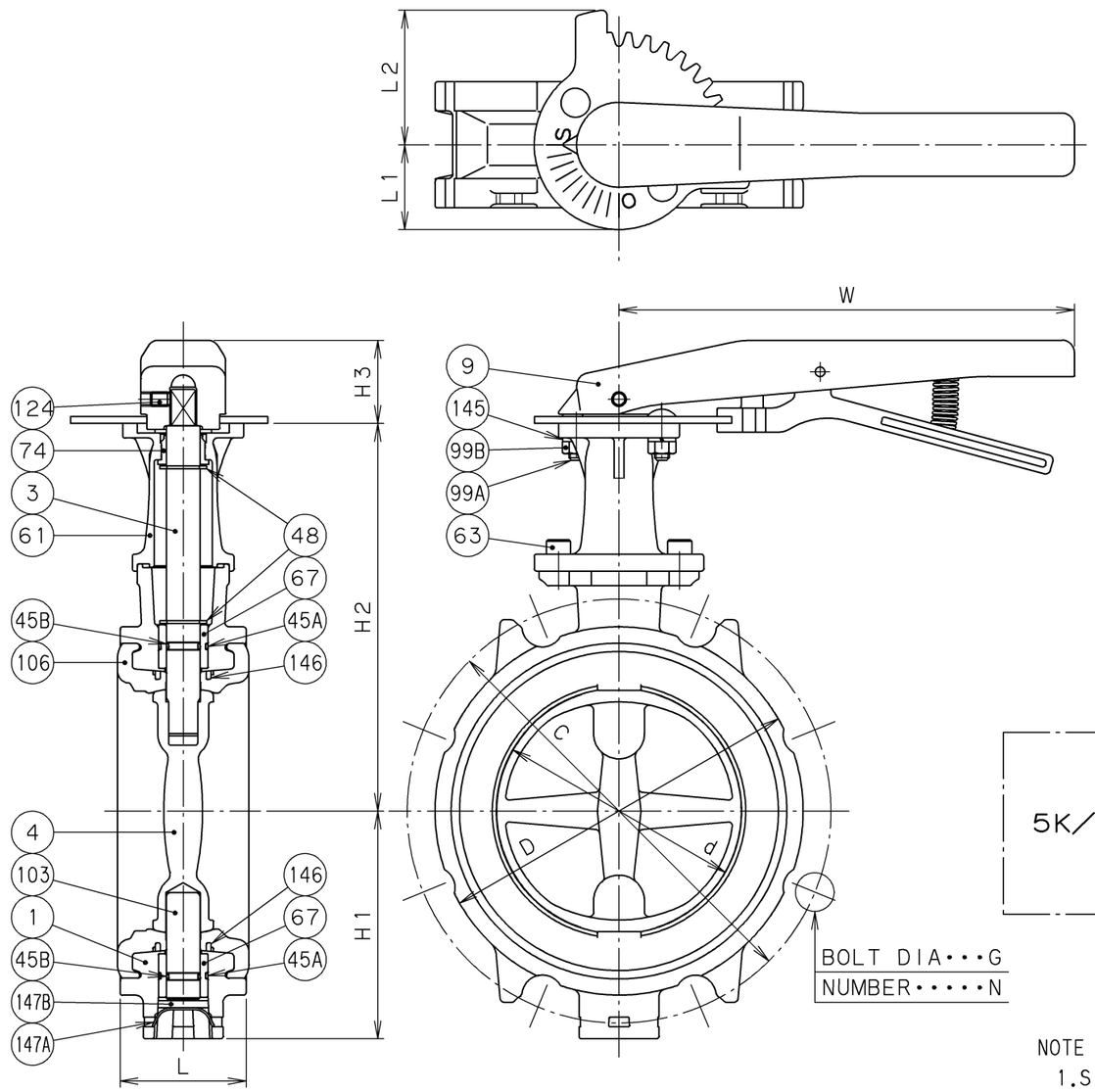
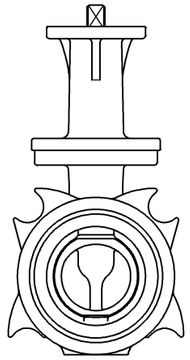




SIZE 40

TOYO

YOKE MARKING

5K/10K

100
ADC12

BODY MARKING

NOTE
1.Size 40 is out of scope of JIS B 2032.

