

BUTTERFLY VALVE TYPE 55

- HIGH CORROSION RESISTANCE AGAINST CORROSIVE FLUID (IDEAL FOR CORROSIVE CHEMICAL LINE)
- Cv 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}

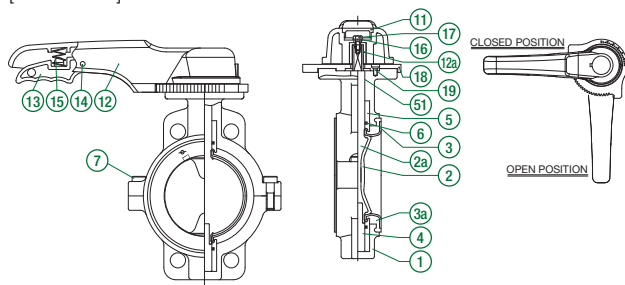
NOTE The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

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

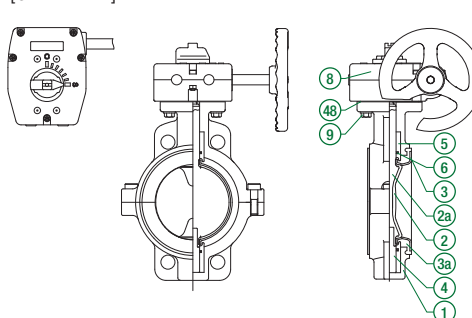


PARTS LIST **MANUAL**

[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
⑮a WASHER	1	SUS304
⑮b BOLT (C)	1	SUS304
⑮c LOCKING PLATE	1	PPG
⑮d STOP RING	4	SUS304
⑮e O-RING (B)	1	NBR

ONLY USED FOR GEAR TYPE

PART NO. / NAME	QTY	MATERIAL
⑮ GEAR BOX	1	RESIN, etc.
⑮a BOLT (B)	4	SUS304
⑮b 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	MANUAL VALVE	LV LEVER TYPE SG SIDE GEAR TYPE	S FCDS	T PTFE	W WAFER	1 JIS10K 5 JIS5K D DIN A ANSI	050 50mm 250 250mm

PRODUCT MODEL
CODE LIST
AUTOMATIC

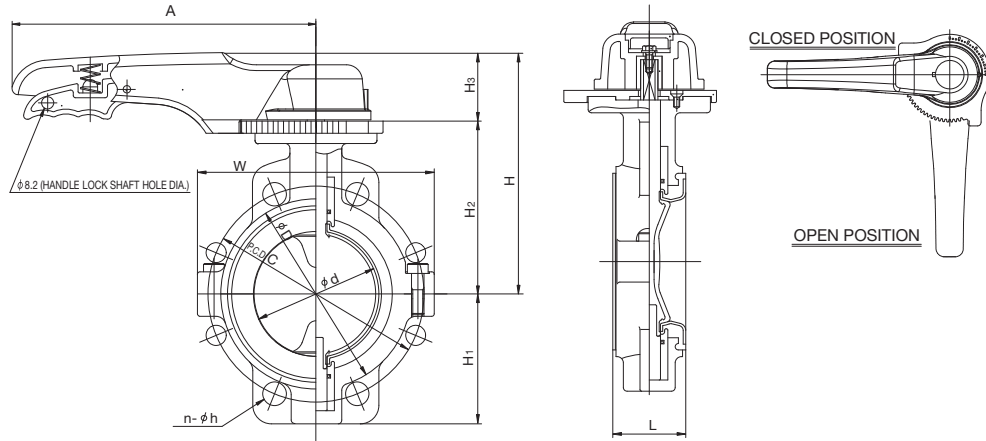
ACTUATION	TYPE	ACTUATOR TYPE	ACTION / POWER SOURCE	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
A	55	*	*	S	T	W	*	***
A	AUTOMATIC VALVE	PNEUMATIC K TYPE TA ELECTRIC T TYPE T S TYPE S	PNEUMATIC F DOUBLE ACTING G AIR TO OPEN S AIR TO CLOSE ELECTRIC 1 Single-Phase 100V 2 Single-Phase 200V 3 Three-Phase 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			JIS10K			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 ₂		H ₃			W	A	A ₁	A ₂	HANDLE ROTATION	C	n	h	GEAR BOX TYPE
					LEVER TYPE	GEAR TYPE	H ₁	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	

