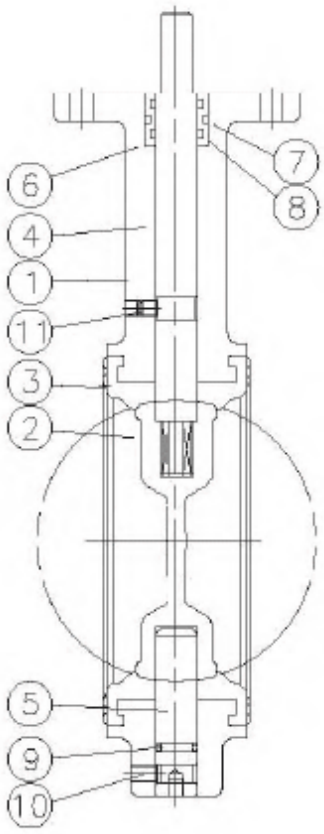
SPECIFICATIONS

- Standard: According to ISO 5752, BS 5155 ,MSS Sp 67 , API 609
- Sizes: 1.5” through 48.0”
- Design Pressure : 16 Bar (240 psi)
- Type: Wafer, Lug, and Double Flanged
- Body: Cast Iron, Ductile Iron, Carbon Steel , 304SS or 316SS
- Disc : Ductile Iron + Cr Coated, Aluminum Bronze, 304SS or 316SS
- Seat: EPDM , Buna N, Viton, Neoprene
- Stems: 416SS, 304SS, 316SS, K-MONEL
- Test : Bi - directional Shutoff, Hydro Test Certificate Available Tight Shut Off
  Body : 1.5 Times . Seat : 1.1 Times according to API 598
- Top Flange: According to ISO 5211
- Face To Face : ISO 5752 Series 20
- Connection : ANSI 150, DIN PN10, PN16, and JIS10K BS D E Configuration
- Operator : Lever , Gear , Pneumatic , Motor etc.

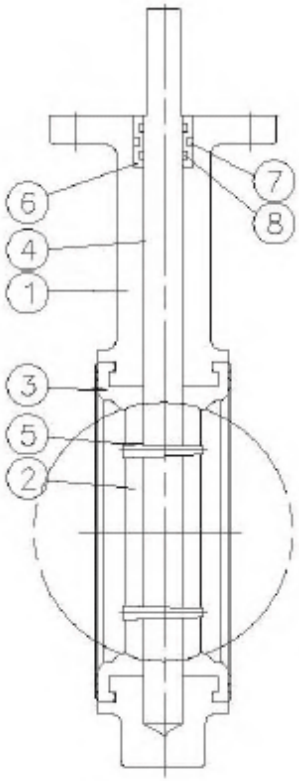
FEATURES

2"~14"



STANDARD

1	BODY
2	D:SC
3	SEAT R:NG
4	MA:N STEM
5	STUB STEM
6	O R:NG HOLDER
7	O R:NG
8	O R:NG
9	O R:NG
10	STOP BOLT
11	BOLT/O R:NG/BOLT