No.	PART	MATERIAL	NOTE
147B	BOTTOM PLATE	EPDM	SIZE 50~150
147A	BOTTOM CAP	SUS301	SIZE 50~150
146	BACK UP RING	ZDC2	SIZE 50~150
145	SPRING WASHER	SUS304	
124	SET SCREW	SUS304	
106	SEAT RUBBER	EPDM	
103	BOTTOM STEM	SUS410	SIZE 50~150
99B	NUT	SUS304	
99A	BOLT	SUS304	
74	THRUST BEARING	PE	
67	BEARING	PPS	
63	BOLT	SUS304	
61	YOKE	SCS13A	
48	SNAP RING	SUS304	
45B	O-RING	EPDM	
45A	O-RING	EPDM	
9	LEVER UNIT		
4	DISC	SCS13A	
3	STEM	SUS410	
1	BODY	ADC12	

DIMENSIONS　　UNIT:mm

	SIZE	d	L	H1	H2	H3	D	FLANGE JIS 5K C	FLANGE JIS 5K N	FLANGE JIS 5K G	FLANGE JIS 10K C	FLANGE JIS 10K N	FLANGE JIS 10K G	L1	L2	W	LEVER UNIT	MASS (Kg)	Q'ty
※	40	42	33	40.0	127.5	34.5	79.5	95	4	M12	105	4	M16	35	56	188	L-1A	1.0	
	50	50	43	64.5	132.0	34.5	87.0	105	4	M12	120	4	M16	35	56	188	L-1A	1.2	
	65	66	46	72.5	140.0	34.5	107.0	130	4	M12	140	4	M16	35	56	188	L-1A	1.4	
	80	79	46	84.0	150.0	34.5	122.0	145	4	M16	150	8	M16	35	56	188	L-1B	1.7	
	100	101	52	94.0	160.0	34.5	152.0	165	8	M16	175	8	M16	35	56	188	L-1B	2.1	
	125	125	56	124.5	195.0	44.0	178.0	200	8	M16	210	8	M20	48	58	260	L-2A	3.7	
	150	148	56	136.0	207.0	44.0	208.0	230	8	M16	240	8	M20	48	58	260	L-2A	4.4	

FACE TO FACE OR END TO END	JIS B2032 SERIES46
END CONNECTION	WAFER TYPE JIS 5K/10K
WALL THICKNESS	MAKER'S STANDARD
PRESSURE TEST	MAKER'S STANDARD

10K
ALUMINIUM ALLOY DIE CAST
WAFER TYPE
RUBBER SEATED
BUTTERFLY VALVE
WITH LEVER OPERATOR
JIS B 2032

		FIGURE	PRODUCT CODE
APP'D	K.Kobayashi	10ALM-N-LUE	550LA
CHK'D	H.Fuseya		
CHK'D	M.Mochizuki	DRAWING No.	
PREP'D	K.Kohama	16441300 △1	
DATE	JUL.31.'15		

MARK	DATE	BY
△		

TOYO Toyo Valve Co., Ltd.

Form-設計-003△

— DEW CONDENSATION-PROOF —

JIS 10K Aluminum Butterfly Valves アルム ALM®

Standard Specification

Fig.		550
Applicable standard		JIS B2032
Body type		Wafer type
Mating flange		JIS5K/10K、ASME 150、(PN16)*3
End-to-end dimension		JIS B2002 series 46 (ISO 5752 Basic Series 20)
Maximum service pressure		1.0 MPa
Service temperature		EPDM seat : -20*4～100°C
Material	Body	ADC 12 *1
	Disc	SCS 14A (316SS)
	Rubber seat	EPDM *2
	Stem	SUS 410
	Yoke	SCS 13A (304SS)
	O-Ring	EPDM *2
Test pres.	Shell (Water)	1.5 MPa
	Seat (Water)	1.1 MPa

Remarks : *1 Two component polyurethane resin painting.
*2 NBR or FKM seat available upon request.
A FKM seat is recommended for hot wafer supply line.
*3 Max. pressure is 10 Bar.
*4 Please consult our sales staff or distributor for usage under 0°C.

⚠ Caution : 1. A rubber seat (NBR/EPDM) may deteriorate at an early stage in service for hot water supply line.
2. An EPDM seated butterfly valve shall not be used for all oil applications.

■ Features

● Conform to the specification of JIS and Japanese government offices

It conforms to the specification of JIS B2032 (wafer type rubber-seated butterfly valves) and Japanese government offices as a valve used for supply water services or air-conditioning facilities, etc. in buildings.

● Half of conventional type by weight! Super light-weight and slim body made of aluminum alloy

Since a body is made of aluminum alloy die casting (ADC12), which has light weight and excellent mechanical strength, it is a general-purpose butterfly valve that weight is as light as 1/2 of cast iron butterfly valve, and 1/10 of JIS cast iron gate valve, and dimension and height are as compact as 1/4 and 1/2 when compared with a gate valve.