AUTOMATIC

PNEUMATIC

TYPE TA

DOUBLE ACTING

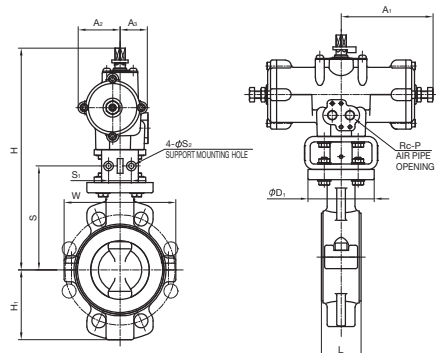
AIR TO OPEN

AIR TO CLOSE

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

AUTOMATIC

PNEUMATIC

TYPE TA

DOUBLE ACTING

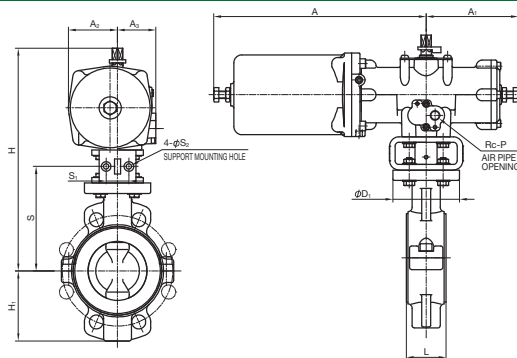
AIR TO OPEN

AIR TO CLOSE

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

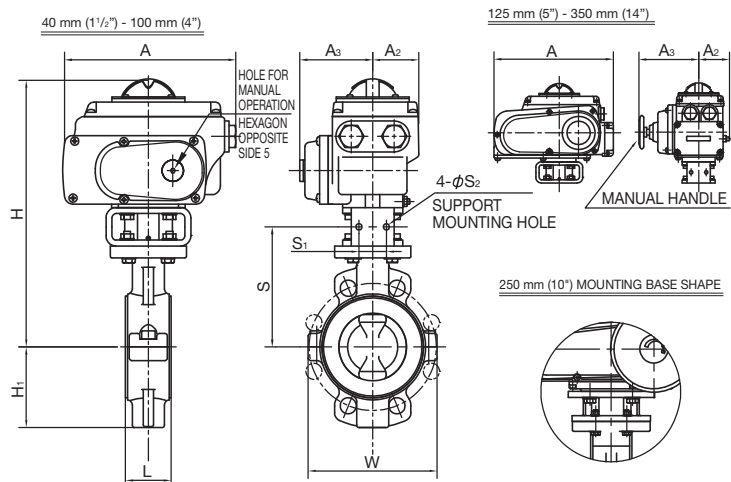
TYPE T

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

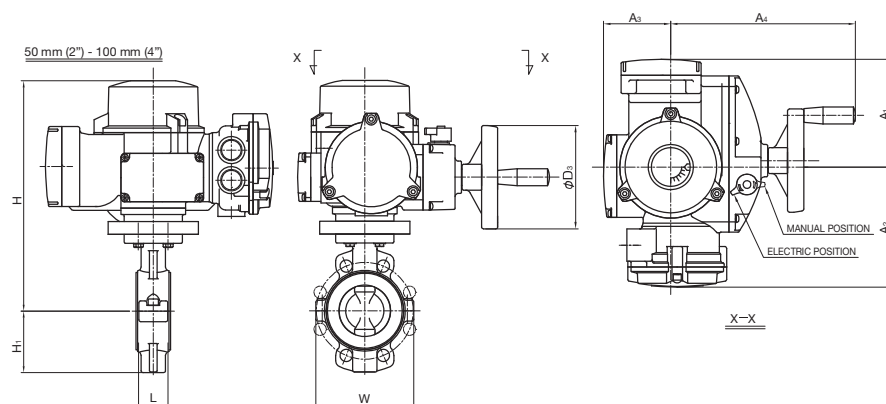
TYPE S

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

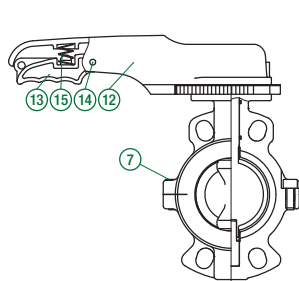
	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)
FCD450	-20°C ~ 100°C	1.0 {10.2}

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.

