

606K 606F

DOUBLE-FLANGED BUTTERFLY VALVES

Highly Reliable Double-Flanged Butterfly Valve for Ships and General Industries

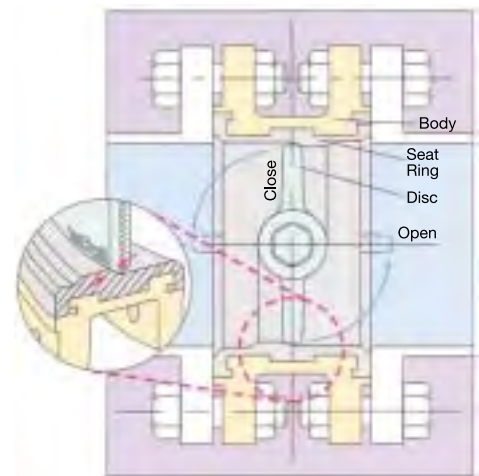
OKM's unique "Touch Seat" Design, double-flanged structure, and multiple-sealing system combine to provide a highly reliable valve with a wide variety of uses, as shipside valves or for general industrial use.

"Touch Seat" Design Ensures High Reliability and Long Service Life

Our Unique "Touch Seat" Design enables the disc to close with virtually no friction between the disc and the valve seat. This minimizes wear on the seat ring ensuring leak-proof closure. The design also ensures highly reliable valve operation and a long service life.



606K-G

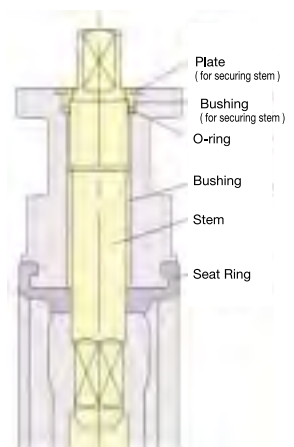


Double-flanged Structure

The 606 valve can be installed directly to the end of a pipe and to the side of a ship. A bushing and plate at the top of the stem prevent the stem from leaving the body ensuring safe flow control.

Reliable Multiple Seals

A primary seal between the disc and the seat ring and a secondary seal between the stem and the seat ring ensure a tight seal when the valve is closed. An O-ring seal between the stem and bushing is also included. The bottom of the valve is covered to eliminate any external leakage.



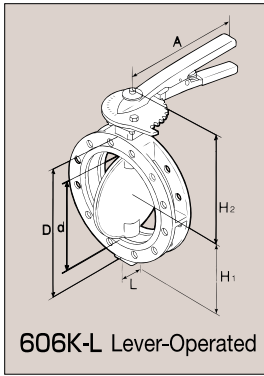
Easy-maintenance and Wear-resistant Design

The disc and stem are hexagonally jointed without pins. This provides a smooth disc surface which minimizes fluid resistance, making maintenance easier. Also, the upper and lower stem bushings provide excellent resistance against wear and friction, preventing galling and

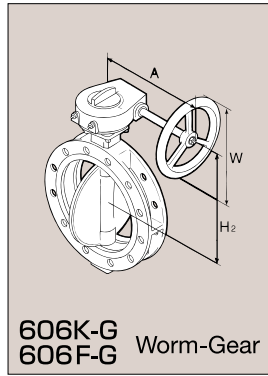
JIS conformed product

PATENTED

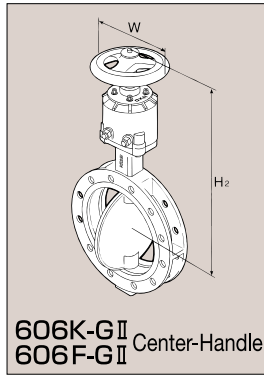
Dimensions ※Shapes vary according to saizes.



