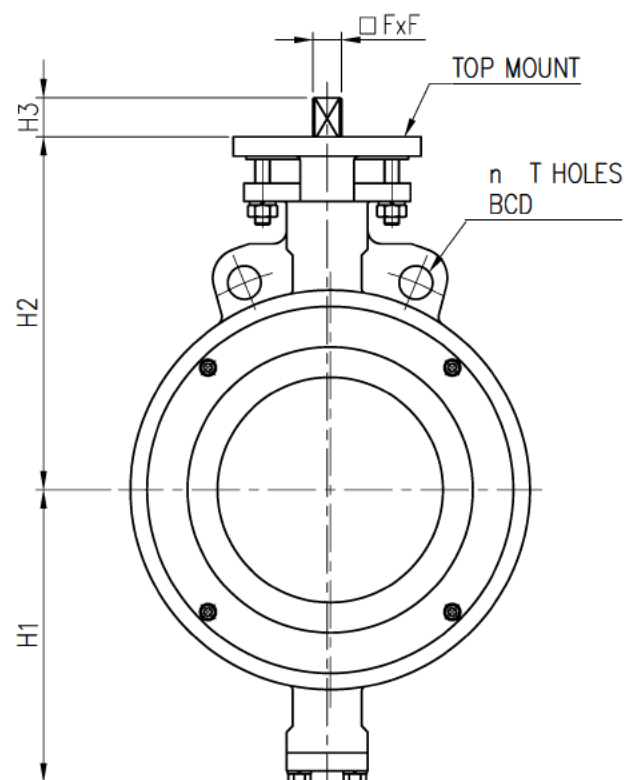
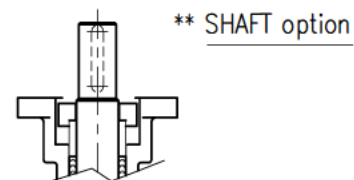
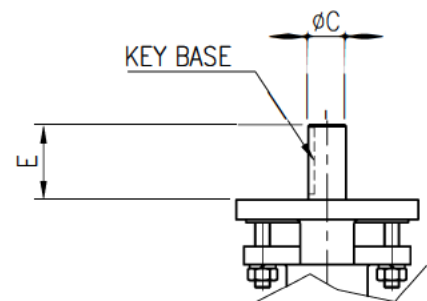


No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

850 - Dimension/ ASME B16.5 Class150/ Wafer type

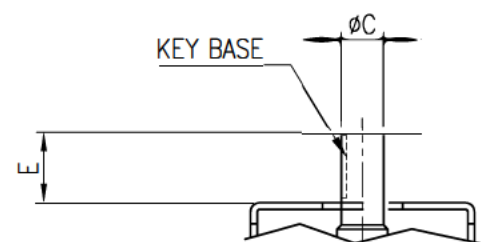
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	FxF	E	C	KEY BASE	TOP MOUNT
2"	43	2	$\phi 120.7$	$\phi 19.1$	96	125	13	11x11				ISO 5211-F07
2.5"	46	2	$\phi 139.7$	$\phi 19.1$	102	149	13	11x11				ISO 5211-F07
3"	48	2	$\phi 152.4$	$\phi 19.1$	117	160	13	11x11	40	$\phi 16$	5x5	ISO 5211-F07
4"	54	2	$\phi 190.5$	$\phi 19.1$	128	178	18	14x14	42	$\phi 19$	6x6	ISO 5211-F07
5"	57	2	$\phi 215.9$	$\phi 22.2$	146	193	18	14x14	42	$\phi 19$	6x6	ISO 5211-F07
6"	57	2	$\phi 241.3$	$\phi 22.2$	156	205	22	14x14	42	$\phi 19$	6x6	ISO 5211-F10
8"	64	2	$\phi 298.5$	$\phi 22.2$	195	235	26	19x19	52	$\phi 28$	8X7	ISO 5211-F10
10"	71	2	$\phi 362.0$	$\phi 25.4$	220	280	32	22x22	60	$\phi 30$	10x8	ISO 5211-F12
12"	81	2	$\phi 431.8$	$\phi 25.4$	265	310	35	27x27	65	$\phi 30$	10x8	ISO 5211-F12

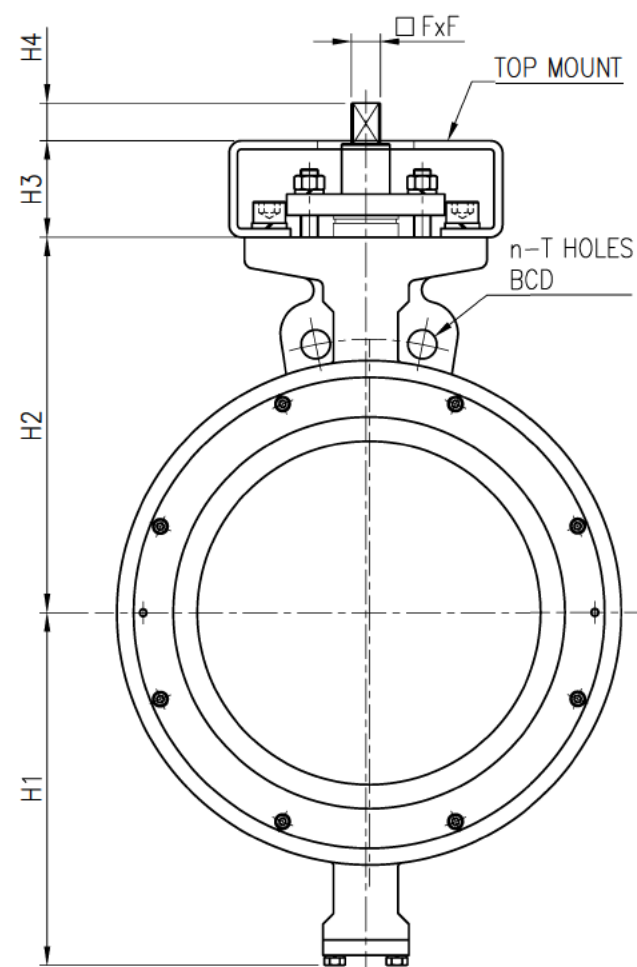
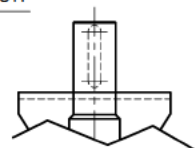
NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

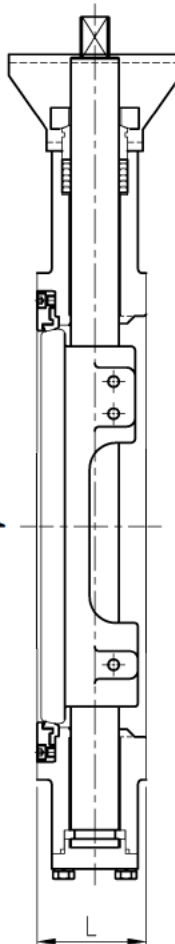
DESCRIPTION					DWG. No.	850-2~12-15WB-010	SCALE	N/A
H/P BUTTERFLY WAFER VALVE 850-2~12-15WB CLASS150 BARE STEM					TEST PRESSURE		SHELL	SEAT
						HYDROSTATIC	kgf/cm ²	kgf/cm ²
						AIR	kgf/cm ²	kgf/cm ²
Rev. No.	DATE	DESCRIPTION	DRN.	APP.				
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON				



