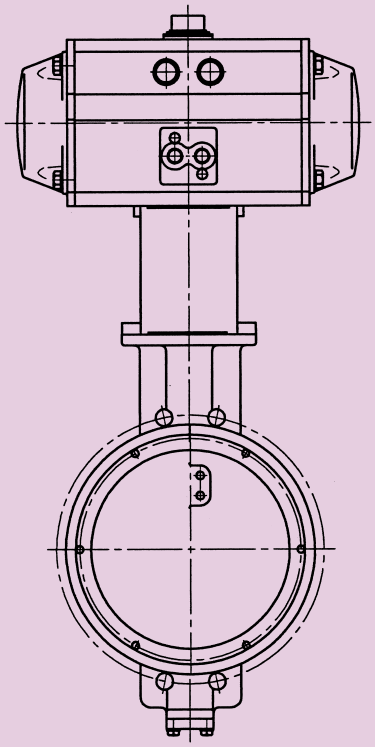
STANDARD SPECIFICATION

高性能バタフライバルブ
エキセントリック形 パラシール

HIGH PERFORMANCE BUTTERFLY VALVES
ECCENTRIC TYPE

711B SERIES



KOSO

KOSO の自動調節弁と計装システム

KOSOは、自動調節弁（コントロールバルブ）のトップメーカとして高水準にある独自の技術開発力で時代の要請に応え、新世紀へ対応する幅広い製品を揃えるとともに、ISO 9001による品質保証体制のもとで製作した高品質、高信頼のコントロールバルブとそのシステムを提供してまいります。ここに紹介する資料は、KOSOコントロールバルブの技術カタログであります。KOSOコントロールバルブの選定に御利用下さい。更に詳細な資料が御必要な場合又は、本技術カタログについて不明な点がございましたら最寄りの弊社営業までお問い合わせ下さい。

KOSO's Control Valves and Instrumentation Systems

KOSO, the leading industrial control valve manufacturer with strong research and development capability of its own, has been meeting requirements of the time. Always making available a wide range of product lines that can satisfy the needs of the coming century, KOSO is committed to providing control valves, and the systems thereof, of highest quality and reliability, produced under its quality assurance system complying with ISO 9001 standard.

Here KOSO presents its technological catalog, introducing various types of KOSO control valves, hoping to be of service as you select valves for your specific applications.

If you have questions on this technological catalog or require additional printed materials, please contact our sales representative nearest you.