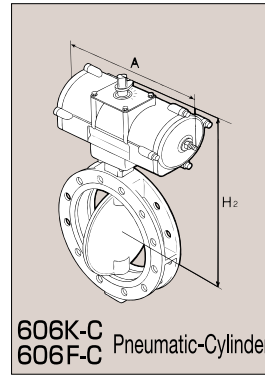
606K-L Lever-Operated



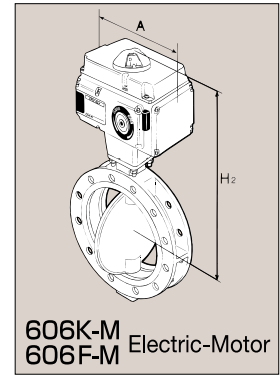
606K-G
606F-G Worm-Gear



606K-GII
606F-GII Center-Handle



606K-C
606F-C Pneumatic-Cylinder



606K-M
606F-M Electric-Motor

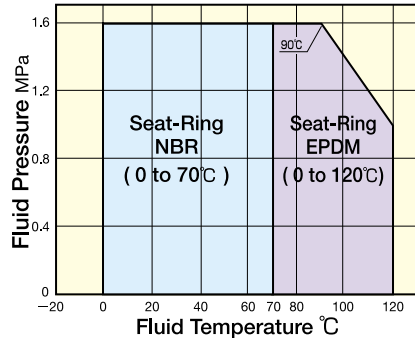
Nominal Size		606K-L Lever-Operated							606K-G · 606F-G Worm-Gear				606K-GII · 606F-GII Center-Handle			606K-C · 606F-C Pneumatic-Cylinder			606K-M · 606F-M Electric-Motor		
inch	mm	L	d	D	H1	H2	A	Weight	H2	A	ØW	Weight	H2	ØW	Weight	H2	A	Weight	H2	A	Weight
2	50	43	55	155	70	174	160	6.2	167	141	100	7.8	278	100	8.7	278	236	7.6	309	180	10.3
2½	65	46	66	175	80	187	160	8.0	177	141	100	9.6	288	100	10.4	288	236	9.6	319	180	12.0
3	80	46	84	185	96	192	200	9.3	182	141	100	10.8	293	100	11.2	293	236	10.4	324	180	12.8
4	100	52	100	210	116	204	200	12.0	194	141	100	13.6	305	100	13.9	305	236	13.1	387	277	22.0
5	125	100	130	250	140	234	260	19.2	215	182	125	21.4	329	140	20.4	358	276	18.4	407	277	28.0
6	150	100	154	280	155	249	260	23.1	230	182	125	25.3	344	140	24.4	404	342	27.1	422	277	32.0
8	200	100	200	330	183	288	360	36.6	259	211	160	35.6	408	200	39.7	457	420	40.0	634	301	44.0
10	250	110	246	400	223	—	—	—	319	255	200	62.0	458	200	57.5	507	420	58.0	471	301	62.0
12	300	110	295	445	260	—	—	—	349	255	200	71.0	488	200	66.5	537	420	67.0	521	301	73.0
14	350	120	336	490	289	—	—	—	369	335	315	95.0	511	315	85.0	603	506	93.0	577	195	94.0
16	400	130	390	560	322	—	—	—	423	343	400	149.0	626	355	129.0	707	664	183.0	617	195	126.0
18	450	150	439	620	345	—	—	—	453	392	400	179.0	702	355	172.0	737	664	213.0	647	195	156.0
20	500	160	490	675	379	—	—	—	493	392	450	225.0	752	355	215.0	777	664	254.0	687	195	197.0
22	550	170	540	745	410	—	—	—	523	462	500	270.0	848	450	297.0	1004	1060	358.0	853	659	325.0
24	600	170	589	795	445	—	—	—	558	462	500	302.0	883	450	329.0	1039	1060	390.0	888	659	357.0
26	650	170	634	845	468	—	—	—	685	513	305	496.0	※	※	※	※	※	※	※	※	※
28	700	185	684	905	496	—	—	—	735	549	400	588.0	※	※	※	※	※	※	※	※	※
30	750	190	731	970	540	—	—	—	775	549	400	663.0	※	※	※	※	※	※	※	※	※
32	800	190	781	1020	57	—	—	—	805	549	400	714.0	※	※	※	※	※	※	※	※	※
34	850	203	835	1070	682	—	—	—	862	549	308	780.0	※	※	※	※	※	※	※	※	※

(Weight : kg)

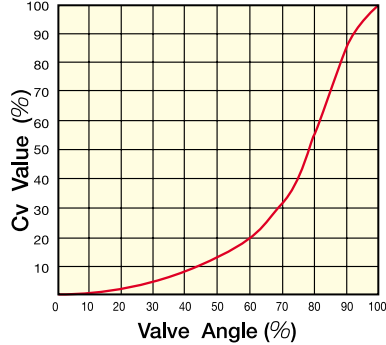
Standard Materials

Part Name	Material	
	606K	606F
Body	SCPH2.FCD450	
Disc	SCS13	
	SCS14	—
Seat Ring	NBR,EPDM	
Stem	SUS420J2	
O-ring	NBR	
Gasket	NBR	Asbestos-Free

