DK Cast Iron / Ductile Iron Butterfly Valve

- **Wafer / Full Lug Type – 5K/10K/16K/PN10/PN16/150#**
- **Lever / Worm Gear Operation**

Specifications

Standard according to ISO5752 - BS5155 - MSS SP67 - API 609

Product range 40mm up to 1000mm (1.1/2″~40″)

Pressure range designed for maximum working pressure of 16bar (240Psi)

Flange connections The shape of valve body has been so designed as to allow flange bolt alignment onto following standards. Wafer type valve has been successfully developed to fit multi functional application onto either connection standard in the same configuration, mainly

ISO PN6, 10, 16, 20 and 25	MSS SP 44 CL 150
ANSI B16-1 CL.	ANSI B16-5 CL. 150
BS4504 PN6, PN10, PN16	BS10 Table D and E
AS2129 Table D and E	JIS B2210 5K, 10K 16K and 20K

Face to face dimensions in accordance with ISO 5752, BS 5155, MSS SP67 and API609

Actuator connection valves can be fitted with any 1/4 turn actuator equipped with a mounting plate meeting the standard ISO5211

Test Inspection DK valves are guaranteed to seal perfectly (no visible leakage) in both flow directions. The test conforms to API598

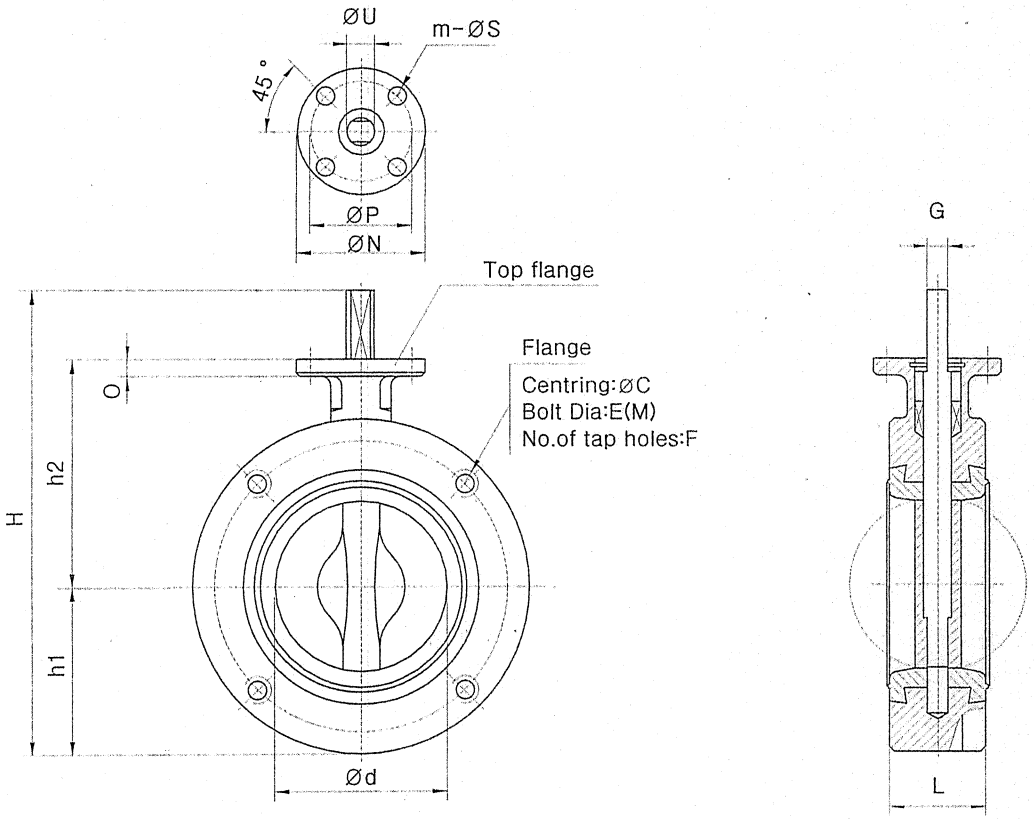
- **Body test** : 1.5times the maximum working pressure with water. The test is performed on the assembled valve with the disc in half open position.
- **Seat and shaft seal test** : 1.1 times the maximum working pressure. The shaft seal test and inspection is conducted simultaneously with seat test.

