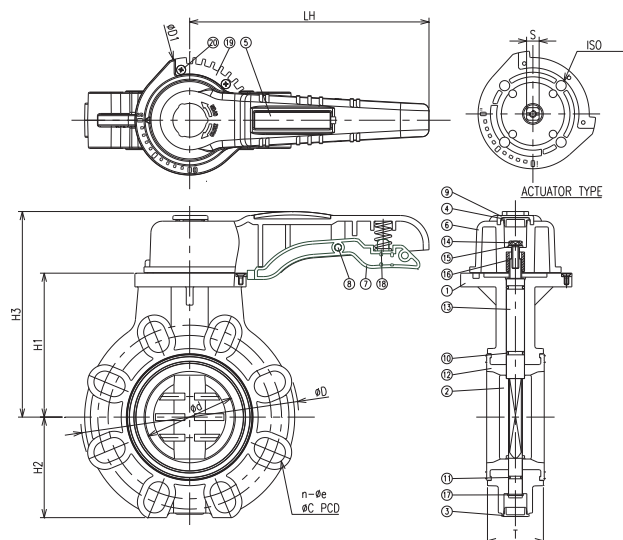


BUTTERFLY VALVE - HANDLE TYPE

蝶閥 - 把手式 PVC & CPVC 2" ~ 8"

DATA

- Working pressure : 150 PSI / 73° F
- Universal bolt holes suitable for ASTM,DIN and JIS systems
- Low flow loss and Lower operation torque
- Worm gear operators
- Electric actuators
- Pneumatic actuators (ISO 5211)
- Brand : SUPERTUNG



No	PARTS NAME	Q'TY	MATERIAL
1	BODY	1	PVC,CPVC
2	DISC	1	PVC,CPVC
3	BODY CAP	1	ABS
4	HANDLE CAP	1	ABS
5	HANDLE CAP	1	ABS
6	HANDLE	1	ABS
7	SMALL HANDLE	1	PPG
8	PIN	1	PPG
9	CLEAR CAP	1	AS
10	STEM O-RING	2	EPDM,FPM
11	STEM O-RING	1	EPDM,FPM
12	SEAT	1	EPDM,FPM
13	STEM	1	SUS410
14	BOLT	1	SUS304
15	WASHER	1	SUS304
16	INSERT	1	SUS304
17	C-RING	1	SUS304
18	SPRING	1	SUS304
19	GEAR	1	SUS304
20	BOLT	3	SUS304

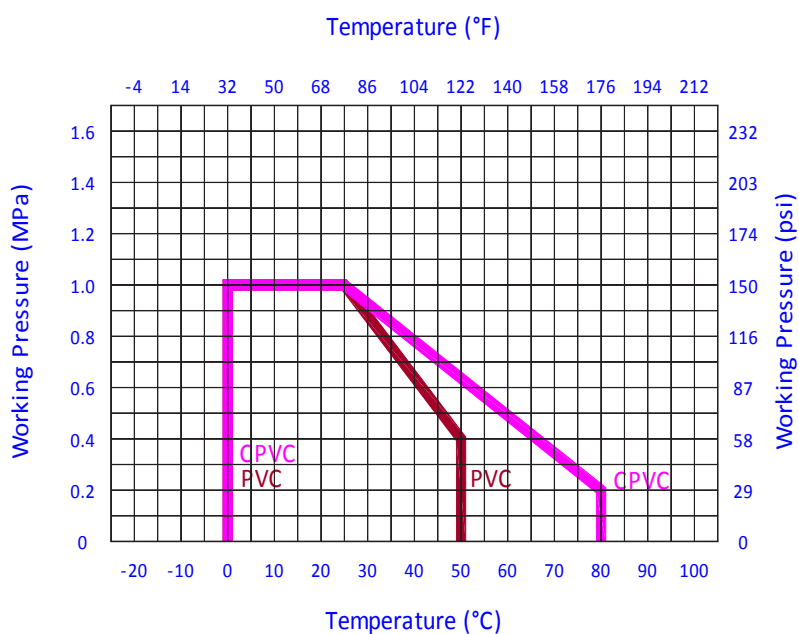
SIZE	D	T	LH	H1	H2	H3	d	ANSI		DIN		JIS		D1	S	ISO 5211
								¢C	n-¢e	¢C	n-¢e	¢C	n-¢e			
2" (50mm)	156	43	210	103	72	158	57	120.7	4-19	125	4-18	120	4-19	110	11	F05 / F07
2-1/2" (65mm)	177	46	210	114	80	168	68	139.5	4-19	145	4-18	140	4-19	110	11	F05 / F07
3" (75mm)	191	49	210	126	88	180	78	152.4	4-19	160	8-18	150	8-19	110	11	F05 / F07
4" (100mm)	223	56	210	143	103	198	98	190.5	8-19	180	8-18	175	8-19	110	14	F07
5" (125mm)	253	64	280	170	117	234	122	215.9	8-19	210	8-18	210	8-23	156	17	F07 / F10
6" (150mm)	279	70	280	181	129	245	145	241.5	8-23	240	8-23	240	8-23	156	17	F07 / F10
8" (200mm)	337	71	330	218	162	287	195	298.5	8-23	295	8-23	290	12-23	156	22	F10

