

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.

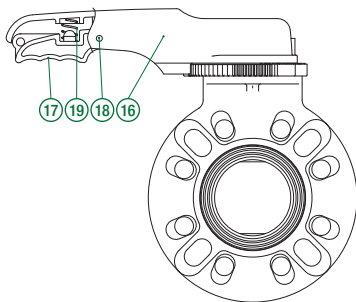
* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.



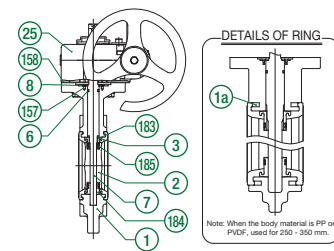
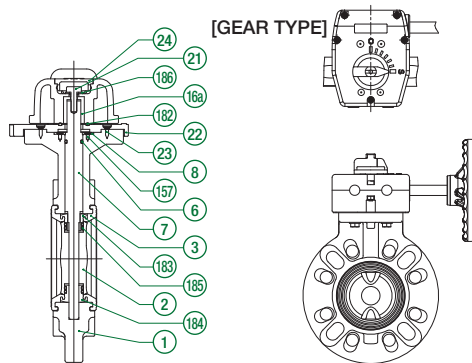
PARTS LIST

MANUAL

[LEVER TYPE]



[GEAR TYPE]



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	EPDM, FKM, etc.
⑥ O-RING (C)	1	EPDM, FKM, etc.
⑩ 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
⑬a EMBEDDED HANDLE FITTING	1	SUS316L
⑰ HANDLE LEVER	1	PPG
⑱ PIN	1	PPG
⑲ SPRING	1	SUS304
⑳ BOLT (B)	1	SUS304

PART NO. / NAME	QTY	MATERIAL
⑳ LOCKING PLATE	1	PPG
㉑ SET SCREW (B)	4	SUS304
㉒ CAP (A)	1	PP
⑬ O-RING (H)	1	EPDM
⑬a WASHER WITH RUBBER	1	SUS304+EPDM

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
㉓ GEAR BOX	1	RESIN, etc.
㉔ BOLT (C)	4	SUS304
⑬ GASKET (L)	1	EPDM
1a 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	
					
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH		
					

* 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 MANUAL VALVE	57 TYPE 57	LV LEVER TYPE SG SIDE GEAR TYPE	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

PRODUCT MODEL
CODE LIST
AUTOMATIC

ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	57	*	*	*	*	W	*	***
A AUTOMATIC VALVE	57 TYPE 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

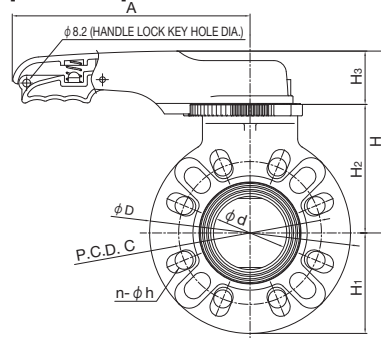
MANUAL

BUTTERFLY VALVE TYPE 57

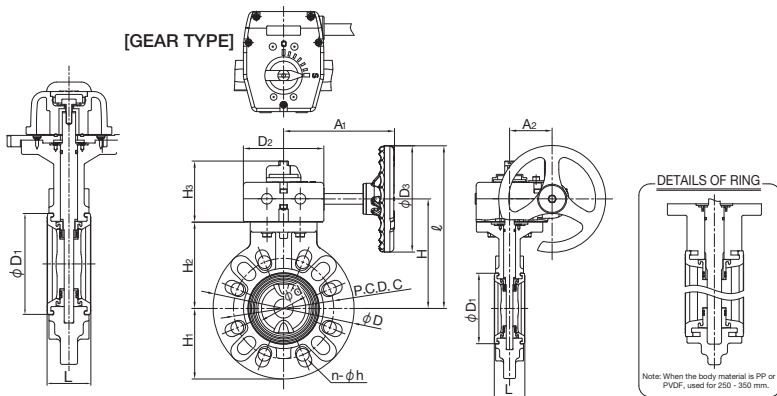
TYPE—V57LV, V57SG

CONNECTION / WAFER—JIS, DIN, ANSI

[LEVER TYPE]



[GEAR TYPE]



DETAILS OF RING

Note: When the body material is PP or PVDF, used for 250 ~ 350 mm.

■ JIS, DIN (Unit: mm)

JIS, DIN (Unit: mm)															JIS5K			JIS10K			WATERWORKS			DIN PN10					
mm	d	D	D ₁	D ₂	D ₃	L	I	A	A ₁	A ₂	H		H ₁	H ₂		H ₃		C	n	h	C	n	h	C	n	h	C	n	h
											LEVER TYPE	GEAR TYPE		LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE												
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)

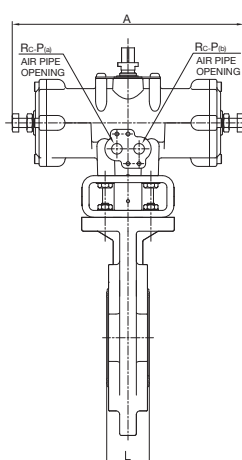
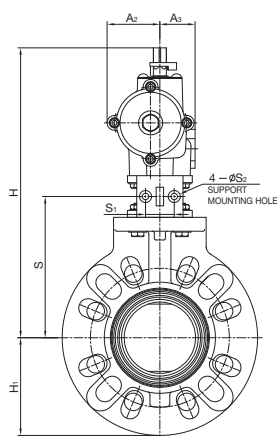
ANSI (UNIT: inch)																			ANSI CLASS 150			GEAR BOX TYPE
inch	mm	d	D	D ₁	D ₂	D ₃	L	I	A	A ₁	A ₂	H		H ₁	H ₂		H ₃		C	n	h	
												LEVER TYPE	GEAR TYPE			LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE			
1 1/2	40	1.77	5.91	2.80	4.80	6.30	1.54	8.27	8.66	6.57	2.52	6.14	5.12	2.95	3.94	3.74	2.20	3.62	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	7.68	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	TYPE3
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	



BUTTERFLY VALVE TYPE 57

TYPE—A57K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	TA2A-050D
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	TA2A-063D
100mm (4inch)	
125mm (5inch)	TA2A-100D
150mm (6inch)	
200mm (8inch)	TA2A-125D
250mm (10inch)	
300mm (12inch)	TA2A-160D
350mm (14inch)	
	TA-200D

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

mm	L	H	H ₁	A	A ₂	A ₃	S	S ₁	S ₂	P
40	39	263	75	210	46	36	117.5	32	7	1/4
50	42	273	83	210	46	36	127.5	32	7	1/4
65	46	298	93	250	57	38	137.5	32	7	1/4
80	46	313	106	250	57	38	152.5	32	7	1/4
100	56	361	119	292	71	45	167.5	32	7	1/4
125	66	413	128	362	85.5	57	185.5	42	9	1/4
150	71	428	143	362	85.5	57	200.5	42	9	1/4
200	87	493	175	440	90	60	—	—	—	1/4
250	112	584	211	532	113	68	—	—	—	1/4
300	129	641	244	532	113	68	—	—	—	1/4
350	129	732	270	664	139	68	—	—	—	3/8

■ ANSI (Unit: inch)

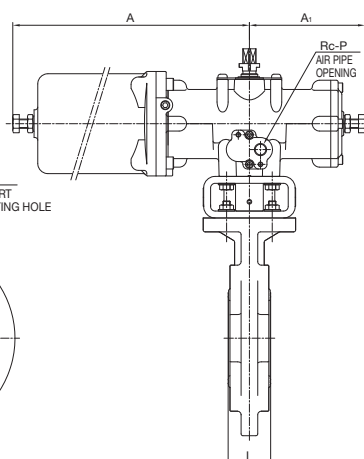
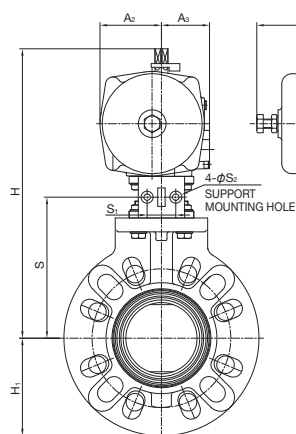
inch	mm	L	H	H ₁	A	A ₂	A ₃	S	S ₁	S ₂	P
1 1/2	40	1.54	10.35	2.95	8.27	1.81	1.42	4.63	1.26	0.28	1/4
2	50	1.65	10.75	3.27	8.27	1.81	1.42	5.02	1.26	0.28	1/4
2 1/2	65	1.81	11.73	3.66	9.84	2.24	1.50	5.41	1.26	0.28	1/4
3	80	1.81	12.32	4.17	9.84	2.24	1.50	6.00	1.26	0.28	1/4
4	100	2.20	14.21	4.69	11.50	2.80	1.77	6.59	1.26	0.28	1/4
5	125	2.60	16.26	5.04	14.25	3.37	2.24	7.30	1.65	0.35	1/4
6	150	2.80	16.85	5.63	14.25	3.37	2.24	7.89	1.65	0.35	1/4
8	200	3.43	19.41	6.89	17.32	3.54	2.36	—	—	—	1/4
10	250	4.41	22.99	8.31	20.94	4.45	2.68	—	—	—	1/4
12	300	5.08	25.24	9.61	20.94	4.45	2.68	—	—	—	1/4
14	350	5.08	28.82	10.63	26.14	5.47	2.68	—	—	—	3/8



BUTTERFLY VALVE TYPE 57

TYPE—A57K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	TA2A-050R
50mm (2inch)	
65mm (2 1/2inch)	TA2A-063R
80mm (3inch)	
100mm (4inch)	TA2A-080R
125mm (5inch)	
150mm (6inch)	TA2A-100R2
200mm (8inch)	
250mm (10inch)	TA2A-125R2
300mm (12inch)	
350mm (14inch)	TA2A-160R2
	TA-200R

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

mm	L	H	H ₁	A	A ₁	A ₂	A ₃	S	S ₁	S ₂	P
40	39	263	75	240	105	53	50	117.5	32	7	1/4
50	42	273	83	240	105	53	50	127.5	32	7	1/4
65	46	298	93	288	125	66.5	52	137.5	32	7	1/4
80	46	313	106	288	125	66.5	52	152.5	32	7	1/4
100	56	361	119	341	146	82.5	59	167.5	32	7	1/4
125	66	413	128	417	181	103	71	185.5	42	9	1/4
150	71	428	143	417	181	103	71	200.5	42	9	1/4
200	87	493	175	542	220	118.5	74	—	—	—	1/4
250	112	584	211	658	266	149	82	—	—	—	1/4
300	129	641	244	658	266	149	82	—	—	—	1/4
350	129	732	270	943	332	182	118	—	—	—	3/8

■ ANSI (Unit: inch)

inch	mm	L	H	H ₁	A	A ₁	A ₂	A ₃	S	S ₁	S ₂	P
1 1/2	40	1.54	10.35	2.95	9.45	4.13	2.09	1.97	4.63	1.26	0.28	1/4
2	50	1.65	10.75	3.27	9.45	4.13	2.09	1.97	5.02	1.26	0.28	1/4
2 1/2	65	1.81	11.73	3.66	11.34	4.92	2.62	2.05	5.41	1.26	0.28	1/4
3	80	1.81	12.32	4.17	11.34	4.92	2.62	2.05	6.00	1.26	0.28	1/4
4	100	2.20	14.21	4.69	13.43	5.75	3.25	2.32	6.59	1.26	0.28	1/4
5	125	2.60	16.26	5.04	16.42	7.13	4.06	2.80	7.30	1.65	0.35	1/4
6	150	2.80	16.85	5.63	16.42	7.13	4.06	2.80	7.89	1.65	0.35	1/4
8	200	3.43	19.41	6.89	21.34	8.66	4.67	2.91	—	—	—	1/4
10	250	4.41	22.99	8.31	25.91	10.47	5.87	3.23	—	—	—	1/4
12	300	5.08	25.24	9.61	25.91	10.47	5.87	3.23	—	—	—	1/4
14	350	5.08	28.82	10.63	37.13	13.07	7.17	4.65	—	—	—	3/8

AUTOMATIC

ELECTRIC

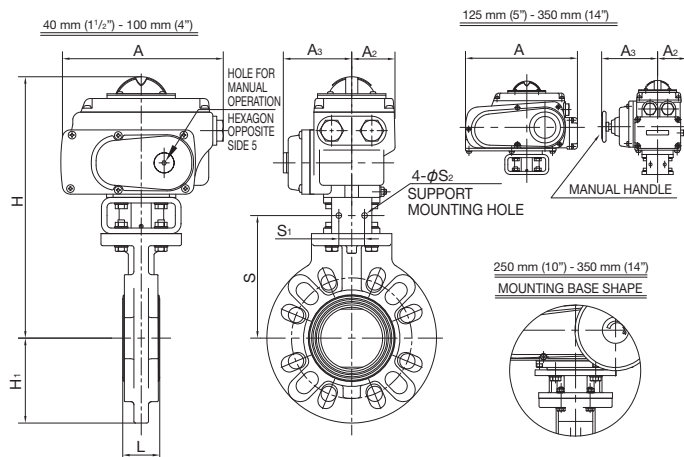
TYPE T

Single-Phase 100V
Single-Phase 200V

BUTTERFLY VALVE TYPE 57

TYPE—A57T

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	T-0
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	T-1
125mm (5inch)	
150mm (6inch)	
200mm (8inch)	
250mm (10inch)	T-2.5
300mm (12inch)	
350mm (14inch)	

For detailed specifications, see P.139

■ JIS, DIN (Unit: mm)

mm	L	H	H ₁	A	A ₂	A ₃	S	S ₁	S ₂
40	39	290	75	202	53.8	85	117.5	32	7
50	42	300	83	202	53.8	85	127.5	32	7
65	46	310	93	202	53.8	85	137.5	32	7
80	46	325	106	202	53.8	85	152.5	32	7
100	56	340	119	202	53.8	85	167.5	32	7
125	66	376	128	252	65	126	185.5	42	9
150	71	424	143	310	85	154	200.5	42	9
200	87	458	175	310	85	154	231.5	42	9
250	112	541	211	388	136	245.5	—	—	—
300	129	598	244	388	136	245.5	—	—	—
350	129	625	270	388	136	245.5	—	—	—

■ ANSI (Unit: inch)

inch	mm	L	H	H ₁	A	A ₂	A ₃
1 1/2	40	1.54	11.42	2.95	7.95	2.12	3.35
2	50	1.65	11.81	3.27	7.95	2.12	3.35
2 1/2	65	1.81	12.20	3.66	7.95	2.12	3.35
3	80	1.81	12.80	4.17	7.95	2.12	3.35
4	100	2.20	13.39	4.69	7.95	2.12	3.35
5	125	2.60	14.80	5.04	9.92	2.56	4.96
6	150	2.80	16.69	5.63	12.20	3.35	6.06
8	200	3.43	18.03	6.89	12.20	3.35	6.06
10	250	4.41	21.30	8.31	15.28	5.35	9.67
12	300	5.08	23.54	9.61	15.28	5.35	9.67
14	350	5.08	24.61	10.63	15.28	5.35	9.67

AUTOMATIC

ELECTRIC

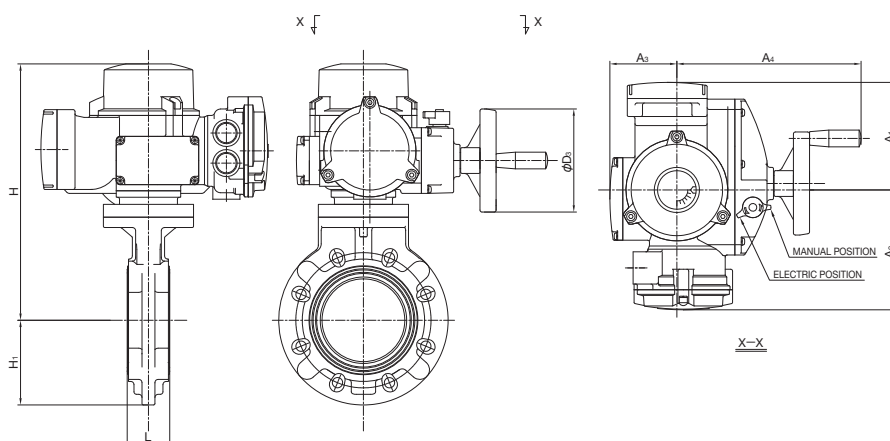
TYPE S

Three-Phase
AC200V
Three-Phase
AC400V

BUTTERFLY VALVE TYPE 57

TYPE—A57S

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	SRJ-010
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	SRJ-020
125mm (5inch)	
150mm (6inch)	
200mm (8inch)	SRJ-060
250mm (10inch)	

For detailed specifications, see P.133

■ JIS, DIN (Unit: mm)

mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
40	39	160	313	75	167	186	104	286
50	42	160	323	83	167	186	104	286
65	46	160	333	93	167	186	104	286
80	46	160	348	106	167	186	104	286
100	56	160	363	119	167	186	104	286
125	66	160	398	128	167	186	104	286
150	71	160	413	143	167	186	104	286
200	87	245	441	175	191	202	130	330
250	112	245	476	211	191	202	130	330

■ ANSI (Unit: inch)

inch	mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
1 1/2	40	1.54	6.30	12.32	2.95	6.57	7.32	4.09	11.26
2	50	1.65	6.30	12.72	3.27	6.57	7.32	4.09	11.26
2 1/2	65	1.81	6.30	13.11	3.66	6.57	7.32	4.09	11.26
3	80	1.81	6.30	13.70	4.17	6.57	7.32	4.09	11.26
4	100	2.20	6.30	14.29	4.69	6.57	7.32	4.09	11.26
5	125	2.60	6.30	15.67	5.04	6.57	7.32	4.09	11.26
6	150	2.80	6.30	16.26	5.63	6.57	7.32	4.09	11.26
8	200	3.43	9.65	17.36	6.89	7.52	7.95	5.12	12.99
10	250	4.41	9.65	18.74	8.31	7.52	7.95	5.12	12.99

AUTOMATIC

ELECTRIC

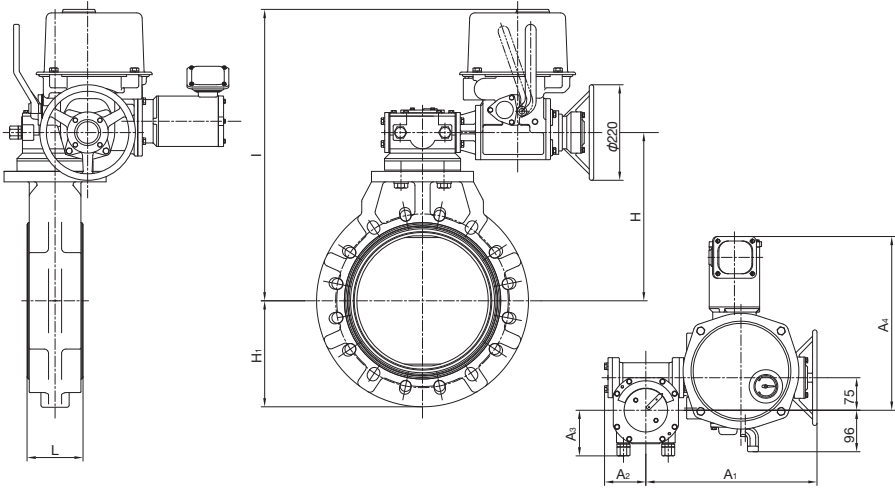
TYPE S

Three-Phase
AC200V
Three-Phase
AC400V

BUTTERFLY VALVE TYPE 57

TYPE——A57S

CONNECTION / WAFER——JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
300mm (12inch)	LTRM-01 / BRM1 (AUTOMATIC RETURN MECHANISM)
350mm (14inch)	LTRH-01 / BRM1 (MANUAL RETURN MECHANISM)

For detailed specifications, see P.135

JIS, DIN (Unit: mm)

mm	L	H	H ₁	I	A ₁	A ₂	A ₃	A ₄
300	129	387	244	671	394	95	105	400
350	129	414	270	698	394	95	105	400

ANSI (Unit: inch)

inch	mm	L	H	H ₁	I	A ₁	A ₂	A ₃	A ₄
12	300	5.08	15.24	9.61	26.42	15.51	3.74	4.13	15.75
14	350	5.08	16.30	10.63	27.48	15.51	3.74	4.13	15.75

ASAHI AV

BUTTERFLY VALVE TYPE 56

• EASY SWITCHING FROM GEAR TYPE TO AUTOMATIC VALVE

BASIC SPECIFICATIONS

VALVE TYPE ————— BUTTERFLY VALVE TYPE 56

SIZE ————— 400 mm (16 inch)

BODY MATERIAL ———— PP PVDF

SEAL MATERIAL / SEAT ——— EPDM FKM etc.

