

ASAHI

BUTTERFLY VALVE

- P.073 BUTTERFLY VALVE TYPE 57
- P.079 BUTTERFLY VALVE TYPE 56
- P.083 BUTTERFLY VALVE TYPE 75
- P.087 BUTTERFLY VALVE TYPE 56D, 75D
- P.091 BUTTERFLY VALVE TYPE 55
- P.095 BUTTERFLY VALVE TYPE 55IS
- P.097 LUG BUTTERFLY VALVE TYPE 57L
- P.099 LUG BUTTERFLY VALVE TYPE 57TL
- P.101 PDCPD LARGE SIZE BUTTERFLY VALVE
- P.104 ROTARY DAMPER



BUTTERFLY VALVE LINEUP

VALVE CATEGORY	VALVE TYPE	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18-24	28-48	
		40	50	65	80	100	125	150	200	250	300	350	400	450-600	700-1,200	
STANDARD (RUBBER SEAT)	TYPE 57	U-PVC/PP, PP/PP, PVDF/PVDF														
	TYPE 56												PP, PVDF			
	TYPE 75													PP, PVDF		
	PDCPD LARGE SIZE VALVE														PDCPD	
	TYPE 56D, 75D												PP, PVDF (TYPE 56)	PP, PVDF (TYPE 75)		
	TYPE 57L (Lug type)				PDCPD/PP, PDCPD/PVDF											
	TYPE 57TL (True lug type)				U-PVC/PP											
CHEMICAL RESISTANT (PTFE seat)	TYPE 55		FCD-S/PTFE													
	TYPE 55IS (ISO face-to-face dimension)		FCD450/PTFE													
DAMPER	ROTARY DAMPER (TYPE 56, 57, 75)	U-PVC/PP, PP/PP, PVDF/PVDF (TYPE 57)											PP, PVDF (TYPE 56)	PP, PVDF (TYPE 75)		

AVAILABLE OPTIONS **AUTOMATIC** * Options other than those listed below are also available. Contact us for inquiry.

	PNEUMATIC	ELECTRIC	
	TYPE TA (including damper)	TYPE T	TYPE S
SOLENOID VALVE (NAMUR)	●		
FILTER REGULATOR	●		
SPEED CONTROLLER	●	●	
BYPASS VALVE (WITH SPEED CONTROLLER)	●		
LIMIT SWITCH BOX	●		
LIMIT SWITCH	●		
OUTPUT CONTACT LIMIT SWITCH		STANDARD	● ^{*1}
INTERMEDIATE OUTPUT CONTACT LIMIT SWITCH		●	
PROXIMITY SWITCH	●		
E/P POSITIONER	●		
P/P POSITIONER	●		
E/E POSITIONER		●	●
MANUAL OPERATION LEVER	●		
MANUAL OVERRIDE	●	STANDARD	STANDARD
FULL OPENING ADJUSTMENT (OPENING DEGREE ADJUSTING BOLT)	●		
SPECIAL PAINTING (ACTUATOR ONLY)	●	●	●
SPECIAL FITTING (STAINLESS STEEL)	●	●	
SPACE HEATER		STANDARD	STANDARD
POTENTIOMETER		●	●
R/I TRANSMITTER			●

*1. Provided as standard for 250 mm or less.



LIMIT SWITCH BOX



FULL OPENING ADJUSTMENT
(OPENING DEGREE ADJUSTING BOLT)



POSITIONER

BUTTERFLY VALVE TYPE 57

- HIGH DURABILITY AND FLOW CHARACTERISTICS IN ADDITION TO EXCELLENT OPERABILITY THANKS TO 19-STEP FINE OPENING ADJUSTMENT
- PLASTIC GEAR BOX WITH EXCELLENT CORROSION RESISTANCE
- EASY SWITCHING FROM LEVER TYPE TO GEAR TYPE OR AUTOMATIC VALVE
- HANDLE LEVER OPEN/CLOSE DIRECTION CAN BE CHANGED.

BASIC SPECIFICATIONS

VALVE TYPE ————— **BUTTERFLY VALVE TYPE 57**

SIZE / LEVER TYPE — 40 mm—200 mm (1 1/2 inch—8 inch)

GEAR TYPE — 40 mm—350 mm (1 1/2 inch—14 inch)

BODY MATERIAL — **U-PVC** **PP** **PVDF**

SEAL MATERIAL / SEAT — **EPDM** **FKM** etc.

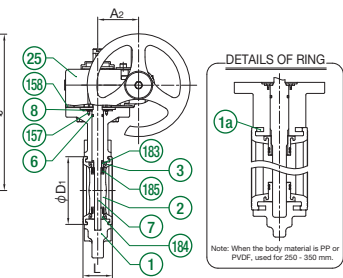
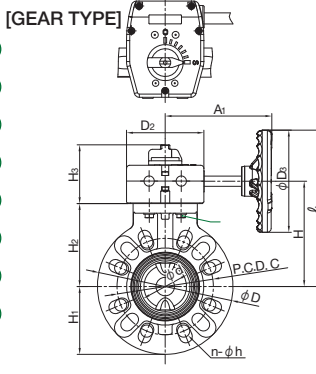
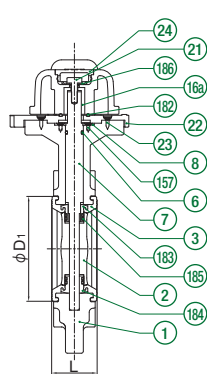
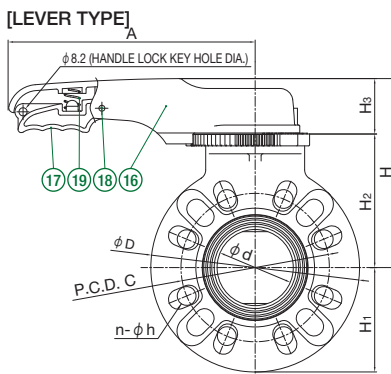
CONNECTION / WAFER — **JIS10K, JIS5K, DIN, ANSI**

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)	
		40mm—250mm	300mm, 350mm
U-PVC	0°C ~ 50°C	1.0 {10.2}	0.75 {7.7}
PP	-20°C ~ 80°C	1.0 {10.2}	0.75 {7.7}
PVDF	-20°C ~ 120°C	1.0 {10.2}	0.75 {7.7}

NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.
 * Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.



PARTS LIST **MANUAL**



PART NO. / NAME	QTY	MATERIAL
① BODY		BODY — DISC / SEAT BUSH
② DISC	1	U-PVC — PP
⑬ SEAT BUSH (A)	1	PP — PP
⑭ SEAT BUSH (B)	1	PVDF — PVDF
③ SEAT	1	
⑥ O-RING (C)	1	EPDM, FKM, etc.
⑬ O-RING (I)	4	
⑦ STEM	1	SUS403, SUS316
⑧ STEM HOLDER (A)	1	PP
⑮ SET SCREW (F)	4	SUS304

ONLY USED FOR LEVER TYPE

PART NO. / NAME	QTY	MATERIAL
⑬ HANDLE (A)	1	PP
⑯ EMBEDDED HANDLE FITTING	1	SUS316L
⑰ HANDLE LEVER	1	PPG
⑱ PIN	1	PPG
⑲ SPRING	1	SUS304
⑲ BOLT (B)	1	SUS304

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
⑲ GEAR BOX	1	RESIN, etc.
⑲ BOLT (C)	4	SUS304
⑲ GASKET (L)	1	EPDM
⑲ RING	2	SS400 (Unichrome plating) When the body material is PP or PVDF, used for 250 - 350 mm.