Technical Information

Item	Description	Size	Material		
			Body	Seat	O-ring
(1)	Butterfly Valve	2"(DN50)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(2)	Butterfly Valve	2-1/2"(DN65)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(3)	Butterfly Valve	3"(DN80)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(4)	Butterfly Valve	4"(DN100)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(5)	Butterfly Valve	5"(DN125)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(6)	Butterfly Valve	6"(DN150)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(7)	Butterfly Valve	8"(DN200)	PVC,CPVC	EPDM,FPM	EPDM,FPM

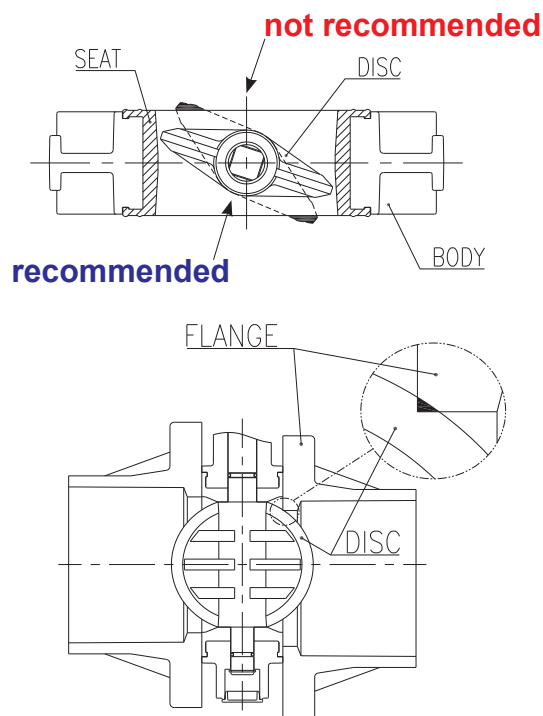
Size	Hydrostatic Testing		Seat and O-ring Tests		Torque N*m	Cv
	Burst pressure water(kgf/cm ²) minimum	Long-term behaviour test water(kgf/cm ²)	Seat valve close water (kgf/cm ²)	O-ring valve open water (kgf/cm ²)		
2"(DN50)	42	22	11	11	15	110
2-1/2"(DN65)	42	22	11	11	20	230
3"(DN80)	42	22	11	11	25	280
4"(DN100)	42	22	11	11	40	440
5"(DN125)	42	22	11	11	55	800
6"(DN150)	42	22	11	11	75	1000
8"(DN200)	42	22	11	11	110	2200