CONNECTION / WAFER ——— JIS10K, DIN, ANSI

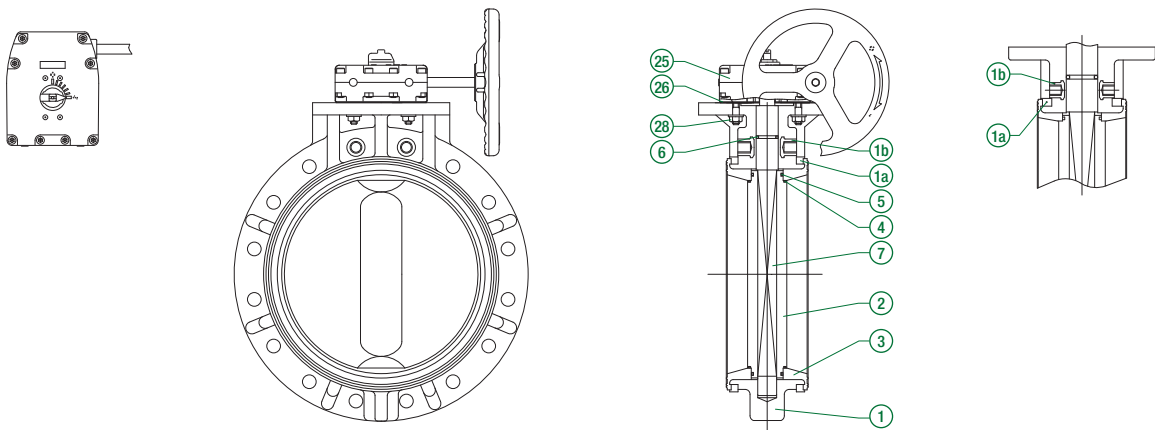
	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)
		400mm
PP	-20℃～ 80℃	0.6 {6.1}
PVDF	-20℃～120℃	0.6 {6.1}

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



PART NO. / NAME	QTY	MATERIAL	PART NO. / NAME	QTY	MATERIAL	PART NO. / NAME	QTY	MATERIAL
①BODY	1	BODY — DISC PP — PP PVDF — PVDF	⑤O-RING (B)	2	EPDM, FKM, etc.	②⑥GASKET (A)	1	EPDM
②DISC	1		⑥O-RING (C)	1	EPDM, FKM, etc.	②⑧BOLT (C)	1	SUS304
③SEAT	1	EPDM, FKM, etc.	⑦STEM	1	SUS403	①③RING	2	SS400 (EPOXY POWDER COATING)
④O-RING (A)	2	EPDM, FKM, etc.	②⑤GEAR BOX	1	RESIN, etc.	①④EMBEDDED BODY FITTING	1	C3604

SPECIFICATION LIST

LEVER TYPE	SIDE GEAR TYPE	TOP GEAR TYPE	
			
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH
			

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

COMPATIBLE ACTUATOR

PNEUMATIC TYPE TA

For detailed specifications, see P.123

ELECTRIC TYPE S

For detailed specifications, see P.135

PRODUCT MODEL
CODE LIST

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	56	SG	*	*	W	*	400
V	56	SG	P PP F PVDF	E EPDM V FKM	W	1 JIS10K W — D DIN A ANSI	400 400mm
V MANUAL VALVE 56 TYPE 56 SG SIDE GEAR TYPE							

PRODUCT MODEL
CODE LIST

AUTOMATIC

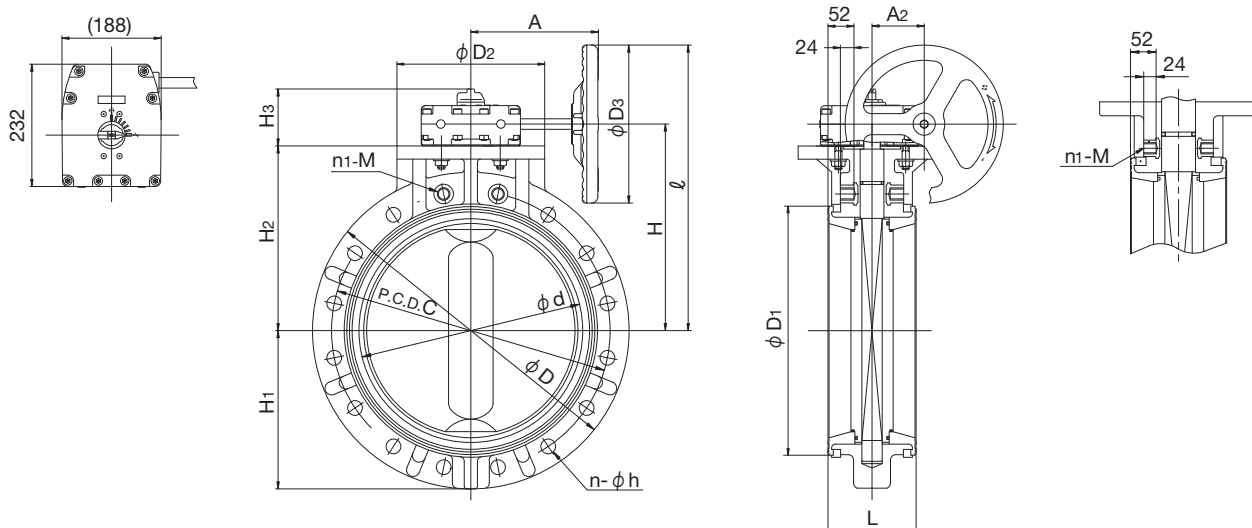
ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	56	*	*	*	*	W	*	400
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
A AUTOMATIC VALVE	56 TYPE 56	PNEUMATIC K TYPE TA ELECTRIC S TYPE S	PNEUMATIC F DOUBLE ACTING G AIR TO OPEN S AIR TO CLOSE ELECTRIC 3 Three-Phase AC200V 4 Three-Phase AC400V	P PP F PVDF	E EPDM V FKM	W WAFER	1 JIS10K W — D DIN A ANSI	400 400mm

MANUAL

BUTTERFLY VALVE TYPE 56

TYPE——V56SG

CONNECTION / WAFER——JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

														JIS10K					WATERWORKS			DIN PN10			HANDLE ROTATION
mm	d	D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	ℓ	A	A ₂	C	n	h	n ₁	M	C	n	h	C	n	h	
400	406	600	470	235	300	169	390	300	350	108	540	272	99.2	510	14	27	2	M24	—	—	—	515	16	26	9.5

■ ANSI (Unit: inch)

ANSI (Unit: inch)															ANSI CLASS 150			HANDLE ROTATION	GEAR BOX TYPE
inch	mm	d	D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	ℓ	A	A ₂	C	n	h		
16	400	15.98	23.62	18.50	9.25	11.81	6.65	15.35	11.81	13.78	4.25	21.26	10.71	3.91	21.25	16	1.12	9.5	TYPE3

AUTOMATIC

PNEUMATIC

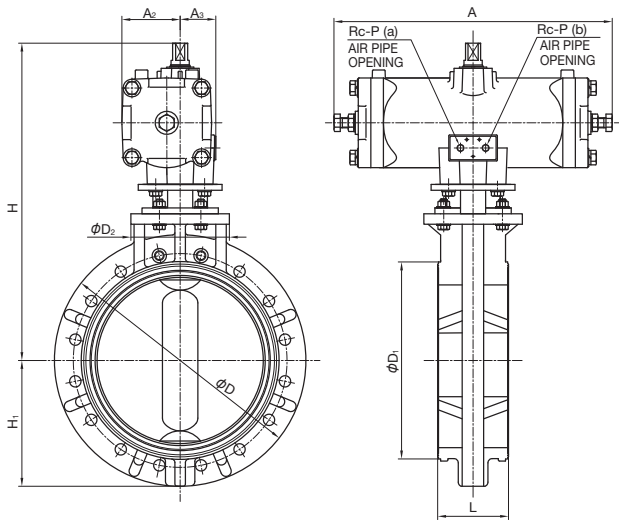
TYPE TA

DOUBLE ACTING
AIR TO OPEN
AIR TO CLOSE

BUTTERFLY VALVE TYPE 56

TYPE——A56K

CONNECTION / WAFER——JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16 inch)	TA-200D

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

mm	L	D	D ₁	D ₂	H	H ₁	A	A ₂	A ₃	P
400	169	600	470	235	757	300	664	139	85	3/8

■ ANSI (Unit: inch)

inch	mm	L	D	D ₁	D ₂	H	H ₁	A	A ₂	A ₃	P
16	400	6.65	23.62	18.50	9.25	29.80	11.81	26.14	5.47	3.35	3/8

AUTOMATIC

PNEUMATIC

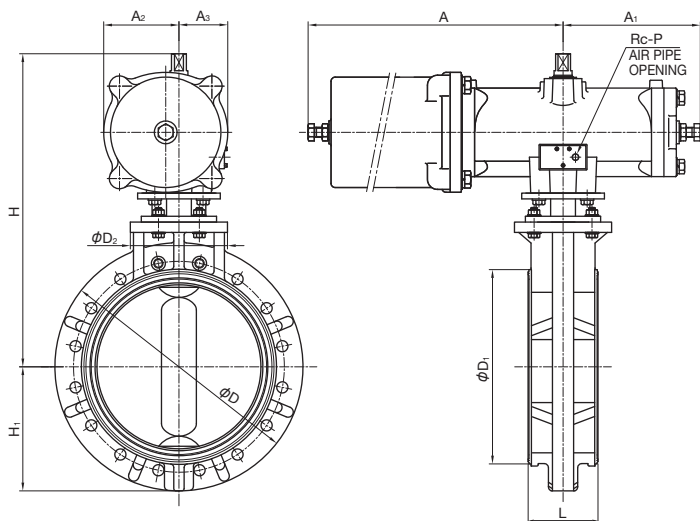
TYPE TA

DOUBLE ACTING
AIR TO OPEN
AIR TO CLOSE

BUTTERFLY VALVE TYPE 56

TYPE——A56K

CONNECTION / WAFER——JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	TA-200R

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

mm	L	D	D ₁	D ₂	H	H ₁	A	A ₁	A ₂	A ₃	P
400	169	600	470	235	757	300	943	332	182	118	3/8

■ ANSI (Unit: inch)

inch	mm	L	D	D ₁	D ₂	H	H ₁	A	A ₁	A ₂	A ₃	P
16	400	6.65	23.62	18.50	9.25	29.80	11.81	37.13	13.07	7.17	4.65	3/8

AUTOMATIC

ELECTRIC

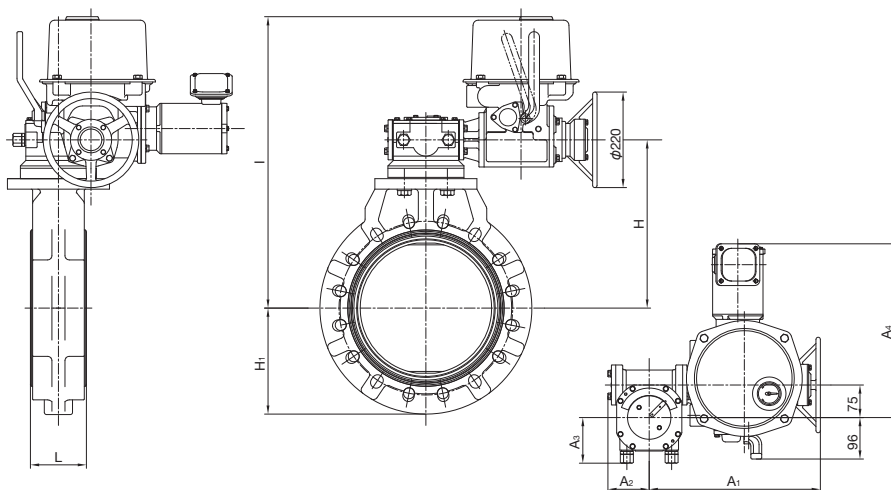
TYPE S

Three-Phase
AC200V
+
Three-Phase
AC400V

BUTTERFLY VALVE TYPE 56

TYPE—A56S

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	LTRM-01/BRM2 (AUTOMATIC RETURN MECHANISM) or LTRH-01/BRM2 (MANUAL RETURN MECHANISM)

For detailed specifications, see **P.135**

■ JIS, DIN (Unit: mm)

mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
400	169	433	300	717	430	116	126	409

■ ANSI (Unit: inch)

inch	mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
16	400	6.65	17.05	11.81	28.23	16.93	4.57	4.96	16.10

BUTTERFLY VALVE TYPE 75

- SMALL FACE-TO-FACE DIMENSION FACILITATES MOUNTING ON PIPING.

BASIC SPECIFICATIONS

VALVE TYPE ————— BUTTERFLY VALVE TYPE 75

SIZE ————— 450 mm—600 mm (18 inch—24 inch)

BODY MATERIAL ——— **PP** **PVDF**

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

CONNECTION / WAFER — JIS10K, DIN, ANSI

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)	
		450mm	500 mm, 600 mm
PP	-20°C ~ 80°C	0.5 {5.1}	0.35 {3.6}
PVDF	-20°C ~ 120°C		

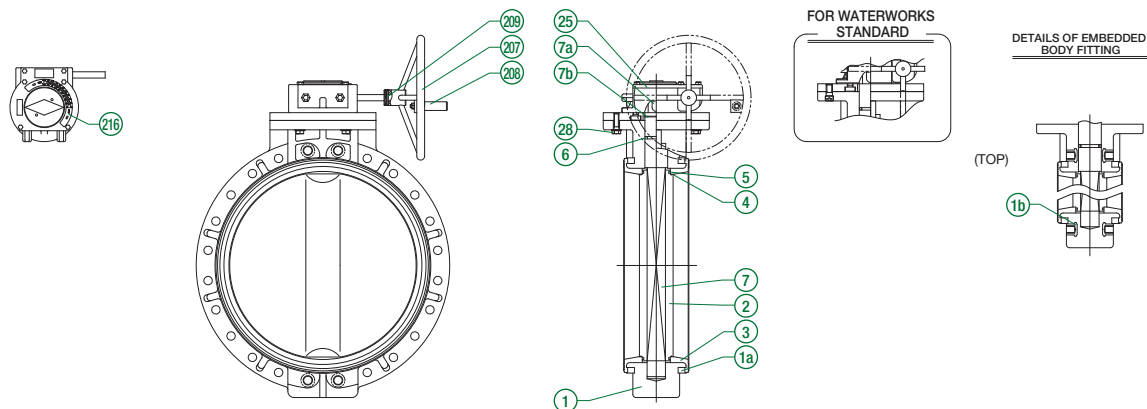
NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

MANUAL

AUTOMATIC

PARTS LIST



PART NO. / NAME	QTY	MATERIAL
① BODY	1	PP, PVDF
② DISC	1	PP, PVDF
③ SEAT	1	EPDM, FKM, etc.
④ O-RING (A)	2	EPDM, FKM, etc.
⑤ O-RING (B)	2	EPDM, FKM, etc.
⑥ O-RING (C)	1	EPDM, FKM, etc.

PART NO. / NAME	QTY	MATERIAL
⑦ STEM	1	SUS403
⑦a KEY (A)	1	S45C
⑦b C-SHAPED STOP RING	1	Used for SUS304 450 mm.
②5 GEAR BOX	1	FC250, etc. by Rotork (EPOXY PAINT)
②6 BOLT (C)	4	SUS304
②7 HANDLE (C)	1	FC250 (POLYURETHANE PAINT)

PART NO. / NAME	QTY	MATERIAL
②8 HANDLE GRIP	1	NYLON, etc.
②9 SPRING PIN	1	SUS304
②16 OPENING DEGREE DISPLAY PLATE	1	SUS304
①a RING	2	SS400 (EPOXY POWDER COATING)
①b EMBEDDED BODY FITTING ⁽¹⁾	8	C3604

NOTE (1) Only used for JIS10K standard.

SPECIFICATION LIST

LEVER TYPE		SIDE GEAR TYPE	TOP GEAR TYPE
			
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH
			

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

COMPATIBLE ACTUATOR

PNEUMATIC TYPE TW

For detailed specifications, see P.123

ELECTRIC TYPE S

For detailed specifications, see P.135

PRODUCT MODEL
CODE LIST
MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	75	SG	*	*	W	*	***
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
V MANUAL VALVE	75 TYPE 75	SG SIDE GEAR TYPE	P PP F PVDF	E EPDM V FKM	W WAFER	1 JIS10K W — D DIN A ANSI	450 450mm } 600 600mm

PRODUCT MODEL
CODE LIST
AUTOMATIC

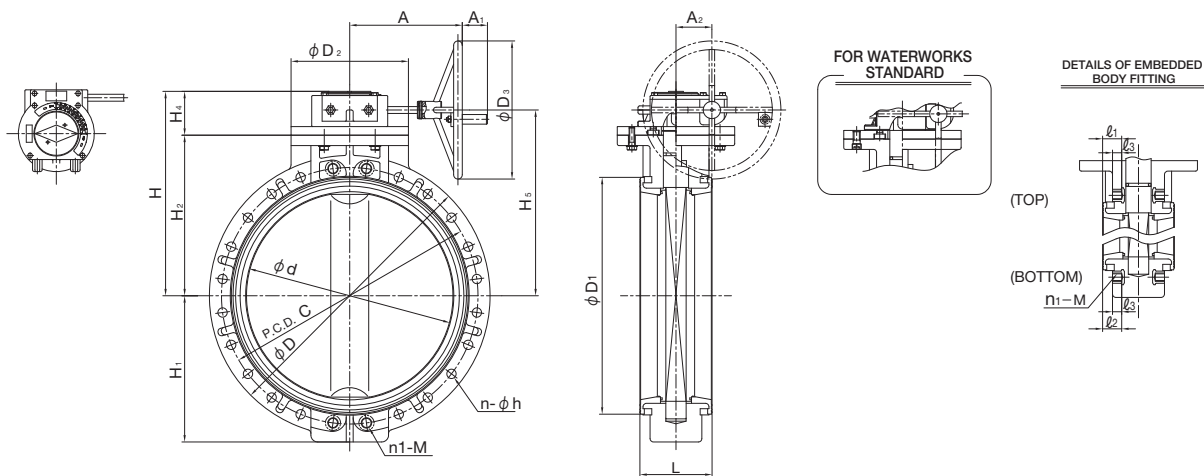
ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	75	*	*	*	*	W	*	***
A AUTOMATIC VALVE	75 TYPE 75	PNEUMATIC K TYPE TW ELECTRIC S TYPE S	PNEUMATIC F DOUBLE ACTING ELECTRIC 3 Three-Phase AC200V 4 Three-Phase AC400V	P PP F PVDF	E EPDM V FKM	W WAFER	1 JIS10K W — D DIN A ANSI	450 450mm 600 600mm

MANUAL

BUTTERFLY VALVE TYPE 75

TYPE—V75SG

CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

JIS, DIN (Unit: mm)																	JIS10K					WATERWORKS			DIN PN10		
mm	d	D		D1	D2	D3	L	H	H1	H2	H4	H5	A	A1	A2	OPEN/CLOSE ROTATION	C	n	h	n1	M	C	n	h	C	n	h
		PP	PVDF																								
450	452	633	630	525	340	400	179	497	315	370	127	443	326	75.5	104.5	13.75	565	16	27	4	M24	—	—	—	565	20	26
500	502	683	680	575	340	400	190	527	350	400	127	473	326	75.5	104.5	13.75	620	16	27	4	M24	—	—	—	620	20	26
600	603	793	790	686	340	400	209	592	424	465	127	538	326	75.5	104.5	13.75	730	20	33	4	M30	—	—	—	725	20	30

■ JIS10K (UNIT: mm)

mm	d	THRU HOLE n	NO. OF FITTINGS USED			ℓ1	ℓ2	ℓ3
			TOP	BOTTOM	TOTAL 2 × n1			
450	M24	16	2×2	2×2	8	49	54	24
500	M24	16	2×2	2×2	8	49	59	24
600	M30	20	2×2	2×2	8	64	64	30

■ ANSI (Unit: inch)