SPECIFICATION LIST **MANUAL**

LEVER TYPE	SIDE GEAR TYPE	TOP GEAR TYPE	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* For other specifications, contact our sales office in your area.

COMPATIBLE ACTUATOR **AUTOMATIC**

PNEUMATIC	TYPE TA	For detailed specifications, see P.123
ELECTRIC	TYPE T	For detailed specifications, see P.139
ELECTRIC	TYPE S	For detailed specifications, see P.133, 135

PRODUCT MODEL CODE LIST
MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	57	**	*	*	W	*	***
V	57	LV LEVER TYPE SG SIDE GEAR TYPE	U U-PVC P PP F PVDF	E EPDM V FKM	W WAFER	1 10K 5 5K W — D DIN A ANSI	040 40mm 350 350mm

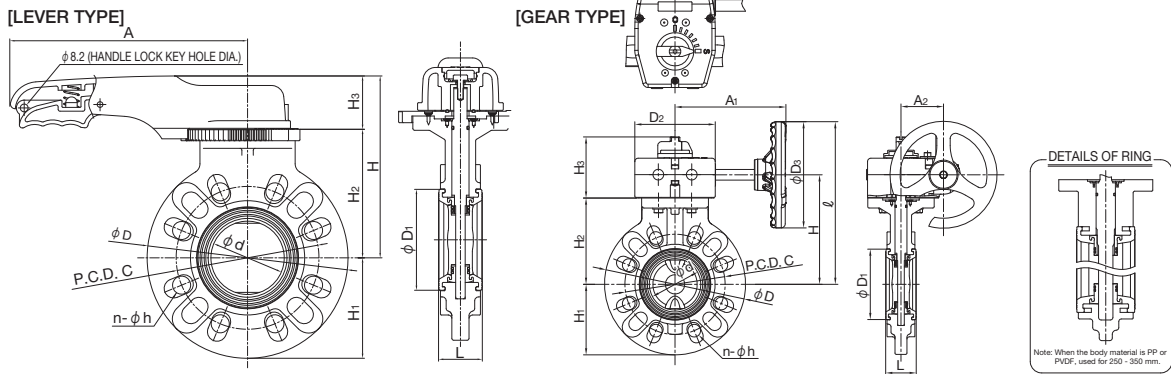
PRODUCT MODEL CODE LIST
AUTOMATIC

ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	57	*	*	*	*	W	*	***
A	57	PNEUMATIC K TYPE TA ELECTRIC T TYPE T S TYPE S	PNEUMATIC F DOUBLE ACTING G AIR TO OPEN S AIR TO CLOSE ELECTRIC 1 Single-Phase 100V 2 Single-Phase 200V 3 Three-Phase AC200V 4 Three-Phase AC400V	U U-PVC P PP F PVDF	E EPDM V FKM	W WAFER	1 JIS10K 5 JIS5K W — D DIN A ANSI	040 40mm 350 350mm

MANUAL

BUTTERFLY VALVE TYPE 57

TYPE—V57LV, V57SG
CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

mm	d	D	D ₁	D ₂	D ₃	L	I	A	A ₁	A ₂	H				JIS5K			JIS10K			WATERWORKS			DIN PN10					
											LEVER TYPE	GEAR TYPE	H ₁	H ₂	H ₃	C	n	h	C	n	h	C	n	h	C	n	h		
40	45	150	71	122	160	39	210	220	167	64	156	130	75	100	95	56	92	95	4	15	105	4	19	—	—	—	110	4	18
50	56	165	81	122	160	42	220	220	167	64	166	140	83	110	105	56	92	105	4	15	120	4	19	—	—	—	125	4	18
65	69	185	95	122	160	46	230	220	167	64	176	150	93	120	115	56	92	130	4	15	140	4	19	—	—	—	145	4	18
80(75)	77	211	105	122	160	46	245	250	167	64	191	165	106	135	130	56	92	145	4	19	150	8	19	—	—	—	160	8	18
100	102	238	134	122	160	56	260	250	167	64	206	180	119	150	145	56	92	165	8	19	175	8	19	—	—	—	180	8	18
125	129	255	169	122	160	66	275	320	167	64	237	195	128	168	160	69	92	200	8	19	210	8	23	—	—	—	210	8	18
150	150	285	190	122	160	71	290	320	167	64	252	210	143	183	175	69	92	230	8	19	240	8	23	—	—	—	240	8	22
200	195	350	242	122	160	87	321	400	167	64	283	241	170	214	206	69	92	280	8	23	290	12	23	—	—	—	295	8	22
250	250	421	302	122	160	112	356	—	167	64	—	276	211	—	241	—	92	345	12	23	355	12	25	—	—	—	350	12	22
300	303	488	360	188	300	129	490	—	272	99	—	340	244	—	298	—	108	390	12	23	400	16	25	—	—	—	400	12	22
350	351	539	393	188	300	129	517	—	272	99	—	367	270	—	325	—	108	435	12	23	445	16	25	—	—	—	460	16	22

■ ANSI (UNIT: inch)