Working pressure vs. Temperature

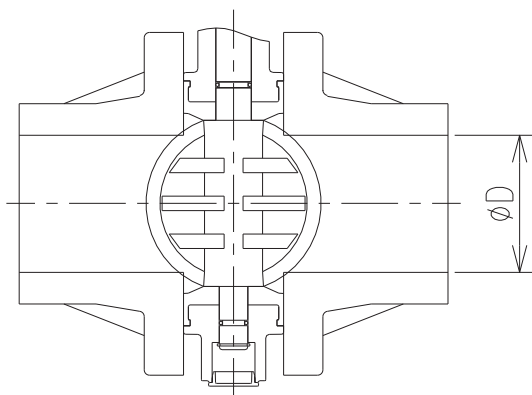


Important Notes

- Once connecting valves must use flat faced flanges. And the gasket is unnecessary.
 - Do not install the valve when the disc fully closed. Because the disc may pinch into the seat, resulting in a high operating torque.
 - If the valve is opened or closed after unpacking, it must be reset in this recommended position before installation.
- Care must be used during piping installation to ensure that the pipes or flanges are properly aligned so that the valve disc does not contact them in any setting. Misalignment between valves and flanges as in figure will result in damage to the valve.

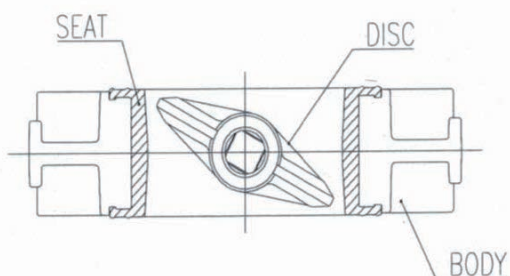


- In case of an abutting thick walled flange and pipe, shave the flange or the pipe inner diameter in order to avoid touching pipe and disc. If the inside diameter of the connecting pipe is larger than dimension D below, shaving is not necessary.



SIZE	D (minimum)
2" (50mm)	40mm(1.57")
2-1/2" (65mm)	55mm(2.16")
3" (75mm)	65mm(2.56")
4" (100mm)	90mm(3.54")
5" (125mm)	112mm(4.41")
6" (150mm)	136mm(5.35")
8" (200mm)	190mm(7.48")

- Install the valve between flanges and open the valve slightly.
- Insert bolts, set nuts and washer and tighten the bolts and nuts temporarily by hand.



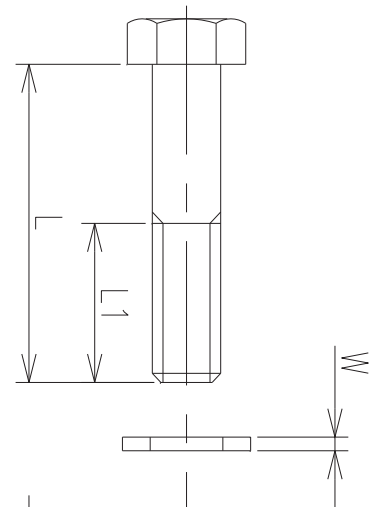
- When you insert a valve with a flange, please insert after extending the fields of flanges fully. (If you insert a valve by force without fully extending fields of flanges, the seat may be turned over and suffer a crack.)



- Dimension of Insert Bolt

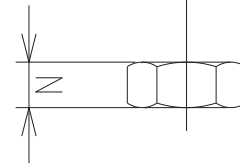
<ANSI Standard>

VALVE SIZE	No. Bolt Holes	Bolt	Bolt Minimum Lengths (mm)	Face to Face (inch)	L1
		Diameter (in.)			(minimum)
2" (50mm)	4	5/8"	$L = F + 2x(T + W) + N + 1/8"$ L: Minimum Bolt Length F: Valve Face to Face T: Flange Thickness W: Washer Thickness N: Nut Thickness	1-3/4"	1-1/4"
2-1/2" (65mm)	4	5/8"		1-7/8"	1-1/4"
3" (75mm)	4	5/8"		2"	1-1/4"
4" (100mm)	8	5/8"		2-1/4"	1-1/4"
5" (125mm)	8	3/4"		2-5/8"	1-1/2"
6" (150mm)	8	3/4"		2-7/8"	1-1/2"
8" (200mm)	8	3/4"		2-7/8"	1-1/2"