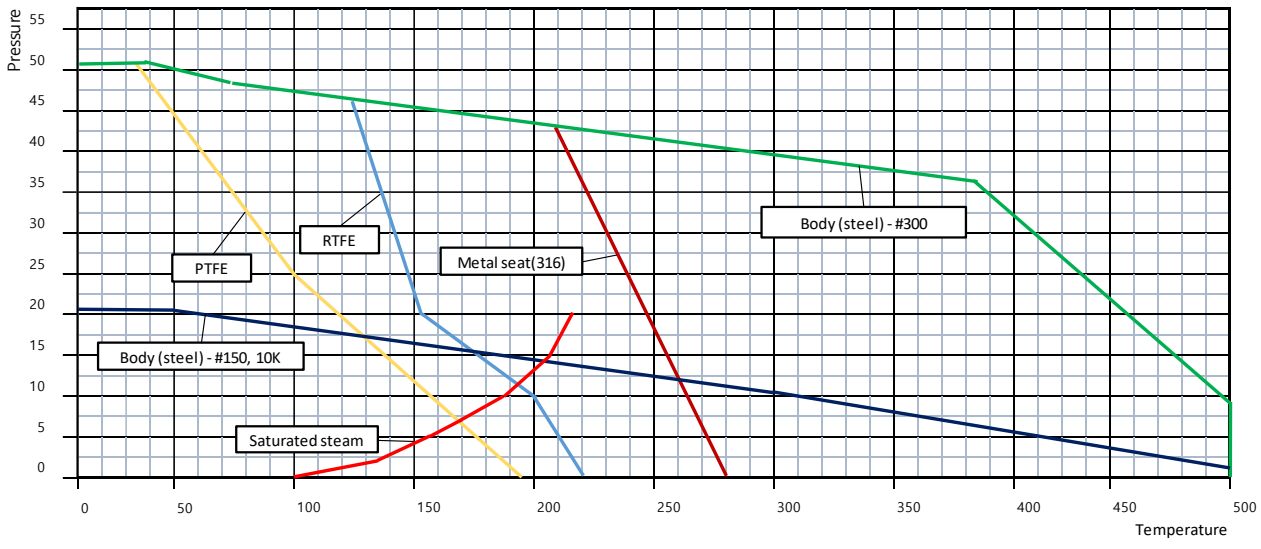
Standard Specifications

Series	711B	
Body size	ASME Class 150, JIS 10K	: 2" ~ 72" (50A~1800A)
	ASME Class 300, JIS 20K	: 2" ~ 48" (50A~1200A)
	ASME Class 600	: 3" ~ 24" (80A~600A)
Temperature	-29℃ ~ +380℃	
	The working temperature depends on the media and on the material of the seat.	
Body rating	JIS 10K, 20K, ASME Class150, 300, 600	
Body connection	Wafer, Lug, Double flange	
Material	See. Part list & Material	
	SCPH2/A216-WCB, A351-CF8, A351-CF8M, A351-CF3M and other alloy steels	
Dimension	See. Dimension table	
Gland Packing	P(R)TFE V-Packing, Graphite	
Seat type	Soft seat, Metal seat, Fire-safe seat	
Leakage class	Soft seat & Fire safe seat - Class VI / Metal seat - Class IV	
Applied standard	API 609, ASME B16.5, ASME B16.47, ASME B16.34, API 598, API 607, ISO 5208 etc.	

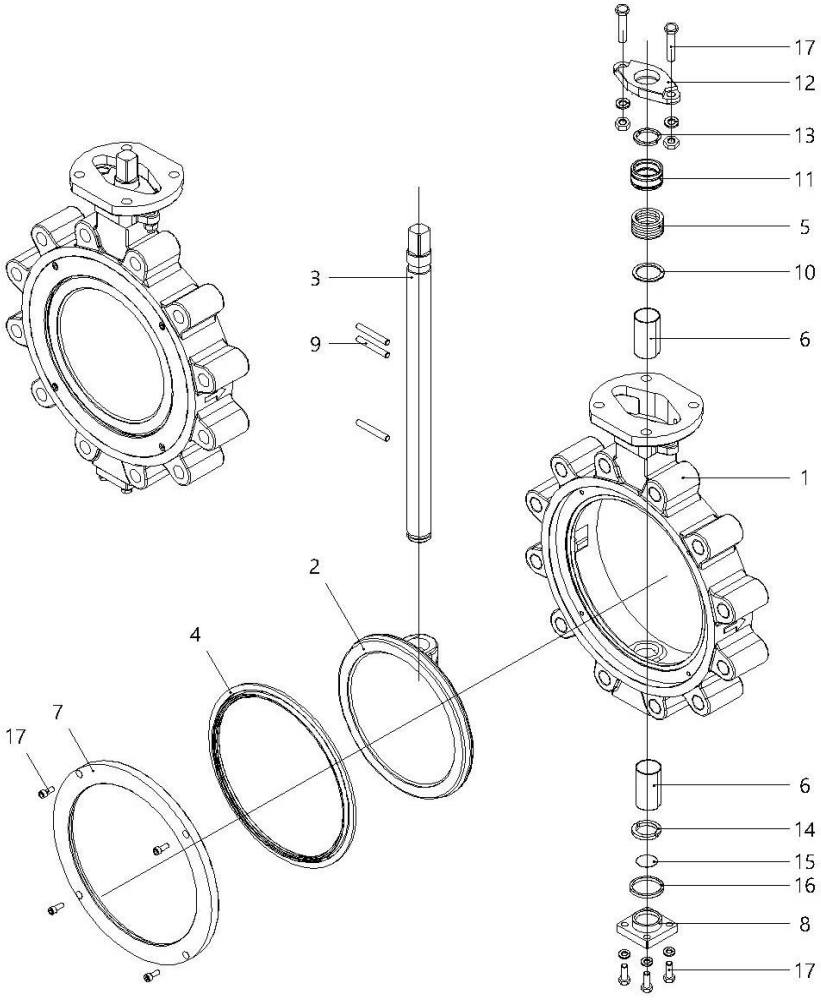
Optional Special Specifications (additional cost is required)

