#### Product Code Table

MODEL	OPERATION	SIZE	MATERIAL
54HA	G	150A	-13A
			-14A
			-16A
54HB	G	150A	-13A
			-14A
			-16A

#### Caution When Handling Valve

Be sure to read the "High-Performance Butterfly Valve Instructions Manual"attached to parts, and use the valve correctly.

delivered, install piping as it is.

#### Storage

- The PTFE seat ring is easily danaged, so do not detach the protection plates on either side of the body till installing the valve,Prevent dust or oil from entering the body;otherwise a leak may coour.
- · If you store the valve for a long period,keep it in a cool and dark place, if possible; avoid temperatures out of the range of-10°Cand 40°C,high humidity,and/or vibration.

#### Piping Installation

- Be sure to hold the valve by the flange before installation. Carry out a flushing blow inside the pipe before installing the
- Fit a pipe gasket correctly at the center of the pipe flange
- and the valve, and check it for displacement. When fluid is steam,install the valve so that the stem side is
- the upstream of flow direction. Do not use a pipe flange packing made from a soft material such as rubber. Joint seats (two seats) are recommended for a
- pipe gasket.If you use a special gasket such as thinly rollen type,contact us for assistance.
- When fitting the automatic valve, be careful not to set its actuator downward. When the actuator stands sideways,include a support. When removing a valve that has been attached to the pipe, have the valve element fully open.
- Do not install the valve immediately affer welding the pipe flange.Be sure not to complete piping work until flange
- temperature becomes normal. Never weld the valve after fitting it to the flange.
- Insert the valve in the flange so that the pitch of the pipe flange faces is 6 to 10mm longer than the side-to-side length of

- diagonal lines evenly. Uneven tightness may cause a leak.

· Although the set ring is a little floated when

 When using the valve in an environment involving dust,low or high temperatures(0°C or less,or 80°C or more),freeze,or snowfall,contact our dealership or us

#### Operation

- · When fluid is 0°C or less,the valve may become forzen; therefore keep the valve body warm.
- · When carrying out a piping pressure test at the rated pressure or higher, be sure to keep the disc fully open rather than substitute the valve for a blocking
- Do not use tools (such as a pipe wrench)other than those specified to open or close the manually operated valve.

#### Maintenance and Check

- · When detaching the valve from the pipe, close the base valve before starting work.
- · If a leak occurs from the gland part,immediately tighten gland nuts evenly in a staggered sequence.If the leak continues, change the gland packing.

  • Do not touch the stopper bolt on the actuator(a
- gear, a cylinder, or an electric motor); otherwise a leak
- · Check the valve once or twice a year to ensure that

Warranty Period Our products are guaranteed for either a period of 18 months from shipment out of our factory or 12 months from trial operation, whichever is the shorter.

· Because specifications and designs are subject to change without notice, be sure to contact us when considering a purchase.



#### **HEAD Office and Factory**

446-1,Ohtani,Hino-cho,Gamo-gun,Shiga Prefecture 529-1608,Japan. Phone 81-748-52-2131 Fax 81-748-52-5025 http://www.okm-net.co.jp/

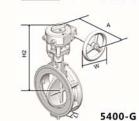
#### SUZHOU Office and Factory

No. 96-5, Ying Chun South Road WuZhong E.D.Z SuZhou P.R. China Phone 0512-65853859 Fax 0512-65131741

CAT-5400-1701-B-C-FXZ

#### Dimensions

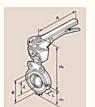




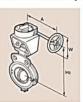
#### 5400 Series-K Specification Max. Service Pressure: 1.0 MPa (Max.Service Temperature:232°C)Standard

Nominal Size						5400-L Lever-Operated			5400-G Worm-Gear			
inch	mm				9	H1	H2	Α	Weight	H2	Α	Weigh
2	50	43	40	92	62	179	160	3.7	169	141	5.3	
21/2	65	46	55	108	72	189	160	4.2	179	141	5.8	
3	80	46	70	127	82	199	200	4.9	189	141	6.4	
4	100	52	94	147	92	209	200	5.7	199	141	7.2	
5	125	56	119	180	109	248	360	10.5	220	182	11.3	
6	150	56	144	209	123	263	360	11.8	235	182	12.6	
8	200	60	195	265	180	-1	-		271	211	20.6	
10	250	68	244	327	215				330	255	31.6	
12	300	78	293	367	240		14	10	350	255	36.2	

(Size:mm, Weight:kg) \*Please contact us for sizes of 350mm or more.