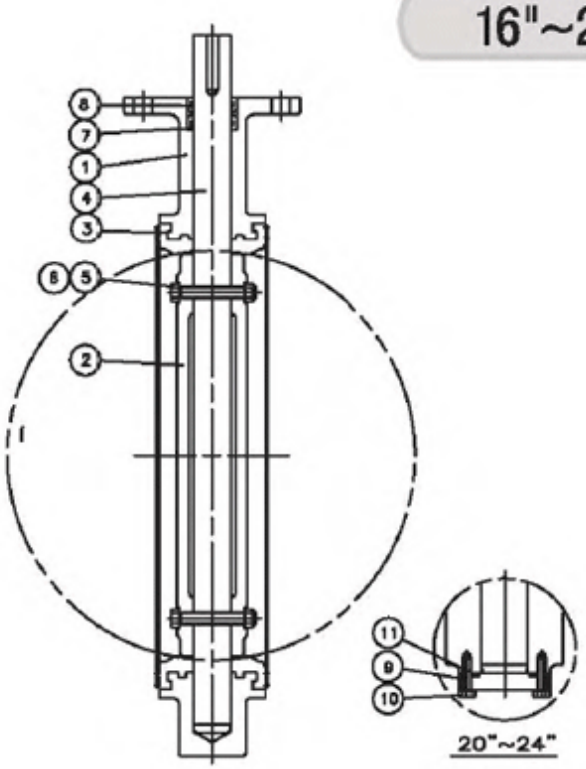


DUCTILE IRON DISC

1	BODY
2	D:SC
3	SEAT RING
4	STEM
5	DISC PIN
6	O R:NG HOLDER
7	O R:NG
8	O R:NG

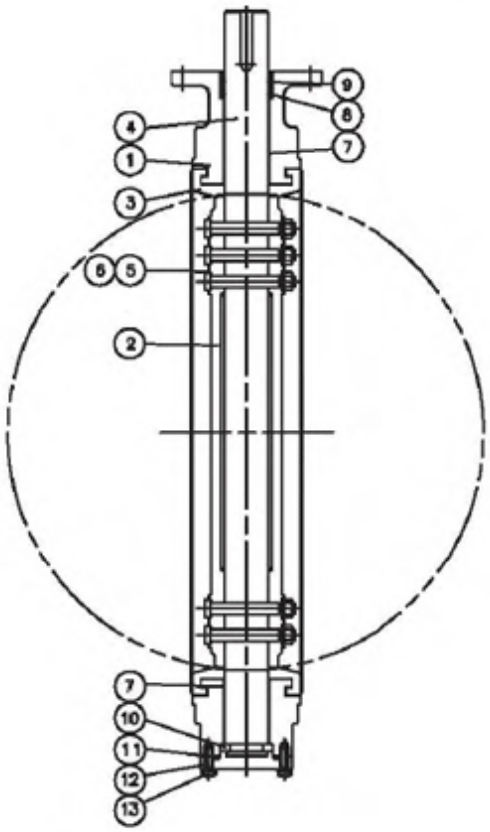
FEATURES

16"~24"



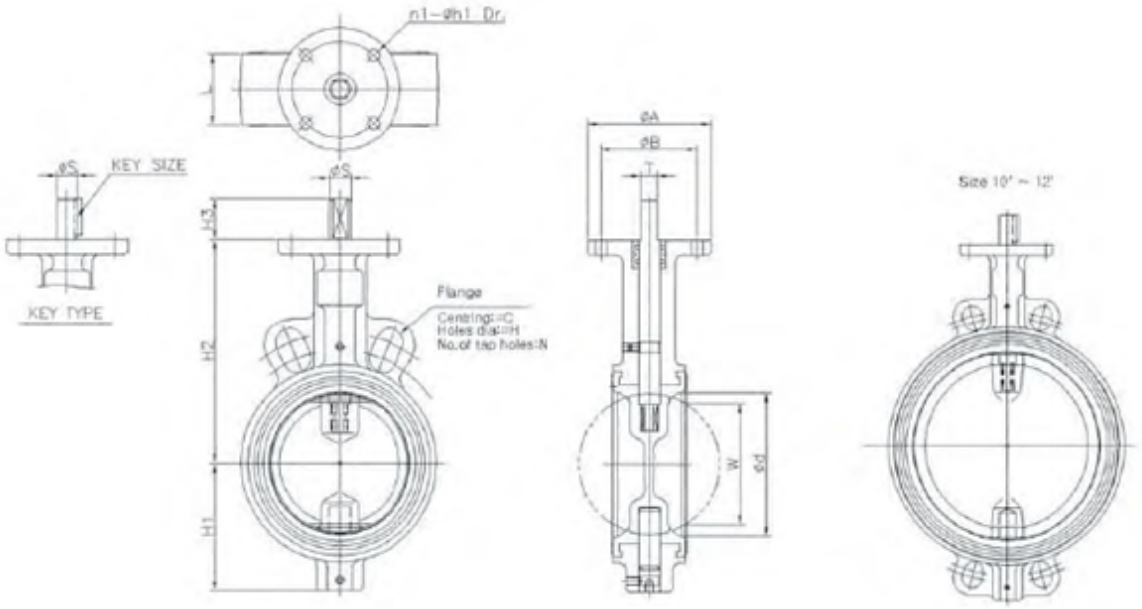
1	BODY
2	D:SC
3	SEAT R:NG
4	STEM
5	D:SC BOLT
6	NUT
7	O-R:NG HOLDER
8	O-R:NG
9	END COVER
10	BOLT
11	O-R:NG