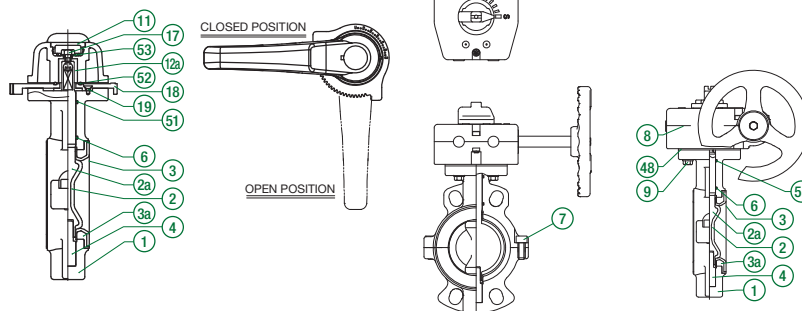


PARTS LIST [MANUAL](#)

[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

PART NO. / NAME	QTY	MATERIAL
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

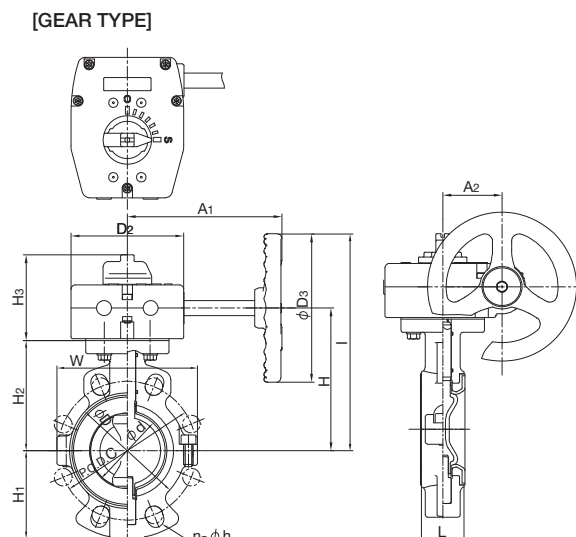
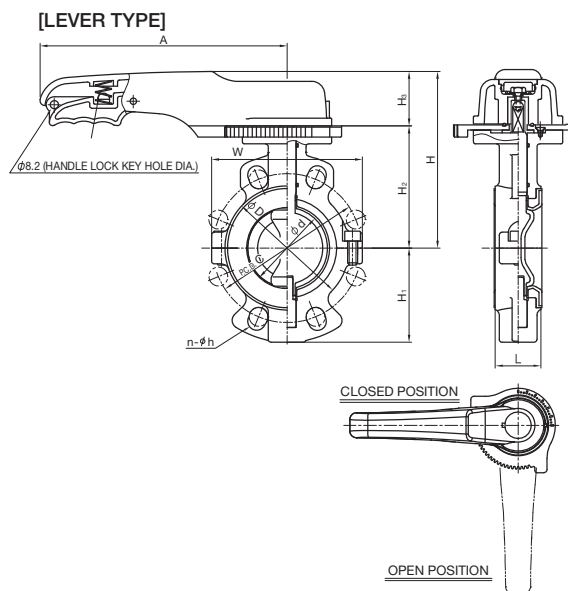
ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	5S	**	4	T	W	*	***
V MANUAL VALVE	5S TYPE 55IS	LV LEVER TYPE SG SIDE GEAR TYPE	4 FCD450	T PTFE	W WAFER	1 JIS10K 5 JIS5K D DIN A ANSI	050 50mm 200 200mm

MANUAL

BUTTERFLY VALVE TYPE 55IS

TYPE—V5SLV, V5SSG

CONNECTION / WAFER—JIS, DIN, ANSI



■ 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	56	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	