** SHAFT option



FLOW →



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

850 - Dimension / ASME B16.5 Class150 / Wafer type

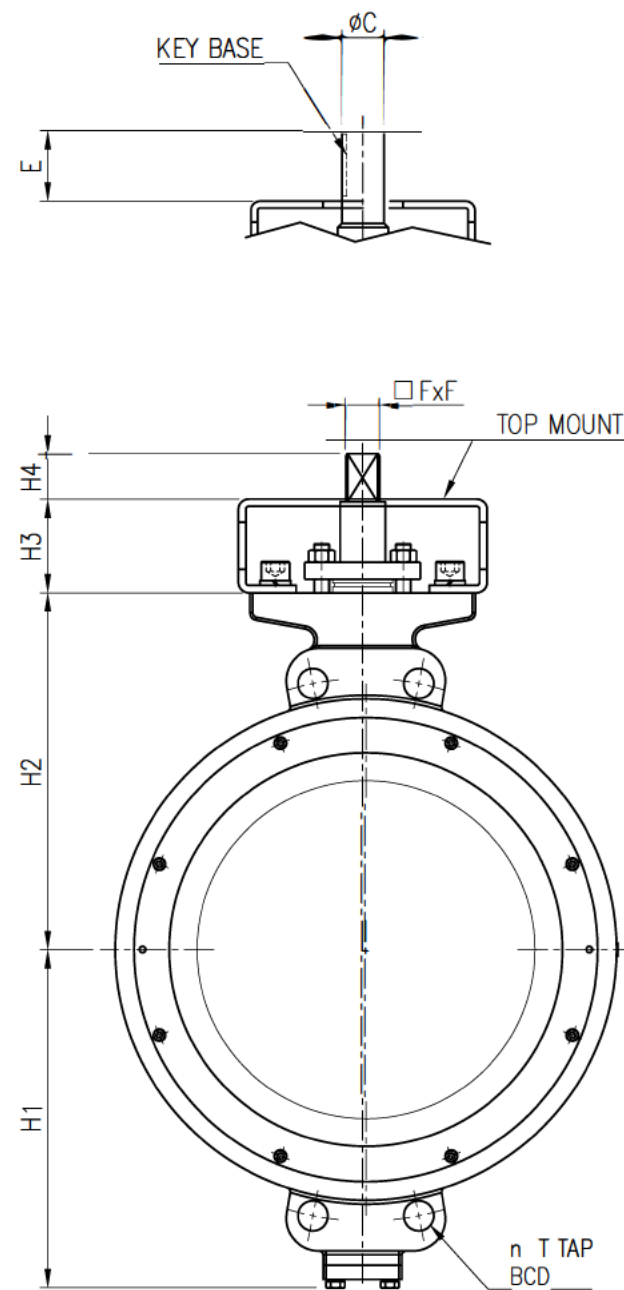
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	92	2	φ476.3	φ28.6	290	315	90	35	27x27	75	φ40	12x8	ISO 5211-F12,F14
16"	102	2	φ539.8	φ28.6	329	350	90	35	27x27	75	φ40	12x8	ISO 5211-F14,F16

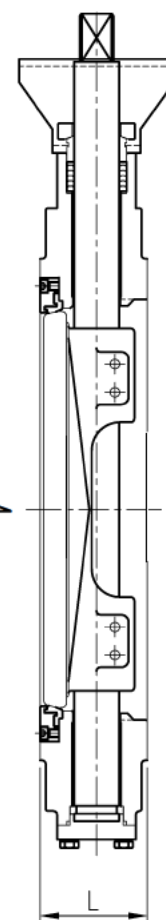
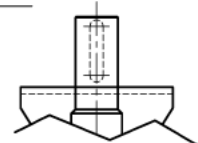
NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

DESCRIPTION					DWG. No.	850-14~16-15WB-011	SCALE	N/A
H/P BUTTERFLY WAFER VALVE 850-14~16-15WB CLASS150 BARE STEM					TEST PRESSURE		SHELL	SEAT
						HYDROSTATIC	kgf/cm ²	kgf/cm ²
						AIR	kgf/cm ²	kgf/cm ²
Rev. No.	DATE	DESCRIPTION	DRN.	APP.				
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON				



** SHAFT option



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

850 - Dimension / ASME B16.5 Class150 / Wafer type

[unit : mm]

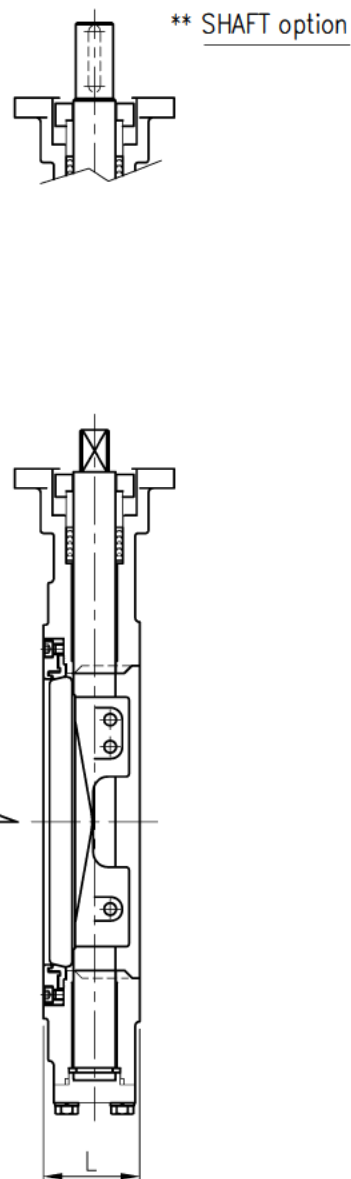
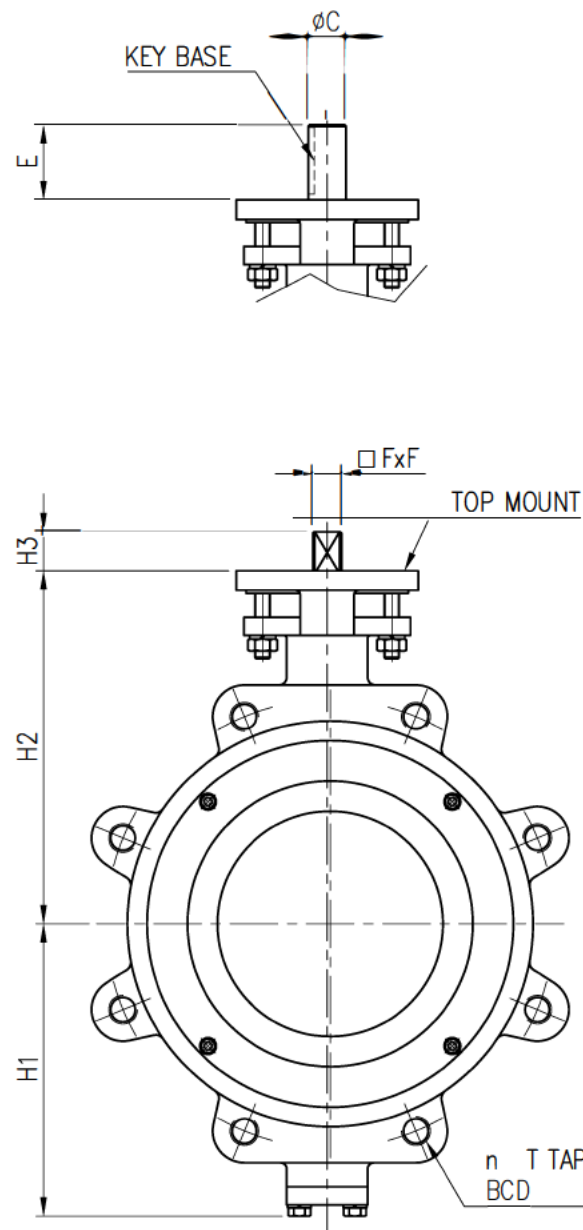
Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
18"	114	4	ø577.9	1 1/8" 8UN	361	380	100	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
20"	127	4	ø635.0	1 1/8" 8UN	400	420	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
24"	154	4	ø749.3	1 1/4" 8UN	469	480	110	50	46x46	100	ø60	18x11	ISO 5211-F14,F16

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

					DESCRIPTION H/P BUTTERFLY WAFER VALVE 850-18~24-15WB CLASS150 BARE STEM	DWG. No.	850-18~24-15WB-011		SCALE	N/A	
						TEST PRESSURE		SHELL		SEAT	
							HYDROSTATIC	kgf/cm ²		kgf/cm ²	
							AIR	kgf/cm ²		kgf/cm ²	
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON							
Rev. No.	DATE	DESCRIPTION	DRN.	APP.							

Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

851 - Dimension / ASME B16.5 Class150 / Lug type

[unit : mm]

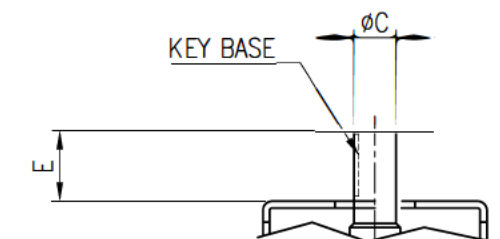
Size	L	n	BCD	T	H1	H2	H3	FxF	E	C	KEY BASE	TOP MOUNT
2"	43	4	ø120.7	5/8" UNC	96	125	13	11x11				ISO 5211-F07
2.5"	46	4	ø139.7	5/8" UNC	102	149	13	11x11				ISO 5211-F07
3"	48	4	ø152.4	5/8" UNC	117	160	13	11x11	40	ø16	5x5	ISO 5211-F07
4"	54	8	ø190.5	5/8" UNC	128	178	18	14x14	42	ø19	6x6	ISO 5211-F07
5"	57	8	ø215.9	3/4" UNC	146	193	18	14x14	42	ø19	6x6	ISO 5211-F07
6"	57	8	ø241.3	3/4" UNC	156	205	22	14x14	42	ø19	6x6	ISO 5211-F10
8"	64	8	ø298.5	3/4" UNC	195	235	26	19x19	52	ø28	8X7	ISO 5211-F10
10"	71	12	ø362.0	7/8" UNC	220	280	32	22x22	60	ø30	10x8	ISO 5211-F12
12"	81	12	ø431.8	7/8" UNC	265	310	35	27x27	65	ø30	10x8	ISO 5211-F12

NOTES

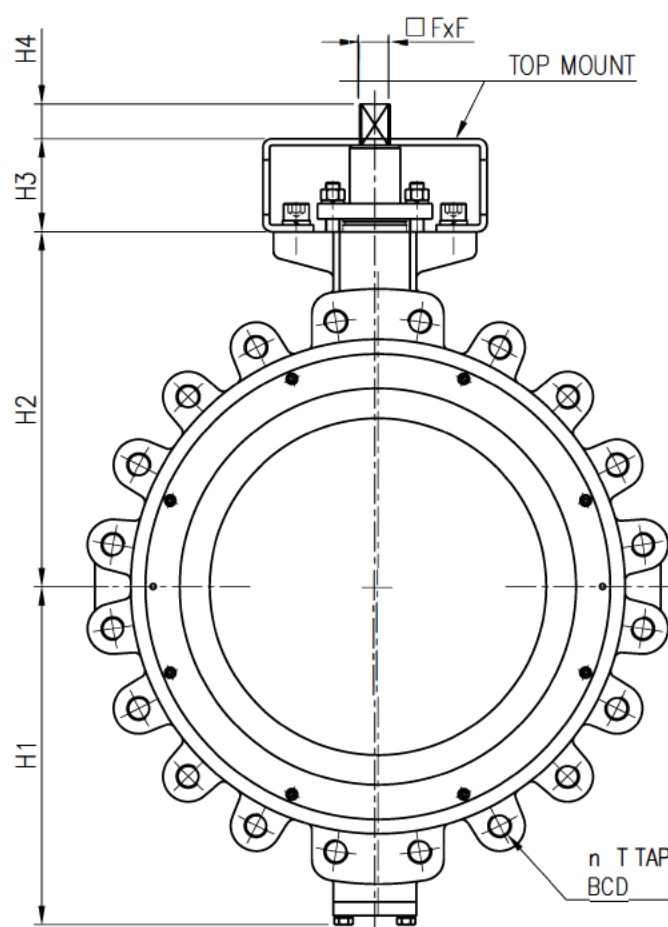
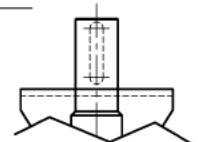
- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

DESCRIPTION					DWG. No.	851-2"12-15LB-010	SCALE	N/A
H/P BUTTERFLY LUG VALVE 851-2~12-15LB CLASS150 BARE STEM					TEST PRESSURE		SHELL	SEAT
						HYDROSTATIC	kgf/cm ²	kgf/cm ²
						AIR	kgf/cm ²	kgf/cm ²

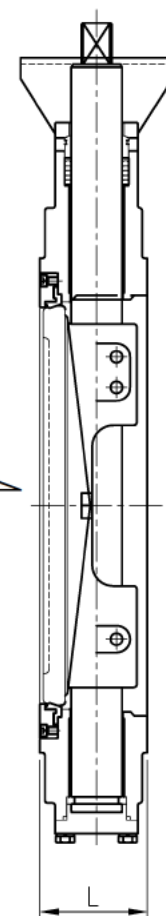
Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON



** SHAFT option



FLOW →



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

851 - Dimension/ ASME B16.5 Class I SO/ Lug type

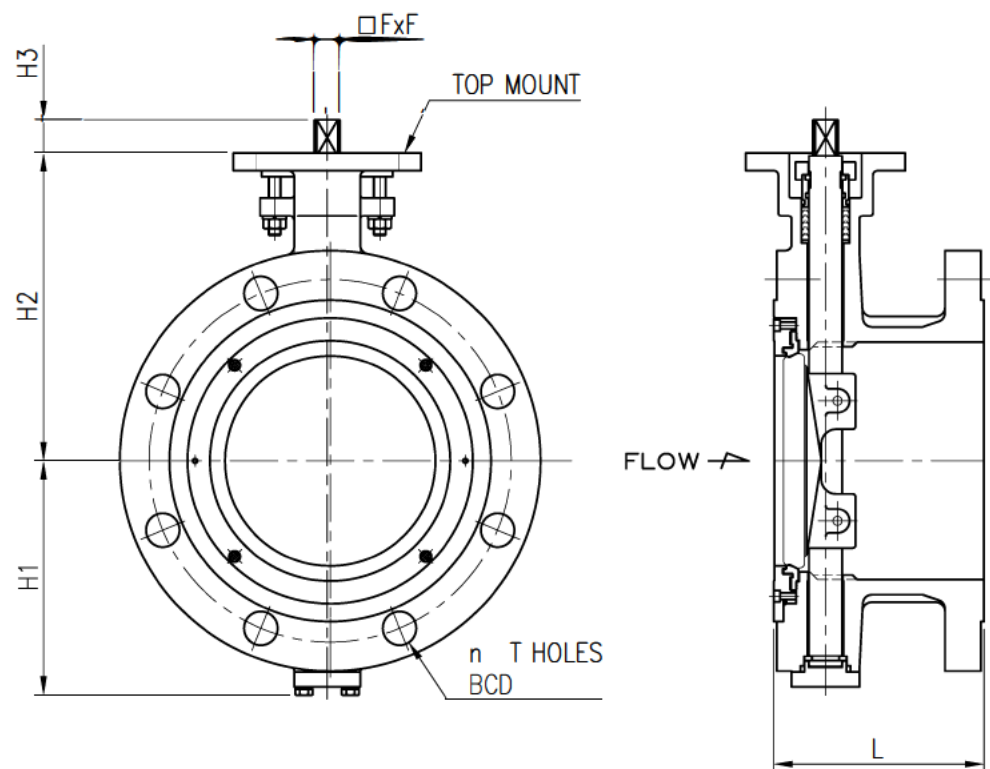
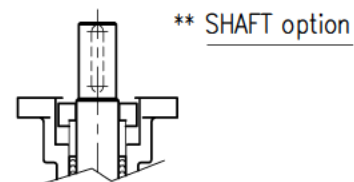
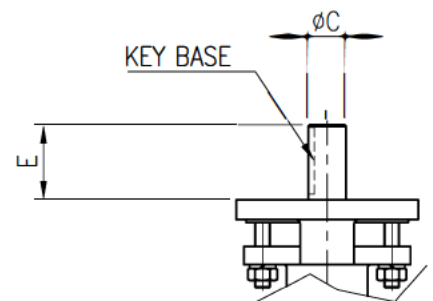
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	92	12	ø476.3	1" UNC	290	315	90	35	27x27	75	ø40	12x8	ISO 5211-F12,F14
16"	102	16	ø539.8	1" UNC	329	350	90	35	27x27	75	ø40	12x8	ISO 5211-F14,F16
18"	114	16	ø577.9	1 1/8" 8UN	361	380	100	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
20"	127	20	ø635.0	1 1/8" 8UN	400	420	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
24"	154	20	ø749.3	1 1/4" 8UN	469	480	110	50	46x46	100	ø60	18x11	ISO 5211-F14,F16

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

					DESCRIPTION	DWG. No	851-14N24-15LB-011	SCALE	N/A
					H/P BUTTERFLY LUG VALVE	TEST PRESSURE		SHELL	SEAT
					851-14~24-15LB		HYDROSTATIC	kgf/cm ²	kgf/cm ²
					CLASS150 BARE STEM		AIR	kgf/cm ²	kgf/cm ²
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON					
Rev. No.	DATE	DESCRIPTION	DRN.	APP.					