5400-L Lever-Operated



5400-G Worm-Gear

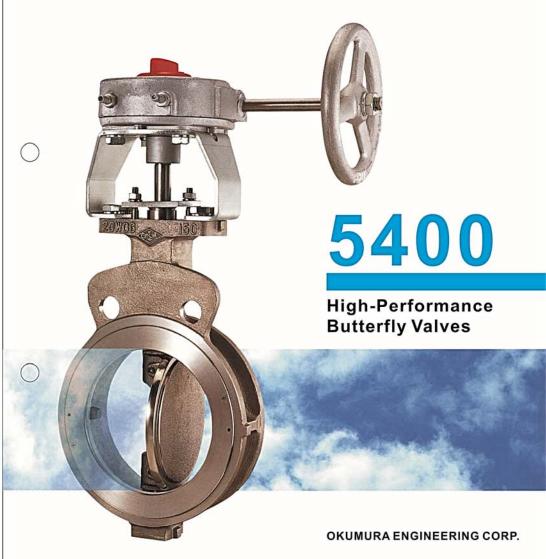
#### 5400 Series Specification Max.Service Pressure:2.0MPa (Max.Service Temperature:232°C)

Nominal Size			l a	g	اسام	5400-L Lever-Operated		perated	5400-G Worm-Gear			
inch	ch mm	L	-   "		H1	Н,	Α	Weight	H	Α	W	Weight
2	50	43	40	94	67	249	260	4.0	228	141	50	5.8
21/2	65	46	55	108	74	264	260	5.0	243	141	65	6.8
3	80	46	70	125	82	272	260	8.0	252	182	80	10
4	100	52	94	155	92	282	260	9.0	262	182	100	12
5	125	56	119	180	119	332	360	15.0	304	211	125	17
6	150	56	144	209	132	345	360	18.0	317	211	150	19
8	200	60	195	265	169.5		-	-	349	255	200	35
10	250	68	244	319	224	-	-	-	407	335	250	58
12	300	78	293	367	259	- 2	-	-	477	320	300	79
14	350	78	328	413	313		-		530	331	350	122
16	400	102	366	470	343	-	-		580	331	400	160
18	450	114	415	534	375	-	-	-	620	392	450	196
20	500	127	463	584	409		-	-	790	513	500	255
22	550	154	518	643	429	-	-	-	820	549	550	340
24	600	154	570	692	479	-	-	-	870	549	600	375

(Size:mm, Weight:kg) \*The height dimension is subject to change if fluid temperature is 300°C or







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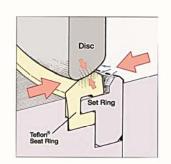
# 5400

1.0Mpa(50 to 300mm)SERIES 2.0Mpa(50 to 1200mm)SERIES

The valve body and parts in the wetted area are wafershaped industrial butterfly valve made of stainless steel. The parts in the wetted area are polished and undergo oil-free processing in order to minimize particle accumulation and adhesion.

#### Self-sealing mechanism ensures tight shutoof.

As illustrated below,fluid pressure to the disc and seat ring ensures a secure seal; in other words, the higher the pressure, the better the sealing performance. The sealing performance remains unchanged even when the flow direction changes from one way to the other.