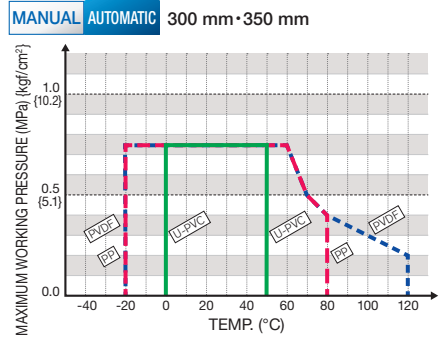
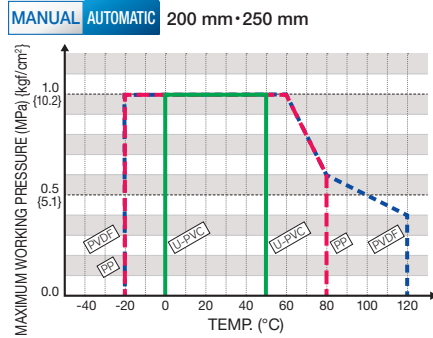
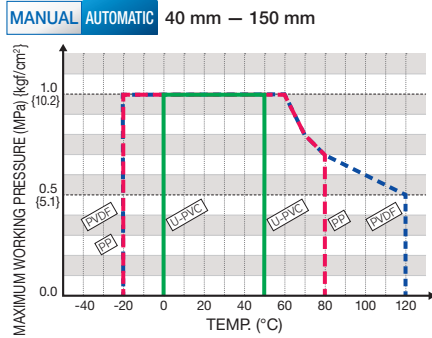
inch	mm	d	D	D ₁	D ₂	D ₃	L	I	A	A ₁	A ₂	H				ANSI CLASS 150			GEAR BOX TYPE			
												LEVER TYPE	GEAR TYPE	H ₁	H ₂	H ₃	C	n		h		
1 1/2	40	1.77	5.91	2.80	4.80	6.30	1.54	8.27	8.66	6.57	2.52	6.14	5.12	2.95	3.94	3.74	2.20	3.62	3.88	4	0.62	TYPE1
2	50	2.20	6.50	3.19	4.80	6.30	1.65	8.66	8.66	6.57	2.52	6.54	5.51	3.27	4.33	4.13	2.20	3.62	4.75	4	0.75	
2 1/2	65	2.72	7.28	3.74	4.80	6.30	1.81	9.06	8.66	6.57	2.52	6.93	5.91	3.66	4.72	4.53	2.20	3.62	5.50	4	0.75	
3	80(75)	3.03	8.31	4.13	4.80	6.30	1.81	9.65	9.84	6.57	2.52	7.52	6.50	4.17	5.31	5.12	2.20	3.62	6.00	4	0.75	
4	100	4.02	9.37	5.28	4.80	6.30	2.20	10.24	9.84	6.57	2.52	8.11	7.09	4.69	5.91	5.71	2.20	3.62	7.50	8	0.75	
5	125	5.08	10.04	6.65	4.80	6.30	2.60	10.83	12.60	6.57	2.52	9.33	7.88	5.04	6.61	6.30	2.72	3.62	8.50	8	0.88	
6	150	5.91	11.22	7.48	4.80	6.30	2.80	11.42	12.60	6.57	2.52	9.92	8.27	5.63	7.20	6.89	2.72	3.62	9.50	8	0.88	
8	200	7.68	13.78	9.53	4.80	6.30	3.43	12.64	15.75	6.57	2.52	11.14	9.49	6.69	8.43	8.11	2.72	3.62	11.75	8	0.88	
10	250	9.84	16.57	11.89	4.80	6.30	4.41	14.02	—	6.57	2.52	—	10.87	8.31	—	9.49	—	3.62	14.25	12	1.00	
12	300	11.93	19.21	14.17	7.40	11.81	5.08	19.29	—	10.71	3.90	—	13.39	9.61	—	11.73	—	4.25	17.00	12	1.00	
14	350	13.82	21.22	15.47	7.40	11.81	5.08	20.35	—	10.71	3.90	—	14.45	10.63	—	12.80	—	4.25	18.75	12	1.12	

WORKING PRESSURE VS. TEMPERATURE

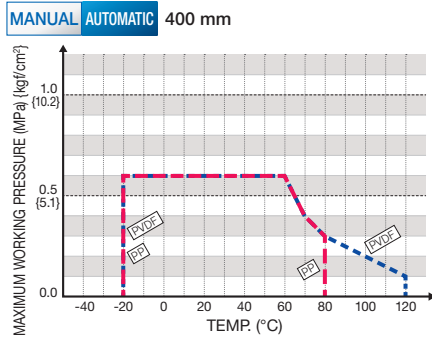


NOTE Make sure that the temperature and pressure are within the working range during operation. (If the tolerance range is exceeded during use, the valve may be damaged.)

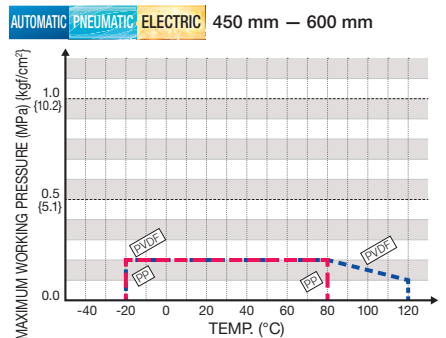
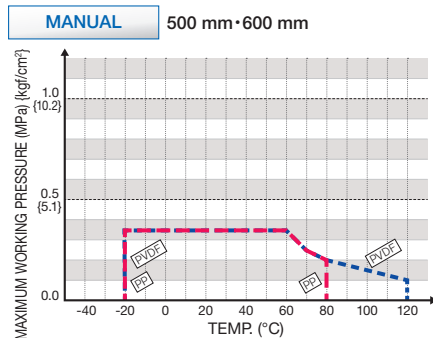
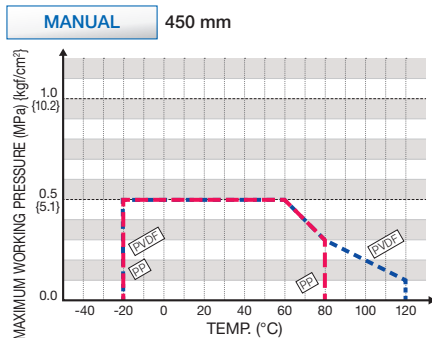
BUTTERFLY VALVE TYPE 57



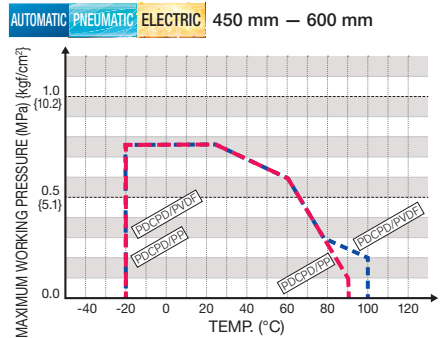
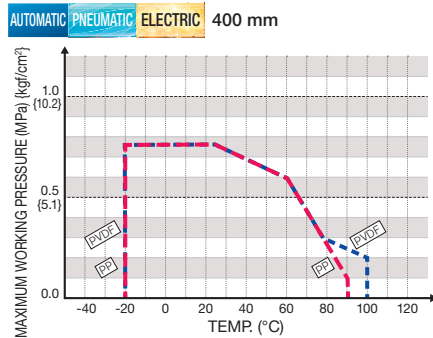
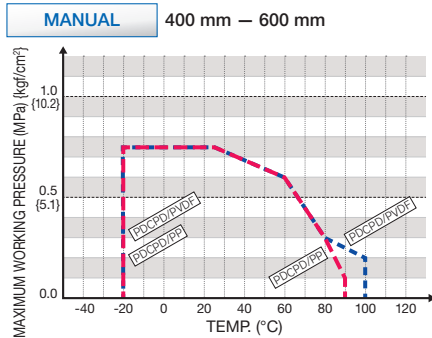
BUTTERFLY VALVE TYPE 56