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

853 - Dimension / ASME B16.5 Class150 / Lug type

[unit : mm]

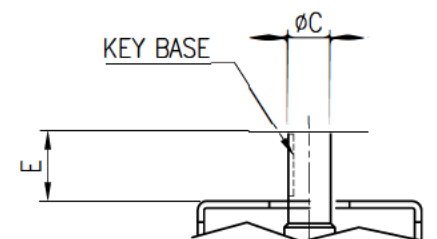
Size	L	n	BCD	T	H1	H2	H3	FxF	E	C	KEY BASE	TOP MOUNT
3"	114	4	ø152.4	ø19.1	117	160	13	11x11	40	ø16	5x5	ISO 5211-F07
4"	127	8	ø190.5	ø19.1	128	178	18	14x14	42	ø19	6x6	ISO 5211-F07
5"	140	8	ø215.9	ø22.4	146	193	18	14x14	42	ø19	6x6	ISO 5211-F07
6"	140	8	ø241.3	ø22.4	156	205	22	14x14	42	ø19	6x6	ISO 5211-F10
8"	152	8	ø298.5	ø22.4	195	235	26	19x19	52	ø28	8X7	ISO 5211-F10
10"	165	12	ø362.0	ø25.4	220	280	32	22x22	60	ø30	10x8	ISO 5211-F12
12"	178	12	ø431.8	ø25.4	265	310	35	27x27	65	ø30	10x8	ISO 5211-F12

NOTES

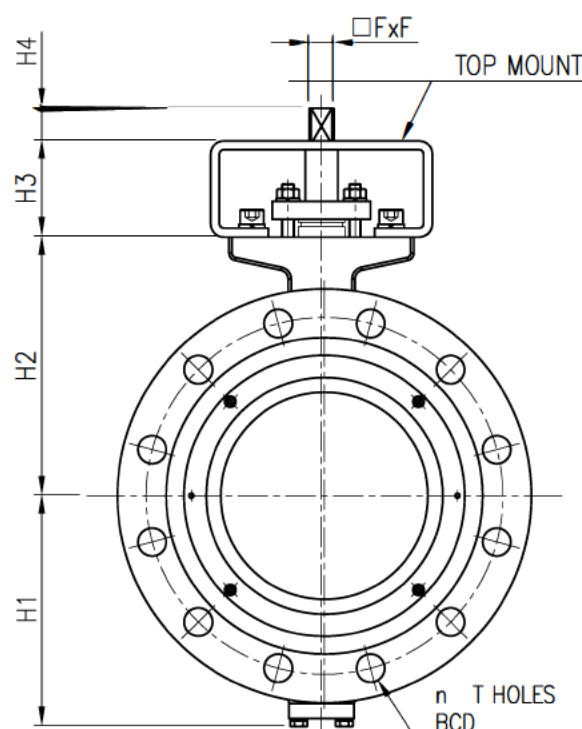
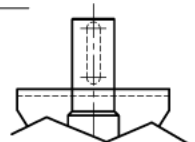
- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

					DESCRIPTION	DWG. No.	853-2~12-15LB-010	SCALE	N/A
					H/P BUTTERFLY FLANGE VALVE	TEST PRESSURE		SHELL	SEAT
					853-2~12-15FB		HYDROSTATIC	kgf/cm ²	kgf/cm ²
					CLASS150 BARE STEM		AIR	kgf/cm ²	kgf/cm ²
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON					
Rev. No.	DATE	DESCRIPTION	DRN.	APP.					

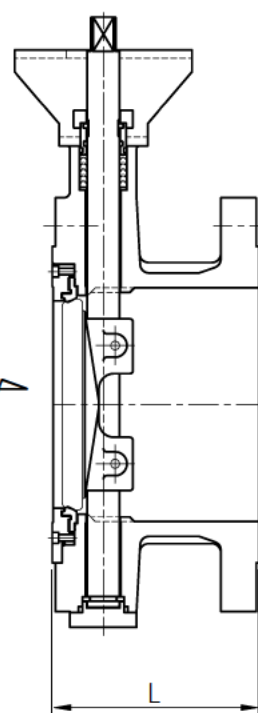
Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON



** SHAFT option



FLOW →



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

853 - Dimension/ ASME B16.5 Class150/ Flange type

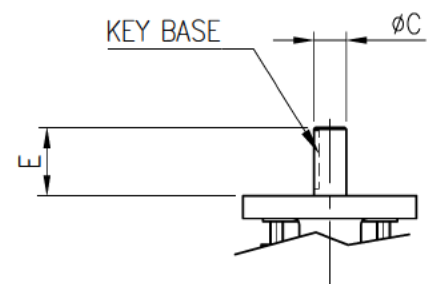
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	191	12	ø476.3	ø28.4	290	315	90	35	27x27	75	ø40	12x8	ISO 5211-F12,F14
16"	216	16	ø539.8	ø28.4	329	350	90	35	27x27	75	ø40	12x8	ISO 5211-F14,F16
18"	222	16	ø577.9	ø31.8	361	380	100	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
20"	229	20	ø635.0	ø31.8	400	420	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
24"	267	20	ø749.3	ø35.1	469	480	110	50	46x46	100	ø60	18x11	ISO 5211-F14,F16

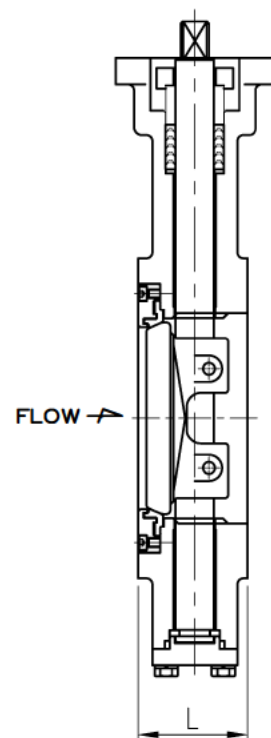
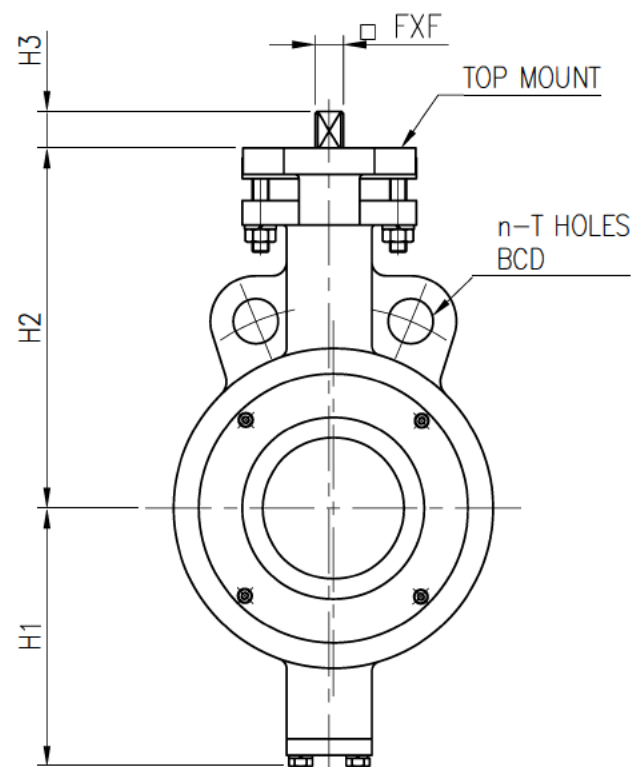
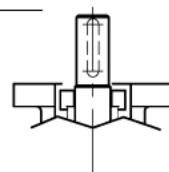
NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS150

DESCRIPTION					DWG. No.	853-14~24-15LB-011	SCALE	N/A
H/P BUTTERFLY FLANGE VALVE 853-14~24-15FB CLASS150 BARE STEM					TEST PRESSURE		SHELL	SEAT
						HYDROSTATIC	kgf/cm ²	kgf/cm ²
						AIR	kgf/cm ²	kgf/cm ²
Rev. No.	DATE	DESCRIPTION	DRN.	APP.				
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON				



** SHAFT option



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

860 - Dimension / ASME B16.5 Class300 / Wafer type

[unit : mm]