28"~48"



1	BODY
2	D:SC
3	SEAT R:NG
4	STEM
5	D:SC P:N
6	NUT
7	BUSH
8	O-R:NG HOLDER
9	O-R:NG
10	COLLAR
11	O-R:NG
12	END COVER
13	BOLT

DIMENSION
WAFER TYPE



• Dimensions

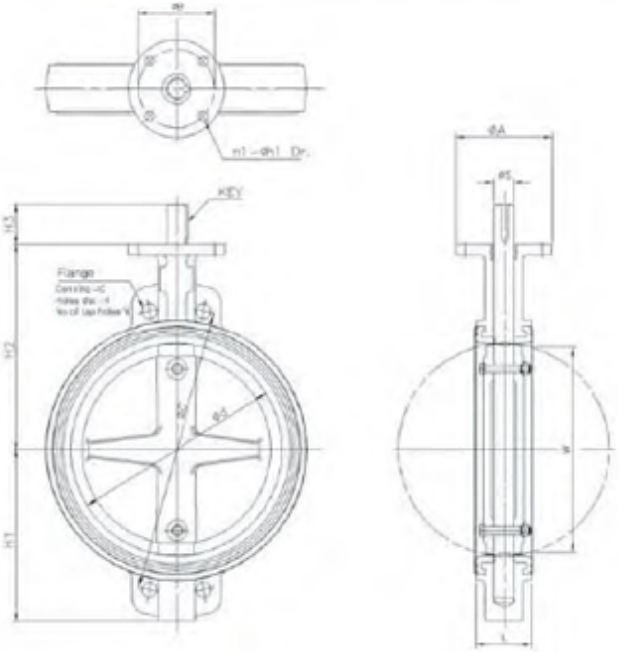
(Unit : mm)

Size		Φd	L	H1	H2	H3	W	Stem		Top Flange			KEY SIZE	Weight (kg)
Inch	mm							ΦS	T	ΦA	ΦB	n1-Φh1		
2"	50	50	43	61	128	33	28	14	9.8	90	70	4-10	5×5	3.2
2.5"	65	67	46	73	139	33	51	14	9.8	90	70	4-10	5×5	4.1
3"	80	79	46	80	150	33	67	14	9.8	90	70	4-10	5×5	4.5
4"	100	101	52	93	164	33	89	16	11.8	90	70	4-10	5×5	5.8
5"	125	124	56	113	176	33	113	18	13.8	90	70	4-10	6×6	7.8
6"	150	147	56	126	190	33	139	18	13.8	90	70	4-10	6×6	9.5
8"	200	197	60	157	230	40	191	22	16.8	125	102	4-12	8×7	17.0
10"	250	248	68	205	270	40	242	22	16.8	125	102	4-12	8×7	24.0
12"	300	297	78	240	305	40	290	28	21.8	125	102	4-12	8×7	40.0
14"	350	332	78	267	335	50	327	32	23.8	150	125	4-15	10×8	55

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
Inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
2"	50	105	4	15	120	4	19	125	4	18	125	4	18	120.5	4	19	114	4	18
2.5"	65	130	4	15	140	4	19	145	4	18	145	4	18	139.5	4	19	127	4	18
3"	80	145	4	19	150	8	19	160	8	18	160	8	18	152.5	4	19	146	4	18
4"	100	165	8	19	175	8	19	180	8	18	180	8	18	190.5	8	19	178	8	18
5"	125	200	8	19	210	8	23	210	8	18	210	8	18	216	8	22	210	8	18
6"	150	230	8	19	240	8	23	240	8	18	240	8	23	241.5	8	22	235	8	22
8"	200	280	8	23	290	12	23	295	8	23	295	12	23	298.5	8	22	292	8	22
10"	250	345	12	23	355	12	25	350	12	23	355	12	27	362	12	25	356	12	22
12"	300	390	12	23	400	16	25	400	12	23	410	12	27	432	12	25	406	12	26
14"	350	435	12	25	445	16	25	460	16	23	470	16	27	476	12	29	470	12	26

