

## 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.

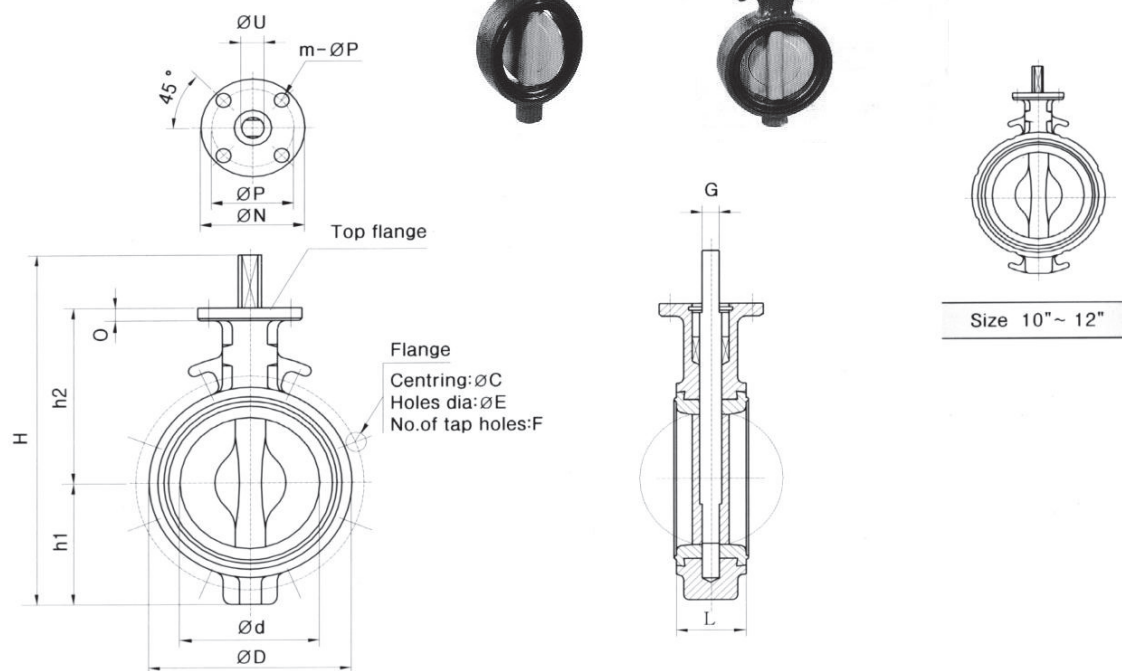
### Standard materials

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

# WAFER BODY



## Valve dimensions

Unit(mm)

Size		Ø D	Ø d	L	H	h1	h2	Stem		Top flange to ISO 5211					O	WT (Kg)
Inch	mm							Ø U	G	Type	Ø N	Ø P	m	Ø S		
1½"	40	86	40	33	205	58	124	10	8	F07	90	70	4	9	10	3.1
2"	50	102	52	43	227	66.5	130.5	14	10	F07	90	70	4	9	11	3.7
2½"	65	115	65	46	241	71	140	14	10	F07	90	70	4	9	11	4
3"	80	128	80	46	263	83	150	14	10	F07	90	70	4	9	11	4.4
4"	100	153	100	52	290	95	163	16	12	F07	90	70	4	9	11	5.9
5"	125	183	125	56	319	110	178	19	15	F07	90	70	4	9	12	8.9
6"	150	210	150	56	347	124	191	19	15	F07	90	70	4	9	12	9
8"	200	259	198	60	433	163	238	22	18	F07	90	70	4	9	13	11
10"	250	328	248	68	546	227	285	28	20	F10	125	102	4	12	15	20
12"	300	374	298	78	601	252	315	28	20	F10	125	102	4	12	15	31.5

## Flange drilling

Unit(mm)

Size		JIS 5K			JIS 10K			JIS 16K			BS4504 PN 10			BS4504 PN 16			ANSI 150LB		
Inch	mm	Ø C	F	Ø E	Ø C	F	Ø E	Ø C	F	Ø E	Ø C	F	Ø E	Ø C	F	Ø E	Ø C	F	Ø E
1½"	40	95	4	15	105	4	19	105	4	19	110	4	18	110	4	18	98.5	4	16
2"	50	105	4	15	120	4	19	120	8	19	125	4	18	125	4	18	120.5	4	19
2½"	65	130	4	15	140	4	19	140	8	19	145	4	18	145	4	18	139.5	4	19
3"	80	145	4	19	150	8	19	160	8	23	160	8	18	160	8	18	152.5	4	19
4"	100	165	8	19	175	8	19	185	8	23	180	8	18	180	8	18	190.5	8	19
5"	125	200	8	19	210	8	23	225	8	25	210	8	18	210	8	18	216	8	22
6"	150	230	8	19	240	8	23	260	12	25	240	8	18	240	8	23	241.5	8	22
8"	200	280	8	23	290	12	23	305	12	25	295	8	23	295	12	23	298.5	8	22
10"	250	345	12	23	355	12	25	380	12	27	350	12	23	355	12	27	362	12	25
12"	300	390	12	23	400	16	25	430	16	27	400	12	23	410	12	27	432	12	25