Standard materials

① Body	• Cast iron	ASTM A126 Cl. B
	• Ductile iron	ASTM A 536 Gr 65-45-12
	• Carbon steel	ASTM A 216 WCB
	• Stainless steel	ASTM A 351 Gr CF8-CF8M
	• Bronze	ASTM B 62
② Disc	• Ductile iron	ASTM A 536 Gr 65-45-12
	• Stainless steel	ASTM A 351 Gr CF8-CF8M
	• Aluminum bronze	ASTM B 148 Cl. C95500
	• Coated	EPDM-Viton-Buna etc
③ Stem	• Stainless steel	ASTM A 276 304
	• Stainless steel	ASTM A 276 410
	• Stainless steel	ASTM A 276 316
	• Stainless steel	17-4PH ASTM A 564 TYPE 630
	• K-Monel	ASTM B 164
④ Seat	Elastomer	Working temperature
	• EPDM	- 40°C ~ +120°C
	• NBR	- 20°C ~ + 90°C
	• Viton	- 40°C ~ +180°C
	• Silicon	-100°C ~ +160°C
	• Neoprene	- 45°C ~ +120°C
⑤ Packing	• EPDM	
	• NBR	
	• Viton	
⑥ Gland	• PP	

※ Valve discs in ductile iron and carbon steel are nickel plated
※ Self-locking feature, thread into the far side of the disc, and use an O-ring under the head for sealing

DOUBLE FLANGE BODY



Valve dimensions

Unit(mm)

Size		Ød	L	H	h1	h2	Stem		Top flange to ISO 5211					O	WT (Kg)
Inch	mm						ØU	G	Type	ØN	ØP	m	ØS		
1½″	40	40	33	205	58	124	10	8	F07	90	70	4	9	10	6.2
2″	50	52	43	240	77.5	130.5	14	10	F07	90	70	4	9	11	6.8
2½″	65	65	46	247	87.5	129.5	14	10	F07	90	70	4	9	11	8.9
3″	80	80	46	266	92.5	143	14	10	F07	90	70	4	9	11	10.2
4″	100	100	52	298	105	160.5	16	12	F07	90	70	4	9	11	14.5
5″	125	125	56	331	125	177	19	15	F07	90	70	4	9	12	16.8
6″	150	150	56	363	140	191	19	15	F07	90	70	4	9	12	19.8
8″	200	198	60	412	163	217	22	18	F07	90	70	4	9	13	31.2
10″	250	248	68	506	205	267	28	20	F10	125	102	4	12	15	46.2
12″	300	298	78	538	248.5	295	28	20	F10	125	102	4	12	15	58.8

Flange drilling

Unit(mm)

Size		JIS 5K			JIS 10K			JIS 16K			BS4504 PN 10			BS4504 PN 16			ANSI 150LB		
Inch	mm	ØC	F	E	ØC	F	E	ØC	F	E	ØC	F	E	ØC	F	E	ØC	F	E
11/2″	40	95	4	M12	105	4	M16	105	4	M16	110	4	M16	110	4	M16	98.5	4	1/2″
2″	50	105	4	M12	120	4	M16	120	8	M16	125	4	M16	125	4	M16	120.5	4	5/8″
21/2″	65	130	4	M12	140	4	M16	140	8	M16	145	4	M16	145	4	M16	139.5	4	5/8″
3″	80	145	4	M16	150	8	M16	160	8	M20	160	8	M16	160	8	M16	152.5	4	5/8″
4″	100	165	8	M16	175	8	M16	185	8	M20	180	8	M16	180	8	M16	190.5	8	5/8″
5″	125	200	8	M16	210	8	M20	225	8	M22	210	8	M16	210	8	M16	216	8	3/4″
6″	150	230	8	M16	240	8	M20	260	12	M22	240	8	M20	240	8	M20	241.5	8	3/4″
8″	200	280	8	M20	290	12	M20	305	12	M22	295	8	M20	295	12	M20	298.5	8	3/4″
10″	250	345	12	M20	355	12	M22	380	12	M24	350	12	M20	355	12	M24	362	12	7/8″
12″	300	390	12	M20	400	16	M22	430	16	M24	400	12	M20	410	12	M24	432	12	7/8″