DIMENSION
WAFER TYPE



• Dimensions

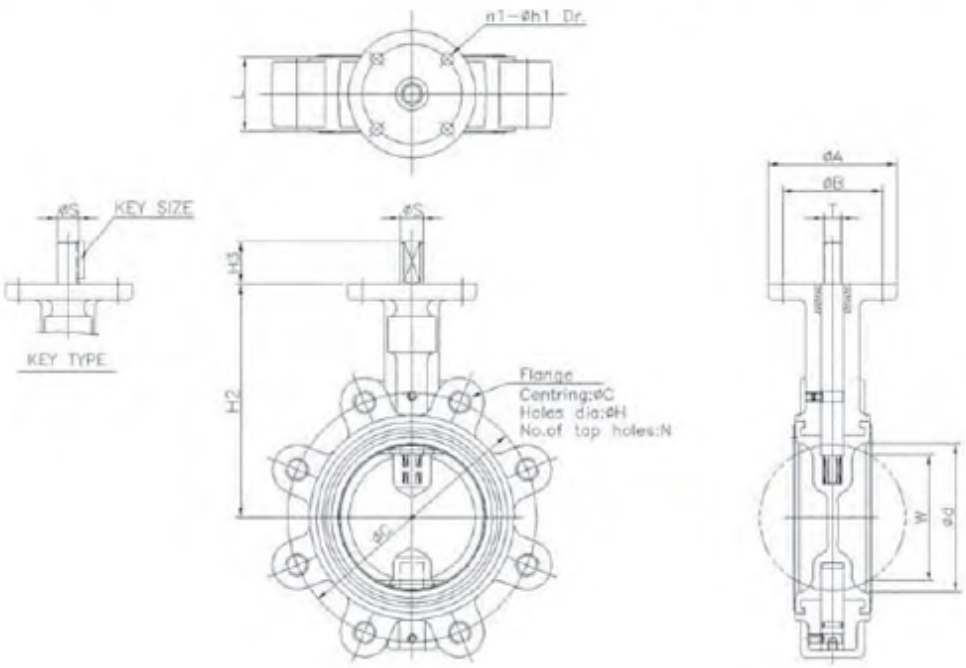
(Unit : mm)

Size		Φd	L	H1	H2	H3	W	Stem	Top Flange			KEY SIZE	Weight (kg)
Inch	mm							ΦS	ΦA	ΦB	n1-Φh1		
16"	400	376	102	303	370	60	366	38	175	140	4-18	12×8	84
18"	450	430	114	325	390	60	419	38	175	140	4-18	12×8	97
20"	500	483	127	360	430	75	475	45	210	165	4-22	14×9	142
22"	550	535	154	410	455	80	516	55	210	165	4-22	16×10	170
24"	600	568	154	445	495	80	551	55	210	165	4-22	16×10	195
28"	700	674	165	510	560	100	655	65	250	205	8-19	20×12	260
30"	750	748	170	550	590	120	730	80	250	205	8-19	22×14	310
32"	800	774	190	585	635	120	750	80	300	254	8-19	20×12	350
36"	900	897	203	645	680	130	874	90	300	254	8-19	25×14	470
40"	1000	975	216	705	750	140	951	105	300	254	8-19	28×16	600
48"	1200	1200	276	830	880	160	1168	130	350	298	8-23	32×18	910