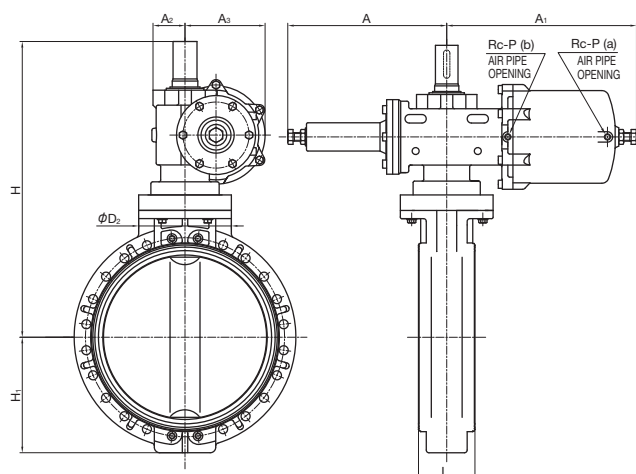
ANSI (Unit: inch)																		ANSI CLASS 150		
inch	mm	d	D		D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₄	H ₅	A	A ₁	A ₂	OPEN/CLOSE ROTATION	C	n	h
			PP	PVDF																
18	450	17.80	24.92	24.80	20.67	13.39	15.75	7.05	19.57	12.40	14.57	5.00	17.44	12.83	2.97	4.11	13.75	22.75	16	1.25
20	500	19.76	26.89	26.77	22.64	13.39	15.75	7.48	20.75	13.78	15.75	5.00	18.62	12.83	2.97	4.11	13.75	25.00	20	1.25
24	600	23.74	31.22	31.10	27.01	13.39	15.75	8.23	23.31	16.69	18.31	5.00	21.18	12.83	2.97	4.11	13.75	29.50	20	1.38



BUTTERFLY VALVE TYPE 75

TYPE—A75K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
450mm (18inch)	TW-250D
500mm (20inch)	
600mm (24inch)	

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	L	D ₁	D ₂	H	H ₁	A	A ₁	A ₂	A ₃	P
450	179	525	340	825	315	450	537	88	214	3/8
500	190	575	340	855	350	450	537	88	214	3/8
600	209	686	340	920	424	450	537	88	214	3/8

■ ANSI (Unit: inch)

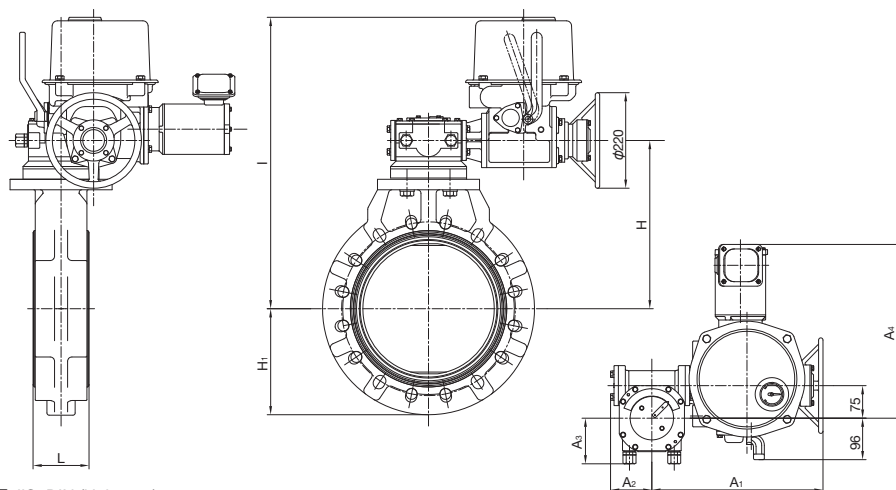
inch	mm	L	D ₁	D ₂	H	H ₁	A	A ₁	A ₂	A ₃	P
18	450	7.05	20.67	13.39	32.48	12.40	17.72	21.14	3.46	8.43	3/8
20	500	7.48	22.64	13.39	33.66	13.78	17.72	21.14	3.46	8.43	3/8
24	600	8.23	27.01	13.39	36.22	16.69	17.72	21.14	3.46	8.43	3/8



BUTTERFLY VALVE TYPE 75

TYPE—A75S

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
450mm (18inch)	LTRM-01/BRM2 (AUTOMATIC RETURN MECHANISM) or LTRH-01/BRM2 (MANUAL RETURN MECHANISM)
500mm (20inch)	
600mm (24inch)	

For detailed specifications, see **P.135**

■ JIS, DIN (Unit: mm)

mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
450	179	468	315	752	430	116	126	409
500	190	498	350	782	430	116	126	409
600	209	563	424	847	430	116	126	409

■ ANSI (Unit: inch)

inch	mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
18	450	7.05	18.43	12.40	29.61	16.93	4.57	4.96	16.10
20	500	7.48	19.61	13.78	30.79	16.93	4.57	4.96	16.10
24	600	8.23	22.17	16.69	33.35	16.93	4.57	4.96	16.10

ASAHI AV

BUTTERFLY VALVE TYPE 56D, 75D

- USE OF PDCPD BODY IMPROVED PRESSURE RESISTANCE PERFORMANCE.

BASIC SPECIFICATIONS

VALVE TYPE — **BUTTERFLY VALVE TYPE 56D, 75D**

SIZE — **400 mm—600 mm (16 inch—24 inch)**

BODY MATERIAL — **PDCPD**

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

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

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kg/cm ²) FOR WAFER
PDCPD (DISC MATERIAL— PP)	-20°C ~ 90°C	0.75 {7.7}
PDCPD (DISC MATERIAL— PVDF)	-20°C ~ 100°C	0.75 {7.7}

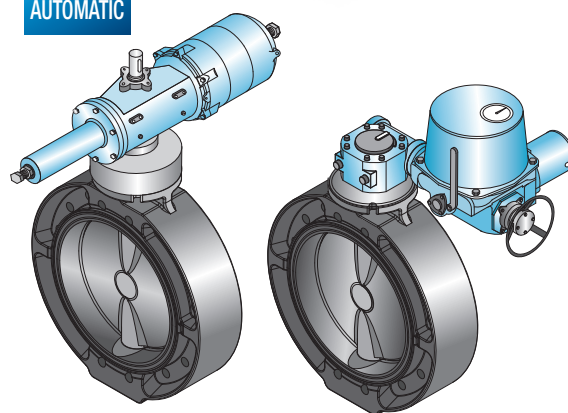
NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

MANUAL

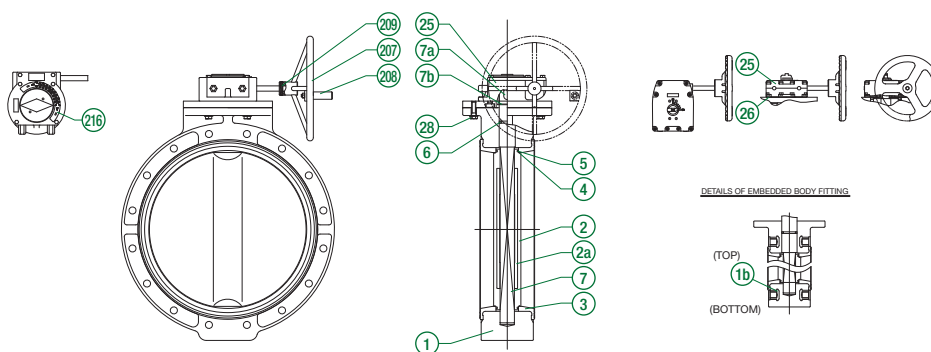


AUTOMATIC



PARTS LIST

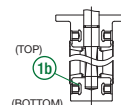
MANUAL



PART NO. / NAME	QTY	MATERIAL	MEMO
① BODY	1	PDCPD	
1b EMBEDDED BODY FITTING	8	C3604	JIS10K 450mm—600mm
② DISC	1	PP, PVDF	
2a DISC INSERT	1	AC4C	450mm—600mm
③ SEAT	1		
④ O-RING (A)	2	EPDM, FKM, etc.	
⑤ O-RING (B)	2		
⑥ O-RING (C)	1		
⑦ STEM	1	SUS403	

PART NO. / NAME	QTY	MATERIAL	MEMO
7a KEY (A)	1	S45C	
7b C-SHAPED STOP RING	1	SUS304	450mm
25 GEAR BOX	1	FC250, etc. (POLYURETHANE PAINT)	450mm—600mm
26 GASKET (A)	1	EPDM	400mm
26 BOLT (C)	4	SUS304	
27 HANDLE (C)	1	FC250	(POLYURETHANE PAINT)
28 HANDLE GRIP	4	NYLON, etc.	
28 SPRING PIN		SUS304	
216 OPENING DEGREE DISPLAY PLATE	1	SUS304	

DETAILS OF EMBEDDED BODY FITTING



SPECIFICATION LIST

MANUAL

LEVER TYPE		SIDE GEAR TYPE		TOP GEAR TYPE			
							
CHAIN TYPE		LONG STEM TYPE		FLOAT TYPE		WITH LIMIT SWITCH	
							

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

COMPATIBLE ACTUATOR

AUTOMATIC

PNEUMATIC **TYPE TW**

For detailed specifications, see
P.123

ELECTRIC **TYPE S**

For detailed specifications, see
P.135

PRODUCT MODEL
CODE LIST
MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE	DISC PVDF
V	**	SG	D	*	W	*	***	00Q*
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
V MANUAL VALVE	56 TYPE 56D 75 TYPE 75D	SG SIDE GEAR TYPE	D PDCPD	E EPDM V FKM	W WAFER	1 JIS10K W — D DIN A ANSI	400 400mm ? 600 600mm	* Used when the disc material is PVDF.

PRODUCT MODEL
CODE LIST
AUTOMATIC

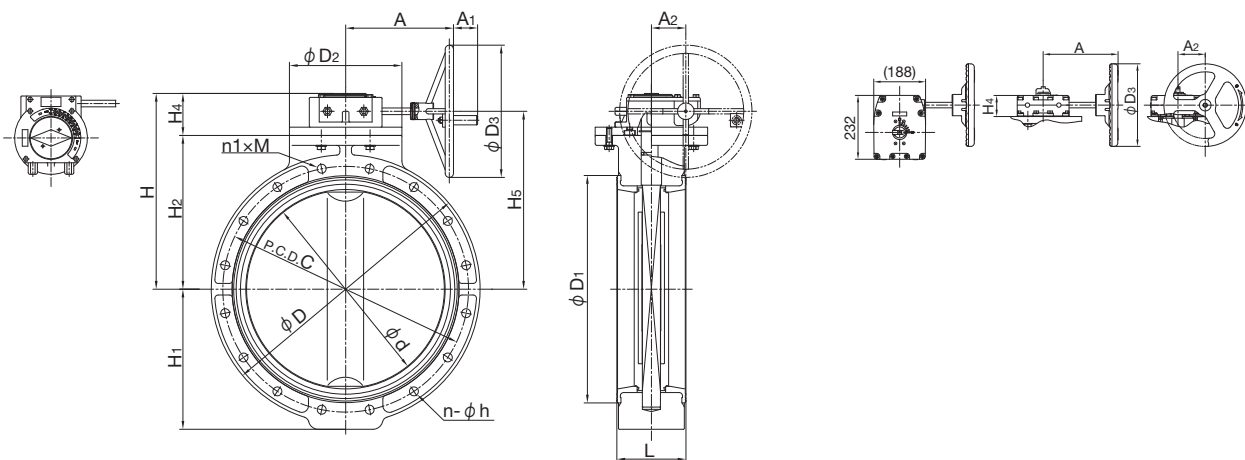
ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	**	*	*	D	E	W	*	***
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
A AUTOMATIC VALVE	56 TYPE 56D 75 TYPE 75D	PNEUMATIC K TYPE TW ELECTRIC S TYPE S	PNEUMATIC F DOUBLE ACTING ELECTRIC 3 Three-Phase AC200V 4 Three-Phase AC400V	D PDCPD	E EPDM	W WAFER	1 JIS10K W — D DIN A ANSI	400 400mm ? 600 600mm

MANUAL

BUTTERFLY VALVE TYPE 56D, 75D

TYPE—V56SG, V75SG

CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

mm	d	D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₄	H ₅	A	A ₁	A ₂	JIS10K					WATERWORKS			DIN PN10			OPEN/CLOSE ROTATION
															C	n	h	m	M	C	n	h	C	n	h	
400	406	620	470	235	300	169	458	315	350	108	390	272	—	99.2	510	14	27	2	M24	—	—	—	515	16	26	9.5
450	452	665	525	340	400	179	497	335	370	127	443	326	75.5	104.5	565	16	27	4	M24	—	—	—	565	20	26	13.75
500	502	720	575	340	400	190	527	365	400	127	473	326	75.5	104.5	620	16	27	4	M24	—	—	—	620	20	26	13.75
600	603	813	686	340	400	209	592	424	465	127	538	326	75.5	104.5	730	20	33	4	M30	—	—	—	725	20	30	13.75

■ JIS10K (UNIT: mm)

mm	M	THRU HOLE n	NO. OF FITTINGS USED			ℓ ₁	ℓ ₂
			TOP	BOTTOM	TOTAL 2 × n1		
400	M24	14	2×2	—	4	36	24
450	M24	16	2×2	2×2	8	36	24
500	M24	16	2×2	2×2	8	36	24
600	M30	20	2×2	2×2	8	43	30

■ ANSI (Unit: inch)

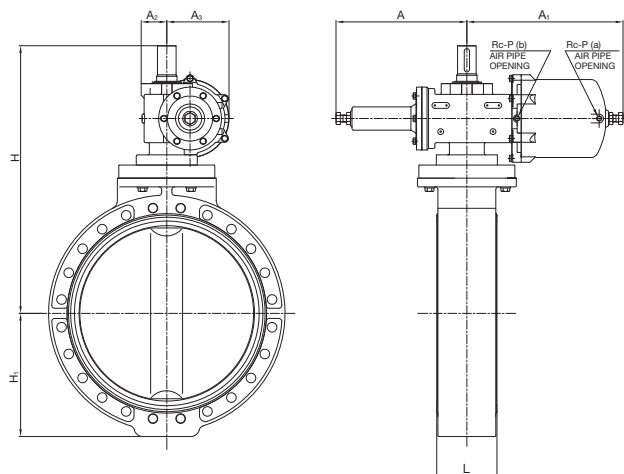
inch	mm	d	D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₄	H ₅	A	A ₁	A ₂	ANSI CLASS 150			OPEN/CLOSE ROTATION	GEAR BOX TYPE
																C	n	h		
16	400	15.98	24.41	18.50	9.25	11.81	6.65	18.03	12.40	13.78	4.25	15.35	10.71	—	3.91	21.26	16	1.12	9.5	TYPE 3
18	450	17.80	26.18	20.67	13.39	15.75	7.05	19.57	13.19	14.57	5.00	17.44	12.83	2.97	4.11	22.76	20	1.26	13.75	AB1250N
20	500	19.76	28.35	22.64	13.39	15.75	7.48	20.75	14.37	15.75	5.00	18.62	12.83	2.97	4.11	25.00	20	1.26	13.75	
24	600	23.74	32.01	27.01	13.39	15.75	8.23	23.31	16.69	18.31	5.00	21.18	12.83	2.97	4.11	29.53	20	1.38	13.75	



BUTTERFLY VALVE TYPE 56D, 75D

TYPE—A56K, A75K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	TW-250D-F14
450mm (18inch)	
500mm (20inch)	TW-250D-F16
600mm (24inch)	

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
400	169	760	315	450	537	88	214	3/8
450	179	825	335	450	537	88	214	3/8
500	190	855	365	450	537	88	214	3/8
600	209	920	424	450	537	88	214	3/8

■ ANSI (Unit: inch)

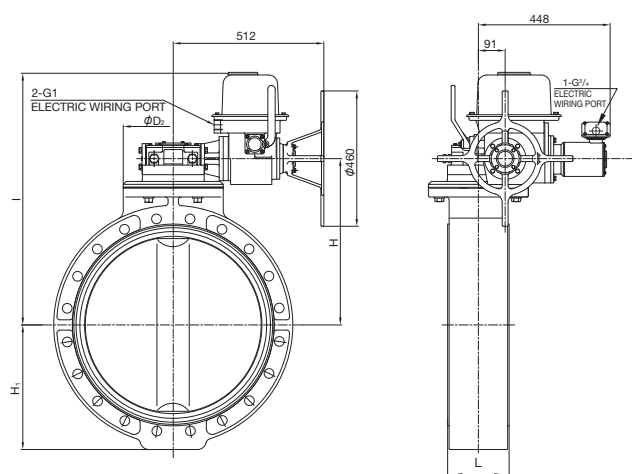
inch	mm	L	D ₃	H	H ₁	A ₁	A ₂	A ₃	A ₄
16	400	6.65	29.92	12.40	17.72	21.14	3.46	8.43	3/8
18	450	7.05	32.48	13.19	17.72	21.14	3.46	8.43	3/8
20	500	7.48	33.66	14.37	17.72	21.14	3.46	8.43	3/8
24	600	8.23	36.22	16.69	17.72	21.14	3.46	8.43	3/8



BUTTERFLY VALVE TYPE 56D, 75D

TYPE—A56S, A75S

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	
450mm (18inch)	LTMD-01/
500mm (20inch)	BRM-3
600mm (24inch)	

For detailed specifications, see **P.135**

■ JIS, DIN (Unit: mm)

mm	L	D ₃	H	H ₁
400	169	461	315	754
450	179	471	335	764
500	190	501	365	794
600	209	566	424	859

■ ANSI (Unit: inch)

inch	mm	L	D ₃	H	H ₁
16	400	6.65	18.15	12.40	29.69
18	450	7.05	18.54	13.19	30.08
20	500	7.48	19.72	14.37	31.26
24	600	8.23	22.28	16.69	33.82

ASAHI AV

BUTTERFLY VALVE TYPE 55

- HIGH CORROSION RESISTANCE AGAINST CORROSIVE FLUID (IDEAL FOR CORROSIVE CHEMICAL LINE)
- C_v VALUE IS IMPROVED BY REDUCED DISC THICKNESS AND LARGER OPENING AREA.
- EXCELLENT HEAT AND COLD RESISTANCE ALLOWING FOR CONTINUOUS OPERATION AT -20 TO 100°C
- SIMPLE STEM SEAL STRUCTURE FACILITATES MAINTENANCE.

BASIC SPECIFICATIONS

VALVE TYPE ————— BUTTERFLY VALVE TYPE 55

SIZE / LEVER TYPE ————— 50 mm—125 mm (2 inch—5 inch)

GEAR TYPE ————— 50 mm—250 mm (2 inch—10 inch)

BODY MATERIAL ————— FCD-S (EPOXY POWDER COATING)

SEAL MATERIAL / SEAT ————— PTFE

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

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)
FCD-S	-20°C ~ 100°C	1.0 {10.2}

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.

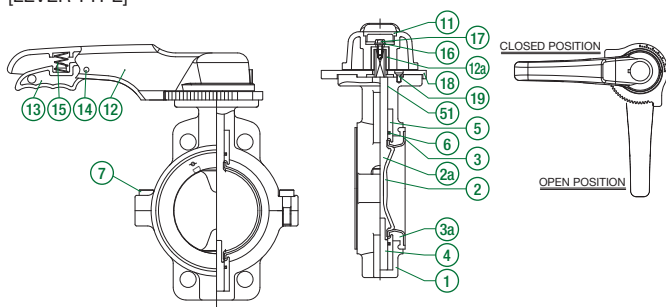
* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.