Special tesing for Body	Material certificate, Liquid penetrant testting, Radiographic testing, Flow characteristic testing, Low temperature testing, Steam testing
Spedcial cleaning for body	Oxygen clean, Oil-fress, Water-free.
Special specification for Body and Actuator	Sand and Dust proof, Salty environment proof, Cold area proof, Trofical area proof, Do not use copper alloy, Vaccuum service proof, Special piping and fitting, Stainless steel bolt and nut for exposed parts, Non-standard painting

Pressure & Temperature Rating



Body Parts



Part list and Materials

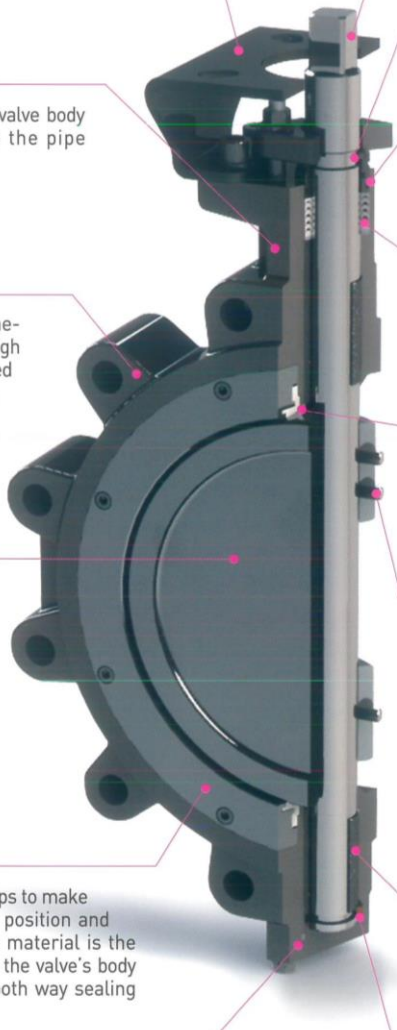
No.	Part	Soft seated		Metal seated		Fire Safe	
		Carbon steel	Stainless steel	Carbon steel	Stainless steel	Carbon steel	Stainless steel
1	Body	A216-WCB	CF8, CF8M, CF3M	A216-WCB	CF8, CF8M, CF3M	A216-WCB	CF8, CF8M, CF3M
2	Disc	A351-CF8M		A351-CF8M+HCR		A351-CF8M	
3	Stem(shaft)	17-4PH (630SS)					
4	Seat	PTFE, RTFE		316SS		RTFE+316SS	
5	Packing	PTFE		Graphite			
6	Bearing(Bush)	304SS+Teflon	316SS+Teflon	316SS+HCR	316SS+HCR	316SS+Teflon	
7	Seat retainer	1020	316SS	1020	316SS	1020	316SS
8	Bottom cover	WCB	CF8, CF8M	WCB	CF8, CF8M	WCB	CF8, CF8M
9	Disc pin	316SS					
10	Packing retaner	316SS					
11	Gland ring	304SS+ENP	316SS+ENP	304SS+ENP	316SS+ENP	304SS+ENP	316SS+ENP
12	Gland bridge	CF8					
13	Blow-out proof ring	316SS					
14	Stem retainer	316SS+ENP					
15	Bottom spacer	316SS					
16	Bottom gasket	PTFE		Graphite			
17	Bolts	Stainless Steel					

■ Contact your sales representative for appropriate materiala for specific service.