BUTTERFLY VALVE TYPE 75



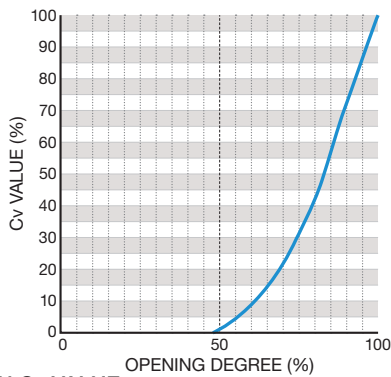
BUTTERFLY VALVE TYPE 56D, 75D



Cv VALUE FOR EACH OPENING DEGREE

LAB COCK

15 mm

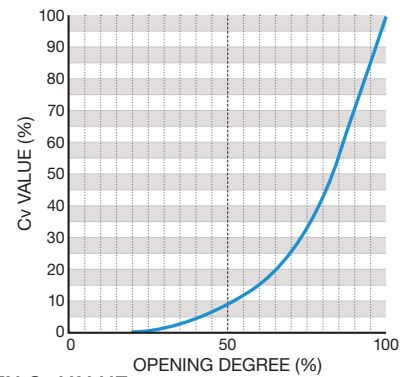


FULL-OPEN Cv VALUE

mm	15		
inch	1/4	1/2	3/8
FULL-OPEN Cv VALUE	1.6		

COMPACT BALL VALVE

13 mm – 80 mm



FULL-OPEN Cv VALUE

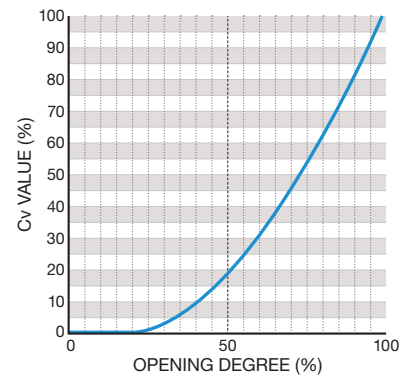
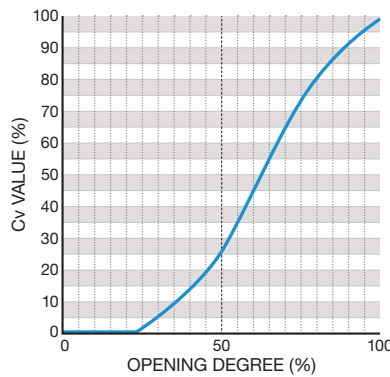
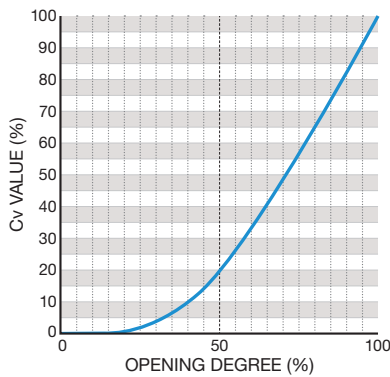
mm	13(10)	15	20	25	32
inch		1/2	3/4	1	1 1/4
FULL-OPEN Cv VALUE	7.7	14	29	47	72
mm	40	50	65	80	
inch	1 1/2	2	2 1/2	3	
FULL-OPEN Cv VALUE	140	185	—	411	

BUTTERFLY VALVE TYPE 57, TYPE 56, TYPE 75 / LUG BUTTERFLY VALVE TYPE 57L / BUTTERFLY VALVE TYPE 55, TYPE 55IS

BUTTERFLY VALVE TYPE 57: 40 mm – 350 mm
LUG BUTTERFLY VALVE TYPE 57L: 80 mm – 150 mm

BUTTERFLY VALVE TYPE 56: 400 mm
BUTTERFLY VALVE TYPE 75: 450 mm – 600 mm

BUTTERFLY VALVE TYPE 55, TYPE 55IS: 50 mm – 250 mm



FULL-OPEN Cv VALUE

mm		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
inch		1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
Full open Cv VALUE	BUTTERFLY VALVE TYPE 57	71	120	250	300	470	830	1,100	2,500	3,860	5,700	6,440	—	—	—	—
	BUTTERFLY VALVE TYPE 56	—	—	—	—	—	—	—	—	—	—	—	8,340	—	—	—
	BUTTERFLY VALVE TYPE 75	—	—	—	—	—	—	—	—	—	—	—	—	10,890	14,060	18,500
	LUG BUTTERFLY VALVE TYPE 57L	—	—	—	300	470	—	1,100	—	—	—	—	—	—	—	—
	BUTTERFLY VALVE TYPE 55, TYPE 55IS	—	100	—	285	600	940	1,500	2,500	4,200	—	—	—	—	—	—

BUTTERFLY VALVE

BUTTERFLY VALVE TYPE 57, TYPE 56, TYPE 75 / PDCPD LARGE SIZE, ROTARY DAMPER

■ JIS10K UNIT: mm

mm	inch	BOLT A			BOLT B				QTY		
		d	L	S	d ₁	L ₁	S ₁	S ₂	BOLT A	BOLT B	NUT / WASHER
40	1 1/2	M16	115	40					4		8
50	2	M16	125	40							
65	2 1/2	M16	135	45							
80	3	M16	135	45							
100	4	M16	145	45							
125	5	M20	165	50					8		16
150	6	M20	175	50							
200	8	M20	195	55					12		24
250	10	M22	225	60							
300	12	M22	245	60					16		32
350	14	M22	255	65							
700	28	M30	370	70	M30	130			20		48
800	32	M30	410	80	M30	140					
900	36	M30	420	80	M30	150			24	8	56
1,000	40	M36	500	90	M36	180					
1,100	44	M36	520	100	M36	190					
1,200	48	M36	570	100	M36	200			28		64

NOTES (1) In the above list, the values for size 40 to 350 mm indicate the bolt dimensions when an AVTS flange is used. The values for size 400 to 600 mm indicate the bolt dimensions when a JIS B2238 "steel pipe flange" (nominal pressure 10K, corrugated) is used. The values for size 700 to 1200 mm indicate the bolt dimensions when a JIS B2238 "iron pipe flange" (nominal pressure 10K or 5K) is used.
 (2) The quantity of nuts and washers for Bolt A indicates the number of 2 sets (1 bolt / 2 nuts, 2 washers). The quantity for Bolt B indicate the number of 1 set (1 bolt / 1 nut, 1 washer).

■ JIS5K UNIT: mm

mm	inch	BOLT A			BOLT B				QTY		
		d	L	S	d ₁	L ₁	S ₁	S ₂	BOLT A	BOLT B	NUT / WASHER
40	1 1/2	M12	100	30					4		8
50	2	M12	105	30							
65	2 1/2	M16	110	35							
80	3	M16	120	35							
100	4	M16	130	40							
125	5	M16	140	40					8		16
150	6	M16	150	40							
200	8	M20	195	55					8		16
250	10	M20	225	55							
300	12	M20	240	60					12		24
350	14	M22	255	65							
400	16	M22	260	65					16		32
450	18	M22	270	55							
500	20	M24	280	60					20		40
600	24	M24	320	60							

NOTES (1) In the above list, the values for size 40 to 350 mm indicate the bolt dimensions when an AVTS flange is used. The values for size 400 to 600 mm indicate the bolt dimensions when a JIS B2238 "steel pipe flange" (nominal pressure 10K, corrugated) is used.
 (2) The quantity of nuts and washers for Bolt A indicates the number of 2 sets (1 bolt / 2 nuts, 2 washers).
 (3) The values for 350 to 600 mm indicate the dimensions when a rotary damper is used.

