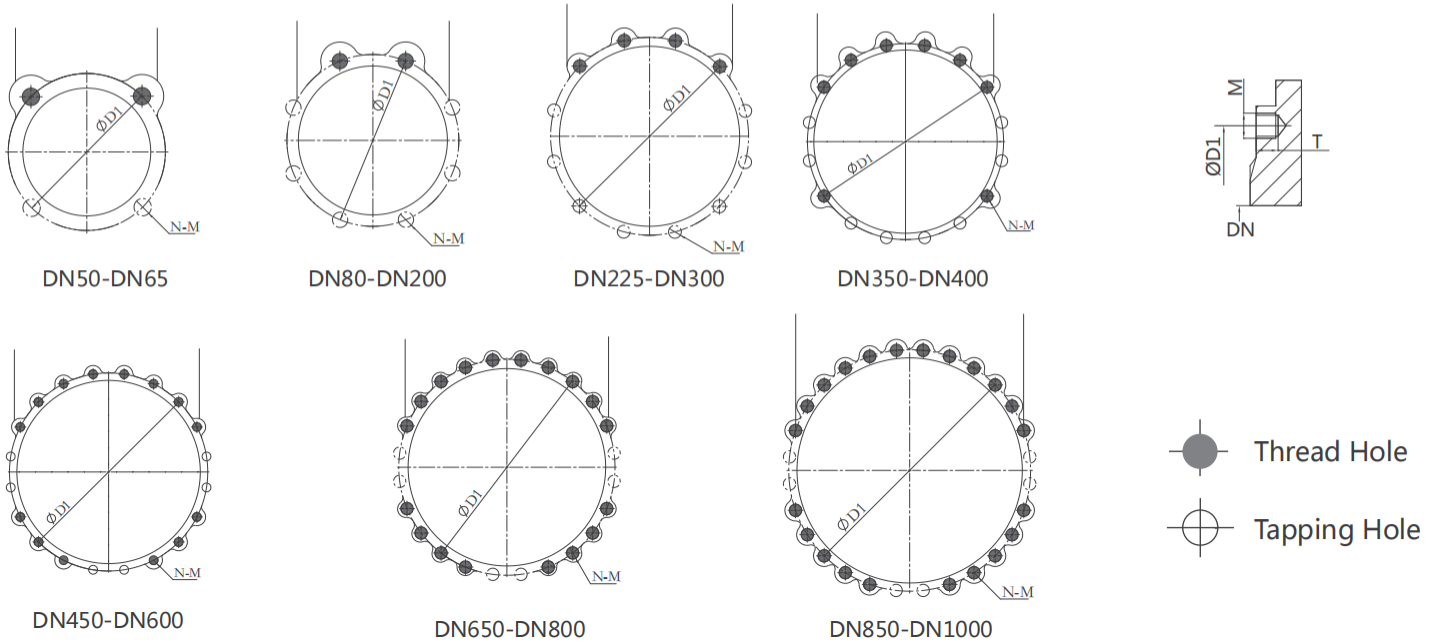
## Dimension



unit:mm

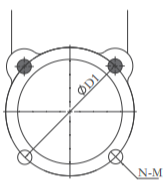
DIN2632 PN10									ANSI 150LB								
DN	L	D	D1	D2	D0	N-Th	d	H1	DN	L	D	D1	D2	D0	N-Th	d	H1
50	48	165	125	99	180	4-M16	Ø18	265	2"	48	152	121	92	180	4-5/8"	Ø19	260
65	48	185	145	118	200	4-M16	Ø18	290	2-1/2"	48	178	140	105	200	4-5/8"	Ø19	292
80	51	200	160	132	200	8-M16	Ø18	330	3"	51	191	153	127	200	4-5/8"	Ø19	320
100	51	220	180	156	240	8-M16	Ø18	360	4"	51	229	191	157	240	8-5/8"	Ø19	358
125	57	250	210	184	260	8-M16	Ø18	400	5"	57	254	216	186	260	8-3/4"	Ø22	395
150	57	285	240	211	280	8-M20	Ø23	450	6"	57	279	242	216	280	8-3/4"	Ø22	450
200	70	340	295	266	300	8-M20	Ø23	530	8"	70	343	299	270	300	8-3/4"	Ø22	532
250	70	395	350	319	320	12-M20	Ø23	595	10"	70	406	362	324	320	12-7/8"	Ø25	670
300	76	445	400	370	350	12-M20	Ø23	660	12"	76	483	432	381	350	12-7/8"	Ø25	758
350	76	505	460	429	400	16-M20	Ø23	760	14"	76	533	476	413	400	12-1"	Ø29	857
400	89	565	515	480	450	16-M24	Ø27	850	16"	89	597	540	470	450	16-1"	Ø29	946
450	89	615	565	530	500	16-M24	Ø27	940	18"	89	635	578	533	500	16-1 1/8"	Ø32	1023
500	114	670	620	582	500	20-M24	Ø27	1050	20"	114	699	635	584	500	20-1 1/8"	Ø32	Gear
550	114	725	680	638	-	20-M27	Ø30	Gear	22"	114	750	692	641	-	20-1 1/4"	Ø35	Gear
600	114	780	725	682	-	20-M27	Ø30	Gear	24"	114	813	750	691	-	20-1 1/4"	Ø35	Gear