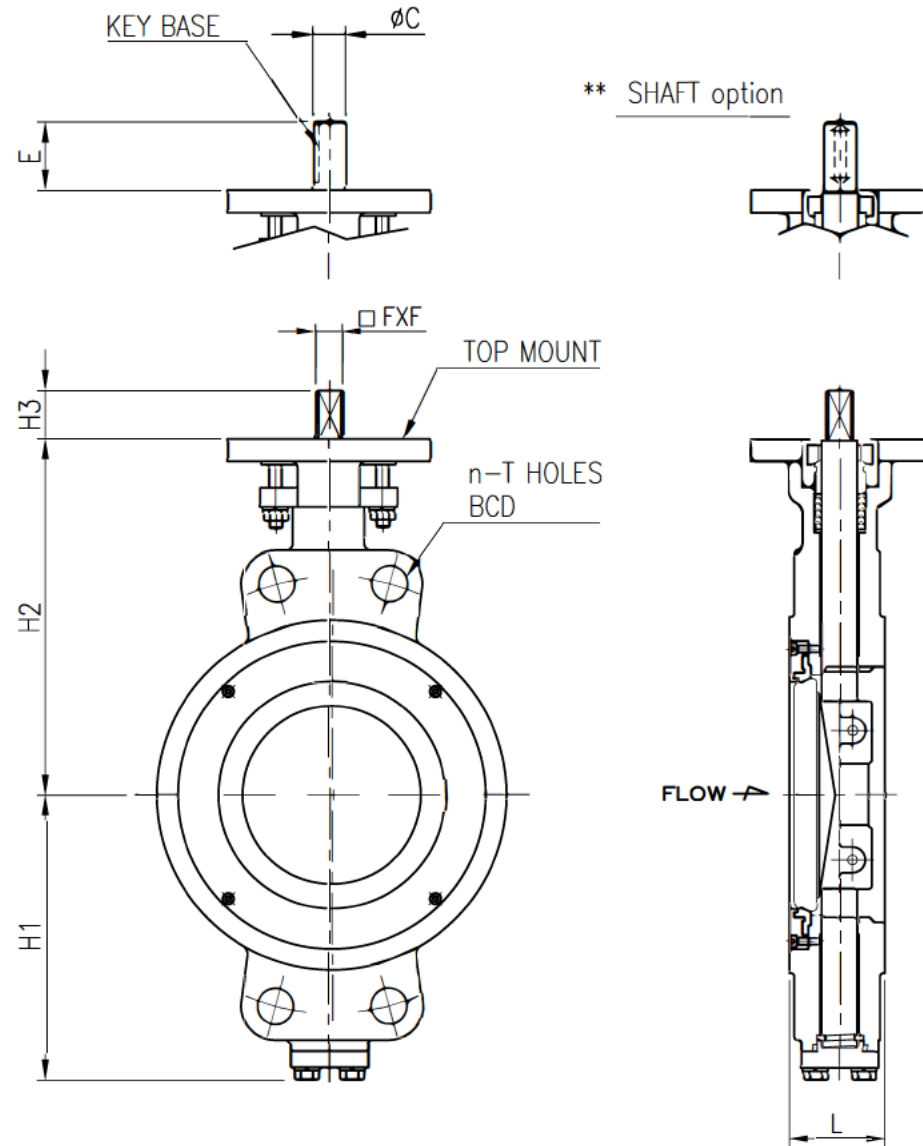
Size	L	n	BCD	T	H1	H2	H3	F	E	C	KEY BASE	TOP MOUNT
2"	43	2	ø127.0	3/4"	96	125	13	11x11				ISO 5211-F07
2.5"	48	2	ø149.2	7/8"	102	149	13	11x11				ISO 5211-F07
3"	48	2	ø168.3	7/8"	117	160	13	11x11	40	ø16	5x5	ISO 5211-F07
4"	54	2	ø200.0	7/8"	128	178	18	14x14	42	ø19	6x6	ISO 5211-F07
5"	57	2	ø235.0	7/8"	146	193	18	14x14	42	ø19	6x6	ISO 5211-F07

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

					DESCRIPTION H/P BUTTERFLY WAFER VALVE 860-2~5-30WB CLASS300 BARE STEM	DWG. No.	860-2~5-30WB-010		SCALE	N/A	
						TEST PRESSURE		SHELL		SEAT	
							HYDROSTATIC	kgf/cm ²		kgf/cm ²	
							AIR	kgf/cm ²		kgf/cm ²	
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON							
Rev. No.	DATE	DESCRIPTION	DRN.	APP.							

Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

860 - Dimension / ASME B16.5 Class300 / Wafer type

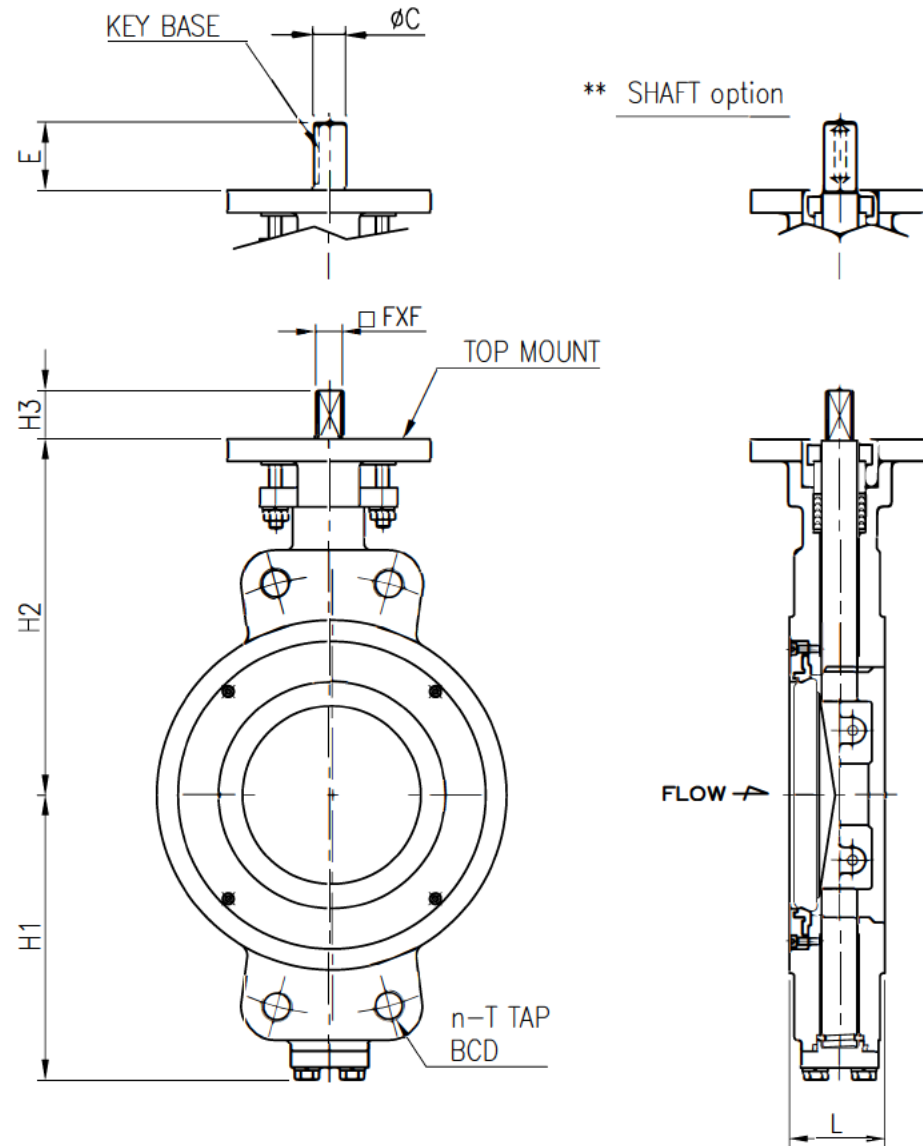
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	F	E	C	KEY BASE	TOP MOUNT
6"	59	4	ø269.9	7/8"	176	220	22	17X17	42	ø20	6x6	ISO 5211-F10
8"	73	4	ø330.2	1"	215	260	32	22x22	52	ø30	8x7	ISO 5211-F12

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

					DESCRIPTION	DWG. No.	860-6~8-30WB-010	SCALE	N/A
					H/P BUTTERFLY WAFER VALVE	TEST PRESSURE		SHELL	SEAT
					860-6~8-30WB		HYDROSTATIC	kgf/cm ²	kgf/cm ²
					CLASS300 BARE STEM		AIR	kgf/cm ²	kgf/cm ²
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON					
Rev. No.	DATE	DESCRIPTION	DRN.	APP.					