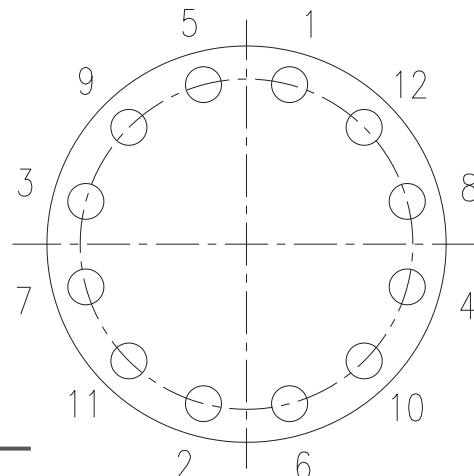
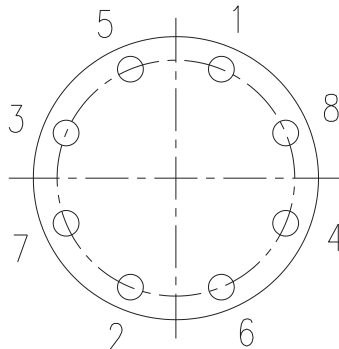
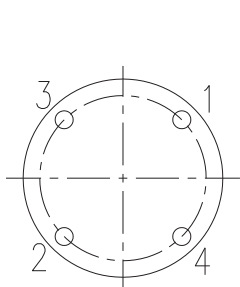


<JIS and DIN Standard>

VALVE SIZE	No. Bolt Holes	Bolt	Bolt Minimum Lengths (mm)	Face to Face (mm)	L1
		Diameter (mm)			(minimum)
2" (50mm)	4	M16	$L = F + 2x(T + W) + N + 3mm$ L: Minimum Bolt Length F: Valve Face to Face T: Flange Thickness W: Washer Thickness N: Nut Thickness	43	35
2-1/2" (65mm)	4	M16		46	35
3" (75mm)	8	M16		49	35
4" (100mm)	8	M16		56	35
5" (125mm)	8	M20		64	40
6" (150mm)	8	M20		70	40
8" (200mm)	12	M20		71	40



- Tighten the bolts and nuts gradually with a torque wrench to the specified

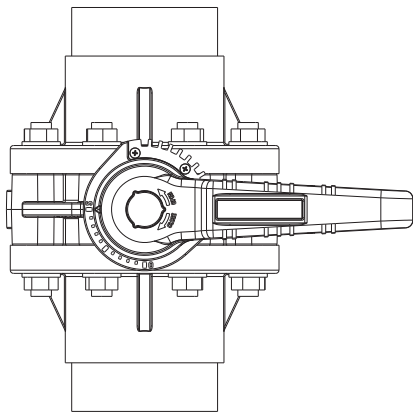


*Recommended torque value

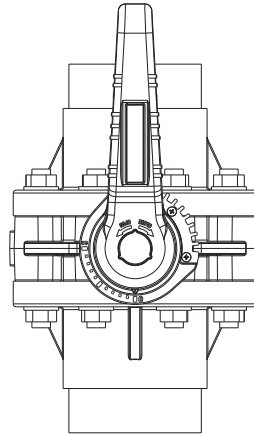
SIZE	2"~4" (50mm~100mm)	5" (125mm)	6" (150mm)	8" (200mm)
TORQUE				
kgf*cm	306~357	357~408	408~510	459~561
N*m	30~35	35~40	40~50	45~55
lbf*in	266~310	310~354	354~442	398~487
lbf*ft	22~26	26~30	30~37	33~41

Caution : Avoid excessive tightening, the valve can be damaged.

- The full-opened and full-shut position
 - For the full-shut position, the handle is perpendicular to the piping axis direction.
 - For the full-opened position, the handle is parallel to the piping axis direction.