■ Stainless steel 316(or 304) stem is not desirable for full pressure rating and not recommended for class600.

High-Performance Butterfly Valve
[711B Model] Technical Feature

KOSO



Bracket-mount flange
It helps to control Gland packing easily, that is located on the top part of the body of the valve and could apply the Live-load type packing which is in our option. The bended type of Bracket supplies ISO 5211 mount, so it is easily used for automation.

Extended neck
By making the neck part of the valve body long, it could easily react to the pipe insulation situation.

Body
Body is being produced by a one-piece casting, which provides a high qualified unity, could be produced by a Wafer, Lug, Double flange forms, manufactured by Carbon steel, Stainless steel, Duplex etc., by customers demand.

Disc
It's standard spec is CF8 and CF8M type of stainless steel, double offset structure, designed to be easily separated from the seat. So it reduces the wear of it's seat and activating torque.

Seat retainer plate
Being fixed by several volts, it helps to make the seat be located in it's right position and helps the sealing function. The material is the same type that is being used for the valve's body and it is made to react to the both way sealing service and Dead-end service.

Bottom cover packing
To prevent the leaking problem between Bottom cover and valve's body, it is composed as the gasket form, so it cut off's the leaking issue securely.

Stem(shaft)
Supplied standard spec is 17-4PH Stainless steel, which gives the most intensity and safeness for using. It could be manufactured by other materials by the customers demand.

Blowout proof stem
Has the structure of Blowout proof stem and is being operated with the Gland structure, which meets the API 609 standard.

Back-up ring packing
If the temperature of the using fluid is not high, we additionally apply the o-ring that is made by rubber so it could securely cut off the outside leaking problem.

Packing
The standard spec is given as V-Packing type of PTFE material, which supplies the finest sealing performance. Die-formed ring typed Graphite packing could be applied by the customers demand.

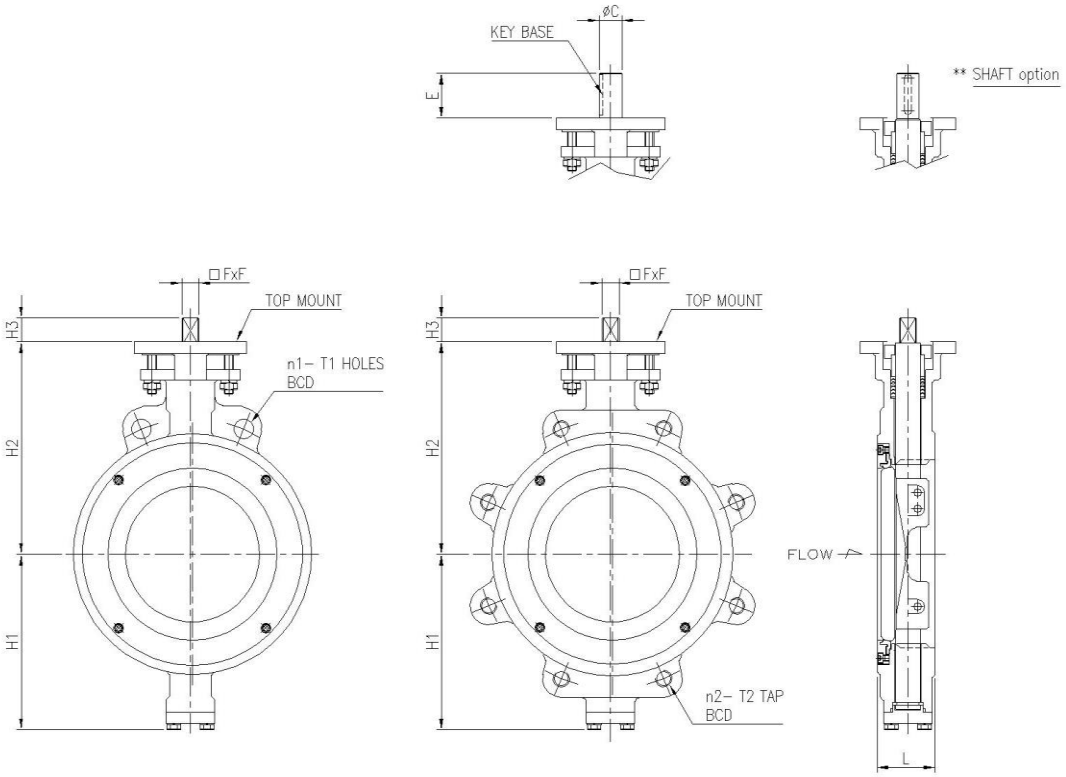
Seat
Progressed structure of the seat is designed to correspond easily to the pressure alteration and be well functioned for it's sealing ability for Low, high temperature. The Double offset structure minimize the wear of the seat and makes it's sealing ability last longer. The seat is being fixed by the retainer plate and could extend it's lifecycle by a small maintenance cost.