** SHAFT option

No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

860 - Dimension/ ASME B16.5 Class300/ Wafer type

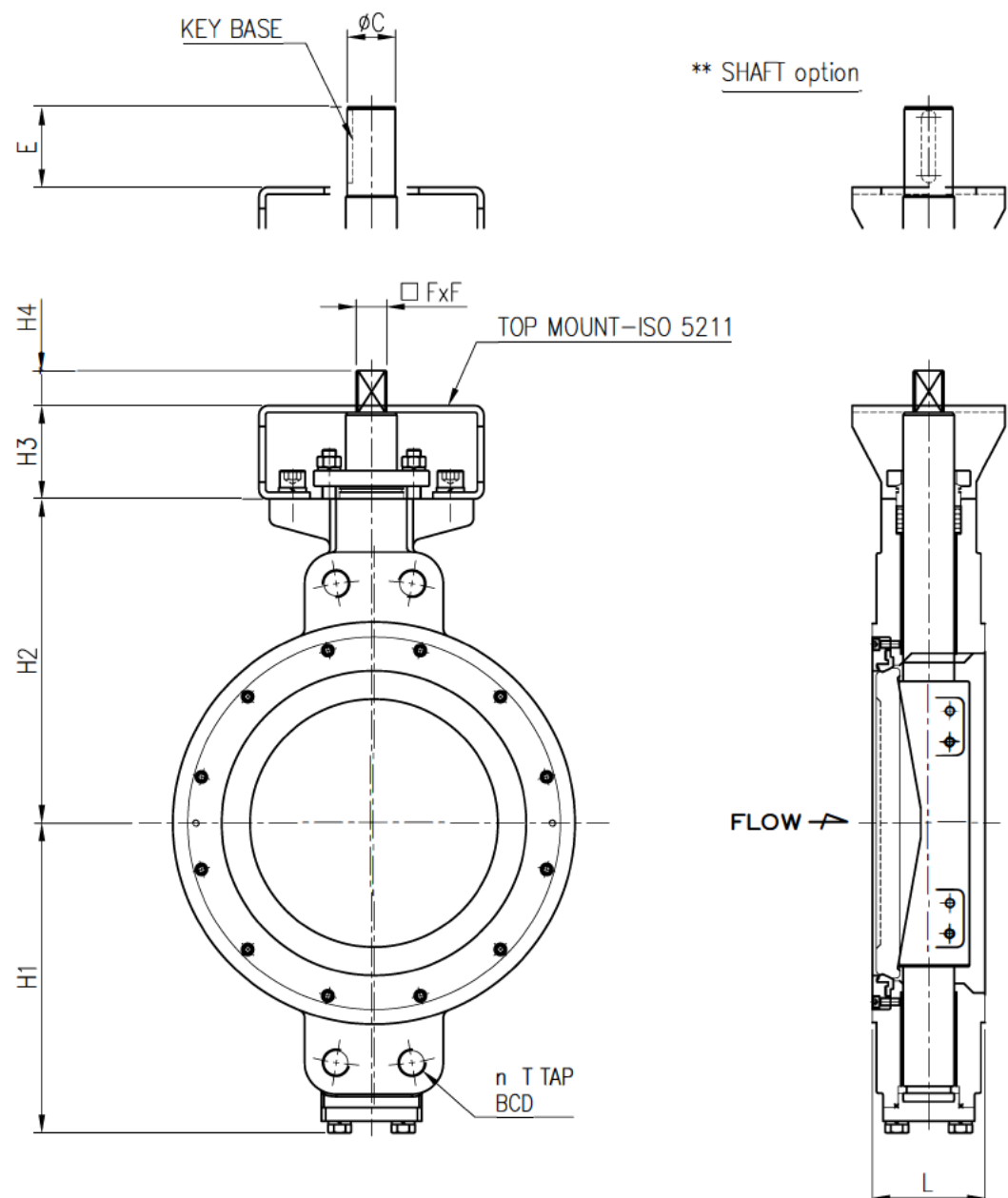
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	F	E	C	KEY BASE	TOP MOUNT
10"	83	4	ø387.4	1" UNC	269	290	35	22x22	65	ø32	10x8	ISO 5211-F12
12"	92	4	ø450.8	1 1/8" 8UN	295	325	35	27x27	65	ø38	10x8	ISO 5211-F12

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

					DESCRIPTION	DWG. No.	860-10~12-30WB-010	SCALE	N/A
					H/P BUTTERFLY WAFER VALVE	TEST PRESSURE		SHELL	SEAT
					860-10~12-30WB		HYDROSTATIC	kgf/cm ²	kgf/cm ²
					CLASS300 BARE STEM		AIR	kgf/cm ²	kgf/cm ²
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON					
Rev. No.	DATE	DESCRIPTION	DRN.	APP.					



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

860 - Dimension (ASME B16.5 Class300, Wafer type)

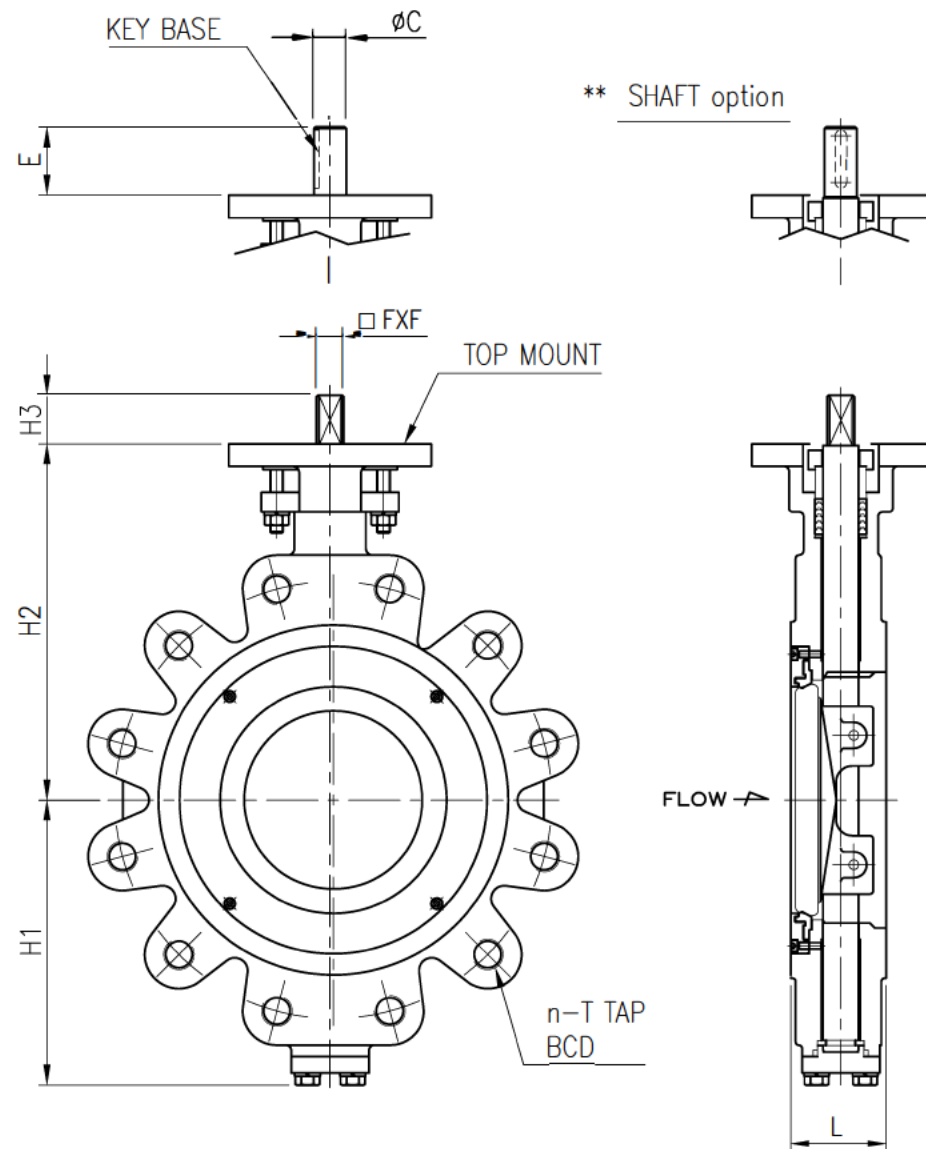
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	117	4	ø514.4	1 1/8" 8UN	325	355	90	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
16"	133	4	ø571.5	1 1/4" 8UN	365	392	90	48	36x36	90	ø50	14x9	ISO 5211-F14,F16
18"	149	4	ø628.6	1 1/4" 8UN	410	418	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
20"	159	4	ø685.8	1 1/4" 8UN	450	475	125	50	46X46	100	ø60	18x11	ISO 5211-F25
24"	181	4	ø812.8	1 1/2" 8UN	522	530	125			100	ø75	20x12	ISO 5211-F25

NOTES

1. DESIGN STD. : API 609
2. Mating FLANGE : ASME B16.5 CLASS300

					DESCRIPTION H/P BUTTERFLY WAFER VALVE 860-14~24-30WB CLASS300 BARE STEM	DWG. No.	860-14~24-30WB-011		SCALE	N/A	
						TEST PRESSURE		SHELL	SEAT		
							HYDROSTATIC	kgf/cm ²		kgf/cm ²	
							AIR	kgf/cm ²		kgf/cm ²	
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON							
Rev. No.	DATE	DESCRIPTION	DRN.	APP.							