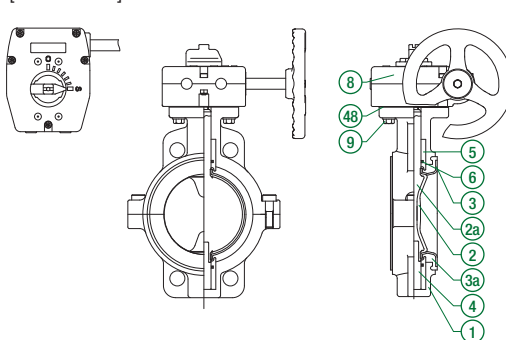
PARTS LIST

MANUAL

[LEVER TYPE]



[GEAR TYPE]



PART NO. / NAME	QTY	MATERIAL
① BODY	1	FCD-S (EPOXY POWDER COATING)
② DISC	1	PTFE
②a DISC INSERT	1	SUS304
③ SEAT	1	PTFE
③a SEAT CUSHION	1	CR
④ STEM	1	SUS304
⑤ BUSH	2	SUS304
⑥ O-RING	2	EPDM
⑦ BOLT (A)	—	SUS304

ONLY USED FOR LEVER TYPE

PART NO. / NAME	QTY	MATERIAL
⑪ CAP	1	PP
⑫ HANDLE	1	PP
⑫a EMBEDDED HANDLE FITTING	1	SUS316
⑬ HANDLE LEVER	1	PPG
⑭ PIN	1	PPG
⑮ SPRING	1	SUS304

PART NO. / NAME	QTY	MATERIAL
⑮ WASHER	1	SUS304
⑮a BOLT (C)	1	SUS304
⑮b LOCKING PLATE	1	PPG
⑮c STOP RING	4	SUS304
⑮d O-RING (B)	1	NBR

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
⑧ GEAR BOX	1	RESIN, etc.
⑨ BOLT (B)	4	SUS304
⑨a GASKET (C)	1	EPDM

SPECIFICATION LIST

MANUAL

LEVER TYPE		SIDE GEAR TYPE		TOP GEAR TYPE	
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH		

* 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

PRODUCT MODEL
CODE LIST

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	55	**	S	T	W	*	***
V	55	LV SG	S	T	W	1 5 D A	050 250
MANUAL VALVE	TYPE 55	LEVER TYPE SIDE GEAR TYPE	FCDS	PTFE	WAFER	JIS10K JIS5K DIN ANSI	50mm 250mm

PRODUCT MODEL
CODE LIST

AUTOMATIC

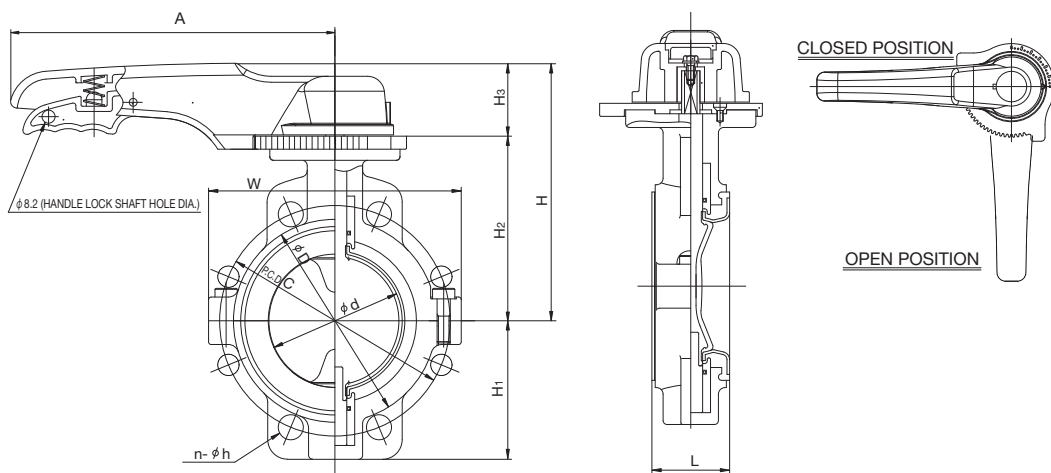
ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	55	*	*	S	T	W	*	***
A AUTOMATIC VALVE	55 TYPE 55	PNEUMATIC K TYPE TA ELECTRIC T TYPE T S TYPE S	PNEUMATIC F DOUBLE ACTING G AIR TO OPEN S AIR TO CLOSE ELECTRIC 1 Single-Phase 100V 2 Single-Phase 200V 3 Three-Phase AC200V 4 Three-Phase AC400V	S FCDS	T PTFE	W WAFER	1 JIS10K 5 JIS5K D DIN A ANSI	050 50mm 250 250mm

MANUAL

BUTTERFLY VALVE TYPE 55

TYPE—V55LV, V55SG

CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

■ JIS, DIN (Unit: mm)																JIS5K			JIS 10K			DIN PN10			
mm	d	D	L	H		H ₁	H ₂		H ₃		I	W	A	A ₁	A ₂	HANDLE ROTATION	C	n	h	C	n	h	C	n	h
				LEVER TYPE	GEAR TYPE		LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE															
50	55	90	44	161	135	61	105	100	56	92	215	116	220	167	64	9.5	105	2(4)	15	120	2(4)	19	125	2(4)	18
80	80	125	54	180	154	95	124	119	56	92	234	152	250	167	64		145	—(4)	19	150	4(8)	19	160	4(8)	18
100	100	154	59	196	170	99	140	135	56	92	250	174	250	167	64		165	4(8)	19	175	4(8)	19	180	4(8)	18
125	125	181	64	235	193	120	166	158	69	92	273	206	320	167	64		200	4(8)	19	210	4(8)	23	210	4(8)	18
150	150	211	75	—	210	137	—	175	—	92	290	236	—	167	64		230	4(8)	19	240	4(8)	23	240	4(8)	22
200	191	265	85	—	240	163	—	205	—	92	320	282	—	167	64		280	4(8)	23	290	4(12)	23	295	4(8)	22
250	245	325	96	—	275	200	—	240	—	92	355	341	—	167	64	345	4(12)	23	355	4(12)	25	350	4(12)	22	

■ ANSI (Unit: inch)

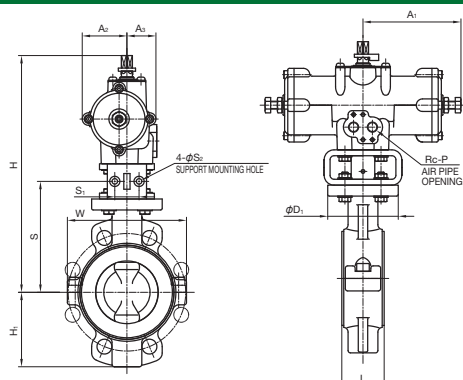
ANSI (Unit: inch)																	ANSI CLASS 150				
inch	mm	d	D	L	H		H ₁	H ₂		H ₃		I	W	A	A ₁	A ₂	HANDLE ROTATION	C	n	h	GEAR BOX TYPE
					LEVER TYPE	GEAR TYPE		LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE										
2"	50	2.17	3.54	1.73	6.34	5.31	2.40	4.13	3.94	2.20	3.62	8.46	4.57	8.66	6.57	2.52	9.5	4.75	2(4)	0.75	TYPE1
3	80	3.15	4.92	2.13	7.09	6.06	3.74	4.88	4.69	2.20	3.62	9.21	5.98	9.84	6.57	2.52		6.00	-(4)	0.75	
4	100	3.94	6.06	2.32	7.72	6.69	3.90	5.51	5.31	2.20	3.62	9.84	6.85	9.84	6.57	2.52		7.50	4(8)	0.75	
5	125	4.92	7.13	2.52	9.25	7.60	4.72	6.54	6.22	2.72	3.62	10.75	8.11	12.60	6.57	2.52		8.50	4(8)	0.88	
6	150	5.91	8.31	2.95	—	8.27	5.39	—	6.89	—	3.62	11.42	9.29	—	6.57	2.52		9.50	4(8)	0.88	
8	200	7.52	10.43	3.35	—	9.45	6.42	—	8.07	—	3.62	12.60	11.10	—	6.57	2.52	11.75	4(8)	0.88		
10	250	9.65	12.80	3.78	—	10.83	7.87	—	9.45	—	3.62	13.98	13.43	—	6.57	2.52	14.25	4(12)	1.00		



BUTTERFLY VALVE TYPE 55

TYPE—A55K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
50mm (2inch)	TA2A-050D
80mm (3inch)	TA2A-063D
100mm (4inch)	TA2A-080D
125mm (5inch)	TA2A-100D
150mm (6inch)	TA2A-125D
200mm (8inch)	TA2A-160D
250mm (10inch)	TA2A-160D

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	d	L	D	D ₁	H	H ₁	W	A	A ₂	A ₃	S	S ₁	S ₂	P
50	55	44	90	90	268	64	116	210	46	36	122.5	32	7	1/4
80	80	54	125	90	302	95	152	250	57	38	141.5	32	7	1/4
100	100	59	154	90	351	99	174	292	71	45	157.5	32	7	1/4
125	125	64	181	125	380	120	206	292	71	45	183.5	42	9	1/4
150	150	75	211	125	428	137	236	362	85.5	57	200.5	42	9	1/4
200	191	85	265	125	483	163	282	440	90	60	—	—	—	1/4
250	245	96	325	125	583	200	341	532	113	68	—	—	—	1/4

■ ANSI (Unit: inch)

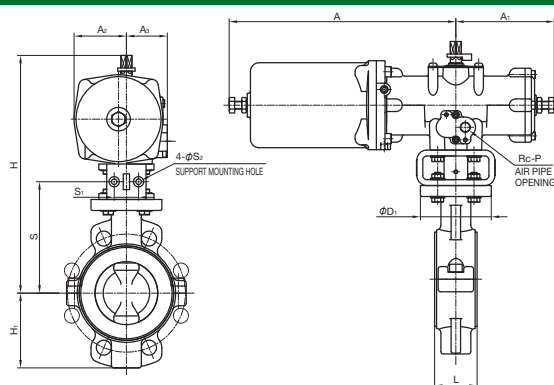
inch	mm	d	L	D	D ₁	H	H ₁	W	A	A ₂	A ₃	S	S ₁	S ₂	P
2	50	2.17	1.73	3.54	3.54	10.55	2.52	4.57	8.27	1.81	1.42	4.82	1.26	0.28	1/4
3	80	3.15	2.13	4.92	3.54	11.89	3.74	5.98	9.84	2.24	1.50	5.57	1.26	0.28	1/4
4	100	3.94	2.32	6.06	3.54	13.82	3.90	6.85	11.50	2.80	1.77	6.20	1.26	0.28	1/4
5	125	4.92	2.52	7.13	4.92	14.96	4.72	8.11	11.50	2.80	1.77	7.22	1.65	0.35	1/4
6	150	5.91	2.95	8.31	4.92	16.85	5.39	9.29	14.25	3.37	2.24	7.89	1.65	0.35	1/4
8	200	7.52	3.35	10.43	4.92	19.02	6.42	11.10	17.32	3.54	2.36	—	—	—	1/4
10	250	9.65	3.78	12.80	4.92	22.95	7.87	13.43	20.94	4.45	2.68	—	—	—	1/4



BUTTERFLY VALVE TYPE 55

TYPE—A55K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
50mm (2inch)	TA2A-050R
80mm (3inch)	TA2A-063R
100mm (4inch)	TA2A-080R
125mm (5inch)	TA2A-100R2
150mm (6inch)	TA2A-125R2
200mm (8inch)	TA2A-160R2
250mm (10inch)	TA2A-160R2

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	L	D ₁	H	H ₁	A	A ₁	A ₂	A ₃	S	S ₁	S ₂	P
50	44	90	268	61	240	105	53	50	122.5	32	7	1/4
80	54	90	302	95	288	125	66.5	52	141.5	32	7	1/4
100	59	90	351	99	341	146	82.5	59	157.5	32	7	1/4
125	64	125	380	120	341	146	82.5	59	183.5	42	9	1/4
150	75	125	428	137	417	181	103	71	200.5	42	9	1/4
200	85	125	483	163	542	220	118.5	74	—	—	—	1/4
250	96	125	583	200	658	266	149	82	—	—	—	1/4

■ ANSI (Unit: inch)

inch	mm	L	D ₁	H	H ₁	A	A ₁	A ₂	A ₃	S	S ₁	S ₂	P
2	50	1.73	3.54	10.55	2.40	9.45	4.13	2.09	1.97	4.82	1.26	0.28	1/4
3	80	2.13	3.54	11.89	3.74	11.34	4.92	2.62	2.05	5.57	1.26	0.28	1/4
4	100	2.32	3.54	13.82	3.90	13.43	5.75	3.25	2.32	6.20	1.26	0.28	1/4
5	125	2.52	4.92	14.96	4.72	13.43	5.75	3.25	2.32	7.22	1.65	0.35	1/4
6	150	2.95	4.92	16.85	5.39	16.42	7.13	4.06	2.80	7.89	1.65	0.35	1/4
8	200	3.35	4.92	19.02	6.42	21.34	8.66	4.67	2.91	—	—	—	1/4
10	250	3.78	4.92	22.95	7.87	25.91	10.47	5.87	3.23	—	—	—	1/4

AUTOMATIC

ELECTRIC

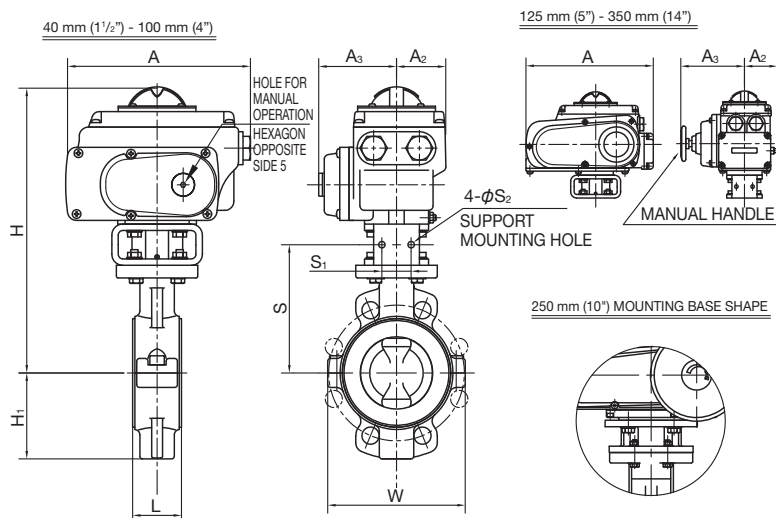
TYPE T

Single-Phase 100V
Single-Phase 200V

BUTTERFLY VALVE TYPE 55

TYPE—A55T

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
50mm (2inch)	T-0
80mm (3inch)	
100mm (4inch)	
125mm (5inch)	T-1
150mm (6inch)	T-2
200mm (8inch)	T-2.5
250mm (10inch)	T-3

For detailed specifications, see **P.139**

JIS, DIN (Unit: mm)

mm	L	H	H ₁	W	A	A ₂	A ₃	S	S ₁	S ₂
50	44	295	61	116	202	53.8	85	122.5	32	7
80	54	314	95	152	202	53.8	85	141.5	32	7
100	59	330	99	174	202	53.8	85	157.5	32	7
125	64	374	120	206	252	65	136	183.5	42	9
150	75	424	137	236	310	85	154	200.5	42	9
200	85	454	163	282	310	85	154	230.5	42	9
250	96	540	200	341	388	136	245.5	—	—	—

ANSI (Unit: inch)

inch	mm	L	H	H ₁	W	A	A ₂	A ₃	S	S ₁	S ₂
2	50	1.73	11.61	2.40	4.57	7.95	2.12	3.35	4.82	1.26	0.28
3	80	2.13	12.36	3.74	5.98	7.95	2.12	3.35	5.57	1.26	0.28
4	100	2.32	12.99	3.90	6.85	7.95	2.12	3.35	6.20	1.26	0.28
5	125	2.52	14.72	4.72	8.11	9.92	2.56	5.35	7.22	1.65	0.35
6	150	2.95	16.69	5.39	9.29	12.20	3.35	6.06	7.89	1.65	0.35
8	200	3.35	17.87	6.42	11.10	12.20	3.35	6.06	9.07	1.65	0.35
10	250	3.78	21.26	7.87	13.43	15.28	5.35	9.67	—	—	—

AUTOMATIC

ELECTRIC

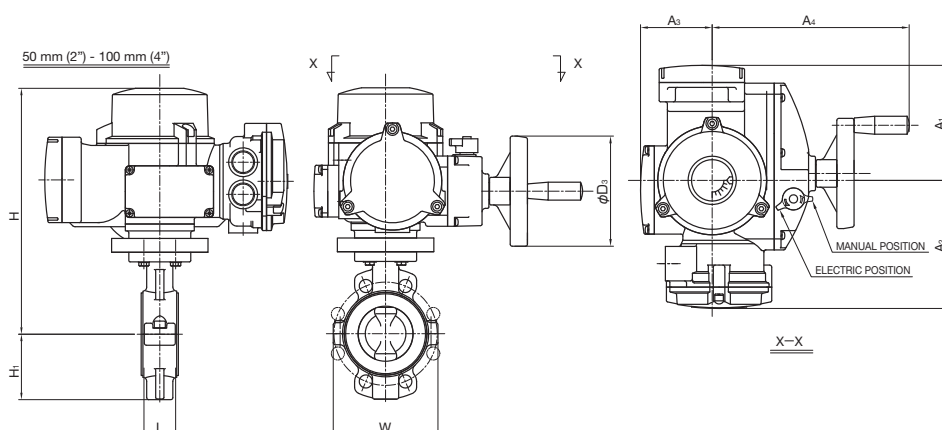
TYPE S

Three-Phase
AC200V
Three-Phase
AC400V

BUTTERFLY VALVE TYPE 55

TYPE—A55S

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
50mm (2inch)	SRJ-010
80mm (3inch)	
100mm (4inch)	
125mm (5inch)	SRJ-020
150mm (6inch)	
200mm (8inch)	SRJ-060
250mm (10inch)	

For detailed specifications, see **P.133**

JIS, DIN (Unit: mm)

mm	L	H	H ₁	W	D ₃	A ₁	A ₂	A ₃	A ₄
50	44	318	61	116	160	167	186	104	286
80	54	337	95	152	160	167	186	104	286
100	59	353	99	174	160	167	186	104	286
125	64	396	120	206	160	167	186	104	286
150	75	413	137	236	160	167	186	104	286
200	85	440	163	282	245	191	202	130	330
250	96	475	200	341	245	191	202	130	330

ANSI (Unit: inch)

inch	mm	L	H	H ₁	W	D ₃	A ₁	A ₂	A ₃	A ₄
2	50	1.73	12.52	2.40	4.57	6.30	6.57	7.32	4.09	11.26
3	80	2.13	13.27	3.74	5.98	6.30	6.57	7.32	4.09	11.26
4	100	2.32	13.90	3.90	6.85	6.30	6.57	7.32	4.09	11.26
5	125	2.52	15.59	4.72	8.11	6.30	6.57	7.32	4.09	11.26
6	150	2.95	16.26	5.39	9.29	6.30	6.57	7.32	4.09	11.26
8	200	3.35	17.32	6.42	11.10	9.65	7.52	7.95	5.12	12.99
10	250	3.78	18.70	7.87	13.43	9.65	7.52	7.95	5.12	12.99

BUTTERFLY VALVE TYPE 55IS

- FACE-TO-FACE DIMENSION COMPLIANT WITH INTERNAL ISO SHORT STANDARD
- HIGH CHEMICAL RESISTANCE IN ADDITION TO EXCELLENT HEAT AND COLD RESISTANCE ALLOWING FOR USE AT -20 TO 100°C

BASIC SPECIFICATIONS

VALVE TYPE ————— BUTTERFLY VALVE TYPE 55IS

SIZE / LEVER TYPE ————— 50 mm—125 mm (2 inch—5 inch)

GEAR TYPE ————— 50 mm—200 mm(2 inch—8 inch)

BODY MATERIAL ————— FCD450 (EPOXY POWDER COATING)

SEAL MATERIAL / SEAT ————— PTFE

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

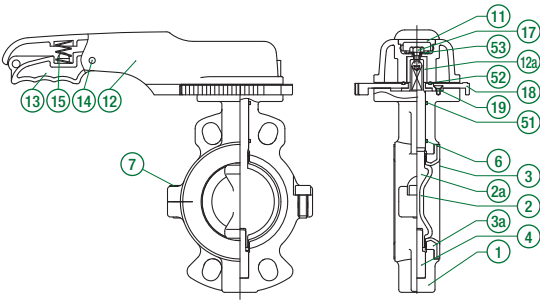
	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)
FCD450	-20°C ~ 100°C	1.0 {10.2}

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.

