



Butterfly Valves (Wafer type or lugged type)



Description:

Design and manufacture: MSS SP-67, API 609

Test and inspection: API 598 .

Flanged end: ANSI B16.1, BS4504, ISO2084 and DIN2501 etc.

Top flange: ISO5211

Center line butterfly valve

Resilient seat

Shaft: Round, double D or square type

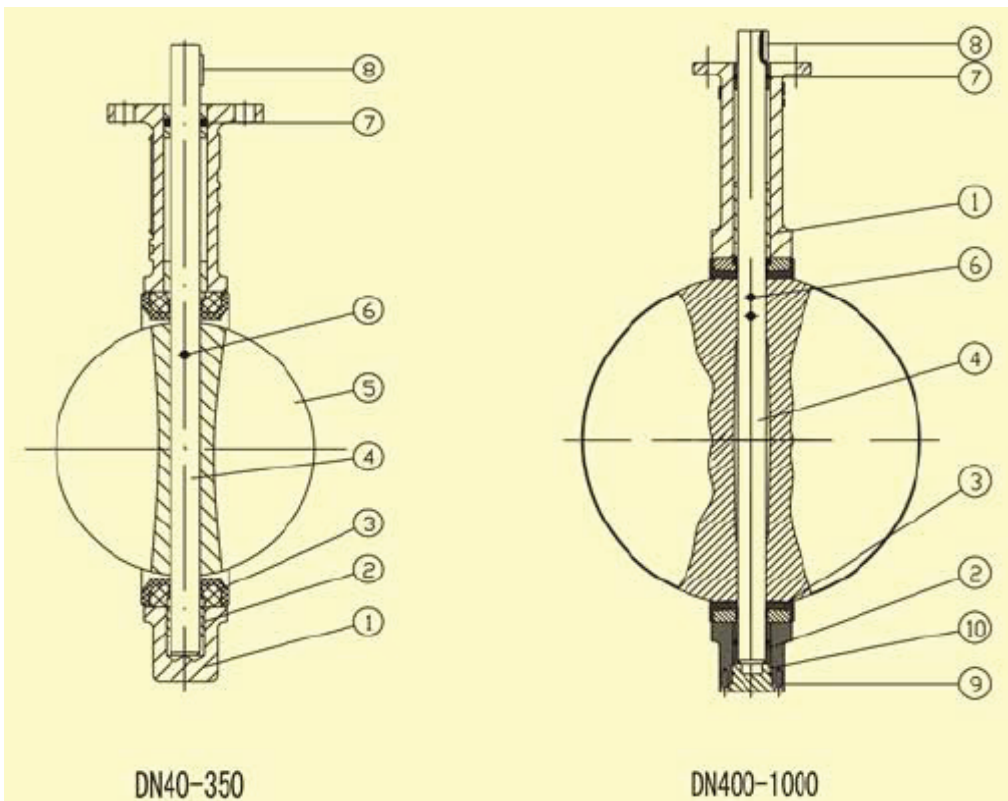
Size: 2" ~ 32" (DN50 ~ 800)

Working pressure: 1.0MPa / 1.6MPa / Class125

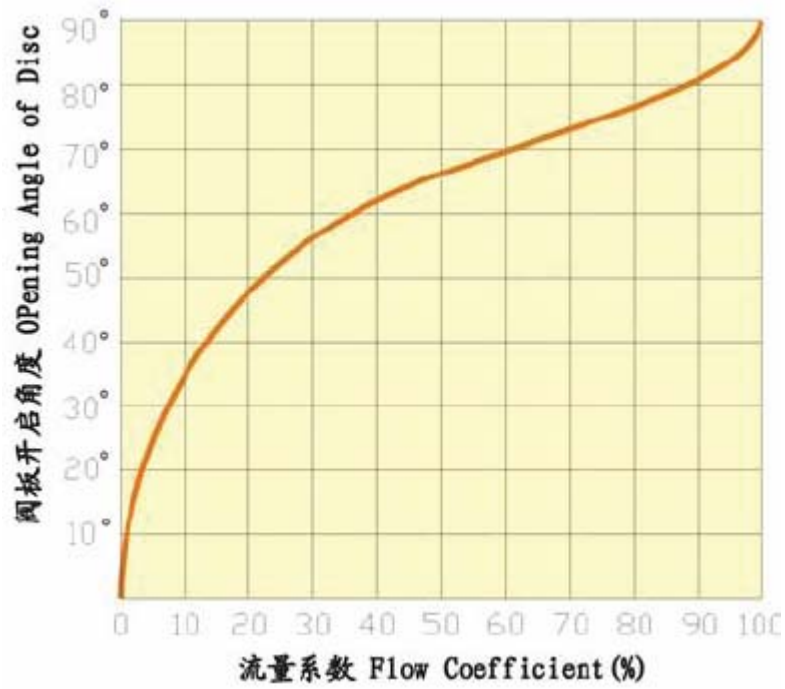
Operator: lever, gear, electric or pneumatic actuator