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

861 - Dimension/ ASME B16.5 Class300/ Lug type

[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	F	E	C	KEY BASE	TOP MOUNT
2"	43	8	ø127.0	5/8" UNC	96	125	13	11x11				ISO 5211-F07
2.5"	48	8	ø149.2	3/4" UNC	102	149	13	11x11				ISO 5211-F07
3"	48	8	ø168.3	3/4" UNC	117	160	13	11x11	40	ø16	5x5	ISO 5211-F07
4"	54	8	ø200.0	3/4" UNC	128	178	18	14x14	42	ø19	6x6	ISO 5211-F07
5"	57	8	ø235.0	3/4" UNC	146	193	18	14x14	42	ø19	6x6	ISO 5211-F07
6"	59	12	ø269.9	3/4" UNC	176	220	22	17x17	42	ø20	6x6	ISO 5211-F10
8"	73	12	ø330.2	7/8" UNC	215	260	32	22x22	52	ø30	8x7	ISO 5211-F12
10"	83	16	ø387.4	1" UNC	269	290	35	22x22	65	ø32	10x8	ISO 5211-F12
12"	92	16	ø450.8	1 1/8" 8UN	295	325	35	27x27	65	ø38	10x8	ISO 5211-F12

NOTES

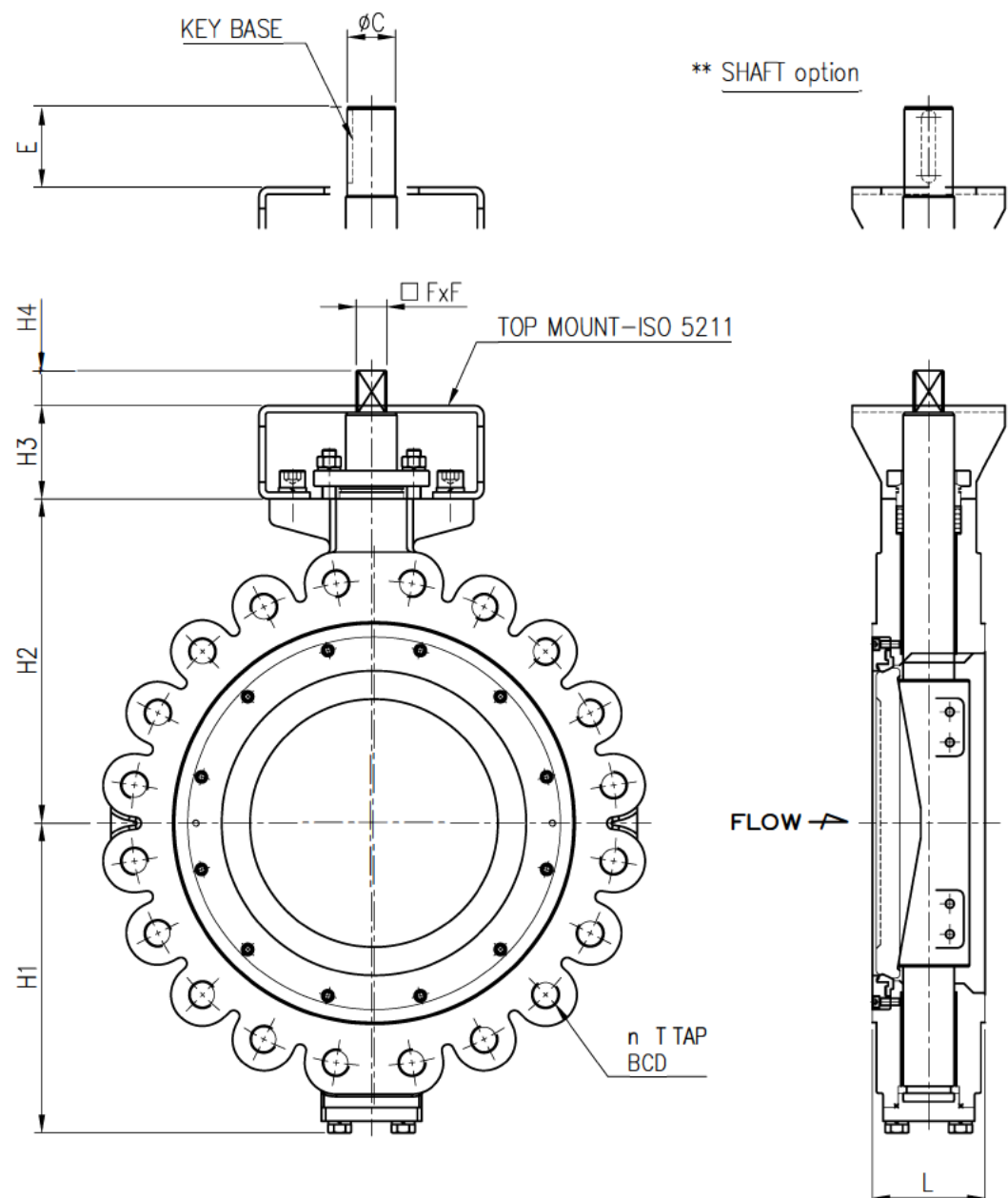
- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON

DESCRIPTION

H/P BUTTERFLY LUG VALVE
861-2~12-30LB
CLASS300 BARE STEM

DWG. No.	861-2~12-30LB-010	SCALE	N/A
TEST PRESSURE	HYDROSTATIC	SHELL	SEAT
		kgf/cm ²	kgf/cm ²
		kgf/cm ²	kgf/cm ²



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

861 - Dimension (ASME B16.5 Class300, Lug type)

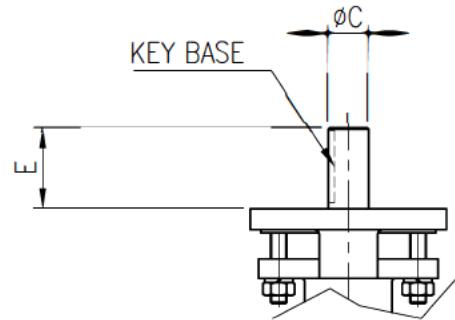
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	117	20	ø514.4	1 1/8" 8UN	325	355	90	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
16"	133	20	ø571.5	1 1/4" 8UN	365	392	90	48	36x36	90	ø50	14x9	ISO 5211-F14,F16
18"	149	24	ø628.6	1 1/4" 8UN	410	418	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
20"	159	24	ø685.8	1 1/4" 8UN	450	475	125	50	46X46	100	ø60	18x11	ISO 5211-F25
24"	181	24	ø812.8	1 1/2" 8UN	522	530	125			100	ø75	20x12	ISO 5211-F25

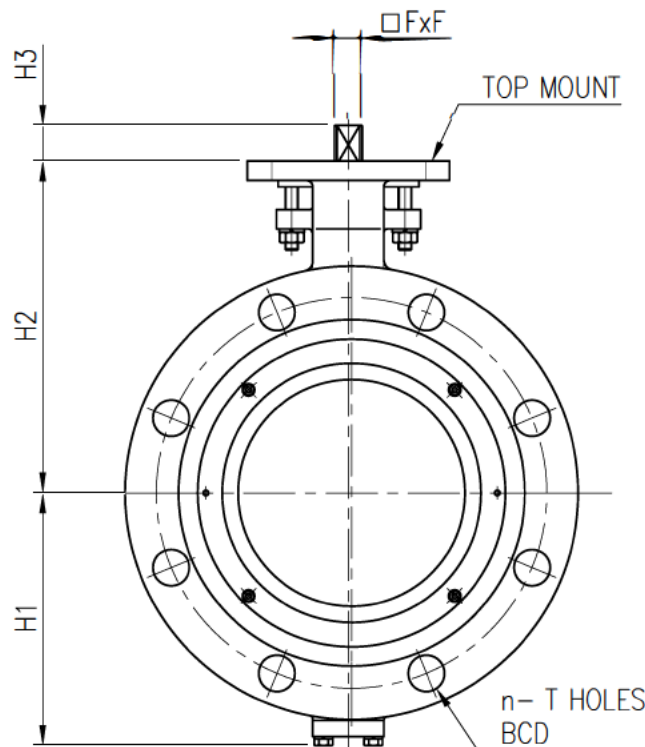
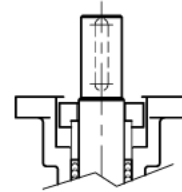
NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