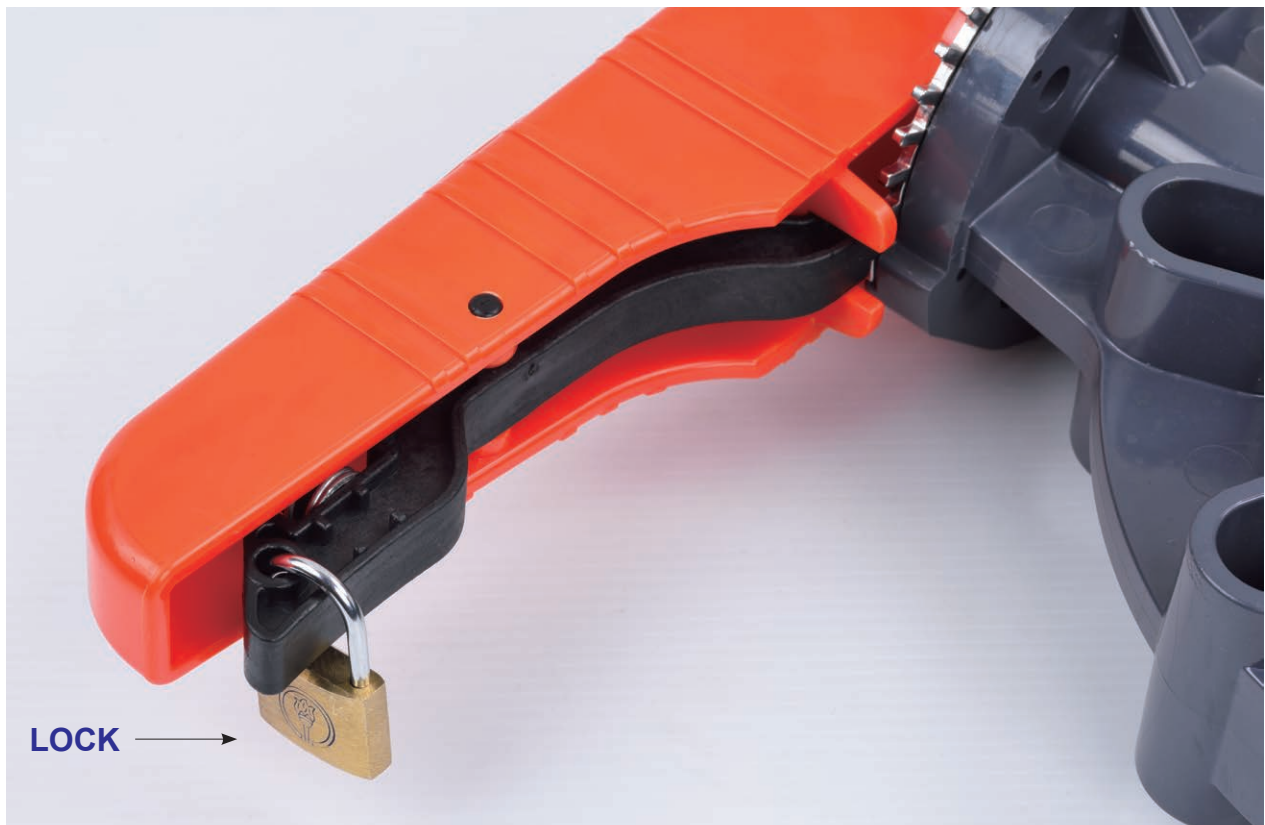


full-shut (Close)