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
Inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
16"	400	495	16	25	510	16	27	515	16	27	525	16	30	539.5	16	29	521	12	26
18"	450	555	16	25	565	20	27	565	20	27	585	20	30	578	16	32	584	16	26
20"	500	605	20	25	620	20	27	620	20	27	650	20	33	635	20	32	641	16	26
22"	550	665	20	27	680	20	33	–	–	–	–	–	–	692	20	35	699	16	30
24"	600	715	20	27	730	24	M30	725	20	30	770	20	36	749.5	20	35	756	16	33
28"	700	820	24	M24	840	24	M30	840	24	M30	840	24	M33	863.6	28	11/4"	845	20	M30
32"	800	930	24	M30	950	28	M30	950	24	M30	950	24	M36	978	28	11/2"	984	20	M33
36"	900	1030	24	M30	1050	28	M30	1050	28	M30	1050	28	M36	1085.9	32	11/2"	1092	24	M33
40"	1000	1130	28	M30	1160	28	M36	1160	28	M36	1160	28	M39	1200	36	11/2"	1175	24	M36
48"	1200	1350	32	M30	1380	32	M36	1380	32	M36	1390	32	M45	1422.4	44	11/2"	1410	32	M36

DIMENSION
LUG YTPE



• Dimensions

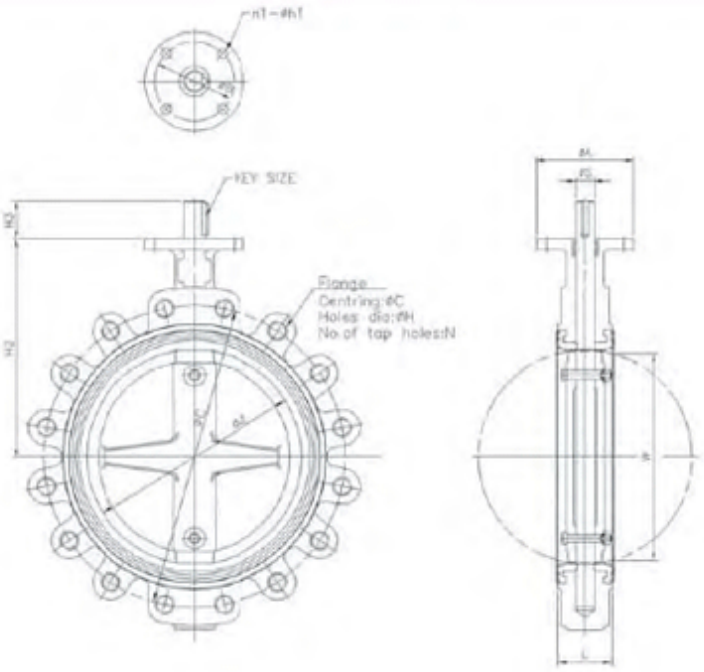
(Unit : mm)

Size		Φd	L	H2	H3	W	Stem		Top Flange			KEY SIZE	Weight (kg)
Inch	mm						ΦS	T	ΦA	ΦB	n1-Φh1		
2"	50	50	43	126	33	28	14	9.8	90	70	4-10	5×5	3.9
2.5"	65	67	46	139	33	51	14	9.8	90	70	4-10	5×5	4.8
3"	80	79	46	150	33	67	14	9.8	90	70	4-10	5×5	5.5
4"	100	101	52	164	33	89	16	11.8	90	70	4-10	5×5	8.2
5"	125	124	56	176	33	113	18	13.8	90	70	4-10	6×6	9.5
6"	150	147	56	190	33	139	18	13.8	90	70	4-10	6×6	12.5
8"	200	197	60	230	40	191	22	16.8	125	102	4-12	8×7	19.5
10"	250	248	68	270	40	242	22	16.8	125	102	4-12	8×7	28.0
12"	300	297	78	305	40	290	28	21.8	125	102	4-12	8×7	50.0
14"	350	332	78	335	50	327	32	23.8	150	125	4-15	10×8	64.0