Material Construction:

序号 No.	部件 Part	材质 Material	序号 No.	部件 Part	材质 Material
1	阀体 Body	灰铸铁、球墨铸铁、铝青铜、不锈钢、碳钢 CI, DI, AL-bronze, Stainless steel, Carbon steel	6	圆锥销 Taper pin	不锈钢 Stainless steel
2	轴套 Bushing	润滑青铜、复合F4 Lubricated bronze, PTFE	7	O形圈 O-ring	橡胶 Rubber
3	阀座 Seat	橡胶 Rubber	8	键 Key	45
4	转轴 Shaft	不锈钢 Stainless steel	9	螺钉 Hex. Bolt	碳钢 Carbon steel
5	阀板 Disc	球墨铸铁、铝青铜、不锈钢 DI, AL-bronze, Stainless steel	10	底端盖 End Plate	碳钢、不锈钢 Carbon steel, Stainless steel

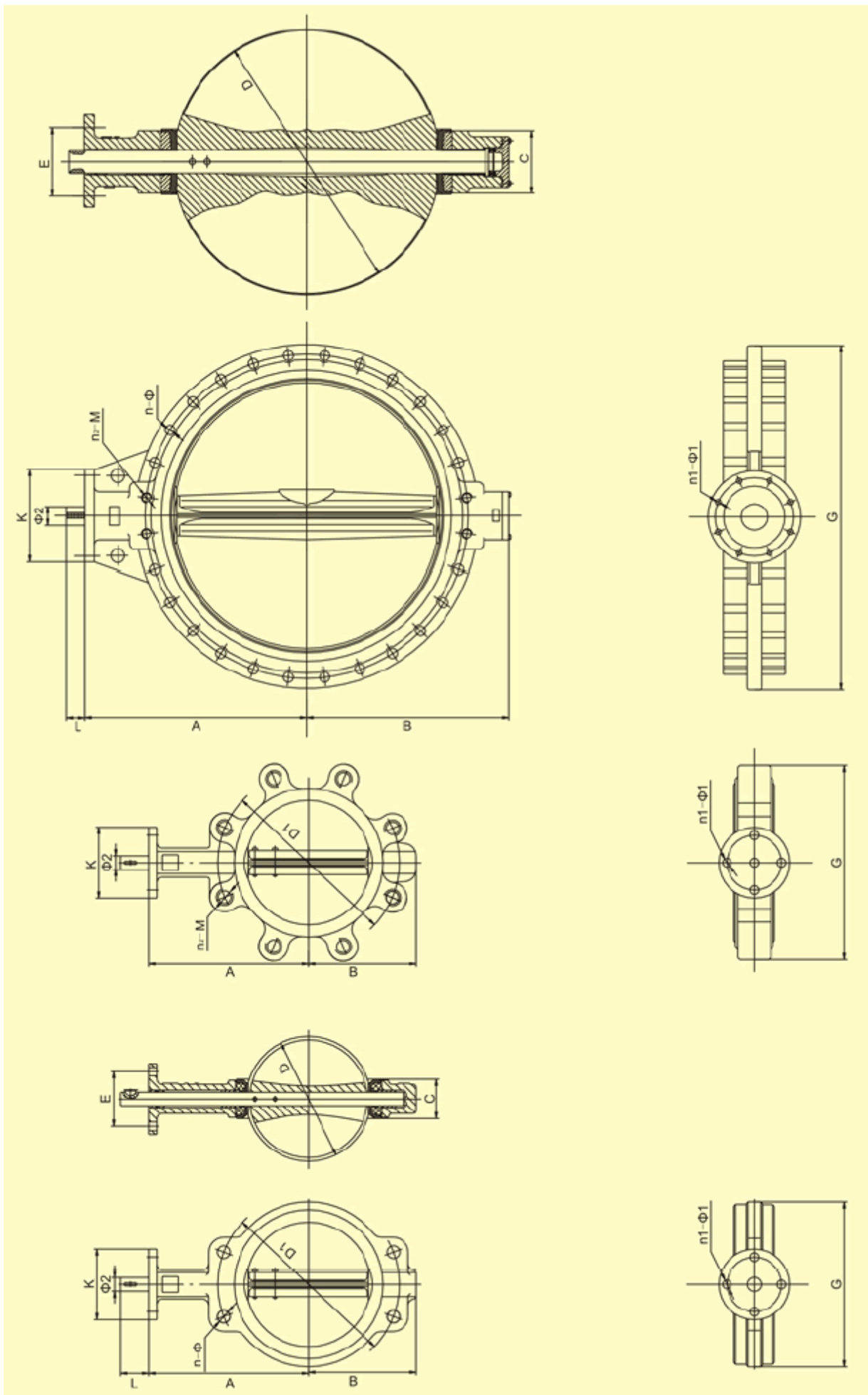


FLOW RATE CHART



Cv Valve-Flow Rate Coefficient

规格	10°	20°	30°	40°	50°	60°	70°	80°	90°
DN50	0.1	5	12	24	45	64	90	125	135
DN65	0.2	8	20	37	65	98	144	204	220
DN80	0.3	12	22	39	70	116	183	275	302
DN100	0.5	17	36	78	139	230	364	546	600
DN125	0.8	29	61	13	237	392	620	930	1022
DN150	2	45	95	205	366	605	958	1437	1579
DN200	3	89	188	408	727	1202	1903	2854	3136
DN250	4	151	320	694	1237	2047	3240	4859	5340
DN300	5	234	495	1072	1911	3162	5005	7507	8250
DN350	6	338	715	1549	2761	4568	7230	10844	11917
DN400	8	464	983	2130	3797	6282	9942	14913	16388
DN450	11	615	1302	2822	5028	8320	13168	19752	21705
DN500	14	791	1674	3628	6465	10698	16931	25396	27908
DN600	22	1222	2587	5605	9989	16528	26157	39236	43116
DN700	30	1633	3522	7630	12599	20036	30482	46899	58696
DN800	45	2387	4791	8736	13786	20613	31395	48117	68250
DN900	60	3021	6063	11055	17449	26086	39731	60895	85375
DN1000	84	4183	8395	15307	24159	36166	55084	84425	119750