Disc taper pins
The Taper formed pin is being offset on the stem's centerline so it could have a high intensity, after it has been assembled and tested for it 's pressure, it is being welded so it would not breakaway and be fixed.

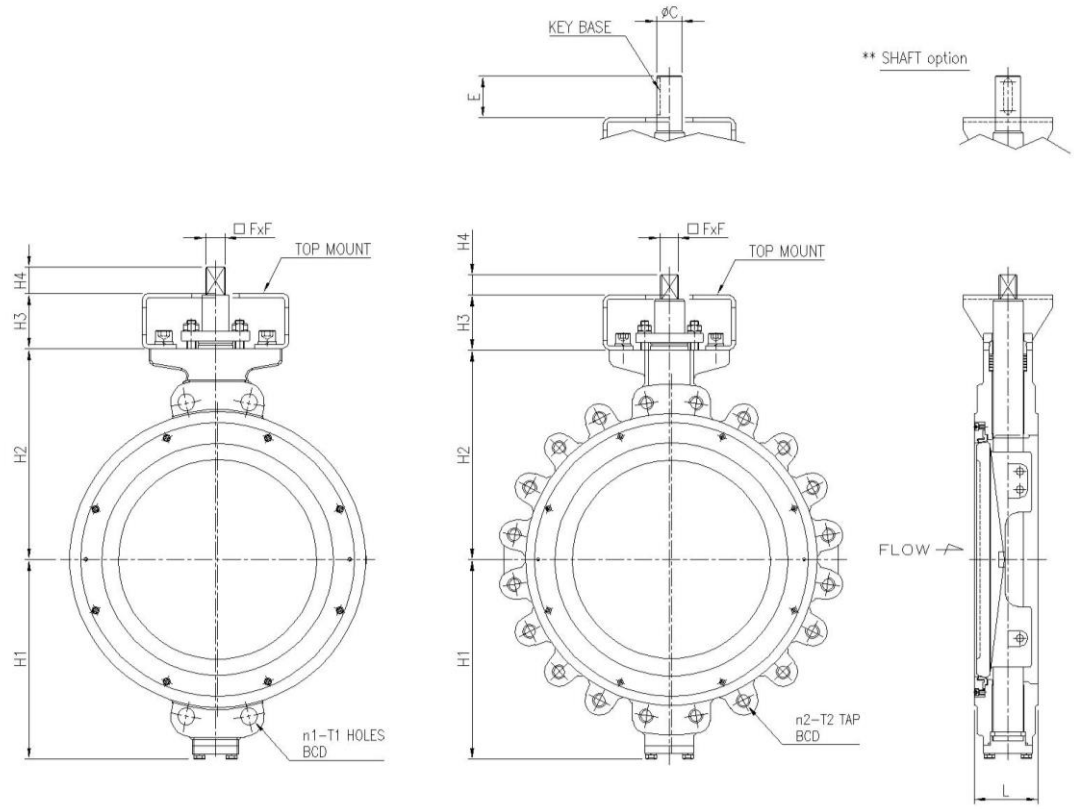
Bearing(Bushing)
By Teflon coating on stainless steal, it gives a long lifecycle for it reduces it's friction and makes the stem rotation easily.