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
Inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
2"	50	105	4	M12	120	4	M16	125	4	M16	125	4	M16	120.5	4	5/8"	114	4	M16
2.5"	65	130	4	M12	140	4	M16	145	4	M16	145	4	M16	139.5	4	5/8"	127	4	M16
3"	80	145	4	M16	150	8	M16	160	8	M16	160	8	M16	152.5	4	5/8"	146	4	M16
4"	100	165	8	M16	175	8	M16	180	8	M16	180	8	M16	190.5	8	5/8"	178	8	M16
5"	125	200	8	M16	210	8	M20	210	8	M16	210	8	M16	216	8	3/4"	210	8	M16
6"	150	230	8	M16	240	8	M20	240	8	M20	240	8	M20	241.5	8	3/4"	235	8	M20
8"	200	280	8	M20	290	12	M20	295	8	M20	295	12	M20	298.5	8	3/4"	292	8	M20
10"	250	345	12	M20	355	12	M22	350	12	M20	355	12	M24	362	12	7/8"	356	12	M20
12"	300	390	12	M20	400	16	M22	400	12	M20	410	12	M24	432	12	7/8"	406	12	M24
14"	350	435	12	M22	445	16	M22	460	16	M20	470	16	M24	476	12	1"	470	12	M24

DIMENSION
LUG YTPE



• Dimensions

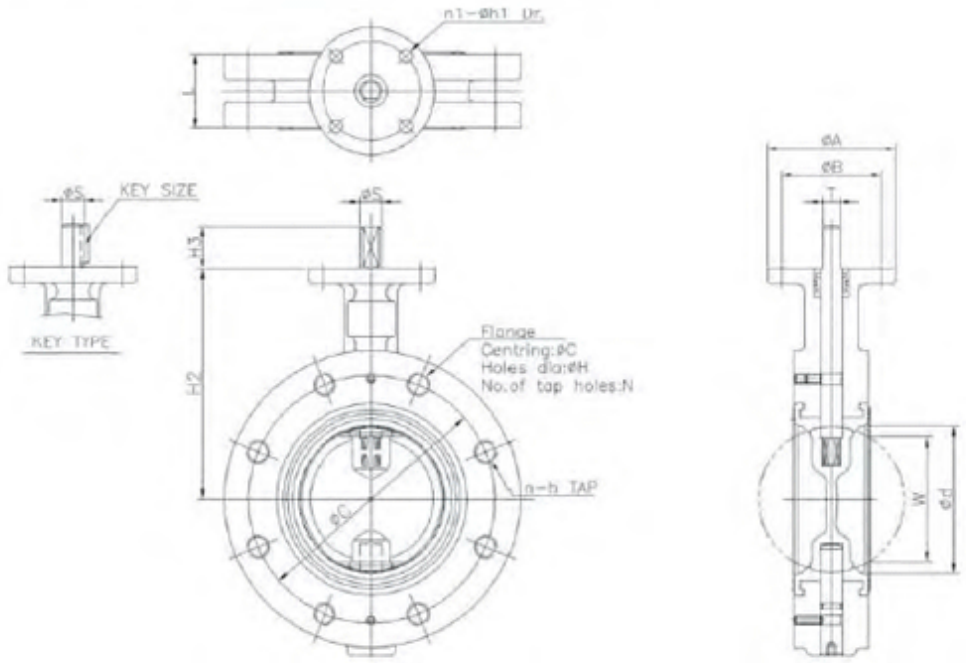
(Unit : mm)

Size		Φd	L	H2	H3	W	Stem	Top Flange			KEY SIZE	Weight (kg)
Inch	mm						ΦS	ΦA	ΦB	n1-Φh1		
16"	400	376	102	370	60	366	38	175	140	4-18	12×8	107
18"	450	430	114	390	60	419	38	175	140	4-18	12×8	115
20"	500	488	127	430	75	475	45	210	165	4-22	14×9	160
22"	550	535	154	455	80	516	55	210	165	4-22	16×10	220
24"	600	568	154	495	80	551	55	210	165	4-22	16×10	270
28"	700	674	165	560	100	655	65	250	205	8-19	20×12	340
30"	750	748	170	590	120	730	80	250	205	8-19	22×14	400
32"	800	774	190	635	120	750	80	300	254	8-19	20×12	460
36"	900	897	203	680	130	874	90	300	254	8-19	25×14	580
40"	1000	975	216	750	140	951	105	300	254	8-19	28×16	770
48"	1200	1200	276	880	160	1168	130	350	298	8-23	32×18	1200