Temperature and Pressure Ratings



Flow Characteristics



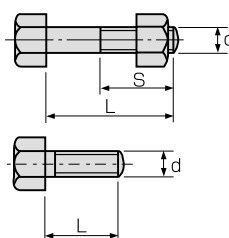
Cv Values with Valve Fully Open

Size (mm)	Cv Value
50	115
65	210
80	280
100	560
125	1100
150	1790
200	3300
250	4400
300	6200
350	7550
400	10700
450	13800
500	17000
550	21400
600	25200
650	28600
700	35000
750	39500
800	46000
850	56000

Standard Specifications

Model	606K	606F
Size	50 to 300mm	350 to 850mm
Applicable Flange Std.	JIS 5K/10K	
Max. Service Pressure	1.0MPa	
Actuators	Lever-Operated, Worm-Gear, Center Handle-Gear, Pneumatic-Cylinder, Electric-Motor	
Max. Service Temperature	0 to 70°C (NBR), 0 to 120°C (EPDM)	
Face To Face	JIS F7480	
Coating	Lacquer r Primer (Munsell N7)	
Hydrostatic Shell Test	1.5MPa	
Hydrostatic Seat Test	1.1MPa	

Piping Bolt Sizes



*As for the minimum internal diameter size for piping, refer to the table of minimum internal diameter size for piping, 615X on Page 10.

Nominal Size	JIS 5K				JIS 10K			
	inch	mm	Qty	Hexagonal Bolt d x La	inch	mm	Qty	Hexagonal Bolt d x La
2	50	—	—	8 M12 x 30	—	—	—	8 M16 x 35
2½	65	—	—	8 M12 x 30	—	—	—	8 M16 x 35
3	80	—	—	8 M16 x 30	—	—	—	16 M16 x 35
4	100	—	—	16 M16 x 35	—	—	—	16 M16 x 35
5	125	8	M16 x 55	8 M16 x 35	8 M20 x 60	8 M20 x 40	8 M20 x 40	8 M20 x 40
6	150	8	M16 x 60	8 M20 x 40	8 M20 x 65	8 M20 x 40	8 M20 x 40	8 M20 x 40
8	200	8	M20 x 65	8 M20 x 45	16 M20 x 65	8 M24 x 95	8 M24 x 60	8 M24 x 60
10	250	16	M20 x 70	8 M20 x 45	16 M22 x 75	8 M22 x 50	8 M22 x 50	8 M22 x 50
12	300	16	M22 x 80	8 M22 x 55	24 M22 x 75	8 M22 x 50	8 M22 x 50	8 M22 x 50
14	350	16	M22 x 80	8 M22 x 55	24 M22 x 80	8 M22 x 50	8 M22 x 50	8 M22 x 50
16	400	24	M22 x 85	8 M22 x 55	24 M24 x 90	8 M24 x 60	8 M24 x 60	8 M24 x 60
18	450	24	M22 x 85	8 M22 x 55	32 M24 x 95	8 M24 x 60	8 M24 x 60	8 M24 x 60
20	500	32	M22 x 85	8 M22 x 55	32 M24 x 95	8 M22 x 85	8 M22 x 85	8 M22 x 85
22	550	32	M24 x 90	8 M24 x 60	32 M30 x 105	8 M30 x 70	8 M30 x 70	8 M30 x 70
24	600	32	M24 x 90	8 M24 x 60	40 M30 x 105	8 M30 x 70	8 M30 x 70	8 M30 x 70
26	650	—	—	—	40 M30 x 110	8 M30 x 65	8 M30 x 65	8 M30 x 65
28	700	—	—	—	40 M30 x 110	8 M30 x 65	8 M30 x 65	8 M30 x 65
30	750	—	—	—	40 M30 x 120	8 M30 x 75	8 M30 x 75	8 M30 x 75
32	800	—	—	—	48 M30 x 120	8 M30 x 75	8 M30 x 75	8 M30 x 75
32	850	—	—	—	48 M30 x 130	8 M30 x 80	8 M30 x 80	8 M30 x 80

Bolt length applies to flange thicknesses that conform to JIS standard. The hexagonal bolt should use an 8UN splitnut. All Valves sizes require the hexagonal bolt/nuts sets.