■ WATERWORKS UNIT: mm

mm	inch	BOLT A			BOLT B				QTY		
		d	L	S	d ₁	L ₁	S ₁	S ₂	BOLT A	BOLT B	NUT / WASHER
50	2	M16	125	40					4		8
80	3	M16	135	45							
100	4	M16	150	45					6		12
125	5	M16	160	45							
150	6	M20	165	50					8		16
200	8	M20	185	50							
250	10	M20	225	55					8		16
300	12	M20	240	55							
350	14	M22	240	60					10		20
400	16	M22	290	60							
450	18	M24	310	60					12		24
700	28	M30	350	60							
800	32	M30	380	60	M30	130			16		32
900	36	M30	390	70	M30	130					
1,000	40	M30	450	70	M30	140			20	8	40
1,100	44	M36	450	70	M36	160					
1,200	48	M36	510	70	M36	160			24		56

NOTES (1) In the above list, the values for size 40 to 300 mm indicate the bolt dimensions when an AVTS flange is used. The values for size 350 to 1200 mm indicate the bolt dimensions when a JIS G5527 "ductile iron fitting" (nominal pressure 7.5K) is used.
 (2) The quantity of nuts and washers for Bolt A indicates the number of 2 sets (1 bolt / 2 nuts, 2 washers). The quantity for Bolt B indicate the number of 1 set (1 bolt / 1 nut, 1 washer).

BUTTERFLY VALVE TYPE 56D, 75D

■ JIS10K UNIT: mm

mm	inch	BOLT A			BOLT B		QTY		
		d	L	S	d ₁	L ₁	BOLT A	BOLT B	NUT / WASHER
400	16	M24	290	60	M24	120	14	4	32
450	18	M24	310	65	M24	120	16	8	40
500	20	M30	320	65	M30	140	20		48
600	24	M30	350	75	M30	140	20		

NOTES (1) In the above list, the values for size 400 to 600 mm indicate the bolt dimensions when a JIS B2238 "steel pipe flange" (nominal pressure 10K, corrugated) is used.
 (2) The quantity of nuts and washers for Bolt A indicates the number of 2 sets (1 bolt / 2 nuts, 2 washers). The quantity for Bolt B indicate the number of 1 set (1 bolt / 1 nut, 1 washer).

■ WATERWORKS UNIT: mm

mm	inch	BOLT A			BOLT B		QTY		
		d	L	S	d ₁	L ₁	BOLT A	BOLT B	NUT / WASHER
400	16	M22	290	60			12		24
450	18	M24	310	60					
500	20	M24	320	60					
600	24	M24	340	60			16		32

NOTES (1) In the above list, the values for size 400 to 600 mm indicate the bolt dimensions when a JIS G5527 "ductile iron fitting" (nominal pressure 7.5K) is used.
 (2) The quantity of nuts and washers for Bolt A indicates the number of 2 sets (1 bolt / 2 nuts, 2 washers).

BUTTERFLY VALVE TYPE 55

■ JIS10K UNIT: mm

mm	inch	BOLT A			QTY	
		d	L	S	BOLT A	NUT / WASHER
50	2	M16	130	35	4	8
80	3	M16	140	35		
100	4	M16	145	40	8	16
125	5	M20	165	40		
150	6	M20	180	40		
200	8	M22	195	45	12	24
250	10	M22	215	45		

■ JIS5K UNIT: mm

mm	inch	BOLT A			QTY	
		d	L	S	BOLT A	NUT / WASHER
50	2	M12	110	30	4	8
80	3	M16	125	35		
100	4	M16	135	40	8	16
125	5	M16	140	40		
150	6	M20	155	45	8	16
200	8	M20	195	45		
250	10	M20	210	45	12	24

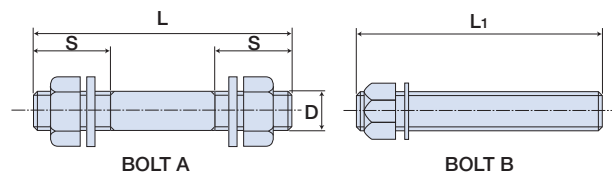
BUTTERFLY VALVE TYPE 55IS

■ JIS10K UNIT: mm

mm	inch	BOLT A			QTY	
		d	L	S	BOLT A	NUT / WASHER
50	2	M16	130	35	4	8
80	3	M16	135	35		
100	4	M16	140	40	8	16
125	5	M20	155	40		
150	6	M20	160	40		

■ JIS5K UNIT: mm

mm	inch	BOLT A			QTY	
		d	L	S	BOLT A	NUT / WASHER
50	2	M12	110	30	4	8
80	3	M16	120	35		
100	4	M16	130	40	8	16
125	5	M16	135	40		
150	6	M20	135	45		



CONNECTING THROUGH BOLT TIGHTENING TORQUE

UNIT: N·m [kgf·cm]

mm	40	50, 65	80, 100	125, 150	200, 250	300, 350	400, 450	500, 600	700, 800, 850	900, 1,000	1,100	1,200
inch	1 1/2	2, 2 1/2	3, 4	5, 6	8, 10	12, 14	16, 18	20, 24	28, 32, 34	36, 40	44	48
	20 {204}	22.5 {230}	30 {306}	40 {408}	55 {561}	60 {612}	80 {816}	100 {1020}	130 {1327}	170 {1735}	200 {2042}	220 {2245}

NOTE The bolt tightening torque for butterfly valve type 55IS of size 50 mm is 30 N·m.

PRODUCT WEIGHT LIST (REFERENCE)

BUTTERFLY VALVE

TYPE 57, TYPE 56, TYPE 75, TYPE 55, TYPE 55IS, TYPE 56D, TYPE 75D, ROTARY DAMPER (STANDARD) — LEVER TYPE / GEAR TYPE [MANUAL](#) UNIT: kg