Bottom stem retainer
Being fixed by the Bottom cover and the valve's body, makes the stem fixed so the disc could be located on it's right position, eventually makes a longer lifecycle.

711B 2"~12"(50A~300A)



711B 14"~24"(350A~600A)



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DIMENSION [ASME B16.5 Class150, Wafer & Lug]

[unt : mm,inch]

Size		L	n1	n2	BCD	T1	T2	H1	H2	H3	H4	FxF	E	C	KEY	TOP MOUNT
inch	mm															
2	50	43	2	4	Φ120.7	Φ19.1	5/8" UNC	96	125	13		11x11				ISO5211 F07
2.5	65	46	2	4	Φ139.7	Φ19.1	5/8" UNC	102	149	13		11x11				ISO5211 F07
3	80	48	2	4	Φ152.4	Φ19.1	5/8" UNC	117	160	13		11x11	40	Φ16	5x5	ISO5211 F07
4	100	54	2	8	Φ190.5	Φ19.1	5/8" UNC	128	178	18		14x14	42	Φ19	6x6	ISO5211 F07
5	125	57	2	8	Φ215.9	Φ22.2	3/4" UNC	146	193	18		14x14	42	Φ19	6x6	ISO5211 F07
6	150	57	2	8	Φ241.9	Φ22.2	3/4" UNC	156	205	22		14x14	42	Φ19	6x6	ISO5211 F10
8	200	64	2	8	Φ298.5	Φ22.2	3/4" UNC	195	235	26		19x19	52	Φ28	8x7	ISO5211 F10
10	250	71	2	12	Φ362.0	Φ25.4	7/8" UNC	220	280	32		22x22	60	Φ30	8x7	ISO5211 F12
12	300	81	2	12	Φ431.8	Φ25.4	7/8" UNC	265	310	35		27x27	65	Φ30	10x8	ISO5211 F12
14	350	92	2	12	Φ476.3	Φ28.6	1" UNC	290	315	90	35	27x27	75	Φ40	12x8	ISO5211 F12, F14
16	400	102	2	16	Φ539.8	Φ28.6	1" UNC	329	350	90	35	27x27	75	Φ40	12x8	ISO5211 F14, F16
18	450	114	4	16	Φ577.9	1 1/8"	1 1/8" 8UN	361	380	100	48	36x36	75	Φ45	14x9	ISO5211 F14, F16
20	500	127	4	20	Φ635.0	1 1/8"	1 1/8" 8UN	400	420	110	49	36x36	90	Φ55	16x10	ISO5211 F14, F16
24	600	154	4	20	Φ749.3	1 1/4"	1 1/4" 8UN	469	480	110	50	46x46	100	Φ60	18x11	ISO5211 F14, F16

▶ Body type also offers double flanged type.

▶ Dimension are subject to change without notice.

DIMENSION [ASME B16.5 Class300, Wafer & Lug]

[unit : mm,inch]