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
16"	400	495	16	M22	510	16	M24	515	16	M24	525	16	M27	539.5	16	1"	521	12	M24
18"	450	555	16	M22	565	20	M24	565	20	M24	585	20	M27	578	16	11/8"	584	16	M24
20"	500	605	20	M22	620	20	M24	620	20	M24	650	20	M30	635	20	11/8"	641	16	M24
22"	550	665	20	M24	680	20	M30	...	...	...	...	...	...	692	20	11/4"	699	16	M27
24"	600	715	20	M24	730	24	M30	725	20	M27	770	20	M33	749.5	20	11/4"	756	16	M30
28"	700	820	24	M24	840	24	M30	840	24	M30	840	24	M33	863.6	28	11/4"	845	20	M30
32"	800	930	24	M30	950	28	M30	950	24	M30	950	24	M36	978	28	11/2"	984	20	M33
36"	900	1030	24	M30	1050	28	M30	1050	28	M30	1050	28	M36	1085.9	32	11/2"	1092	24	M33
40"	1000	1130	28	M30	1160	28	M36	1160	28	M36	1160	28	M39	1200	36	11/2"	1175	24	M36
48"	1200	1350	32	M30	1380	32	M36	1380	32	M36	1390	32	M45	1422.4	44	11/2"	1410	32	M36

DIMENSION
FLANGE TYPE



• Dimensions

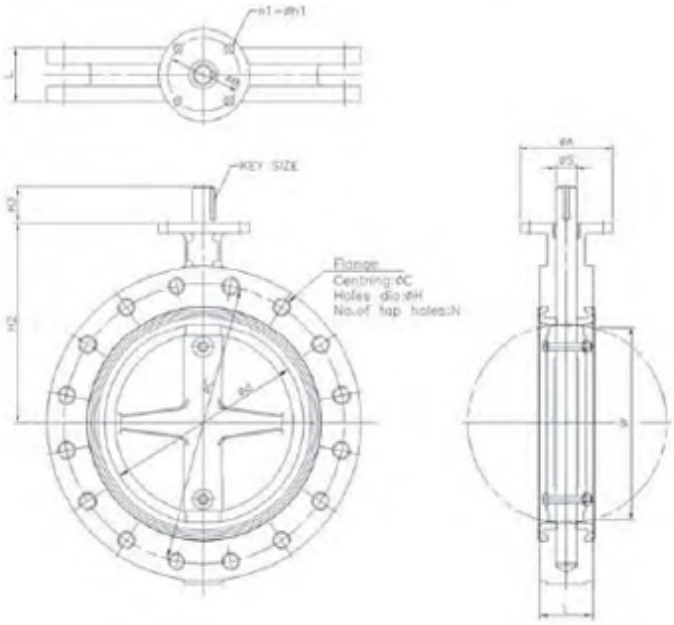
(Unit : mm)

Size		Φd	L	H2	H3	W	Stem		Top Flange			KEY SIZE	Weight (kg)
Inch	mm						ΦS	T	ΦA	ΦB	n1-Φh1		
2"	50	50	43	128	33	28	14	9.8	90	70	4-10	5×5	4.7
2.5"	65	67	46	139	33	51	14	9.8	90	70	4-10	5×5	5.8
3"	80	79	46	150	33	67	14	9.8	90	70	4-10	5×5	6.6
4"	100	101	52	164	33	89	16	11.8	90	70	4-10	5×5	10.0
5"	125	124	56	176	33	113	18	13.8	90	70	4-10	6×6	11.5
6"	150	147	56	190	33	139	18	13.8	90	70	4-10	6×6	15.0
8"	200	197	60	230	40	191	22	16.8	125	102	4-12	8×7	23.0
10"	250	248	68	270	40	242	22	16.8	125	102	4-12	8×7	34.0
12"	300	297	78	305	40	290	28	21.8	125	102	4-12	8×7	60.0
14"	350	332	78	335	50	327	32	23.8	150	125	4-15	10×8	98.0