mm	inch	TYPE 57, TYPE 56, TYPE 75			TYPE 55	TYPE 55IS	TYPE 56D TYPE 75D	ROTARY DAMPER (STANDARD TYPE)		
		U-PVC	PP	PVDF	FCD-S	FCD-S	PDCPD	U-PVC	PP	PVDF
40	1 1/2	1.3 / 3.4	1.1 / 3.1	1.4 / 3.5	—	—	—	1.1 / 3.1	0.9 / 3.0	1.4 / 3.3
50	2	1.5 / 3.5	1.2 / 3.3	1.7 / 3.8	3.0 / 4.9	2.8 / 4.9	—	1.3 / 3.3	1.0 / 3.1	1.7 / 3.6
65	2 1/2	1.7 / 3.8	1.4 / 3.4	1.9 / 4.0	—	4.0 / 6.0	—	1.5 / 3.5	1.2 / 3.3	2.0 / 3.7
80	3	1.9 / 3.9	1.6 / 3.6	2.2 / 4.2	4.5 / 6.4	4.2 / 6.2	—	1.7 / 3.7	1.3 / 3.4	2.3 / 4.0
100	4	2.5 / 4.5	2.0 / 4.0	2.9 / 4.9	6.0 / 7.9	5.6 / 7.7	—	2.3 / 4.2	1.7 / 3.8	3.1 / 4.8
125	5	4.9 / 6.5	4.0 / 5.6	5.7 / 7.3	10.5 / 11.4	8.8 / 10.4	—	4.4 / 6.0	3.5 / 5.1	5.3 / 6.9
150	6	5.8 / 7.4	4.6 / 6.2	6.9 / 8.5	— / 14.4	— / 12.5	—	5.3 / 6.9	4.2 / 5.8	6.6 / 8.1
200	8	9.3 / 10.7	7.4 / 8.9	11.0 / 12.5	— / 22.9	— / 23.0	—	8.4 / 9.9	6.6 / 8.1	10.1 / 12.0
250	10	— / 14.7	— / 12.2	— / 18.6	— / 32.9	—	—	11.2 / 13.7	8.0 / 10.5	22.5 / 25.0
300	12	— / 28.0	— / 24.0	— / 34.5	—	—	—	17.0 / 22.5	15.0 / 20.5	32.7 / 38.2
350	14	— / 30.2	— / 26.3	— / 36.8	—	—	—	19.0 / 24.5	16.0 / 21.5	35.2 / 40.7
400	16	—	— / 36.0	— / 46.0	—	—	— / 47	—	22.0 / 27.5	48.5 / 54.0
450	18	—	— / 95.5	— / 103.0	—	—	— / 100	—	28.0 / 33.5	50.0 / 55.5
500	20	—	— / 112.0	— / 124.0	—	—	— / 114	—	36.0 / 41.5	57.5 / 63.0
600	24	—	— / 136.0	— / 157.0	—	—	— / 140	—	66.0 / 71.5	79.0 / 84.5

LUG BUTTERFLY VALVE TYPE 57L — LEVER TYPE / GEAR TYPE [MANUAL](#) UNIT: kg

mm	inch	PDCPD	
		DISC: PP	DISC: PVDF
80	3	2.7 / 4.7	2.8 / 4.9
100	4	3.3 / 5.3	3.5 / 5.6
125	5	6.3 / 8.5	6.9 / 9.0
150	6	7.3 / 8.9	8.1 / 9.6
200	8	13.7 / 15.1	15.0 / 16.5
250	10	— / 20.3	— / 22.7

PDCPD BUTTERFLY VALVE [MANUAL](#) UNIT: kg

mm	inch	MANUAL	ELECTRIC
		700	28
800	32	460	560
900	36	550	650
1,000	40	830	960
1,100	44	1,000	1,375
1,200	48	1,100	1,475

PRODUCT CERTIFICATION TARGET LIST

AS OF DECEMBER 1, 2015

ITEM NAME	NSF/ANSI61		ABS American Bureau of Shipping		NK Nippon Kaiji Kyokai
	MATERIAL	SIZE (mm)	MATERIAL	SIZE OR STANDARD (mm)	PRODUCT GROUP
3 WAY BALL VALVE TYPE 23	U-PVC/EPDM	15 — 100			
	U-PVC/FKM	15 — 100			
BALL VALVE TYPE 21 α	U-PVC/EPDM	15 — 50	U-PVC/EPDM	15 — 50	
	U-PVC/FKM	15 — 50	U-PVC/FKM	15 — 50	
			C-PVC/EPDM	15 — 50	
			C-PVC/FKM	15 — 50	
BALL VALVE TYPE 21	U-PVC/EPDM	65 — 100	U-PVC/EPDM	65 — 100	
	U-PVC/FKM	65 — 100	U-PVC/FKM	65 — 100	
			C-PVC/EPDM	65 — 100	
			C-PVC/FKM	65 — 100	
COMPACT BALL VALVE	U-PVC/EPDM	13 — 80			AV VINYL PIPE AV HI VINYL PIPE AV SUPER PIPE (HT)
LAB COCK	U-PVC/EPDM	—			AV VINYL JOINT AV HI VINYL JOINT
GATE VALVE TYPE P	U-PVC/PP/EPDM	40 — 350			AV SUPER JOINT (HT) AV VINYL VALVE AV HI VINYL VALVE
SEDIMENT STRAINER (TYPE Y)	U-PVC/EPDM	15 — 100			AV SUPER VALVE (HT)
	U-PVC/FKM	15 — 100			AV TS FLANGE AV HI TS FLANGE
BALL CHECK VALVE	U-PVC/EPDM	80 — 100			AV SUPER TS FLANGE (HT)
	U-PVC/FKM	80 — 100			
TRUE UNION BALL CHECK VALVE	U-PVC/EPDM	15 — 50			* Recommended applications Fresh/sea water pipes (including hot water pipes) for daily life drinking water
	U-PVC/FKM	15 — 50			equipment and sanitary pipes in accommodation sections and engine rooms, and scuppers in hatches
BUTTERFLY VALVE TYPE 57	BODY: U-PVC	40 — 350	BODY: U-PVC, PP	50 — 300	
	DISC: PP		DISC: U-PVC, PP, PVDF		
	SEAT: EPDM		SEAT: EPDM, FKM		
PIPE			U-PVC	JIS K 6741	
			U-PVC	JIS K 6742	
			C-PVC	JIS K 6776	
JOINT			U-PVC	JIS K 6743	
			C-PVC	JIS K 6777	
TS FLANGE			U-PVC	JIS 10K 13 — 150	
			U-PVC	JIS 5K 13 — 150	
			C-PVC	JIS 10K 13 — 50	
			C-PVC	JIS 5K 13 — 50	

For details of applicable products and intended use as well as certificates other than the above, please contact us.

ASAHI MANUAL VALVE DISCONTINUED PRODUCT LIST (PRODUCTS DISCONTINUED IN 2005 OR LATER)

DISCONTINUED PRODUCT MODEL	MATERIAL	SIZE (mm)	TIME OF PRODUCTION DISCONTINUATION	TIME OF PARTS SUPPLY DISCONTINUATION	RECOMMENDED SUCCESSION MODEL
BUTTERFLY VALVE TYPE 56	PP, PVDF	250 — 350	APR 2005	APR 2010	BUTTERFLY VALVE TYPE 57
FRP LARGE SIZE BUTTERFLY VALVE	FRP	1,350, 1,500	JUL 2005	JUL 2005	—
LIVE BALL	U-PVC, PVDF	15 — 50	DEC 2005	DEC 2010	BALL VALVE TYPE 21 α (PERFORATED)
BUTTERFLY VALVE TYPE 84	U-PVC	50 — 200	DEC 2005	DEC 2010	—
FRP LARGE SIZE BUTTERFLY VALVE	FRP	1,100 — 1,200	JUL 2006	JUL 2006	PDCPD LARGE SIZE BUTTERFLY VALVE
GATE VALVE (SOFT SEAL TYPE) COMPATIBLE WITH PE PIPE	HI-PVC	50 — 150	NOV 2006	NOV 2006	—
BALL FOOT VALVE	U-PVC, C-PVC, PVDF	15 — 100	MAY 2009	MAY 2014	BALL FOOT VALVE
BALL VALVE TYPE 21	U-PVC, C-PVC	15 — 50	NOV 2009	NOV 2014	BALL VALVE TYPE 21 α
SWING CHECK VALVE (GASKET TYPE)	U-PVC, PP, PVDF (PVDF COATED EPDM)	15 — 200	SEP 2010	SEP 2015	SWING CHECK VALVE (O-RING TYPE) (PFA COATED FKM)
SWING CHECK VALVE (O-RING TYPE)	U-PVC, PP, PVDF	15 — 200	SEP 2010	SEP 2015	SWING CHECK VALVE (O-RING TYPE)
AUTOMATIC WATER FEEDING VALVE (SEMIAUTOMATIC TYPE)	U-PVC	50 — 80	OCT 2015	OCT 2020	—