700	127	895	840	794	-	24-M27	Ø30	Gear	26"	114	870	806	749	-	24-1 1/4"	Ø35	Gear
800	127	1015	950	901	-	24-M30	Ø30	Gear	28"	127	927	864	800	-	28-1 1/4"	Ø35	Gear
900	127	1115	1050	1001	-	24-M30	Ø30	Gear	30"	127	985	914	857	-	28-1 1/4"	Ø35	Gear
1000	149	1230	1160	1112	-	28-M30	Ø30	Gear	32"	127	1060	978	914	-	28-1 1/2"	Ø41	Gear
1100	149	1340	1260	1220	-	28-M33	Ø30	Gear	34"	127	1110	1029	965	-	28-1 1/2"	Ø41	Gear
1200	156	1455	1380	1328	-	28-M33	Ø30	Gear	36"	127	1170	1086	1022	-	32-1 1/2"	Ø41	Gear
1350	171	1630	1540	1480	-	32-M36	Ø30	Gear	38"	149	1240	1149	1073	-	32-1 1/2"	Ø41	Gear
1400	171	1675	1590	1530	-	32-M36	Ø30	Gear	40"	149	1290	1200	1124	-	36-1 1/2"	Ø41	Gear
1500	198	1795	1705	1640	-	36-M39	Ø30	Gear	42"	149	1345	1257	1194	-	36-1 1/2"	Ø41	Gear
1600	198	1915	1820	1750	-	36-M39	Ø30	Gear	44"	149	1345	1257	1194	-	36-1 1/2"	Ø41	Gear
1800	219	2115	2020	1950	-	40-M39	Ø30	Gear	46"	149	1405	1314	1245	-	40-1 1/2"	Ø41	Gear
2000	250	2325	2230	2150	-	40-M39	Ø30	Gear	48"	156	1455	1365	1295	-	40-1 1/2"	Ø41	Gear
						44-M45	Ø30	Gear	50"	156	1510	1422	1359	-	44-1 1/2"	Ø41	Gear
						44-M45	Ø30	Gear	52"	156	1570	1480	1410	-	44-1 3/4"	Ø51	Gear
						48-M45	Ø30	Gear	54"	171	1625	1537	1461	-	44-1 3/4"	Ø51	Gear
						48-M45	Ø30	Gear	56"	171	1685	1594	1511	-	44-1 3/4"	Ø51	Gear
						48-M45	Ø30	Gear			1745	1651	1575	-	48-1 3/4"	Ø51	Gear