#### 54HA 54HB Teflon<sup>®</sup> Ring(PTFE-50 to 230℃)

The Teflon<sup>®</sup> seat ring is designed to withstand extremely corrosive chemical solutions and high-temperature fluids of up to 230°C (446°F).(eg.demineralized water,air-conditioning chilled/hot water,sea water,white liquor, formaldehyde solution, organic, solvent, compressed air, oxygen, exhaust gas, town gas, coke-oven gas)







OKM 54 Series is a high-performance butterfly valve designed for extreme temperature, high pressure and vacuum conditions that are unsuitable for conventional universal butterfly valves. The 54 Series features a self-sealing seat ring,double eccentric disc,and a choice of three seat rings,lt outperforms ball valves and gate valves and can perfectly seal fluids such as corrosive slurry and high-pressure steam.

# Double eccentric disc ensures longer service life, low seating torque and leak-tight shutoff.

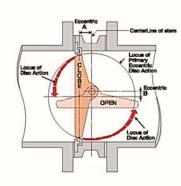
Since the stem is eccentric from the seat ring(as indicated by A and B), the disc is in contact with the seat ring only when the valve is completely closed. The benefits from the double eccentric disc design include:



 When In the closed position, the force of the disc on the seat ring ensures complete sealing.

· Easy operation with less seating torque.

 The offset stem design allows easy replancement of the seat ring without removing the stem.



## Standard Specifications (5400 Series)

Model	54HA	54HB				
Seat Ring	PTFE	PTFE				
Size	50 to 600	50 to 600				
Applicable Flange Std.	JISS5K/10K/16K/	20K/ANSI150Lb				
Max.Service Pressure	2.0M	Іра				
Service Temperature Range						
Without Insulation	-29 to 232°C	-50 to 232℃				
With Insulation						
Hydrostatic Shell Test	1.5Mpa(10K仕样)	3.0Mpa(20K仕样)				
Hydrostatic Seat Test	1.1Mpa(10K仕样)	2.2Mpa(20K仕样)				
Face To Face	International Standard (ISO 5752)	Dimension between Shorter Faces				
Seat Leakage	Tight Shutoff	Tight Shutoff <sup>2</sup>				
Fluid Used	CDA/02/Ar					
Cycle Life	100,000 Cycles					

<sup>\*1:</sup>For ANSI 125/150Lb.Contact us for assistance separately.
\*2:Applicable to the MSS SP-61 standard.

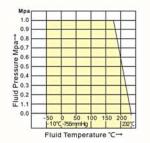
#### Teflon is manufactured by Mitsul-Dupont Fluoro Chemical

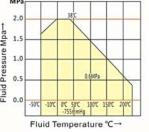
#### Standard Specifications

	Part Name	54HA	54HB				
	Cleaning Surface Roughness	Degreasing B none	ultrasonic cleaning Ra≤0.5um Ry≤0.8um				
	Clean Room Environment Packing	Glass 1000 or under Single bagged package	Glass 1000 or under Double bagged package				
	Seat leakage Purage	Tight Shutoff 99.9999%	Tight Shutoff 99.9999%				
	Gland Structure	V-Packng(PTFE)Spec	Gland Packing Spec(PTFE, Graphite Foil				
	Body	SCS13A,14A,16A					
	Disc	SCS13A,14A,16A					
	Set Ring	SUS304,SUS316,SUS316L					
Seat Ring	Teflon®Seat Ring 541-T	PTFE(White),R-PTFE(Black)					
	Stem	SUS304,SUS316,SUS316L					

\*The stenderd material of the body and valve element is SCS 13A, and that of the stem is SCS14A and SCS16A, contact us for essistance separetely.
\*Be sure to Inform us of fluid name, end temperature when you place an order.

### Temperature and Pressure Ratings (5400 Series)





# Min.Internal Diameters Of Piping

Nominal Size (mm)	Min.Internal Diameters Of Piping A	Nominal Size (mm)	Min.Internal Diameters Of Piping A		
50	27.3	150	137.7		
65	47.8	200	192.3		
80	64.9	250	241.6		
100	81.5	300	290.5		
125	110.6				