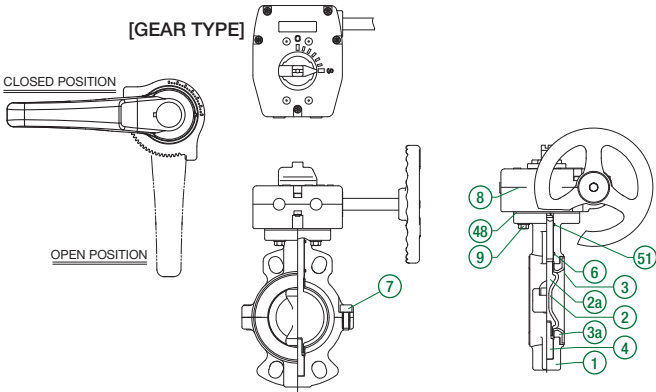


PARTS LIST [MANUAL](#)

[LEVER TYPE]



[GEAR TYPE]



PART NO. / NAME	QTY	MATERIAL
① BODY	1	FCD450 (EPOXY POWDER COATING)
② DISC	1	PTFE
②a DISC INSERT	1	SUS304
③ SEAT	1	PTFE
③a SEAT CUSHION	1	CR
④ STEM	1	SUS304
⑥ O-RING	1	EPDM
⑤① O-RING (B)	1	NBR

ONLY USED FOR LEVER TYPE

PART NO. / NAME	QTY	MATERIAL
⑦ BOLT (A)	2	SUS304
⑪ CAP	1	PP
⑫ HANDLE	1	PP
⑫a EMBEDDED HANDLE FITTING	1	SUS316
⑬ HANDLE LEVER	1	PPG
⑭ PIN	1	PPG
⑮ SPRING	1	SUS304
⑰ BOLT (C)	1	SUS304
⑱ LOCKING PLATE	1	PPG
⑲ SET SCREW (A)	4	SUS304
⑤② O-RING (C)	1	EPDM
⑤③ WASHER WITH RUBBER	1	SUS304+EPDM

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
⑦ BOLT (A)	—	SUS304 (50~125mm:2 150mm:4)
⑧ GEAR BOX	1	RESIN, etc.
⑨ BOLT (B)	4	SUS304
④⑧ GASKET (C)	1	EPDM

SPECIFICATION LIST [MANUAL](#)

LEVER TYPE	SIDE GEAR TYPE	TOP GEAR TYPE	
		—	
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH
—	—	—	

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

PRODUCT MODEL
CODE LIST

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	5S	**	4	T	W	*	***
V MANUAL VALVE	5S TYPE 55IS	LV LEVER TYPE SG SIDE GEAR TYPE	4 FCD450	T PTFE	W WAFER	1 JIS10K 5 JIS5K D DIN A ANSI	050 50mm 200 200mm

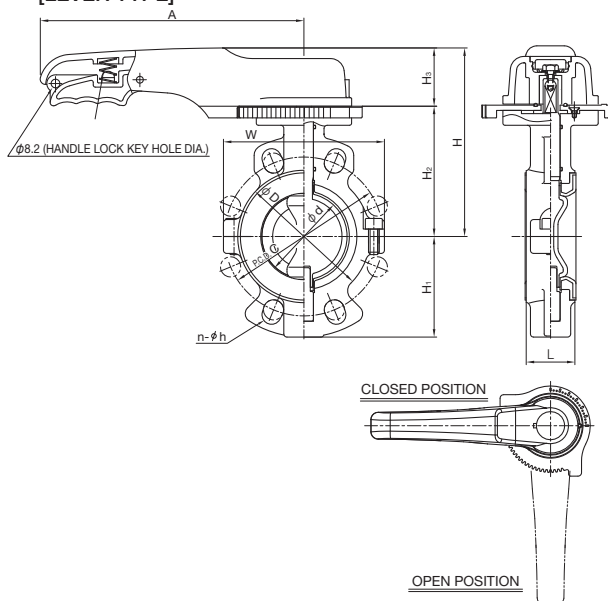
MANUAL

BUTTERFLY VALVE TYPE 55IS

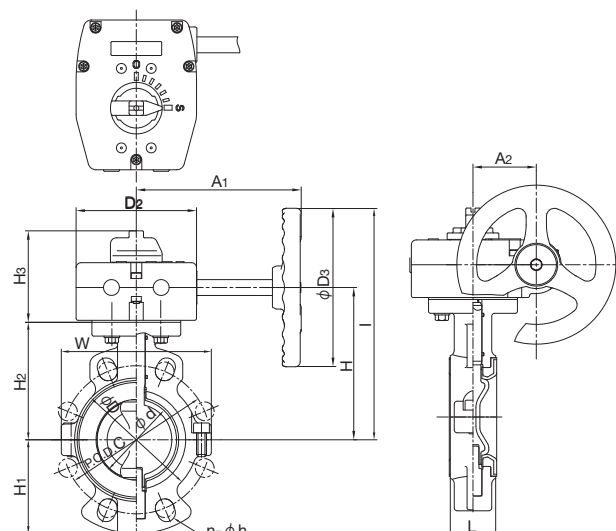
TYPE—V5SLV, V5SSG

CONNECTION / WAFER—JIS, DIN, ANSI

[LEVER TYPE]



[GEAR TYPE]



■ JIS, DIN (Unit: mm)

mm	d	D	L	H		H ₁	H ₂		H ₃		I	W	A	A ₁	A ₂	HANDLE ROTATION	JIS5K			JIS10K			DIN PN10		
				LEVER TYPE	GEAR TYPE		LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE							C	n	h	C	n	h	C	n	h
50	55	90	43	161	135	61	105	100	92	92	215	116	220	167	64	9.5	105	2(4)	15	120	2(4)	19	125	2(4)	18
65	65	110	46	176	150	80	120	115	56	92	230	146	220	167	64		130	2(4)	15	140	2(4)	19	145	2(4)	18
80	80	125	46	180	154	95	124	119	56	92	234	152	250	167	64		145	-(4)	19	150	4(8)	19	160	4(8)	18
100	100	154	52	196	170	103	140	135	56	92	250	174	250	167	64		165	4(8)	19	175	4(8)	19	180	4(8)	18
125	125	181	56	235	193	120	166	158	69	92	273	206	320	167	64		200	4(8)	19	210	4(8)	23	210	4(8)	18
150	150	211	56	-	210	137	-	175	-	92	290	236	-	167	64		230	4(8)	19	240	4(8)	23	240	4(8)	22
200	191	257	60	-	240	163	-	205	-	92	320	290	-	167	64		280	4(8)	23	290	4(12)	23	295	4(8)	22

■ ANSI (Unit: inch)

inch	mm	d	D	L	H		H ₁	H ₂		H ₃		I	W	A	A ₁	A ₂	HANDLE ROTATION	ANSI CLASS 150			GEAR BOX TYPE
					LEVER TYPE	GEAR TYPE		LEVER TYPE	GEAR TYPE	LEVER TYPE	GEAR TYPE							C	n	h	
2	50	2.17	3.54	1.69	6.34	5.31	2.40	4.13	3.94	2.20	3.62	8.46	4.57	8.66	6.57	2.52	9.5	4.75	2(4)	0.75	TYPE1
2 1/2	65	2.56	4.33	1.81	6.93	5.91	3.15	4.72	4.53	2.20	3.62	9.06	5.75	8.66	6.57	2.52		5.49	2(4)	0.75	
3	80	3.15	4.92	1.81	7.09	6.06	3.74	4.88	4.69	2.20	3.62	9.21	5.98	9.84	6.57	2.52		6.00	-(4)	0.75	
4	100	3.94	6.06	2.05	7.72	6.69	4.06	5.51	5.31	2.20	3.62	9.84	6.85	9.84	6.57	2.52		7.50	4(8)	0.75	
5	125	4.92	7.13	2.20	9.25	7.60	4.72	6.54	6.22	2.72	3.62	10.75	8.11	12.60	6.57	2.52		8.50	4(8)	0.88	
6	150	5.91	8.31	2.20	-	8.27	5.39	-	6.89	-	3.62	11.42	9.29	-	6.57	2.52		9.50	4(8)	0.88	
8	200	7.52	10.12	2.36	-	9.45	6.42	-	8.07	-	3.62	12.60	11.42	-	6.57	2.52		11.75	4(8)	0.88	

LUG BUTTERFLY VALVE TYPE 57L (JIS10K, DIN)

- SIGNIFICANTLY REDUCES THE BURDEN OF FLUID REMOVAL WORK.
- THE OVERTIGHTENING PREVENTION MECHANISM ELIMINATES THE RISK OF SEAT BREAKAGE.
- PLASTIC GEAR BOX WITH EXCELLENT CORROSION RESISTANCE AND HIGH OPERABILITY

BASIC SPECIFICATIONS

VALVE TYPE ——— BUTTERFLY VALVE TYPE 57L

SIZE / LEVER TYPE — 80 mm—200 mm (3 inch—8 inch)

GEAR TYPE — 80 mm—250 mm (3 inch—10 inch)

BODY MATERIAL ——— PDCPD

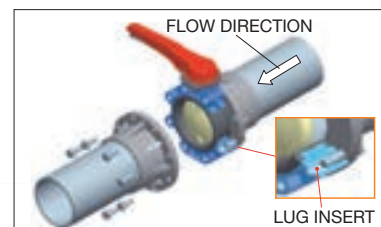
SEAL MATERIAL / SEAT — EPDM FKM NBR

CONNECTION / WAFER — JIS10K, DIN

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kg/cm ²) FOR WAFER
PDCPD (DISC MATERIAL—PP)	-20℃～80℃	1.0 {10.2}
PDCPD (DISC MATERIAL—PVDF)	-20℃～100℃	1.0 {10.2}

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.

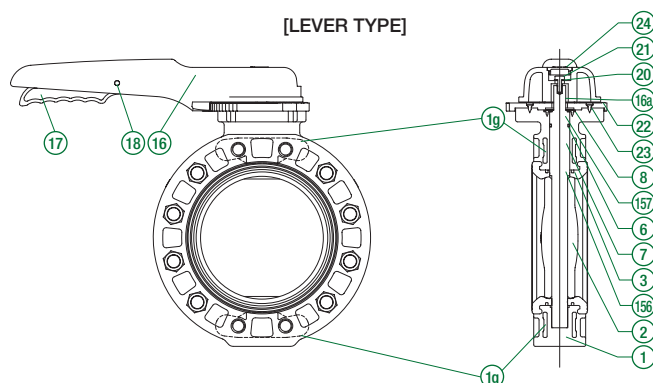
* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.



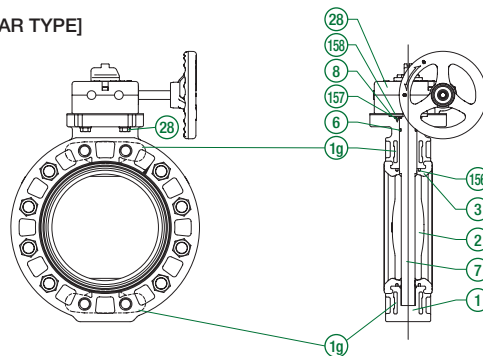
PARTS LIST

MANUAL

[LEVER TYPE]



[GEAR TYPE]



ONLY USED FOR LEVER TYPE

PART NO. / NAME	QTY	MATERIAL	PART NO. / NAME	QTY	MATERIAL
①⑥ HANDLE (A)	1	PP	②① WASHER	1	SUS304
①⑥⑤ EMBEDDED HANDLE FITTING	1	SUS316L	②① BOLT (B)	1	SUS304
①⑦ HANDLE LEVER	1	PPG	②② LOCKING PLATE	1	PPG
①⑧ PIN	1	PPG	②③ STOP RING (B)	4	SUS304
①⑨ SPRING	1	SUS304	②④ CAP (A)	1	PP

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
②⑤ GEAR BOX	1	RESIN, etc.
②⑥ BOLT (C)	4	SUS304
①③ GASKET (L)	1	EPDM

PART NO. / NAME	QTY	MATERIAL
① BODY	1	PDCPD
①⑥ LUG INSERT	8	SUS304
①⑨ BODY INSERT		[LEVER TYPE] SUS304: 2 PCS—125 mm, 150 mm SCS13: 1 PC—200 mm [GEAR TYPE] SUS304: 1 PC—125 mm, 150 mm SCS13: 2 PCS—200 mm, 250 mm
② DISC	1	PP, PVDF
③ SEAT	1	EPDM, FKM
⑥ O-RING (C)	1	
⑦ STEM	1	SUS403
⑧ STEM HOLDER	1	PP
①⑤⑥ FIXING RING	2	SCS13
①⑦ SET SCREW (F)	4	SUS304

SPECIFICATION LIST

MANUAL

LEVER TYPE		SIDE GEAR TYPE		TOP GEAR TYPE	
					
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH		
					

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

PRODUCT MODEL
CODE LIST
MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE	DISC PVDF
V	LG	**	D	*	W	*	***	00Q※
V MANUAL VALVE	LG TYPE 57L	LV LEVER TYPE SG SIDE GEAR TYPE	D PDCPD	E EPDM V FKM	W WAFER	1 JIS10K D DIN	080 80mm 250 250mm	※ Used when the disc material is PVDF.

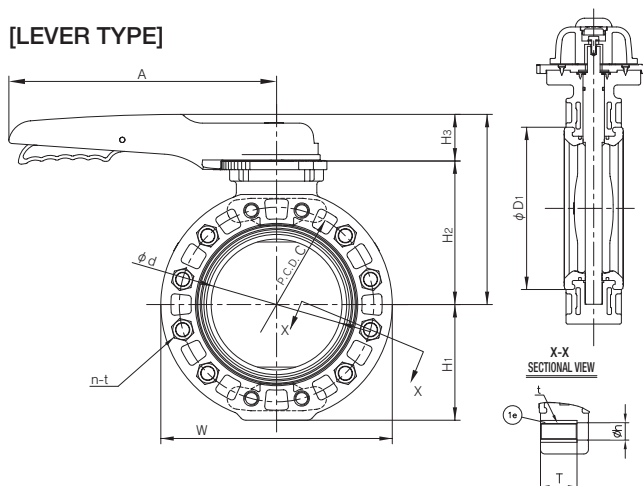
MANUAL

LUG BUTTERFLY VALVE TYPE 57L

TYPE—VLGLV, VLGS

CONNECTION / WAFER—JIS, DIN

[LEVER TYPE]

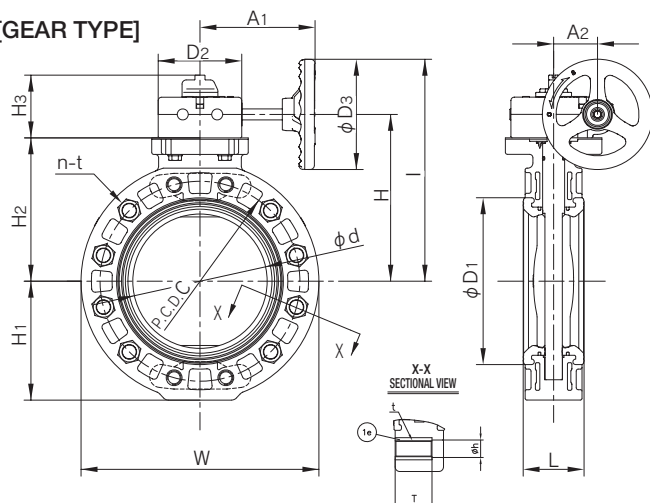


■ JIS, DIN (Unit: mm)

mm	d	D1	L	H	H1	H2	H3	A	W	T
80	77	105	46	191	94	135	56	250	193	40
100	102	134	56	206	105	150	56	250	217	40
125	129	169	66	237	124	168	69	320	247	50
150	150	190	71	252	138	183	69	320	285	50
200	195	242	87	283	173	214	69	400	345	60

JIS10K				DIN PN10			
mm	C	n	h	C	n	h	t
80	150	8	19	160	8	18	M16×40 WIDTH ACROSS FLATS: 24
100	175	8	19	180	8	18	M16×40 WIDTH ACROSS FLATS: 24
125	210	8	23	210	8	18	M20×50 WIDTH ACROSS FLATS: 30
150	240	8	23	240	8	23	M20×50 WIDTH ACROSS FLATS: 30
200	290	12	23	295	8	23	M20×60 WIDTH ACROSS FLATS: 30

[GEAR TYPE]



■ JIS, DIN (Unit: mm)

mm	d	D1	D2	D3	L	H	H1	H2	H3	ℓ	A1	A2
80	77	105	122	160	46	165	94	130	92	245	167	64
100	102	134	122	160	56	180	105	145	92	260	167	64
125	129	169	122	160	66	195	124	160	92	275	167	64
150	150	190	122	160	71	210	138	175	92	290	167	64
200	195	242	122	160	87	241	173	206	92	321	167	64
250	250	302	122	160	112	276	208	241	92	356	167	64

			JIS10K			DIN PN10			
mm	W	T	C	n	h	C	n	h	t
80	193	40	150	8	19	160	8	18	M16×40 WIDTH ACROSS FLATS: 24
100	217	40	175	8	19	180	8	18	M16×40 WIDTH ACROSS FLATS: 24
125	247	50	210	8	23	210	8	18	M20×50 WIDTH ACROSS FLATS: 30
150	285	50	240	8	23	240	8	23	M20×50 WIDTH ACROSS FLATS: 30
200	345	60	290	12	23	295	8	23	M20×60 WIDTH ACROSS FLATS: 30
250	415	70	355	12	25	350	12	23	M22×70 WIDTH ACROSS FLATS: 32

LUG BUTTERFLY VALVE TYPE 57TL (ANSI)

- SIGNIFICANTLY REDUCES THE BURDEN OF FLUID REMOVAL WORK.
- THE OVERTIGHTENING PREVENTION MECHANISM ELIMINATES THE RISK OF SEAT BREAKAGE.
- PLASTIC GEAR BOX WITH EXCELLENT CORROSION RESISTANCE AND HIGH OPERABILITY
- NON-DIRECTIONAL LUG TYPE

BASIC SPECIFICATIONS

VALVE TYPE — BUTTERFLY VALVE TYPE 57TL

SIZE / LEVER TYPE — 80 mm—200 mm (3 inch—8 inch)

GEAR TYPE — 80 mm—300 mm (3 inch—12 inch)

BODY MATERIAL — U-PVC

SEAL MATERIAL / SEAT — EPDM FKM NBR

CONNECTION / WAFER — ANSI

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

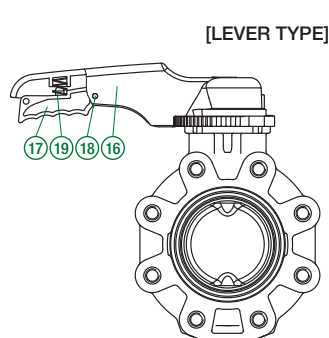
NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

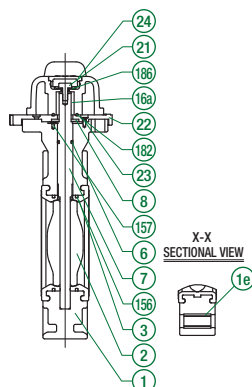


PARTS LIST

MANUAL

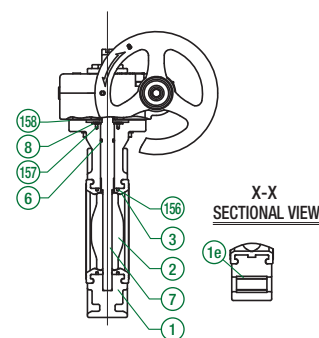
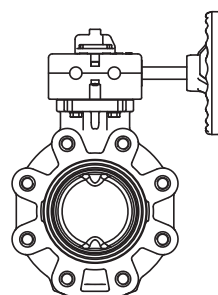


[LEVER TYPE]



X-X
SECTIONAL VIEW

[GEAR TYPE]



X-X
SECTIONAL VIEW

PART NO. / NAME	QTY	MATERIAL
① BODY	1	U-PVC
①⑥ LUG INSERT	—	SUS316
② DISC	1	PP
③ SEAT	1	EPDM, FKM, NBR
⑥ O-RING (C)	1	EPDM, FKM, NBR
⑦ STEM	1	SUS403
⑧ STEM HOLDER (A)	1	PP
①⑥ HANDLE (A)	1	PP

PART NO. / NAME	QTY	MATERIAL
①⑥ EMBEDDED HANDLE FITTING	1	SUS316L
①⑦ HANDLE LEVER	1	PPG
①⑧ PIN	1	PPG
①⑨ SPRING	1	SUS304
②① BOLT (B)	1	SUS304
②② LOCKING PLATE	1	PPG
②③ STOP RING (B)	4	SUS304
②④ CAP (A)	1	PP

PART NO. / NAME	QTY	MATERIAL
②⑤ GEAR BOX	1	RESIN, etc.
②⑥ BOLT (C)	1	RESIN, etc.
②⑦ FIXING RING	2	SCS13
②⑧ SET SCREW (F)	4	SUS304
②⑨ GASKET (L)	1	EPDM
②⑩ O-RING (H)	1	EPDM
②⑪ WASHER WITH RUBBER	1	SUS304+EPDM