## PN10 Threaded hole and Tapping hole

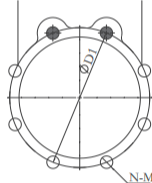


DN	D	N	PN10		Thread Hole	Tapping Hole
			M	T		
50	125	4	M16	13	2	2
65	145	4	M16	13	2	2
80	160	8	M16	13	2	6
100	180	8	M16	13	2	6
125	210	8	M16	16	2	6
150	240	8	M16	16	2	6
200	295	8	M20	20	2	6
225	310	12	M20	20	4	8
250	350	12	M20	20	4	8
300	400	12	M20	20	4	8
350	460	16	M20	20	8	8
400	515	16	M24	24	8	8
450	565	20	M24	24	12	8
500	620	20	M24	24	12	8
550	680	20	M27	24	12	8
600	725	20	M27	27	12	8
700	840	24	M27	27	18	6
800	950	24	M30	30	18	6
900	1050	28	M30	30	22	6
1000	1160	28	M33	33	22	6

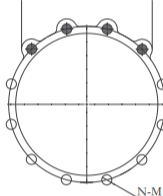
## 150LB Threaded hole and Tapping hole



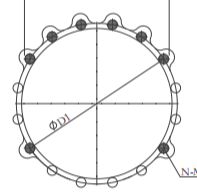
DN50-DN80



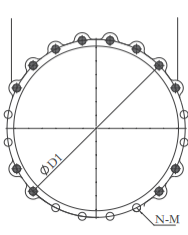
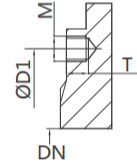
DN100-DN200



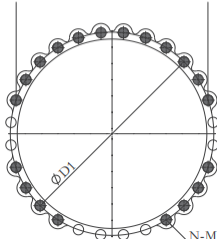
DN250-DN350



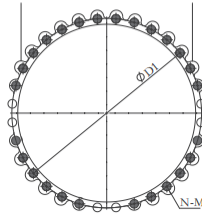
DN400-DN450



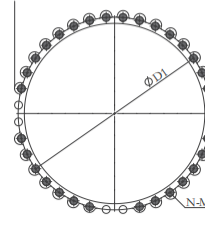
DN500-DN600



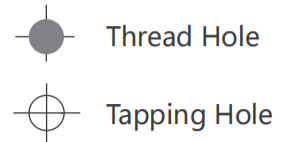
DN700-DN800



DN850-DN900



DN1000



DN	D1	N	ANSI 150LB		Thread Hole	Tapping Hole
			M	T		
2"(DN50)	121	4	M5/8-11	13	2	2
2-1/2"(DN65)	140	4	M5/8-11	13	2	2
3"(DN80)	153	4	M5/8-11	13	2	2
4"(DN100)	191	8	M5/8-11	13	2	6
5"(DN125)	216	8	M3/4-10	16	2	6
6"(DN150)	242	8	M3/4-10	16	2	6
8"(DN200)	299	8	M3/4-10	20	2	6
10"(DN250)	362	12	M7/8-9	20	4	8
12"(DN300)	432	12	M7/8-9	20	4	8
14"(DN350)	476	12	M1-8	20	6	6
16"(DN400)	540	16	M1-8	24	8	8
18"(DN450)	578	16	M1 1/8-7	24	8	8
20"(DN500)	635	20	M1 1/8-7	24	12	8
22"(DN550)	692	20	M1 1/4-7	24	12	8
24"(DN600)	750	20	M1 1/4-7	27	12	8
28"(DN700)	864	28	M1 1/4-7	27	20	8
30"(DN750)	914	28	M1 1/4-7	27	20	8
32"(DN800)	978	28	M1 1/2-6	30	20	8
34"(DN850)	1029	32	M1 1/2-6	30	26	6
36"(DN900)	1086	32	M1 1/2-6	30	26	6
40"(DN1000)	1200	36	M1 1/2-6	33	30	6
40"(DN1000)	1200	36	M1 1/2-6	33	30	6