● Excellent seat sealing capability and durability

By adopting spherical-surface disc and spherical-surface seat structure, high seat sealing capability and low torque performance are sufficiently improved as compared with former products, and the durability of rubber seat is improved immensely.

● Dew condensation-proof

The thermal insulation yoke made of austenitic stainless steel is provided between valve body and actuator, and it blocks transfer of the fluid temperature to a valve operating device and will minimize the dew condensation. Moreover, it is designed with the easy structure for disassembly and recycle of the material.
(Refer to the 18-page graph for dew condensation-proof capacity.)

● Suitable for rusty water prevention

By only disc and rubber seat contacting fluid, red water (rusty water) doesn't come out of valve body.
Disc : 18Cr(s)-12NiMo steel (SCS14A-316SS)
Rubber seat : EPDM (NBR or FKM available upon request)

● Long neck structure in consideration of construction method and operability

For the minimum 62mm long neck structure under the actuator, the heat and cold thermal insulation is easily carried out, and it does not have trouble in valve operation.
(When thermal insulation is also carried out with gear actuator, the extended indicator kit is available upon request. -- Refer to 14-page)

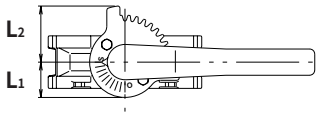
● Wide range of selecting operators

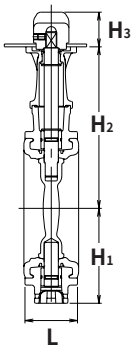
Lever handle
Worm gear
Pneumatic actuator (double/single action) — + Fig.550
Electric actuator

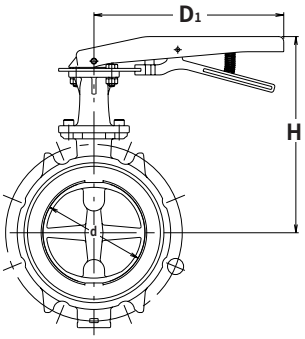
JIS 10K Aluminum Butterfly Valves

10K/150 Lever Operated Aluminum Wafer Butterfly Valve

Fig. 550LA





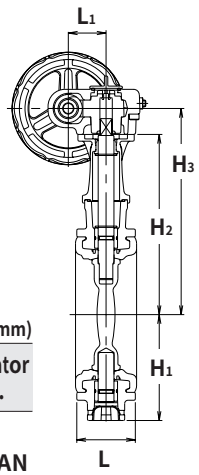


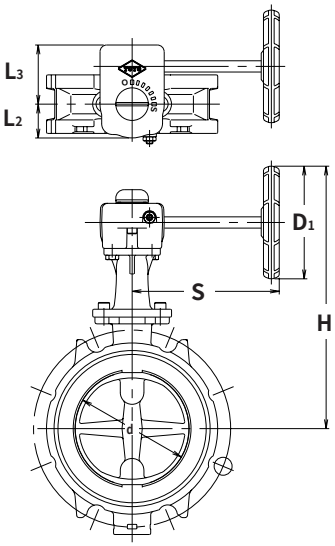
(mm)

size	d	L	H	H1	H2	H3	L1	L2	D1	Actuator No.
40	42	33	162	40.0	127.5	34.5	35	56	188	L-1A
50	50	43	166.5	64.5	132.0					
65	66	46	174.5	72.5	140.0					L-1B
80	79	46	184.5	84.0	150.0					
100	101	52	194.5	94.0	160.0					
125	125	56	239	124.5	195.0	44.0	48	58	260	L-2A
150	148	56	251	136.0	207.0					

10K/150 Gear Operated Aluminum Wafer Butterfly Valve

Fig. 550GA





(mm)

size	d	L	H	H1	H2	H3	L1	L2	L3	S	D1	Actuator No.
40	42	33	200.5	40.0	127.5	150.5	34	30	52	131	100	G-00AN
50	50	43	205	64.5	132.0	155.0						
65	66	46	213	72.5	140.0	163.0						G-00BN
80	79	46	223	84.0	150.0	173.0						
100	101	52	233	94.0	160.0	183.0						
125	125	56	269	124.5	195.0	219.0	41	39	67	132		G-01AN
150	148	56	281	136.0	207.0	231.0						
200	198	60	335	165.0	234.0	265.0	58	48	89	149	140	G-02AN
250	245	68	445	238	328	360	63	51	91	180	170	No.2
300	295	78	470	263	353	385						