full-opened

- Handle lock



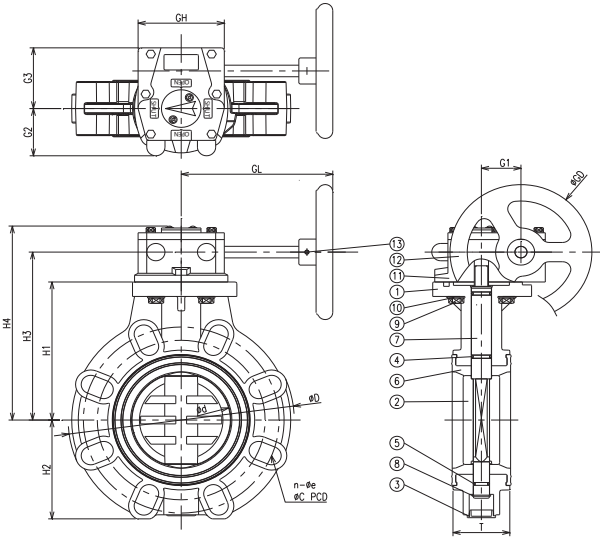
BUTTERFLY VALVE - GEAR BOX

蝶閥 - 齒輪式
PVC & CPVC 2" ~ 8"

DATA

- Working pressure : 150 PSI / 73° F
- Universal bolt holes suitable for ASTM,DIN and JIS systems
- Low flow loss
- Lower operation torque

No	PART'S NAME	Q'TY	MATERIAL
1	BODY	1	PVC,CPVC
2	DISC	1	PVC,CPVC
3	BODY CAP	1	ABS
4	STEM O-RING	2	EPDM,FPM
5	STEM O-RING	1	EPDM,FPM
6	SEAT	1	EPDM,FPM
7	STEM	1	SUS410
8	C-RING	1	SUS304
9	BOLT	4	SUS304
10	WASHER	4	SUS304
11	GEAR BOX	1	FC
12	HANDLE	1	WCB
13	PIN	1	SS41



SIZE	D	T	H1	H2	H3	H4	d	ANSI		DIN		JIS		G1	G2	G3	GH	GD	GL
								¢C	n-¢e	¢C	n-¢e	¢C	n-¢e						
2" (50mm)	156	43	103	72	134	161	57	120.7	4-19	125	4-18	120	4-19	39	49	63	85	140	151
2-1/2" (65mm)	177	46	114	80	145	172	68	139.5	4-19	145	4-18	140	4-19	39	49	63	85	140	151
3" (75mm)	191	49	126	88	157	184	78	152.4	4-19	160	8-18	150	8-19	39	49	63	85	140	151
4" (100mm)	223	56	143	103	174	201	98	190.5	8-19	180	8-18	175	8-19	39	49	63	85	140	151
5" (125mm)	253	64	170	117	205	234	122	215.9	8-19	210	8-18	210	8-23	53	60	85	108	260	215
6" (150mm)	279	70	181	129	216	245	145	241.5	8-23	240	8-23	240	8-23	53	60	85	108	260	215
8" (200mm)	337	71	218	162	253	282	195	298.5	8-23	295	8-23	290	12-23	53	60	85	108	260	215

Technical Information

Item	Description	Size	Material		
			Body	Seat	O-ring
(1)	Butterfly Valve	2"(DN50)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(2)	Butterfly Valve	2-1/2"(DN65)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(3)	Butterfly Valve	3"(DN80)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(4)	Butterfly Valve	4"(DN100)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(5)	Butterfly Valve	5"(DN125)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(6)	Butterfly Valve	6"(DN150)	PVC,CPVC	EPDM,FPM	EPDM,FPM
(7)	Butterfly Valve	8"(DN200)	PVC,CPVC	EPDM,FPM	EPDM,FPM

Size	Hydrostatic Testing		Seat and O-ring Tests		Torque N*m	Cv
	Burst pressure water (kgf/cm ²) minimun	Long-term behaviour test water (kgf/cm ²)	Seat valve close water (kgf/cm ²)	O-ring valve open water (kgf/cm ²)		
2"(DN50)	42	22	11	11	15	110
2-1/2"(DN65)	42	22	11	11	20	230
3"(DN80)	42	22	11	11	25	280
4"(DN100)	42	22	11	11	40	440
5"(DN125)	42	22	11	11	55	800
6"(DN150)	42	22	11	11	75	1000
8"(DN200)	42	22	11	11	110	2200

Working pressure vs. Temperature

