

BOLT DIA...G
NUMBER.....N

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

DIMENSIONS

UNIT : mm

SIZE	d	L	H1	H2	H3	H4	D	FLANGE						L1	L2	L3	S	W	GEAR UNIT	MASS (Kg)	Q'ty
								JIS 5K			JIS 10K										
								C	N	G	C	N	G								
40	42	33	40.0	127.5	150.5	29	79.5	95	4	M12	105	4	M16	34	30	52	131	100	G-00AN	1.3	
50	50	43	64.5	132.0	155.0	29	87.0	105	4	M12	120	4	M16	34	30	52	131	100	G-00AN	1.5	
65	66	46	72.5	140.0	163.0	29	107.0	130	4	M12	140	4	M16	34	30	52	131	100	G-00AN	1.7	
80	79	46	84.0	150.0	173.0	29	122.0	145	4	M16	150	8	M16	34	30	52	131	100	G-00BN	2.0	
100	101	52	94.0	160.0	183.0	29	152.0	165	8	M16	175	8	M16	34	30	52	131	100	G-00BN	2.4	
125	125	56	124.5	195.0	219.0	32	178.0	200	8	M16	210	8	M20	41	39	67	132	100	G-01AN	4.1	
150	148	56	136.0	207.0	231.0	32	208.0	230	8	M16	240	8	M20	41	39	67	132	100	G-01AN	4.8	
200	198	60	165.0	234.0	265.0	38	257.0	280	8	M20	290	12	M20	58	48	89	149	140	G-02AN	8.1	

No.	PART	MATERIAL	NOTE
147B	BOTTOM PLATE	EPDM	SIZE 50~200
147A	BOTTOM CAP	SUS301	SIZE 50~200
146	BACK UP RING	ZDC2	SIZE 50~200
106	SEAT RUBBER	EPDM	
103	BOTTOM STEM	SUS410	SIZE 50~200
102	GEAR UNIT		
99	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	
16	PLATE	A1050P	
9	HAND WHEEL	ADC12	
4	DISC	SCS13A	
3	STEM	SUS410	
1	BODY	ADC12	

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 GEAR OPERATOR
JIS B 2032

APP'D	K.Kobayashi	FIGURE	PRODUCT CODE
CHK'D	H.Fuseya	10ALM-N-GUE	550GA
CHK'D	M.Mochizuki	DRAWING No.	
PREP'D	K.Kohama	16451300	
DATE	JUL.31.'15	MARK	DATE BY



Toyo Valve Co., Ltd.

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	
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 .

- ! **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)

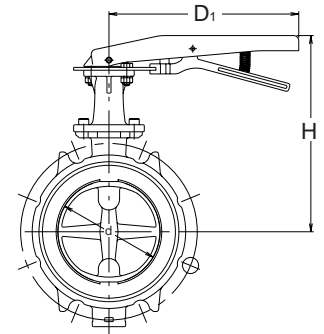
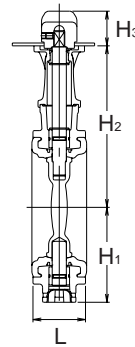
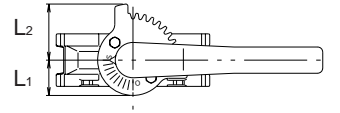
Electric actuator

} + Fig.550

JIS 10K Aluminum Butterfly Valves

10K/150 Lever Operated Aluminum Wafer Butterfly Valve

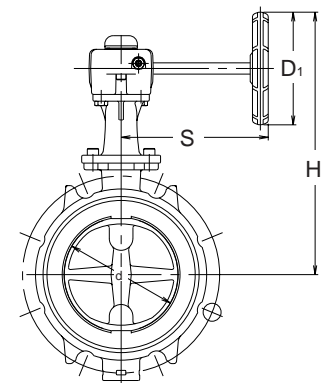
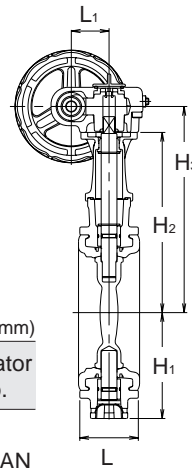
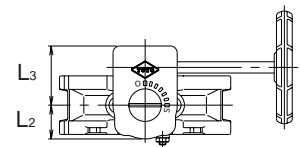
Fig. 550LA



(mm)										
size	d	L	H	H ₁	H ₂	H ₃	L ₁	L ₂	D ₁	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					
80	79	46	184.5	84.0	150.0	44.0	48	58	260	L-2A
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	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	S	D ₁	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						
80	79	46	223	84.0	150.0	173.0	41	39	67	132	140	G-01AN
100	101	52	233	94.0	160.0	183.0						
125	125	56	269	124.5	195.0	219.0	58	48	89	149	170	No.2
150	148	56	281	136.0	207.0	231.0						
200	198	60	335	165.0	234.0	265.0	63	51	91	180	170	No.2
250	245	68	445	238	328	360						
300	295	78	470	263	353	385						