Size		L	n1	n2	BCD	T1	T2	H1	H2	H3	H4	FxF	E	C	KEY	TOP MOUNT
inch	mm															
2	50	43	2	8	Φ127.0	Φ19.1	5/8" UNC	96	125	13		11x11				ISO5211 F07
2.5	65	48	2	8	Φ149.2	Φ22.2	3/4" UNC	102	149	13		11x11				ISO5211 F07
3	80	48	2	8	Φ168.3	Φ22.2	3/4" UNC	117	160	13		11x11	40	Φ16	5x5	ISO5211 F07
4	100	54	2	8	Φ200.0	Φ22.2	3/4" UNC	128	178	18		14x14	42	Φ19	6x6	ISO5211 F07
5	125	57	2	8	Φ235.0	Φ22.2	3/4" UNC	146	193	18		14x14	42	Φ19	6x6	ISO5211 F07
6	150	59	4	12	Φ269.9	Φ22.2	3/4" UNC	176	220	22		17x17	42	Φ20	6x6	ISO5211 F10
8	200	73	4	12	Φ330.2	Φ25.4	7/8" UNC	215	260	32		22x22	52	Φ30	8x7	ISO5211 F12
10	250	83	4	16	Φ387.4	1" unc	1" UNC	269	290	35		22x22	65	Φ32	10x8	ISO5211 F12
12	300	92	4	16	Φ450.8	1 1/8" 8UN	1 1/8" 8UN	295	325	35		27x27	65	Φ38	10x8	ISO5211 F12
14	350	117	4	20	Φ514.4	1 1/8" 8UN	1 1/8" 8UN	325	355	90	48	36x36	75	Φ45	14x9	ISO5211 F14, F16
16	400	133	4	20	Φ571.5	1 1/4" 8UN	1 1/4" 8UN	365	392	90	48	36x36	90	Φ50	14x9	ISO5211 F14, F16
18	450	149	4	20	Φ628.8	1 1/4" 8UN	1 1/4" 8UN	410	418	110	48	36x36	90	Φ55	16x10	ISO5211 F14, F16
20	500	159	4	24	Φ685.8	1 1/4" 8UN	1 1/4" 8UN	450	475	125	50	46x46	100	Φ60	18x11	ISO5211 F25
24	600	181	4	24	Φ812.8	1 1/2" 8UN	1 1/2" 8UN	522	530	125			100	Φ75	20x12	ISO5211 F25

▶ Body type also offers double flanged type.

▶ Dimension are subject to change without notice.

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DIMENSION [ASME B16.5 Class600, Wafer & Lug]

[unt : mm,inch]

Size		L	n1	n2	BCD	T1	T2	H1	H2	H3	H4	FxF	E	C	KEY	TOP MOUNT
inch	mm															
3	80	54	2	8	Φ168.3	Φ22.2	3/4" UNC	125	145	60	17	14x14	42	Φ19	6x6	ISO5211 F10
4	100	64	2	8	Φ215.9	Φ25.4	7/8" UNC	145	180	70	17	14x14	42	Φ22	8x7	ISO5211 F10, F12
6	150	78	4	12	Φ292.1	1" UNC	1" UNC	205	215	80	22	22x22	65	Φ35	10x8	ISO5211 F12, F14
8	200	102	4	12	Φ349.2	1 1/8" 8UN	1 1/8" 8UN	240	260	85	25	19x19	75	Φ48	14x9	ISO5211 F12, F14
10	250	117	4	16	Φ431.8	1 1/4" 8UN	1 1/4" 8UN	280	290	90	29	22x22	90	Φ50	14x9	ISO5211 F14, F16
12	300	140	4	20	Φ489.0	1 1/4" 8UN	1 1/4" 8UN	323	355	95	48	36x36	100	Φ60	18x11	ISO5211 F14, F16
14	350	155	4	20	Φ527.0	1 3/8" 8UN	1 3/8" 8UN	370	380	95	50	46x46	100	Φ65	18x11	ISO5211 F14, F16
16	400	178	4	20	Φ603.2	1 1/2" 8UN	1 1/2" 8UN	405	435	100	50	46x46	110	Φ70	20x12	ISO5211 F14, F16
18	450	200	4	20	Φ654.0	1 5/8" 8UN	1 5/8" 8UN	450	470	110			110	Φ80	22x14	ISO5211 F25
20	500	216	4	24	Φ723.9	1 5/8" 8UN	1 5/8" 8UN	490	500	125			125	Φ95	25x14	ISO5211 F25 / F30
24	600	232	4	24	Φ838.2	1 7/8" 8UN	1 7/8" 8UN	585	550	130			125	Φ99	28x16	ISO5211 F25 / F30

▶ Body type also offers double flanged type.