SPECIFICATION LIST

MANUAL

LEVER TYPE		SIDE GEAR TYPE		TOP GEAR TYPE			
☐		☐		☐			
CHAIN TYPE		LONG STEM TYPE		FLOAT TYPE		WITH LIMIT SWITCH	
☐		☐		☐		☐	

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

PRODUCT MODEL
CODE LIST

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	LG	**	U	*	W	A	***
V MANUAL VALVE	LG TYPE 57L	LV LEVER TYPE SG SIDE GEAR TYPE	U U-PVC	E EPDM V FKM N NBR	W WAFER	A ANSI	080 80mm 300 300mm

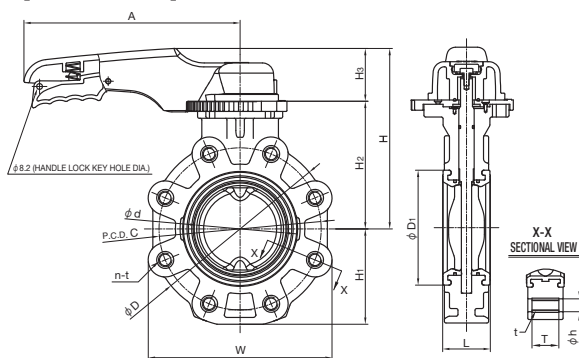
MANUAL

LUG BUTTERFLY VALVE TYPE 57TL

TYPE—VLGLV, VLGS

CONNECTION / WAFER—ANSI

[LEVER TYPE]



ANSI
(UNIT: mm)

		ANSI 150lb							
mm	d	C	n	h	D	D ₁	L	H	
80	77	152.5	4	19	185	105	46	191	
100	102	190.5	8	19	210	134	56	206	
150	150	241.5	8	22	270	190	71	252	
200	195	298.5	8	22	320	242	88	283	

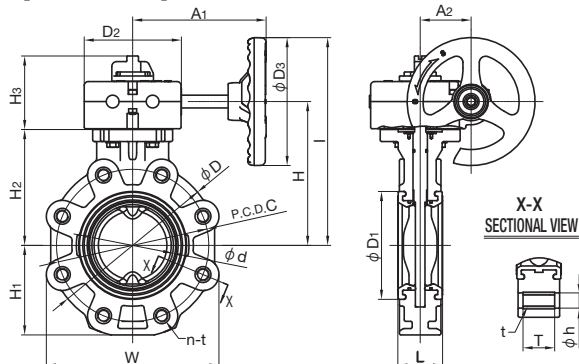
mm	H ₁	H ₂	H ₃	A	W	T	t	
80	97	135	56	250	180	34.7	5/8-11 UNC	
100	112	150	56	250	216	34.7	5/8-11 UNC	
150	141	183	69	320	271	54.7	3/4-10 UNC	
200	168	214	69	400	324	54.7	3/4-10 UNC	

ANSI (UNIT: inch)

		ANSI 150lb							
inch	mm	d	C	n	h	D	D ₁	L	H
3	80	3.03	6.00	4	0.75	7.28	4.13	1.81	7.52
4	100	4.02	7.50	8	0.75	8.27	5.28	2.20	8.11
6	150	5.91	9.50	8	0.87	10.63	7.48	2.80	9.92
8	200	7.68	11.75	8	0.87	12.60	9.53	3.43	11.14

inch	mm	H ₁	H ₂	H ₃	A	W	T	t	
3	80	3.82	5.31	2.20	9.84	7.09	1.37	5/8-11 UNC	
4	100	4.41	5.91	2.20	9.84	8.50	1.37	5/8-11 UNC	
6	150	5.55	7.20	2.72	12.60	10.67	2.15	3/4-10 UNC	
8	200	6.61	8.43	2.72	15.75	12.76	2.15	3/4-10 UNC	

[GEAR TYPE]



ANSI
(UNIT: mm)

		ANSI 150lb							
mm	d	C	n	h	D	D ₁	D ₂	D ₃	L
80	77	152.5	4	19	185	105	122	160	46
100	102	190.5	8	19	210	134	122	160	56
150	150	241.5	8	22	270	190	122	160	71
200	195	298.5	8	22	320	242	122	160	88
250	252	362	12	25	400	302	122	160	112
300	303	432	12	25	465	360	188	300	129

mm	H ₂	H ₃	I	A ₁	A ₂	W	T	t	HANDLE ROTATION
80	130	92	245	167	64	180	34.7	5/8-11 UNC	
100	145	92	260	167	64	216	34.7	5/8-11 UNC	
150	175	92	290	167	64	271	54.7	3/4-10 UNC	
200	206	92	321	167	64	324	54.7	3/4-10 UNC	
250	241	92	356	167	64	404	79.7	7/8-9 UNC	
300	298	108	490	242	99	471	79.7	7/8-9 UNC	

ANSI (UNIT: inch)

		ANSI 150lb							
inch	mm	d	C	n	h	D	D ₁	D ₂	D ₃
3	80	3.03	6.00	0.16	0.75	7.28	4.13	4.80	6.30
4	100	4.02	7.50	0.31	0.75	8.27	5.28	4.80	6.30
6	150	5.91	9.51	0.31	0.87	10.63	7.48	4.80	6.30
8	200	7.68	11.75	0.31	0.87	12.60	9.53	4.80	6.30
10	250	9.92	14.25	0.47	0.98	15.75	11.89	4.80	6.30
12	300	11.93	17.01	0.47	0.98	18.31	14.17	7.40	11.81

inch	mm	H ₃	I	A ₁	A ₂	W	T	t	HANDLE ROTATION	GEAR BOX TYPE
3	80	3.62	9.65	6.57	2.52	7.09	1.37	5/8-11 UNC		
4	100	3.62	10.24	6.57	2.52	8.50	1.37	5/8-11 UNC		
6	150	3.62	11.42	6.57	2.52	10.67	2.15	3/4-10 UNC		
8	200	3.62	12.64	6.57	2.52	12.76	2.15	3/4-10 UNC		
10	250	3.62	14.02	6.57	2.52	15.91	3.14	7/8-9 UNC		
12	300	4.25	19.29	9.53	3.90	18.54	3.14	7/8-9 UNC		

									9.5	TYPE1
										TYPE3

PDCPD LARGE SIZE BUTTERFLY VALVE

- THE USE OF PDCPD PLASTIC PROVIDES EXCELLENT RESISTANCE TO CORROSION (INCLUDING ELECTRIC CORROSION).
- LIGHTWEIGHT VALVE USING PDCPD PLASTIC WHOSE SPECIFIC GRAVITY IS 1/7 OF CAST IRON.
- SUPERIOR WATERTIGHT CHARACTERISTICS DUE TO FLANGED SEAT (EPDM)
- EXCELLENT FLOW CHARACTERISTICS DUE TO REDUCED THICKNESS OF VALVE ELEMENT
- HIGHER ABRASION RESISTANCE THAN CAST IRON

BASIC SPECIFICATIONS

VALVE TYPE — PDCPD LARGE SIZE BUTTERFLY VALVE

SIZE — 700 mm—1,200 mm (28 inch—48 inch)

BODY MATERIAL — PDCPD

SEAL MATERIAL / SEAT — EPDM

CONNECTION / WAFER — JIS10K, DIN, ANSI

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa[kg/cm ²]
PDCPD (700mm—1,000mm)	0°C ~ 80°C	0.75 {7.7}
PDCPD (1,100mm—1,200mm)	0°C ~ 60°C	0.75 {7.7}

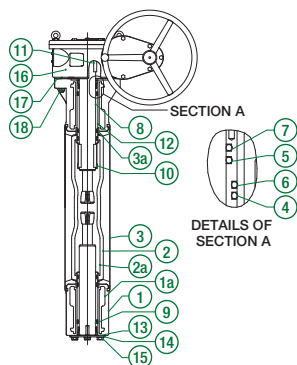
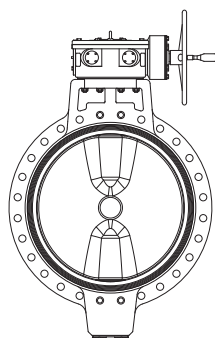
NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

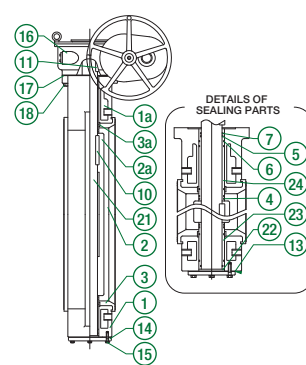
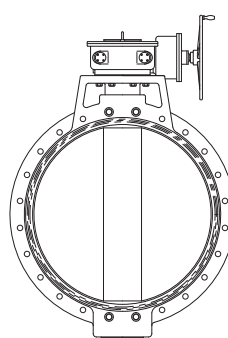


PARTS LIST

700mm-1,000mm



1,100mm-1,200mm



PART NO. / NAME	QTY	MATERIAL
① BODY	1	PDCPD
② DISC	1	PDCPD
③ SEAT	1	EPDM
⑧ STEM (A)	1	SUS403
⑨ STEM (B)	1	SUS403
⑩ KEY (A)	1	S45C
⑪ KEY (B)	1	S45C

PART NO. / NAME	QTY	MATERIAL
⑫ BUSH	2	BC6
⑬ GASKET (A)	1	NON ASBESTOS SHEET
⑭ STEM HOLDER	1	SUS304
⑮ BOLT (A)	6	SUS304
⑯ GEAR BOX	1	FC200, etc.
⑰ GASKET (B)	1	NON ASBESTOS SHEET
⑱ BOLT (B)	8	SUS304

PART NO. / NAME	QTY	MATERIAL
⑳ STEM HOLDER	1	SUS304
㉑ THRUST	1	BC6
㉒ BUSH (A)	1	BC6
㉓ BUSH (B)	1	BC6
㉔ BODY INSERT	1	FCD450
㉕ DISC INSERT	1	FCD450
㉖ SEAT RING	2	SUS304

SPECIFICATION LIST

LEVER TYPE		SIDE GEAR TYPE	TOP GEAR TYPE	
—		○	○	
CHAIN TYPE	LONG STEM TYPE	FLOAT TYPE	WITH LIMIT SWITCH	
—	○	—	—	

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

COMPATIBLE ACTUATOR

ELECTRIC

TYPE S

For detailed specifications, see P.137

PRODUCT MODEL
CODE LIST

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	PD	SG	D	E	W	*	***
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
V MANUAL VALVE	PD LARGE SIZE	SG SIDE GEAR TYPE	D PDCPD	E EPDM	W WAFER	1 JIS10K	700 700mm
						W —	1200 1,200mm
						D DIN	
						A ANSI	

PRODUCT MODEL
CODE LIST

AUTOMATIC

ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	PD	S	*	D	E	W	*	***
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
A AUTOMATIC VALVE	PD LARGE SIZE	S TYPE S	3 Three-Phase AC200V 4 Three-Phase AC400V	D PDCPD	E EPDM	W WAFER	1 JIS10K W — D DIN A ANSI	700 700mm 1200 1,200mm

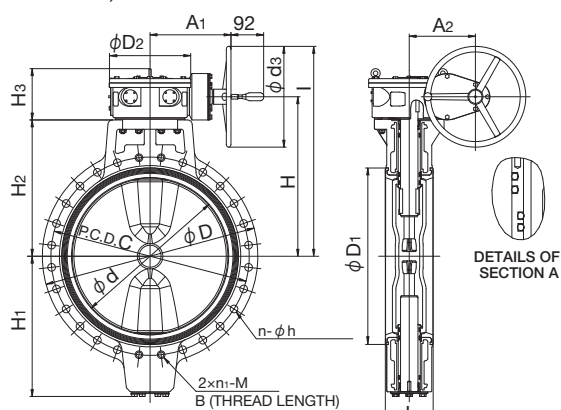
MANUAL

PDCPD LARGE SIZE BUTTERFLY VALVE

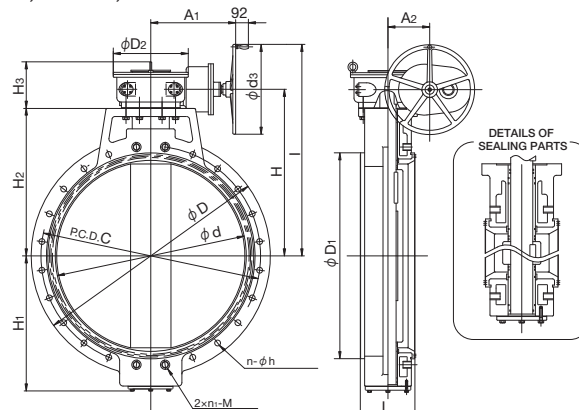
TYPE—VPDSG

CONNECTION / WAFER—JIS, DIN, ANSI

700mm-1,000mm



1,100mm-1,200mm



■ JIS, DIN (Unit: mm)

mm	d	D	D1	D2	d3	L	H	I	H1	H2	H3	A1	A2
700	670	928	760	350	435	206	685	897	589	590	251	402	285
800	770	1034	870	350	435	240	715	927	619	620	251	402	285
900	870	1168	978	350	635	240	800	1112	704	705	251	402	285
1000	970	1262	1080	460	635	300	845	1157	749	750	266	564	242
1100	1080	1380	1195	460	635	300	942	1260	780	840	264	564	242
1200	1170	1488	1300	460	635	350	992	1310	850	890	264	564	242

	JIS10K							WATERWORKS (JIS B 2062)							DIN PN10						
mm	C	h	N	n	n ₁	M	B	C	h	N	n	n ₁	M	B	C	h	N	n	n ₁	M	B
700	840	33	24	20	4	M30	35	—	—	—	—	—	—	—	840	33	24	20	4	M27	35
800	950	33	28	24	4	M30	35	—	—	—	—	—	—	—	950	33	28	20	4	M30	35
900	1050	33	28	24	4	M30	35	—	—	—	—	—	—	—	1050	33	28	24	4	M30	35
1000	1160	39	28	24	4	M36	35	—	—	—	—	—	—	—	1160	39	28	24	4	M33	42
1100	1270	39	28	24	4	M36	42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200	1380	39	32	28	4	M36	42	—	—	—	—	—	—	—	1380	39	32	28	4	M36	42

■ ANSI (Unit: inch)

inch	mm	d	D	D1	D2	d3	L	H	I	H1	H2	H3	A1	A2
28	700	26.38	36.54	29.92	13.78	17.13	8.11	26.97	35.31	23.19	23.23	9.88	15.83	11.22
32	800	30.31	40.71	34.25	13.78	17.13	9.45	28.15	36.50	24.37	24.41	9.88	15.83	11.22
36	900	34.25	45.98	38.50	13.78	25.00	9.45	31.50	43.78	27.72	27.76	9.88	15.83	11.22
40	1000	38.19	49.69	42.52	18.11	25.00	11.81	33.27	45.55	29.49	29.53	10.47	22.20	9.53
44	1100	42.52	54.33	47.05	18.11	25.00	11.81	37.09	49.61	30.71	33.07	10.39	22.20	9.53
48	1200	46.06	58.58	51.18	18.11	25.00	13.78	39.06	51.57	33.46	35.04	10.39	22.20	9.53

ANSI CLASS 125								ANSI CLASS 150								GEAR BOX TYPE
inch	mm	C	h	N	n	n1	M	B	C	h	N	n	n1	M	B	
28	700	—	—	—	—	—	—	—	34.00	1.38	28	24	4	1 1/4	1.38	BRM-10
32	800	—	—	—	—	—	—	—	38.50	1.62	28	24	4	1 1/2	1.38	
36	900	47.25	1.62	36	32	4	1 1/2	1.38	—	—	—	—	—	—	—	
40	1000	—	—	—	—	—	—	—	47.25	1.62	36	32	4	1 1/2	1.38	BRM-18
44	1100	—	—	—	—	—	—	—	51.75	1.62	40	36	4	1 1/2	1.77	
48	1200	56.00	1.62	44	40	4	1 1/2	1.77	56.00	1.62	44	40	4	1 1/2	1.77	

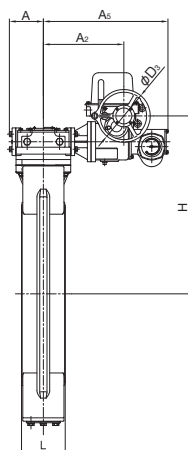
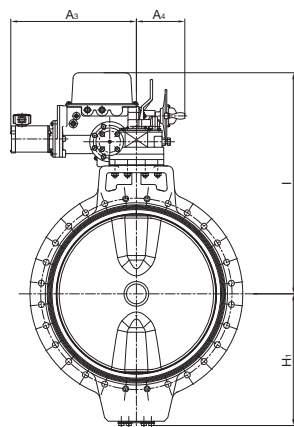


PDCPD LARGE SIZE BUTTERFLY VALVE

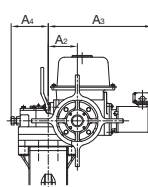
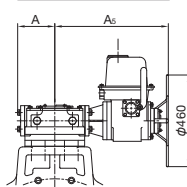
TYPE—APDS

CONNECTION / WAFER—JIS, DIN, ANSI

800 mm (32") - 1200 mm (48")



700 mm (28") ACTUATOR



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
700mm (28inch)	LTMD-02/BRM10
800mm (32inch)	LTMD-05/BRM10
900mm (36inch)	LTMD-05/BRM10
1,000mm (40inch)	LTMD-05/BRM18
1,100mm (44inch)	LTMD-05/BRM18
1,200mm (48inch)	LTMD-1/BRM18

For detailed specifications, see **P.137**

■ JIS, DIN (Unit: mm)

mm	L	H	H ₁	I	A	A ₂	A ₃	A ₄	A ₅
700	206	720	589	1048	186	146	521	186	570
800	240	892	619	1128	186	442	661	266	684
900	240	977	704	1213	186	442	689	266	684
1000	300	1008	749	1244	220	481	745	231	723
1100	300	881	780	1423	220	513	783	280	789
1200	350	911	850	1473	220	513	783	280	789

■ ANSI (Unit: inch)

inch	mm	L	H	H ₁	I	A	A ₂	A ₃	A ₄	A ₅
28	700	8.11	28.35	23.19	41.26	7.32	5.75	20.51	7.32	22.44
32	800	9.45	35.12	24.37	44.41	7.32	17.40	26.02	10.47	26.93
36	900	9.45	38.46	27.72	47.76	7.32	17.40	27.13	10.47	26.93
40	1000	11.81	39.69	29.49	48.98	8.66	18.94	29.33	9.09	28.46
44	1100	11.81	34.69	30.71	56.02	8.66	20.20	30.83	11.02	31.06
48	1200	13.78	35.87	33.46	57.99	8.66	20.20	30.83	11.02	31.06

ROTARY DAMPER

- BUTTERFLY VALVE FOR AIR VOLUME CONTROL (COMPLETE SEALING IS NOT AVAILABLE.)

BASIC SPECIFICATIONS

VALVE TYPE ——— ROTARY DAMPER

SIZE / LEVER TYPE ——— 40 mm—600 mm (1 1/2 inch—24 inch)

BODY MATERIAL ——— U-PVC PP PVDF

SEAL MATERIAL ——— EPDM FKM PTFE etc.

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

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)	
		40mm—200mm	250mm—600mm
U-PVC	0°C ~ 50°C	0.1 {1.02}	0.05 {0.51}
PP	-20°C ~ 80°C	0.1 {1.02}	0.05 {0.51}
PVDF	-20°C ~ 120°C	0.1 {1.02}	0.05 {0.51}

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

For parts list, see **OP. 105 and 106.**

SPECIFICATION LIST MANUAL

LEVER TYPE		SIDE GEAR TYPE		TOP GEAR TYPE			
							
CHAIN TYPE		LONG STEM TYPE		FLOAT TYPE		WITH LIMIT SWITCH	
				—			

* 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

PRODUCT MODEL CODE LIST

MANUAL
AUTOMATIC

ACTUATION	TYPE	ACTUATOR TYPE	OPERATION SYSTEM / ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
*	**	**	*	*	*	W	*	***
MANUAL V MANUAL VALVE	D7 TYPE 57 D6 TYPE 56 DP TYPE 75	PNEUMATIC K TYPE TA ELECTRIC T TYPE T S TYPE S	MANUAL LV LEVER TYPE SG SIDE GEAR TYPE 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 T PTFE	W WAFER	1 JIS10K 5 JIS5k W — D DIN A ANSI	40 40mm ~ 600 600mm

* Specify only in the case of automatic type.