NOTE Consumable parts are prepared so that they can be supplied for 5 years after the production discontinuation. However, it may become difficult to supply the parts depending on the consumption condition of the parts. In such cases, please contact us for other methods, such as the use of an alternative item.

ASAHI VALVE PRECAUTIONS IN HANDLING AND USE OF VALVES

Below are general precautions for safely using **ASAHI VALVE** valves.

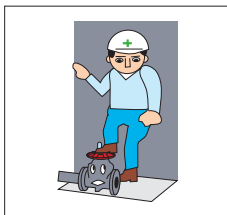
Precautions specific to each product are provided in a separate instruction manual. For details, please contact our nearest distribution agent or sales office.

1. Notes for pipe design

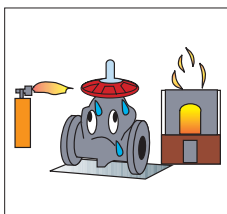
- Make sure that the working temperature and pressure are within the tolerance range during operation. (The maximum working pressure is the value including the water hammer pressure. If the tolerance range is exceeded during use, the valve may be damaged.)
- Select an appropriate material to use. (Some kinds of chemical may erode the surface of parts, causing breakage.) For details, consult our nearest sales office in advance.
- When using a fluid that contains crystalline fluid, use it in a condition where the fluid does not recrystallize. (The valve may become unable to work properly.)
- Consult us when using a fluid containing slurry.
- This product is not explosion-proof. Do not use it in explosive atmospheres. (Doing so may cause breakage or explosion.)
- Operating pressure of pneumatic type automatic valve: The standard operating pressure of pneumatic type is 0.4 MPa {4.1 kgf/cm²}. When increasing the operating pressure, ensure that the pressure is within the specified range of operating pressure.

2. Notes for acceptance, transportation and storage

- Do not ride on the valve or place a heavy object on the valve. (Doing so may cause breakage.)



- Keep fire and hot object away from the valve. (Doing so may cause deformation, breakage or fire.)



- Avoid direct sunlight and store it indoors. Also avoid storing the valve in a place that may be exposed to high temperatures. (Doing so may cause deformation.)

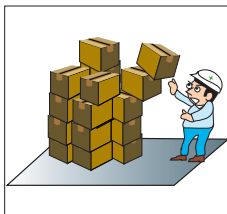


- Do not give an impact by throwing, dropping or hitting the valve. (Doing so may cause damage or breakage.)

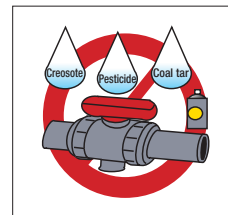
- Do not scratch or stick a sharp object (such as a knife and hook) into the valve.



- Do not pile packed cardboard boxes on top of another too much, to prevent collapsing of the boxes.



- Do not allow the valve to come in contact with coal tar, creosote (wood preservative agent), white ant exterminating agent, pesticide, or coating material. (Doing so may cause swelling and resulting breakage.)

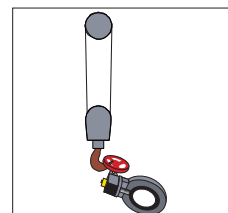


- Be very careful when hanging or slinging the valve. Do not stand under the suspended object.

- Keep the valve in a cardboard box until just before piping installation. Avoid direct sunlight and store it indoors (at room temperatures). Also avoid storing the valve in a place that may be exposed to high temperatures. (Cardboard boxes become weak when get wet. (Take due care when handling and storing the boxes.)



- When transporting the valve, do not use the handle to secure the valve.



- After unpacking, check that the product has no abnormality and conforms to the specifications.



3. Notes for commissioning of pipe

1) General precautions

- Secure an adequate space for maintenance and inspection.
- Test completed items with hydraulic pressure. (Airtight test using air (gas) is very dangerous.)
- When a positive pressure gas is used for our resin pipe, note that a dangerous situation may occur due to the reaction force peculiar to compressed fluids even when the pressure is the same as the hydraulic pressure. Always take appropriate measures to ensure the safety of surrounding area, such as coating the pipe with a protecting material. If you have any uncertainty, please contact us.

After the completion of piping work, perform a leak test of the conduit with hydraulic pressure. If it is inevitable to perform a test with air, be sure to consult our nearest sales office in advance.

- Avoid using in places that are constantly exposed to water, dust or direct sunlight. Or, cover the whole product. (The valve may become unable to work properly.)



- When using the valve in unfavorable conditions, it is recommended to cover the whole valve with a protective plastic bag. The automatic driving parts, in particular, may have a malfunction due to corrosion.
- When supporting the pipe with a U-band, be careful not to over-tighten. (It may cause breakage.)
- Before starting the work, be sure to perform safety check of mechanical and electric tools to be used.

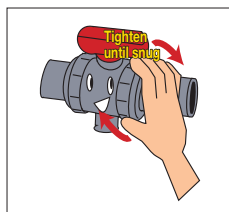
- During piping work, always use protective equipment appropriate for the work. (Failure to do so may cause injury.)



- During installation, be careful not to give a forcible stress, such as tension, compression, bending and impact, on the piping and valves.
- Before replacement of valve or parts, completely remove the fluid from the pipe. If the fluid cannot be removed, reduce the fluid pressure to zero.

2) Notes for connection of true union type

- During piping installation, assembly or disassembly, steady the end connector.
- Before a water flow test, be sure to check that the union nut is securely tightened.

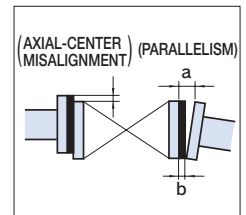


- When tightening the union nut, pay attention to axial-center misalignment and face-to-face dimensions.
- When connecting a resin valve to a metal pipe, be careful that piping stress is given to the resin valve.
- Do not over-tighten the union nut. (It may cause breakage.)