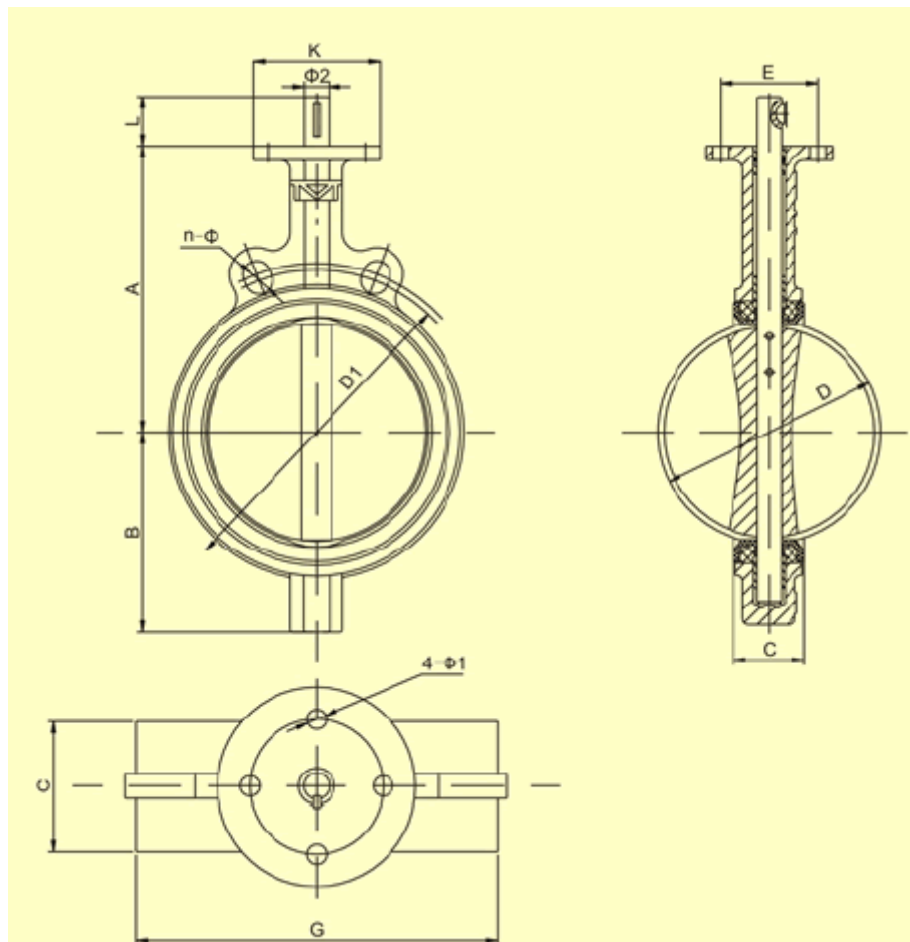


★主要连接尺寸及重量 Outline Dimensions & Connection Dimensions & Weight:

规格		A	B	C	D	L	DI		n-φ	n-M	K	E	n1-φ1	φ2	G		总重 (kg)	
mm	inch						A型	LT型							A型	LT型	A型	LT型
50	2"	140	80	42	52.9	32	120	125	4-23	4-M16	77	57.15	4-6.7	12.6	118	118	2.2	3.8
65	2.5"	150	89	44.7	64.5	32	136.2	145	4-26.5	4-M16	77	57.15	4-6.7	12.6	137	137	2.5	4.2
80	3"	158	95	45.2	78.8	32	160	160	8-18	8-M16	77	57.15	4-6.7	12.6	143	143	2.9	4.7
100	4"	176	114	52.1	104	32	185	180	4-24.5	8-M16	92	69.85	4-10.3	15.77	156	206	4.3	9.0
125	5"	190	127	54.4	123.3	32	215	210	4-23	8-M16	92	69.85	4-10.3	18.92	190	238	6.1	10.9
150	6"	201	139	55.8	155.6	32	238	240	4-25	8-M20	92	69.85	4-10.3	18.92	212	266	7.8	14.2
200	8"	235	175	60.6	202.5	45	295	295	4-25 4-23	8-M20 12-M20	115	88.9	4-14.3	22.10	268	317 329	12.2	18.2
250	10"	265	203	65.6	250.5	45	357	350 355	4-29	12-M20 12-M24	115	88.9	4-14.3	28.45	325	363	18.8	26.8
300	12"	305	242	76.9	301.6	45	407	400 410	4-29	12-M20 12-M24	140	107.95	4-14.3	31.60	403	462	28.7	40
350	14"	368	287	76.5	333.5	45	467	460 470	4-30	16-M20 16-M24	140	107.95	4-14.3	31.60	436	515	41.3	56
400	16"	400	309	85.7	389.6	51.2	515	515	4-26 4-30	16-M24 16-M27	197	158.75	4-20.6	33.15 37.9	488	579	61	96
450	18"	422	328	104.6	440.5	51.2	565	565	4-26 4-30	20-M24 20-M27	197	158.75	4-20.6	38.0 42.86	539	627	79	122
500	20"	480	360	130.28	491.6	52.75 77.5	620	620	4-26 4-33	20-M24 20-M30	197	158.75	4-20.6	41.15 45.72	594	696	128	202
600	24"	562	459	151.36	592.5	70.2	725	725	20-30 20-36	20-M27 20-M33	276	215.9	4-22.2	50.65 53.98	824	821	188	270
700	28"	624	520	163	695	86	840	/	24-30 20-36	/	300	254	8-18	55 63.35	895	/	284	/
800	32"	672	591	188	794.7	86	950	/	24-33 24-39	/	300	254	8-18	55 63.35	1015	/	368	/
900	36"	720	656	203	864.7	118	1050	/	24-33	/	300	254	8-18	75	1115	/	713	/
1000	40"	800	722	216	965	141	1160	/	24-36	/	300	254	8-18	85	1230	/	864	/