MANUAL

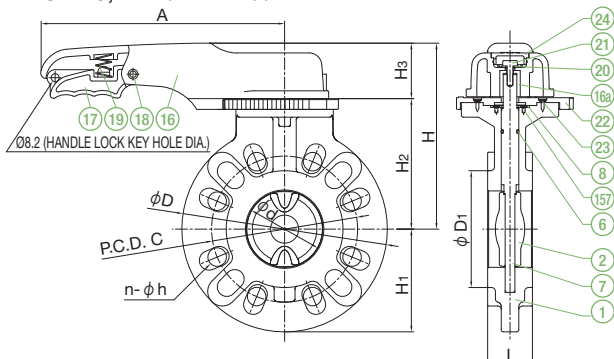
BODY MATERIAL
U-PVC
PP

ROTARY DAMPER (BODY MATERIAL — U-PVC, PP)

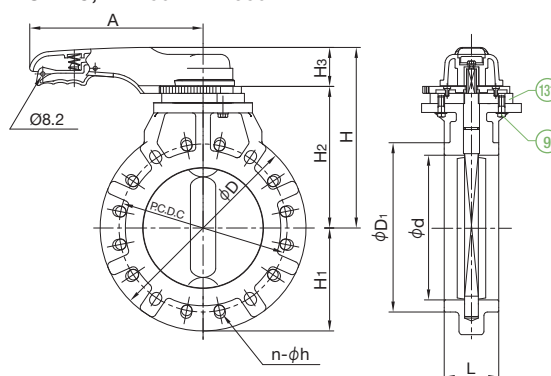
TYPE — VD7LV, VD6LV, VDPLV, VD7SG, VD6SG, VDPSG

CONNECTION / WAFER — JIS, DIN, ANSI

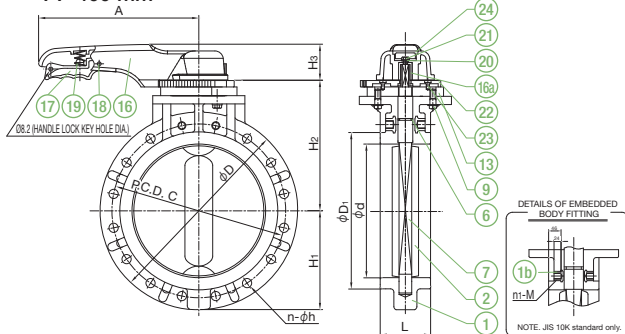
U-PVC, PP 40 mm - 200 mm



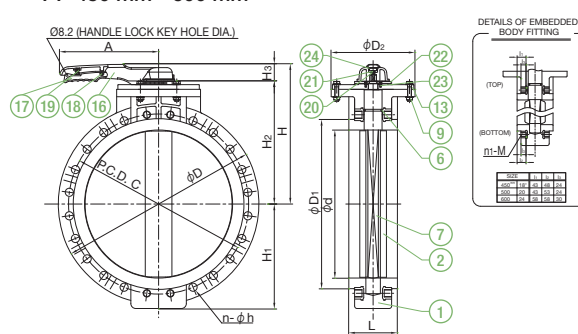
U-PVC, PP 250 mm - 350 mm



PP 400 mm



PP 450 mm - 600 mm



PART NO. / NAME	QTY	MATERIAL	MEMO
19 SPRING	1	SUS304	
20 WASHER (A)	1	SUS304	
21 BOLT (B)	1	SUS304	
22 LOCKING PLATE	1	PPG	
23 SET SCREW (B)	4	SUS304	
24 CAP (A)	1	PP	
15 SET SCREW (F)	4	SUS304	Used for 40 mm - 200 mm.
13 STEM HOLDER (C)	1	PP	Used for 250 mm - 600 mm.
1b EMBEDDED BODY FITTING	4	C3604	Used for JIS10K standard 400 mm.
	8		Used for JIS10K standard 450 mm - 600 mm.

PART NO. / NAME	QTY	MATERIAL	MEMO
1 BODY	1	BODY — DISC — STEM	
2 DISC	1	U-PVC — PP — U-PVC	
7 STEM	1	PP — PP — PP	
6 O-RING (C)	1	EPDM, FKM, etc.	
8 STEM HOLDER (A)	1	PP	Used for 40 mm - 200 mm.
9 BOLT (A)	3	SUS304	Used for 250 mm - 600 mm.
16 HANDLE (A)	1	PP	
15 EMBEDDED HANDLE FITTING	1	SUS316	Used for 40 mm - 400 mm.
17 HANDLE LEVER	1	PPG	
18 PIN	1	PPG	

■ 40 - 600 mm JIS DIN (UNIT: mm)

											JIS5K				JIS10K						DIN PN10		
mm	d	D	D ₁	L	H	H ₁	H ₂	H ₃	A		C	n	h		C	n	h	n ₁	M		C	n	h
40	46	150	86	32	156	75	100	56	220		95	4	15		105	4	19	—	—		110	4	18
50	57	165	96	35	166	83	110	56	220		105	4	15		120	4	19	—	—		125	4	18
65	70	185	116	37	176	93	120	56	220		130	4	15		140	4	19	—	—		145	4	18
80	78	211	120	37	191	106	135	56	250		145	4	19		150	8	19	—	—		160	8	18
100	103	238	152	47	206	119	150	56	250		165	8	19		175	8	19	—	—		180	8	18
125	129	263	190	57	237	132	168	69	320		200	8	19		210	8	23	—	—		210	8	18
150	150	285	208	62	252	143	183	69	320		230	8	19		240	8	23	—	—		240	8	22
200	195	340	242	76	283	170	214	69	400		280	8	23		290	12	23	—	—		295	8	22
250	251	421	332	96	342	211	273	69	400		345	12	23		355	12	25	—	—		350	12	23
300	303	488	400	116	399	244	330	69	400		390	12	23		400	16	25	—	—		400	12	23
350	352	539	414	116	426	270	357	69	400		435	12	25		445	16	25	—	—		460	16	23
400	394	600	470	157	451	300	382	69	400		495	16	25		510	14	27	2	M24		515	16	27
450	441	633	525	167	496	315	402	69	400		555	16	25		565	16	27	4	M24		565	20	27
500	488	699	575	177	526	350	432	69	400		605	20	25		620	16	27	4	M24		620	20	27
600	600	813	686	197	591	424	497	69	400		715	20	27		730	20	33	4	M30		725	20	30

■ 1 1/2 inch - 24 inch ANSI (UNIT: inch)

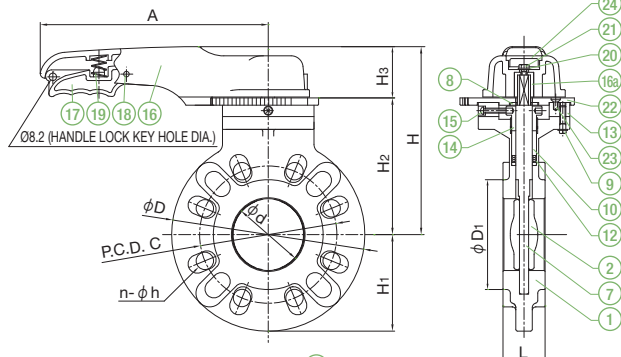
											ANSI CLASS 150											
inch	mm	d	D	D ₁	L	H	H ₁	H ₂	H ₃	A	C	n	h		C	n	h					
1 1/2	40	1.81	5.91	3.39	1.26	6.14	2.95	3.94	2.20	8.66	3.68	4	0.62		3.68	4	0.75					
2	50	2.24	6.50	3.78	1.38	6.54	3.27	4.33	2.20	8.66	4.75	4	0.75		4.75	4	0.75					
2 1/2	65	2.76	7.28	4.57	1.46	6.93	3.66	4.72	2.20	8.66	5.50	4	0.75		5.50	4	0.75					
3	80	3.07	8.31	4.72	1.46	7.52	4.17	5.31	2.20	9.84	6.00	4	0.75		6.00	4	0.75					
4	100	4.06	9.37	5.98	1.85	8.11	4.69	5.91	2.20	9.84	7.50	8	0.75		7.50	8	0.75					
5	125	5.08	10.35	7.48	2.24	9.33	5.20	6.61	2.72	12.60	8.50	8	0.88		8.50	8	0.88					
6	150	5.91	11.22	8.19	2.44	9.92	5.63	7.20	2.72	12.60	9.50	8	0.88		9.50	8	0.88					
8	200	7.68	13.39	9.53	2.99	11.14	6.69	8.43	2.72	15.75	11.75	8	0.88		11.75	8	0.88					
10	250	9.88	16.57	13.07	3.78	13.46	8.31	10.75	2.72	15.75	14.25	12	0.98		14.25	12	0.98					
12	300	11.93	19.21	15.75	4.57	15.71	9.61	12.99	2.72	15.75	17.01	12	0.98		17.01	12	0.98					
14	350	13.86	21.22	16.30	4.57	16.77	10.63	14.06	2.72	15.75	18.74	12	1.14		18.74	12	1.14					
16	400	15.51	23.62	18.50	6.18	17.76	11.81	15.04	2.72	15.75	21.24	16	1.14		21.24	16	1.14					
18	450	17.36	24.92	20.67	6.57	19.53	12.40	15.83	2.72	15.75	22.76	16	1.26		22.76	16	1.26					
20	500	19.21	27.52	22.64	6.97	20.71	13.78	17.01	2.72	15.75	25.00	20	1.26		25.00	20	1.26					
24	600	23.62	32.01	27.01	7.76	23.27	16.69	19.57	2.72	15.75	29.51	20	1.38		29.51	20	1.38					

ROTARY DAMPER (BODY MATERIAL — PVDF)

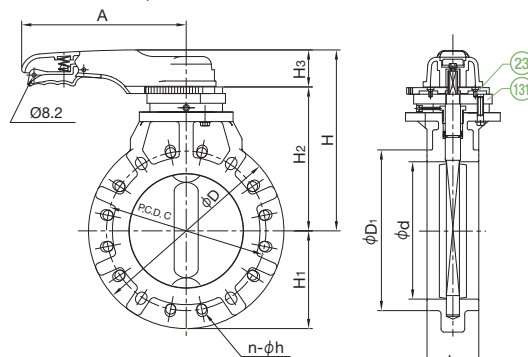
TYPE — VD7LV, VD6LV, VDPLV, VD7SG, VD6SG, VDPSG

CONNECTION / WAFER — JIS, DIN, ANSI

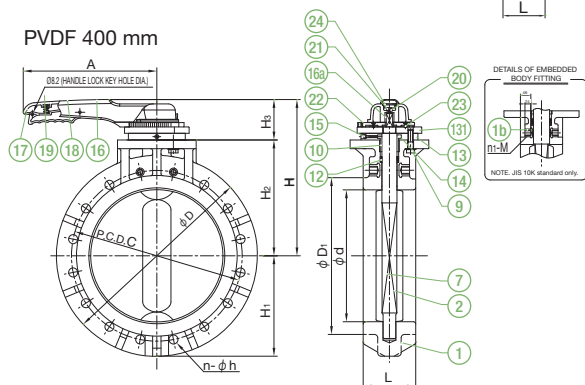
PVDF 40 mm - 350 mm



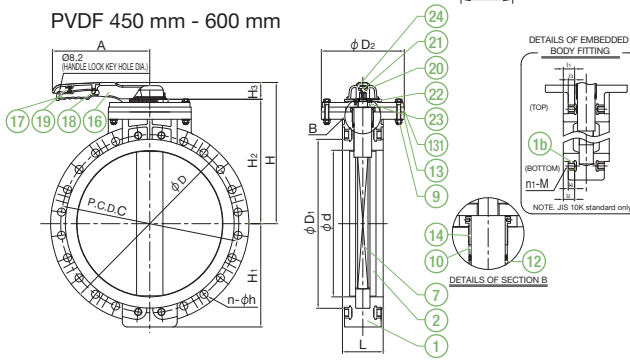
PVDF 300mm, 350 mm



PVDF 400 mm



PVDF 450 mm - 600 mm



PART NO. / NAME	QTY	MATERIAL	MEMO
1 BODY	1	PVDF	
2 DISC	1	PVDF	
7 STEM	1	PVDF	
8 STEM HOLDER (A)	1	SUS304	Used for 40 mm - 250 mm.
9 BOLT (A)	4	SUS304	Used for 40 mm - 400 mm.
	3	SUS304	Used for 450 mm - 600 mm.
10 BUSH (A)	1	PTFE	Used for 40 mm - 350 mm.
		PVDF	Used for 400 mm - 600 mm.
12 V PACKING	1 SET	PTFE	

PART NO. / NAME	QTY	MATERIAL	MEMO
13 SPACER (A)	1 SET	C-PVC	
14 GLAND	1	PVDF	
15 SCREW (A)	1	SUS304	Used for 40 mm - 400 mm.
16 EMBEDDED HANDLE FITTING	1	SUS316	Used for 40 mm - 400 mm.
17 HANDLE LEVER	1	PPG	
18 PIN	1	PPG	
19 SPRING	1	SUS304	
20 WASHER (A)	1	SUS304	
21 BOLT (B)	1	SUS304	

PART NO. / NAME	QTY	MATERIAL	MEMO
22 LOCKING PLATE	1	PPG	
23 SET SCREW (B)	4	SUS304	300mm, 350mm, 450mm-600mm
	2		Used for 40 mm - 250 mm, 400 mm.
24 CAP (A)	1	PP	
13 STEM HOLDER (C)	1	PP	Used for 300 mm - 600 mm.
16 EMBEDDED BODY FITTING	4	C3604	Used for JIS10K standard 400 mm.
	8		Used for JIS10K standard 450 mm - 600 mm.

■ 40 - 600 mm JIS DIN (UNIT: mm)

										JIS5K			JIS10K					DIN PN10		
mm	d	D	D ₁	L	H	H ₁	H ₂	H ₃	A	C	n	h	C	n	h	n ₁	M	C	n	h
40	46	150	86	32	179	75	123	56	220	95	4	15	105	4	19	—	—	110	4	18
50	57	165	96	35	189	83	133	56	220	105	4	15	120	4	19	—	—	125	4	18
65	70	185	116	37	199	93	143	56	220	130	4	15	140	4	19	—	—	145	4	18
80	78	211	120	37	214	106	158	56	250	145	4	19	150	8	19	—	—	160	8	18
100	103	238	152	47	229	119	173	56	250	165	8	19	175	8	19	—	—	180	8	18
125	128	263	190	57	257	132	188	69	320	200	8	19	210	8	23	—	—	210	8	18
150	150	285	208	62	272	143	203	69	320	230	8	19	240	8	23	—	—	240	8	22
200	195	340	264	76	303	170	234	69	400	280	8	19	290	12	23	—	—	295	8	22
250	251	409	322	96	346	205	277	69	400	345	12	23	355	12	25	—	—	350	12	23
300	303	472	388	116	419	236	350	69	400	390	12	23	400	16	25	—	—	400	12	23
350	352	524	404	116	446	262	377	69	400	435	12	25	445	16	25	—	—	460	16	23
400	394	600	470	157	471	300	402	69	400	495	16	25	510	14	27	2	M24	515	16	27
450	441	630	525	167	491	315	422	69	400	555	16	25	565	16	27	4	M24	565	20	27
500	488	680	575	177	521	350	452	69	400	605	20	25	620	16	27	4	M24	620	20	27
600	600	790	686	197	586	424	517	69	400	715	20	27	730	20	33	4	M30	725	20	30

■ 1 1/2 inch - 24 inch ANSI (UNIT: inch)

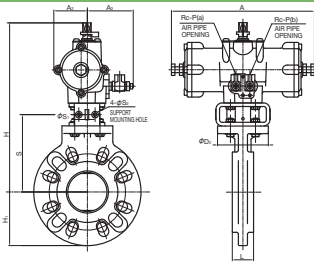
■ 1 1/2 inch - 24 inch ANSI (UNIT: inch)												ANSI CLASS 150			
inch	mm	d	D	D ₁	L	H	H ₁	H ₂	H ₃	A	C	n	h		
1 1/2	40	1.81	5.91	3.39	1.26	7.05	2.95	4.84	2.20	8.66	3.88	4	0.62		
	50	2.24	6.50	3.78	1.38	7.44	3.27	5.24	2.20	8.66	4.75	4	0.75		
2 1/2	65	2.76	7.28	4.57	1.46	7.83	3.66	5.63	2.20	8.66	5.50	4	0.75		
	80	3.07	8.31	4.72	1.46	8.43	4.17	6.22	2.20	9.84	6.00	4	0.75		
4	100	4.06	9.37	5.98	1.85	9.02	4.69	6.81	2.20	9.84	7.50	8	0.75		
5	125	5.04	10.35	7.48	2.24	10.12	5.20	7.40	2.72	12.60	8.50	8	0.88		
6	150	5.91	11.22	8.19	2.44	10.71	5.63	7.99	2.72	12.60	9.50	8	0.88		
8	200	7.68	13.39	10.39	2.99	11.93	6.69	9.21	2.72	15.75	11.75	8	0.88		
10	250	9.88	16.10	12.68	3.78	13.62	8.07	10.91	2.72	15.75	14.25	12	0.98		
12	300	11.93	18.58	15.28	4.57	16.50	9.29	13.78	2.72	15.75	17.01	12	0.98		
14	350	13.86	20.63	15.91	4.57	17.56	10.31	14.84	2.72	15.75	18.74	12	1.14		
16	400	15.51	23.62	18.50	6.18	18.54	11.81	15.83	2.72	15.75	21.24	16	1.14		
18	450	17.36	24.80	20.67	6.57	19.33	12.40	16.61	2.72	15.75	22.76	16	1.26		
20	500	19.21	26.77	22.64	6.97	20.51	13.78	17.80	2.72	15.75	25.00	20	1.26		
24	600	23.62	31.10	27.01	7.76	23.07	16.69	20.35	2.72	15.75	29.51	20	1.38		



ROTARY DAMPER TYPE 57

TYPE—AD7K

CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

mm	L	D ₂	H		H ₁		A	A ₂	A ₃	S	S ₁	S ₂	P
			U-PVC, PP	PVDF	U-PVC, PP	PVDF							
40	32	100	263	283	75	75	210	46	84	117.5	32	7	1/4
50	35	100	273	293	83	83	210	46	84	127.5	32	7	1/4
65	37	100	283	303	93	93	210	46	84	137.5	32	7	1/4
80	37	100	298	318	106	106	210	46	84	152.5	32	7	1/4
100	47	100	313	333	119	119	210	46	84	167.5	32	7	1/4
125	57	140	382	402	132	132	292	71	93	185.5	42	9	1/4
150	62	140	397	417	143	143	292	71	93	200.5	42	9	1/4
200	76	140	459	479	170	170	362	86	105	231.5	42	9	1/4
250	96	180	494	514	211	205	362	86	105	266.5	42	9	1/4
300	116	235	570	590	244	236	362	86	105	—	—	—	1/4
350	116	235	622	642	270	262	440	90	108	—	—	—	1/4

■ ANSI (Unit: inch)

inch	mm	L	D ₂	H		H ₁		A	A ₂	A ₃	S	S ₁	S ₂	P
				U-PVC, PP	PVDF	U-PVC, PP	PVDF							
1 1/2	40	1.26	3.94	10.35	11.14	2.95	2.95	8.27	1.81	3.31	4.63	1.26	0.28	1/4
2	50	1.38	3.94	10.75	11.54	3.27	3.27	8.27	1.81	3.31	5.02	1.26	0.28	1/4
2 1/2	65	1.46	3.94	11.14	11.93	3.66	3.66	8.27	1.81	3.31	5.41	1.26	0.28	1/4
3	80	1.46	3.94	11.73	12.52	4.17	4.17	8.27	1.81	3.31	6.00	1.26	0.28	1/4
4	100	1.85	3.94	12.32	13.11	4.69	4.69	8.27	1.81	3.31	6.59	1.26	0.28	1/4
5	125	2.24	5.51	15.04	15.83	5.20	5.20	11.50	2.80	3.66	7.30	1.65	0.35	1/4
6	150	2.44	5.51	15.63	16.42	5.63	5.63	11.50	2.80	3.66	7.89	1.65	0.35	1/4
8	200	2.99	5.51	18.07	18.86	6.69	6.69	14.25	3.39	4.13	9.11	1.65	0.35	1/4
10	250	3.78	7.09	19.45	20.24	8.31	8.07	14.25	3.39	4.13	10.49	1.65	0.35	1/4
12	300	4.57	9.25	22.44	23.23	9.61	9.29	14.25	3.39	4.13	—	—	—	1/4
14	350	4.57	9.25	24.49	25.28	10.63	10.31	17.32	3.54	4.25	—	—	—	1/4

ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	TA2A-050D
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	TA2A-080D
125mm (5inch)	
150mm (6inch)	
200mm (8inch)	TA2A-100D
250mm (10inch)	
300mm (12inch)	
350mm (14inch)	TA2A-125D

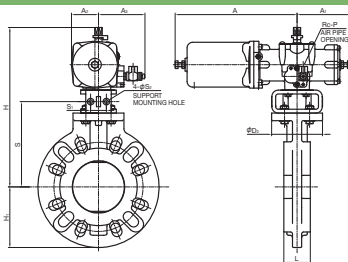
For detailed specifications, see P.123



ROTARY DAMPER TYPE 57

TYPE—AD7K

CONNECTION / WAFER—JIS, DIN, ANSI



■ JIS, DIN (Unit: mm)

mm	L	D ₂	H		H ₁		A	A ₁	A ₂	A ₃	S	H ₂	H ₃	H ₃
			U-PVC, PP	PVDF	U-PVC, PP	PVDF								
40	32	100	263	283	75	75	240	105	53	98	137.5	32	7	1/4
50	35	100	273	293	83	83	240	105	53	98	147.5	32	7	1/4
65	37	100	283	303	93	93	240	105	53	98	157.5	32	7	1/4
80	37	100	298	318	106	106	240	105	53	98	172.5	32	7	1/4
100	47	100	313	333	119	119	240	105	53	98	187.5	32	7	1/4
125	57	140	382	402	132	132	341	146	83	107	205.5	42	9	1/4
150	62	140	397	417	143	143	341	146	83	107	220.5	42	9	1/4
200	76	140	459	479	170	170	417	181	103	119	251.5	42	9	1/4
250	96	180	494	514	211	205	417	181	103	119	286.5	42	9	1/4
300	116	235	570	590	244	236	417	181	103	119	—	—	—	1/4
350	116	235	622	642	270	262	542	220	119	122	—	—	—	1/4

■ ANSI (Unit: inch)

inch	mm	L	D ₂	H		H ₁		A	A ₁	A ₂	A ₃	S	H ₂	H ₃	H ₃
				U-PVC, PP	PVDF	U-PVC, PP	PVDF								
1 1/2	40	1.26	3.94	10.35	11.14	2.95	2.95	9.45	4.13	2.09	3.86	5.41	1.26	0.28	1/4
2	50	1.38	3.94	10.75	11.54	3.27	3.27	9.45	4.13	2.09	3.86	5.81	1.26	0.28	1/4
2 1/2	65	1.46	3.94	11.14	11.93	3.66	3.66	9.45	4.13	2.09	3.86	6.20	1.26	0.28	1/4
3	80	1.46	3.94	11.73	12.52	4.17	4.17	9.45	4.13	2.09	3.86	6.79	1.26	0.28	1/4
4	100	1.85	3.94	12.32	13.11	4.69	4.69	9.45	4.13	2.09	3.86	7.38	1.26	0.28	1/4
5	125	2.24	5.51	15.04	15.83	5.20	5.20	13.43	5.75	3.27	4.21	8.09	1.65	0.35	1/4
6	150	2.44	5.51	15.63	16.42	5.63	5.63	13.43	5.75	3.27	4.21	8.68	1.65	0.35	1/4
8	200	2.99	5.51	18.07	18.86	6.69	6.69	16.42	7.13	4.06	4.69	9.90	1.65	0.35	1/4
10	250	3.78	7.09	19.45	20.24	8.31	8.07	16.42	7.13	4.06	4.69	11.28	1.65	0.35	1/4
12	300	4.57	9.25	22.44	23.23	9.61	9.29	16.42	7.13	4.06	4.69	—	—	—	1/4
14	350	4.57	9.25	24.49	25.28	10.63	10.31	21.34	8.66	4.69	4.80	—	—	—	1/4

ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	TA2A-050R
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	TA2A-080R
125mm (5inch)	
150mm (6inch)	
200mm (8inch)	TA2A-100R2
250mm (10inch)	
300mm (12inch)	
350mm (14inch)	TA2A-125R2

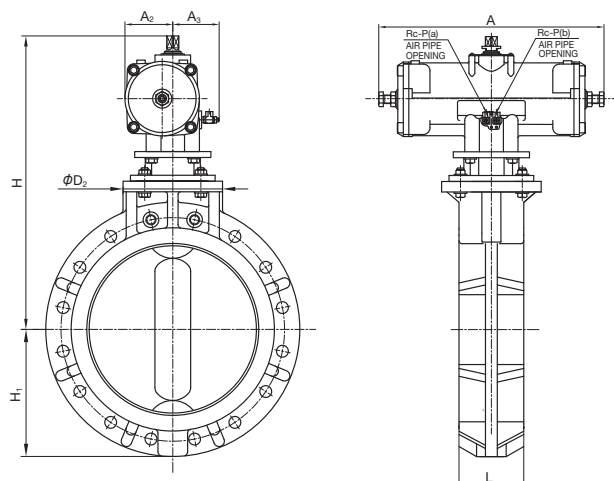
For detailed specifications, see P.123



ROTARY DAMPER TYPE 56

TYPE—AD6K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	TA2A-160D

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	L	D ₂	H		H ₁	A	A ₂	A ₃	P
			PP	PVDF					
400	157	235	693	709	300	532	113	116	1/4

■ ANSI (Unit: inch)

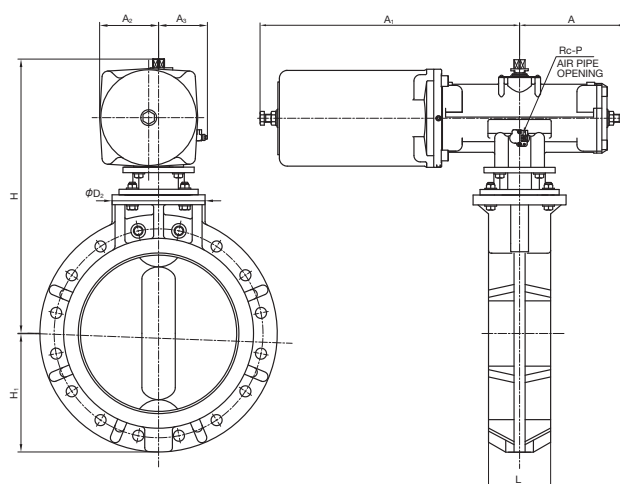
inch	mm	L	D ₂	H		H ₁	A	A ₂	A ₃	P
				PP	PVDF					
16	400	6.18	9.25	27.28	27.91	11.81	20.94	4.45	4.57	1/4



ROTARY DAMPER TYPE 56

TYPE—AD6K

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
400mm (16inch)	TA2A-160R2

For detailed specifications, see **P.123**

■ JIS, DIN (Unit: mm)

mm	L	D ₂	H		H ₁	A	A ₁	A ₂	A ₃	P
			PP	PVDF						
400	157	235	693	709	300	658	266	149	130	1/4

■ ANSI (Unit: inch)

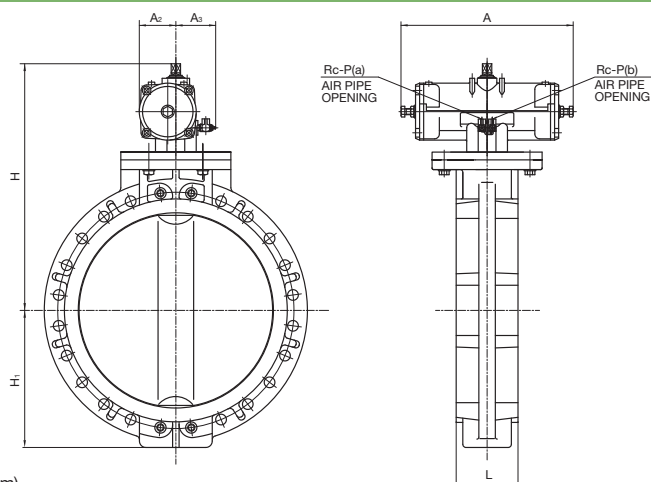
inch	mm	L	D ₂	H		H ₁	A	A ₁	A ₂	A ₃	P
				PP	PVDF						
16	400	6.18	9.25	27.28	27.91	11.81	25.91	10.47	5.87	5.12	1/4



ROTARY DAMPER TYPE 75

TYPE—ADPK

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
450mm (18inch)	TA2A-160D
500mm (20inch)	
600mm (24inch)	

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

30, 50, 60, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 6000, 7000, 8000, 9000, 10000, 12500, 15000, 20000, 25000, 30000, 35000, 40000, 45000, 50000, 60000, 70000, 80000, 90000, 100000, 125000, 150000, 200000, 250000, 300000, 350000, 400000, 450000, 500000, 600000, 700000, 800000, 900000, 1000000, 1250000, 1500000, 2000000, 2500000, 3000000, 3500000, 4000000, 4500000, 5000000, 6000000, 7000000, 8000000, 9000000, 10000000, 12500000, 15000000, 20000000, 25000000, 30000000, 35000000, 40000000, 45000000, 50000000, 60000000, 70000000, 80000000, 90000000, 100000000, 125000000, 150000000, 200000000, 250000000, 300000000, 350000000, 400000000, 450000000, 500000000, 600000000, 700000000, 800000000, 900000000, 1000000000, 1250000000, 1500000000, 2000000000, 2500000000, 3000000000, 3500000000, 4000000000, 4500000000, 5000000000, 6000000000, 7000000000, 8000000000, 9000000000, 10000000000, 12500000000, 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■ ANSI (Unit: inch)

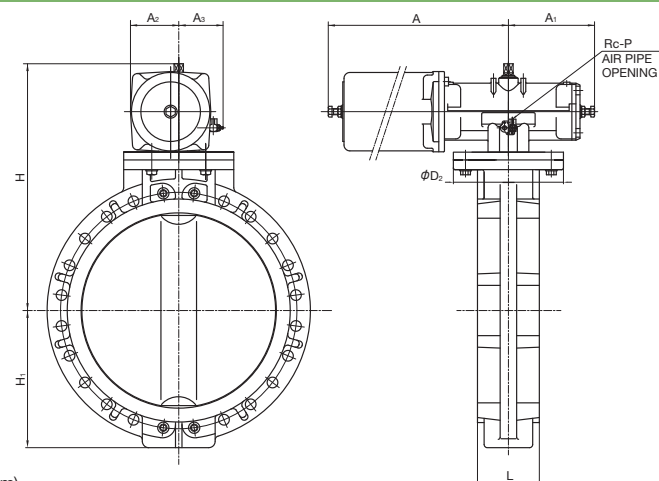
inch	mm	L	H		H ₁	A	A ₂	A ₃	P
			PP	PVDF					
18	450	6.57	26.42	26.77	12.40	20.94	4.45	4.57	1/4
20	500	6.97	27.60	27.91	13.78	20.94	4.45	4.57	1/4
24	600	7.76	30.16	30.39	16.69	20.94	4.45	4.57	1/4



ROTARY DAMPER TYPE 75

TYPE—ADPK

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
450mm (18inch)	TA2A-160R2
500mm (20inch)	
600mm (24inch)	

For detailed specifications, see P.123

■ JIS, DIN (Unit: mm)

Table 2.10 (Continued)											
mm	L	D ₂	H		H ₁	A	A ₁	A ₂	A ₃	P	
			PP	PVDF							
450	167	340	671	680	315	658	266	149	130	1/4	
500	177	340	701	709	350	658	266	149	130	1/4	
600	197	340	766	772	424	658	266	149	130	1/4	

■ ANSI (Unit: inch)

TABLE 1 (continued)												
inch	mm	L	D ₂	H		H ₁	A	A ₁	A ₂	A ₃	P	
				PP	PVDF							
18	450	6.57	13.39	26.42	26.77	12.40	25.91	10.47	5.87	5.12	1/4	
20	500	6.97	13.39	27.60	27.91	13.78	25.91	10.47	5.87	5.12	1/4	
24	600	7.76	13.39	30.16	30.39	16.69	25.91	10.47	5.87	5.12	1/4	

AUTOMATIC

ELECTRIC

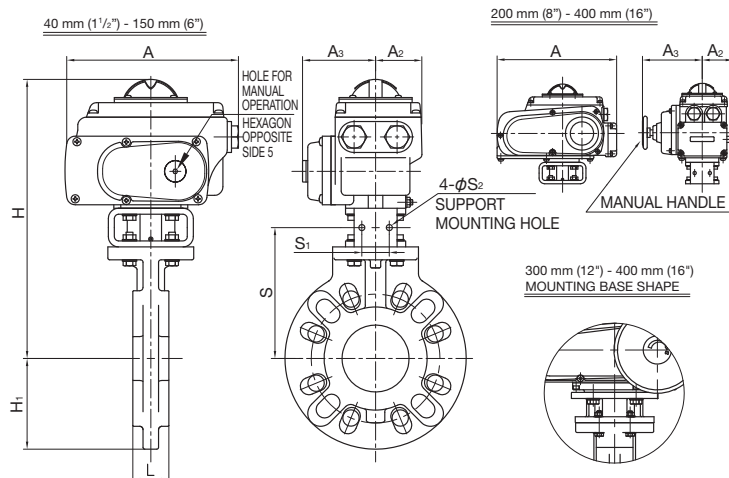
TYPE T

Single-Phase 100V
Single-Phase 200V

ROTARY DAMPER TYPE 57, 56

TYPE—AD7T, AD6T

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	T-0
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	
125mm (5inch)	T-2
150mm (6inch)	
200mm (8inch)	
250mm (10inch)	
300mm (12inch)	T-3
350mm (14inch)	
400mm (16inch)	

For detailed specifications, see P.139

■ JIS, DIN (Unit: mm)

mm	L	H	U-PVC, PP	PVDF	H ₁	A	A ₂	A ₃	S	S ₁	S ₂
40	32	290	310	75	202	53.8	85	117.5	32	7	—
50	35	300	320	83	202	53.8	85	127.5	32	7	—
65	37	310	330	93	202	53.8	85	137.5	32	7	—
80	37	325	345	106	202	53.8	85	152.5	32	7	—
100	47	340	360	119	202	53.8	85	167.5	32	7	—
125	57	361	381	128	202	53.8	85	185.5	42	9	—
150	62	376	396	143	202	53.8	85	200.5	42	9	—
200	76	455	475	175	310	85	154	231.5	42	9	—
250	96	490	510	211	310	85	154	266.5	42	9	—
300	116	566	586	244	310	85	154	—	—	—	—
350	116	593	613	270	310	85	154	—	—	—	—
400	157	650	670	300	388	136	245.5	—	—	—	—

■ ANSI (Unit: inch)

inch	mm	L	H	U-PVC, PP	PVDF	H ₁	A	A ₂	A ₃	S	S ₁	S ₂
1 1/2	40	1.26	11.42	12.20	2.95	7.95	2.12	3.35	4.63	1.26	0.28	—
2	50	1.38	11.81	12.60	3.27	7.95	2.12	3.35	5.02	1.26	0.28	—
2 1/2	65	1.46	12.20	12.99	3.66	7.95	2.12	3.35	5.41	1.26	0.28	—
3	80	1.46	12.80	13.58	4.17	7.95	2.12	3.35	6.00	1.26	0.28	—
4	100	1.85	13.39	14.17	4.69	7.95	2.12	3.35	6.59	1.26	0.28	—
5	125	2.24	14.21	15.00	5.04	7.95	2.12	3.35	7.30	1.65	0.35	—
6	150	2.44	14.80	15.59	5.63	7.95	2.12	3.35	7.89	1.65	0.35	—
8	200	2.99	17.91	18.70	6.89	12.20	3.35	6.06	9.11	1.65	0.35	—
10	250	3.78	19.29	20.08	8.31	12.20	3.35	6.06	10.49	1.65	0.35	—
12	300	4.57	22.28	23.07	9.61	12.20	3.35	6.06	—	—	—	—
14	350	4.57	23.35	24.13	10.63	12.20	3.35	6.06	—	—	—	—
16	400	6.18	25.59	26.38	11.81	15.28	5.35	9.67	—	—	—	—

AUTOMATIC

ELECTRIC

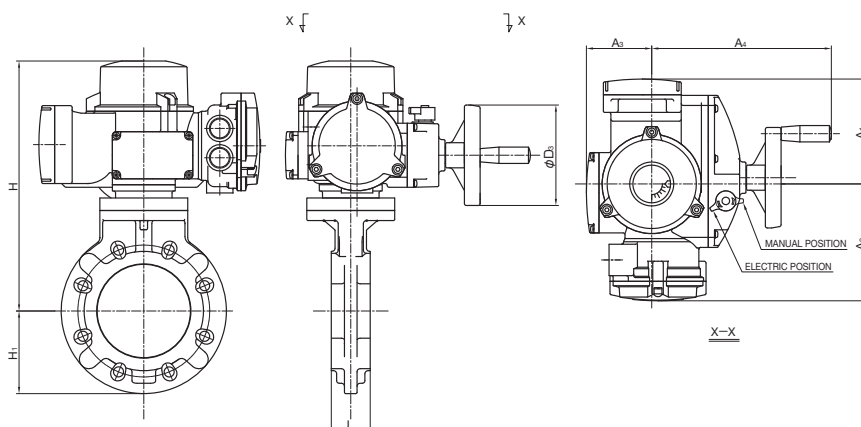
TYPE S

Three-Phase
AC200V
Three-Phase
AC400V

ROTARY DAMPER TYPE 57, 56, 75

TYPE—AD7S, AD6S, ADPS

CONNECTION / WAFER—JIS, DIN, ANSI



ACTUATOR SELECTION CHART

SIZE	ACTUATOR TYPE
40mm (1 1/2inch)	SRJ-010
50mm (2inch)	
65mm (2 1/2inch)	
80mm (3inch)	
100mm (4inch)	
125mm (5inch)	SRJ-020
150mm (6inch)	
200mm (8inch)	
250mm (10inch)	
300mm (12inch)	SRJ-060
350mm (14inch)	
400mm (16inch)	
450mm (18inch)	
500mm (20inch)	SRJ-060
600mm (24inch)	

For detailed specifications, see P.133

■ JIS, DIN (Unit: mm)

mm	L	H	U-PVC, PP	PVDF	H ₁	A	A ₂	A ₃	A ₄
40	32	313	333	75	167	186	104	286	—
50	35	323	343	83	167	186	104	286	—
65	37	333	353	93	167	186	104	286	—
80	37	348	368	106	167	186	104	286	—
100	47	363	383	119	167	186	104	286	—
125	57	398	418	132	167	186	104	286	—
150	62	413	433	143	167	186	104	286	—
200	76	444	464	175	167	186	104	286	—
250	96	486	506	211	167	186	104	286	—
300	116	543	563	244	167	186	104	286	—
350	116	570	590	270	167	186	104	286	—
400	157	612	632	300	191	202	130	330	—
450	167	623	648	315	191	202	130	330	—
500	177	653	678	350	191	202	130	330	—
600	197	717	742	424	191	202	130	330	—

■ ANSI (Unit: inch)

inch	mm	L	H	U-PVC, PP	PVDF	H ₁	A	A ₂	A ₃	A ₄
1 1/2	40	1.26	12.32	13.11	2.95	6.57	7.32	4.09	11.26	—
2	50	1.38	12.72	13.50	3.27	6.57	7.32	4.09	11.26	—
2 1/2	65	1.46	13.11	13.90	3.66	6.57	7.32	4.09	11.26	—
3	80	1.46	13.70	14.49	4.17	6.57	7.32	4.09	11.26	—
4	100	1.85	14.29	15.08	4.69	6.57	7.32	4.09	11.26	—
5	125	2.24	15.67	16.46	5.20	6.57	7.32	4.09	11.26	—
6	150	2.44	16.26	17.05	5.63	6.57	7.32	4.09	11.26	—
8	200	2.99	17.48	18.27	6.89	6.57	7.32	4.09	11.26	—
10	250	3.78	19.13	19.92	8.31	6.57	7.32	4.09	11.26	—
12	300	4.57	21.38	22.17	9.61	6.57	7.32	4.09	11.26	—
14	350	4.57	22.44	23.23	10.63	6.57	7.32	4.09	11.26	—
16	400	6.18	24.09	24.88	11.81	7.52	7.95	5.12	12.99	—
18	450	6.57	24.53	25.51	12.40	7.52	7.95	5.12	12.99	—
20	500	6.97	25.71	26.69	13.78	7.52	7.95	5.12	12.99	—
24	600	7.76	28.23	29.21	16.69	7.52	7.95	5.12	12.99	—