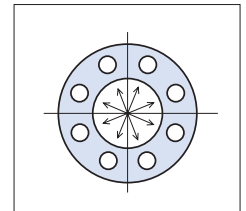
3) Notes for connection of flange

- Ensure that the parallelism and axial-center misalignment dimensions do not exceed the values below. (Failure to do so may cause breakage due to the stress given on the piping.)

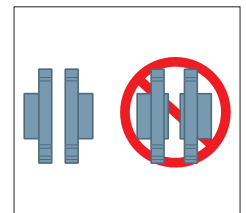
SIZE (mm)	AXIAL-CENTER MISALIGNMENT	PARALLELISM
40 — 80	1.0mm	0.8mm
100 — 150	1.0mm	1.0mm
200 — 600	1.5mm	1.0mm



- Tighten the bolts and nuts of the connection flange diagonally according to the specified torque. (Failure to do so may cause leak or breakage.)



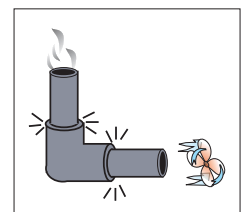
- The connection flanges recommended to be flat face type.



- Check that the flange standard of both sides are not different.
- Be sure to tighten the flanges using sealing gaskets (AV packings), bolts, nuts, and washers, according to the specified tightening torque (except for butterfly valves).

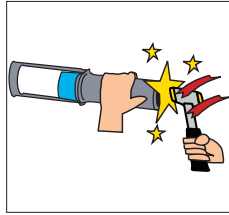
4) Notes for connection of socket (bonding) type

- During installation at low temperatures, be very careful because the solvent fume is difficult to evaporate and liable to remain. (It may cause a solvent crack and resulting breakage.) After piping work, open the both sides of the pipe and ventilate the inside using a blower (of low pressure type) to remove the solvent fume.
- Do not apply too much adhesive. (Doing so may cause a solvent crack and resulting breakage.)

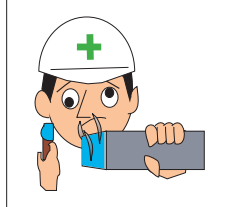


▶3. Notes for commissioning of pipe

- Never stroke the component to insert it. Doing so may cause the pipe to break.



- When using adhesive, ventilate the area well and avoid using fire nearby. Do not inhale the fume directly.



- If the adhesive contacts the skin, remove it immediately. If you feel sick or sense that something is wrong with your body, immediately seek medical attention and receive appropriate treatment.

- For adhesive, use only AV adhesive. (For U-PVC products, use **ASAHI AV** adhesive No. 32, No. 52 or No. 62. For C-PVC products, use **ASAHI AV** adhesive No. 88.)

- Before performing a water flow test, wait until at least 24 hours have passed since the completion of bonding.



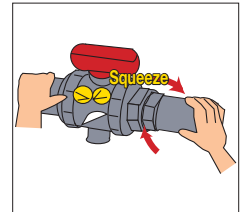
5) Notes for threaded connection

- Check that joint screws are made of resin. (If a metal screw is used for piping work, the end connector may be damaged.)

- For threaded joints of our resin pipe, use sealing tape. If fluid seal or liquid gasket is used, a stress crack (environmental stress crack) may occur.

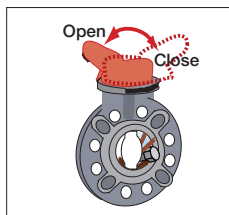
- Do not over-tighten joint screws. (Doing so may cause breakage.)

* For notes for socket (fusion) connection, refer to the instruction manual of each product. For details, please contact our nearest distribution agent or sales office.



4. Notes for operation and maintenance

- Do not open or close the valve when there is dust or foreign object in the fluid.



- Perform periodic maintenance. (Temperature changes or aging during long-term storage, operation stop or while in use may cause leakage. For inspection items, refer to the instruction manual of each product. For details, please contact our nearest distribution agent or sales office.)

- Before replacement of valve or parts, completely remove the fluid from the pipe. If the fluid cannot be removed, reduce the fluid pressure to zero.

- The valve body may be damaged due to freezing. In environments where freezing may occur, remove the water in the pipe or take anti-freezing measures using lagging materials.

- Move the valve handle and lever slowly to reduce water hammer.

- When disposing of the valve, always hand it over to a professional waste disposal company.



Be sure to read the following description of our product warranty

- Always observe the specifications of and the precautions and instructions on using our product.
- We always strive to improve the quality and reliability, but cannot guarantee perfection. Therefore, should you intend to use this product with any equipment or machinery that may pose the risk of serious or even fatal injury, or property damage, ensure an appropriate safety design or take other measures with sufficient consideration given to possible problems. We shall assume no responsibility for any inconvenience stemming from any action on your part without our written consent in the form of specifications or other documented approval.
- The related technical documents, operation manuals, and/or other documentation prescribe precautions on selecting, constructing, installing, operating, maintaining, and servicing our products. For details, consult with our nearest distributor or agent.
- Our product warranty extends for one and a half years after the product is shipped from our factory or one year after the product is installed, whichever comes first. Any product abnormality that occurs during the warranty period or which is reported to us will be investigated immediately to identify its cause. Should our product be deemed defective, we shall assume the responsibility to repair or replace it free of charge.
- Any repair or replacement needed after the warranty period ends shall be charged to the customer.
- The warranty does not cover the following inconveniences by:
 - (1) Using our product under any condition not covered by our defined scope of warranty.
 - (2) Failure to observe our defined precautions or instructions regarding the construction, installation, handling, maintenance, or servicing of our product.
 - (3) Any product other than ours.
 - (4) Remodeling, or otherwise modifying our product by anyone other than us.
 - (5) Using any part of our product for anything other than the intended use of the product.

In no event shall we be responsible or liable for any special, indirect, incidental or consequential damages arising in any way in connection with any products.

[Precautions]

* Our product warranty shall not apply in case of using a positive-pressure gas with our plastic piping. Using a positive-pressure gas with our plastic piping may pose a dangerous condition due to the repellent force peculiar to compressed fluids, even when the gas is under the same pressure as water. Therefore, be sure to take the necessary safety precautions such as covering the piping with protective material. For inquiries, please contact us.

For conducting a leak test on newly installed piping, be sure to check for leaks under water pressure.

* Wrap the threaded joints on our plastic piping with sealing tape.

* Using a liquid sealing agent or liquid gasket may cause stress cracks (environmental stress cracking). Our product warranty shall not apply in case of said use, even when said use is unavoidable.

Export Control

In an effort to remain compliant with international agreements on security, many countries have instituted export controls for advanced goods and technologies which may be used for the proliferation of weapons of mass destruction.

Even in Japan we are sanctioned by the International Export Control Regime and the Chemical Weapons Convention to meet current regulations at home and in countries where we sell our goods and technologies.

In meeting this social and legal obligation, we are asking for your cooperation in providing us information relating to the intended use of our products. Information such as copies of agreements, company organization chart and affidavits of end-use may be required for export permission.

Your cooperation in this endeavor is greatly appreciated and our sales or Asahi distributor people are committed to working with you to continue to provide the best products and services Asahi has to offer.



Global Network

JAPAN

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