注: DN50~DN800 蝶阀分别适用于 PN1.0/PN1.6MPa 两种压力级, 表中每规格中有两个尺寸的分别表示 PN1.0 MPa 和 PN1.6MPa 两种压力级连接尺寸。蝶阀上法兰可通用于手动、蜗轮蜗杆传动、电动、气动等。表中 DI 及 n-φ 尺寸为蝶阀安装定位尺寸, 包含国标 (GB)、国际标准 (ISO)、德标 (DIN)、英标 (BS) 等法兰连接标准。

Note: DN50~DN800 Butterfly valves are suitable for the pressure of PN1.0 and PN1.6MPa grade separately. Two dimensions in one size show the connection dimensions of PN1.0/PN1.6MPa pressure grade. The upper flanges of the valves are suitable all types of valves fitted with electric, worm gear, manual, pneumatic and actuators. The dimensions DI and n-φ are listed in above table show the installation dimensions of butterfly valve. It contains China Standard (GB), International Standard (ISO), Germany Standard (DIN), and England Standard (BS) of flange connection standard, etc.



★ 主要连接尺寸及重量 Outline Dimensions & Connection Dimensions & Weight:

规格 Size DN (mm)	A	B	C	D1	L	n-φ	K	E	4-φ1	φ2	G	重量 Weight (kg)
50	140	80	43	125	32	4-19	77	57.15	4-6.7	12.6	100	2.2
65	152	89	46	145	32	4-19	77	57.15	4-6.7	12.6	120	2.5
80	159	95	45.21	160	32	8-19	77	57.15	4-6.7	12.6	127	2.9
100	178	114	52.07	180	32	8-19	92	69.85	4-10.3	15.77	156	4.3
125	190	127	55.5	210	32	8-19	92	69.85	4-10.3	18.92	190	6.1
150	203	139	55.75	240	32	8-23	92	69.85	4-10.3	18.92	212	7.8
200	238	175	60.58	295	45	8-23	115	88.9	4-14.3	22.1	268	12.2
250	268	203	68	350	45	12-23	115	88.9	4-14.3	28.45	325	18.8
300	306	242	76.9	400	45	12-23	140	107.95	4-14.3	31.6	403	28.7
350	368	267	76.17	460	45	16-23	140	107.95	4-14.3	31.6	436	41.3


注:表中的连接尺寸以 PN1.0Mpa 为例,实际产品中 DN50~DN350 规格的 D1 和 n-φ 尺寸包容了 PN1.0Mpa、PN1.6 Mpa 和 ANSI CL.125 二种法兰连接标准。

Note: Mounting size in the above table take PN1.0Mpa as example, in actual product, D1 and n-φ dimension in DN50-350 contain PN1.0Mpa, PN1.6Mpa and ASME CL. 125 three flange mounting standards.

Selection Table Of Materials Applicable For Medium(Only For Reference)

材质 Material	适用温度 Applicable Temperature (°C)	通用介质 Applicable Medium											特点 Feature	
		淡水 Fresh water	海水 Sea water	盐类 Salt	强碱 Strong base	弱碱 Weak acid	弱酸 Weak acid	天然气 Natural gas	醇类 Alcohol	蒸汽 Steam	油类 Oil	食品 Food		
阀座 Seat	天然胶 X1 Natural Rubber	-20 ~ +85												高弹性 High elasticity
	海帕伦 X2 Hypalon	-18 ~ +135 短时-18~+149												耐氧化 Oxidation resistant
	乙丙胶 X3 EPDM	-45 ~ +135 短时-30~+140												耐老化 Aging resistant
	氯丁胶 X4 Neoprene	-7 ~ +93 短时-7~+107												耐光、耐老化 Light-proof、 Aging resistant
	丁腈胶 X5 NBR	-12 ~ +82 短时-12~+93												耐油 Oil resistant
	氟橡胶 X7 Viton	-12 ~ +135 短时-18~+14												耐高温、耐腐蚀 Hightemperature Resistant, corrosion resistant
阀板 Disc	球铁电镀 Electric Plating DI	-30~350												耐热 Heat resistant
	铝青铜 Aluminum Bronze	-273-232												耐热、耐腐蚀 Heat resistant, corrosion resistant
	不锈钢 Stainless steel	-268~316												耐高温、耐腐蚀 High temperature resistant, corrosion resistant

 适用
Applicable

 流速大于1.5m/s不适用
Not applicable, flow rate higher than 1.5m/s