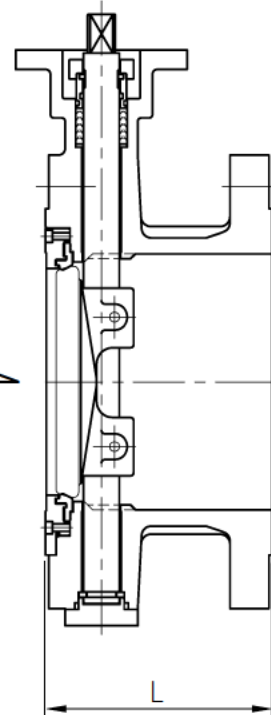
					DESCRIPTION H/P BUTTERFLY LUG VALVE 861-14~24-30LB CLASS300 BARE STEM	DWG. No.	861-14~24-30LB-011	SCALE	N/A
						TEST PRESSURE		SHELL	SEAT
							HYDROSTATIC	kgf/cm ²	kgf/cm ²
							AIR	kgf/cm ²	kgf/cm ²
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON					
Rev. No.	DATE	DESCRIPTION	DRN.	APP.					



** SHAFT option



FLOW →



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	

863 - Dimension/ ASME B16.5 Class300/ Lug type

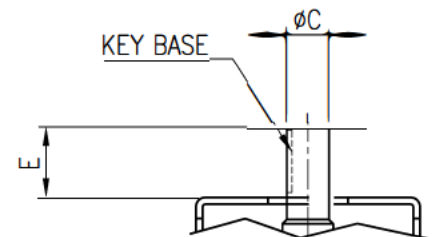
[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	F	E	C	KEY BASE	TOP MOUNT
3"	180	8	ø168.3	ø22.4	117	160	13	11x11	40	ø16	5x5	ISO 5211-F07
4"	190	8	ø200.0	ø22.4	128	178	18	14x14	42	ø19	6x6	ISO 5211-F07
5"	210	8	ø235.0	ø22.4	146	193	18	14x14	42	ø19	6x6	ISO 5211-F07
6"	210	12	ø269.9	ø22.4	176	220	22	17x17	42	ø20	6x6	ISO 5211-F10
8"	230	12	ø330.2	ø25.4	215	260	32	22x22	52	ø30	8x7	ISO 5211-F12
10"	250	16	ø387.4	ø28.4	269	290	35	22x22	65	ø32	10x8	ISO 5211-F12
12"	270	16	ø450.8	ø31.8	295	325	35	27x27	65	ø38	10x8	ISO 5211-F12

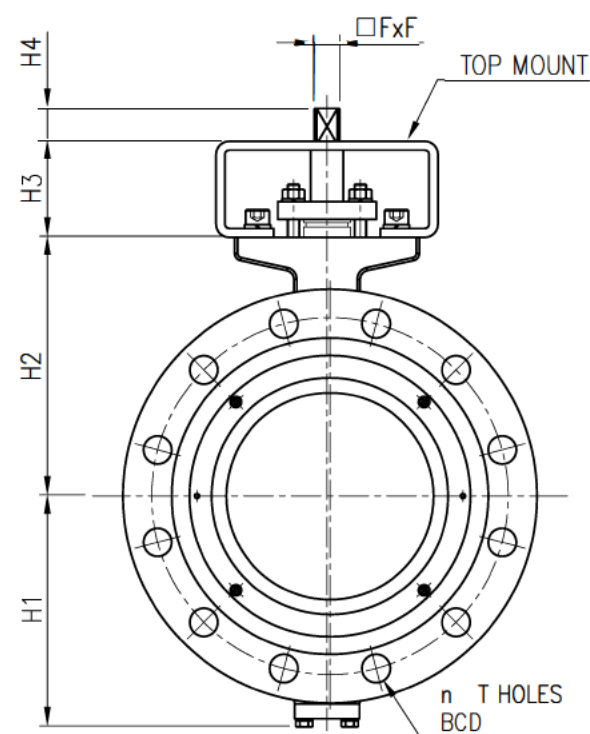
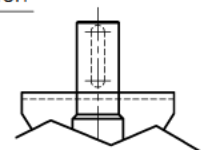
NOTES

1. DESIGN STD. : API 609
2. Mating FLANGE : ASME B16.5 CLASS300

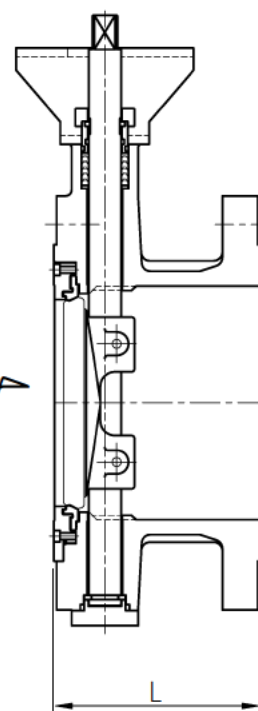
DESCRIPTION					DWG. No.	863-2~12-30LB-010	SCALE	N/A
H/P BUTTERFLY FLANGE VALVE 863-2~12-30LB CLASS300 BARE STEM					TEST PRESSURE		SHELL	SEAT
						HYDROSTATIC	kgf/cm ²	kgf/cm ²
						AIR	kgf/cm ²	kgf/cm ²
Rev. No.	DATE	DESCRIPTION	DRN.	APP.				
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON				



** SHAFT option



FLOW →



No.	Part	Soft Seated		Metal Seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
01	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
02	DISC	CF8M		CF8M+HCR		CF8M	
03	STEM	17-4PH		17-4PH		17-4PH	
04	SEAT	RTFE		SS316		RTFE+SS316	
05	SEAT RETAINER	1020	SS316	1020	SS316	1020	SS316
06	PACKING	PTFE(V-PACKING)		GRAPHITE		GRAPHITE	
07	BUSH(BEARING)	SS304+Teflon	SS316+Teflon	SS304+HCR	SS316+HCR	SS304+HCR	SS316+HCR
08	GLAND BRIDGE	SS304		SS304		SS304	
09	GLAND RING	SS304+HCR		SS304+HCR		SS304+HCR	
10	BRACKET	Carbon steel		Carbon steel		Carbon steel	

863 - Dimension (ASME B16.5 Class300, Flange type)

[unit : mm]

Size	L	n	BCD	T	H1	H2	H3	H4	F	E	C	KEY BASE	TOP MOUNT
14"	290	20	ø514.4	ø31.8	325	355	90	48	36x36	75	ø45	14x9	ISO 5211-F14,F16
16"	310	20	ø571.5	ø35.1	365	392	90	48	36x36	90	ø50	14x9	ISO 5211-F14,F16
18"	330	24	ø628.6	ø35.1	410	418	110	48	36x36	90	ø55	16x10	ISO 5211-F14,F16
20"	350	24	ø685.8	ø35.1	450	475	125	50	46X46	100	ø60	18x11	ISO 5211-F25
24"	390	24	ø812.8	ø41.1	522	530	125			100	ø75	20x12	ISO 5211-F25

NOTES

- DESIGN STD. : API 609
- Mating FLANGE : ASME B16.5 CLASS300

					DESCRIPTION	DWG. No.	863-14~24-30LB-011		SCALE	N/A	
					H/P BUTTERFLY FLANGE VALVE	TEST PRESSURE		SHELL	SEAT		
	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON	863-14~24-30LB		HYDROSTATIC	kgf/cm ²		kgf/cm ²	
Rev. No.	DATE	DESCRIPTION	DRN.	APP.	CLASS300 BARE STEM		AIR	kgf/cm ²		kgf/cm ²	

Rev. No.	DATE	DESCRIPTION	DRN.	APP.
0	20.02.03	FOR REFERENCE	JH,YU	MJ,KWON