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
Inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
2"	50	105	4	M12	120	4	M16	125	4	M16	125	4	M16	120.5	4	5/8	114	4"	M16
2.5"	65	130	4	M12	140	4	M16	145	4	M16	145	4	M16	139.5	4	5/8	127	4"	M16
3"	80	145	4	M16	150	8	M16	160	8	M16	160	8	M16	152.5	4	5/8	146	4"	M16
4"	100	165	8	M16	175	8	M16	180	8	M16	180	8	M16	190.5	8	5/8	178	8"	M16
5"	125	200	8	M16	210	8	M20	210	8	M16	210	8	M16	216	8	3/4	210	8"	M16
6"	150	230	8	M16	240	8	M20	240	8	M20	240	8	M20	241.5	8	3/4	235	8"	M20
8"	200	280	8	M20	290	12	M20	295	8	M20	295	12	M20	298.5	8	3/4	292	8"	M20
10"	250	345	12	M20	355	12	M22	350	12	M20	355	12	M24	362	12	7/8	356	12"	M20
12"	300	390	12	M20	400	16	M22	400	12	M20	410	12	M24	432	12	7/8	406	12"	M24
14"	350	435	12	M22	445	16	M22	460	16	M20	470	16	M24	476	12	1	470	12"	M24

DIMENSION
FLANGE TYPE



• Dimensions

(Unit : mm)

Size		Φd	L	H2	H3	W	Stem	Top Flange			KEY SIZE	Weight (kg)
Inch	mm						ΦS	ΦA	ΦB	n1-Φh1		
16"	400	376	102	370	60	366	38	175	140	4-18	12×8	146
18"	450	430	114	390	60	419	38	175	140	4-18	12×8	205
20"	500	488	127	430	75	475	45	210	165	4-22	14×9	225
22"	550	535	154	455	80	516	55	210	165	4-22	16×10	250
24"	600	568	154	495	80	551	55	210	165	4-22	16×10	280
28"	700	674	165	560	100	655	65	250	205	8-19	20×12	350
30"	750	748	170	590	120	730	80	250	205	8-19	22×14	410
32"	800	774	190	635	120	750	80	300	254	8-19	20×12	480
36"	900	897	203	680	130	874	90	300	254	8-19	25×14	610
40"	1000	975	216	750	140	951	105	300	254	8-19	28×16	870
48"	1200	1200	276	880	160	1168	130	350	298	8-23	32×18	1250

• Flange Drilling

Size		JIS 5K			JIS 10K			PN 10			PN 16			ANSI 150#			TABLE E		
Inch	mm	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH	ΦC	N	ΦH
16"	400	495	16	M22	510	16	M24	515	16	M24	525	16	M27	539.5	16	1"	521	12	M24
18"	450	555	16	M22	565	20	M24	565	20	M24	585	20	M27	578	16	11/8"	584	16	M24
20"	500	605	20	M22	620	20	M24	620	20	M24	650	20	M30	635	20	11/8"	641	16	M24
22"	550	665	20	M24	680	20	M30	-	-	-	-	-	-	692	20	11/4"	699	16	M27
24"	600	715	20	M24	730	24	M30	725	20	M27	770	20	M33	749.5	20	11/4"	756	16	M30
28"	700	820	24	M24	840	24	M30	840	24	M30	840	24	M33	863.6	28	11/4"	845	20	M30
32"	800	930	24	M30	950	28	M30	950	24	M30	950	24	M36	978	28	11/2"	984	20	M33
36"	900	1030	24	M30	1050	28	M30	1050	28	M30	1050	28	M36	1085.9	32	11/2"	1092	24	M33
40"	1000	1130	28	M30	1160	28	M36	1160	28	M36	1160	28	M39	1200	36	11/2"	1175	24	M36
48"	1200	1350	32	M30	1380	32	M36	1380	32	M36	1390	32	M45	1422.4	44	11/2"	1410	32	M36