▶ Dimension are subject to change without notice.

DIMENSION [JIS 10K, Wafer & Lug]

[unt : mm]

Size		L	n1	n2	BCD	T1	T2	H1	H2	H3	H4	FxF	E	C	KEY	TOP MOUNT
NPS	DN															
2	50A	43	2	4	Φ120	Φ19	M16	96	125	13		11x11				ISO5211 F07
2.5	65	46	2	4	Φ140	Φ19	M16	102	149	13		11x11				ISO5211 F07
3	80A	48	2	8	Φ150	Φ19	M16	117	160	13		11x11	40	Φ16	5x5	ISO5211 F07
4	100A	54	2	8	Φ175	Φ19	M16	128	178	18		14x14	42	Φ19	6x6	ISO5211 F07
5	125A	57	2	8	Φ210	Φ23	M20	146	193	18		14x14	42	Φ19	6x6	ISO5211 F07
6	150A	57	2	8	Φ240	Φ23	M20	176	220	22		17x17	42	Φ20	6x6	ISO5211 F10
8	200A	64	2	12	Φ290	Φ23	M20	215	260	32		22x22	52	Φ30	8x7	ISO5211 F12
10	250A	71	2	12	Φ355	Φ25	M22	269	290	35		22x22	65	Φ32	10x8	ISO5211 F12
12	300A	81	2	16	Φ400	Φ25	M22	295	325	35		27x27	65	Φ38	10x8	ISO5211 F12
14	350A	92	2	16	Φ445	Φ25	M22	325	355	90	48	36x36	75	Φ45	14x9	ISO5211 F14, F16
16	400A	102	2	16	Φ510	Φ27	M24	365	392	90	48	36x36	90	Φ50	14x9	ISO5211 F14, F16
18	450A	114	4	20	Φ565	M24	M24	410	418	110	48	36x36	90	Φ55	16x10	ISO5211 F14, F16
20	500A	127	4	20	Φ620	M24	M24	450	475	125	50	46x46	100	Φ60	18x11	ISO5211 F25
24	600A	154	4	24	Φ730	M30	M30	522	530	125			100	Φ75	20x12	ISO5211 F25

▶ Body type also offers double flanged type.

▶ Dimension are subject to change without notice.

Cv (Flow Coefficients)

711B Series

SIZE		Angle of opening									
DN	NPS	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
50A	2	0	2	6	16	26	39	55	70	85	95
65A	2.5	0	2	7	19	34	48	65	85	105	120
80A	3	0	3	12	27	48	70	105	145	180	195
100A	4	0	5	25	60	105	145	201	272	350	390
125A	5	0	15	44	83	149	242	366	504	650	695
150A	6	0	17	94	183	285	394	530	684	870	990
200A	8	0	39	181	325	476	690	980	1,389	1,790	2,100
250A	10	0	80	202	454	754	1,185	1,821	2,611	3,541	4,200
300A	12	0	141	508	776	1,203	1,825	2,671	4,127	5,800	6,300
350A	14	0	150	360	747	1,130	1,909	3,121	4,650	6,700	8,010
400A	16	0	250	432	803	1,422	2,289	3,614	5,251	7,850	9,600
450A	18	0	366	548	1,121	1,869	2,990	4,735	6,800	9,950	11,780
500A	20	0	405	680	1,390	2,315	4,010	6,175	8,795	12,780	15,350
600A	24	0	560	991	2,076	3,803	6,050	9,090	13,302	18,760	21,650



Torque table

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Class 150 711B Series Torque															
Size	RTFE Seat					Metal Seat					Fire safe(RTFE+316SS) Seat				
	Differential Pressure					Differential Pressure					Differential Pressure				
	50 psi (3.5 bar) [N.m]	100 psi (6.9 bar) [N.m]	150 psi (10.3 bar) [N.m]	200 psi (13.9 bar) [N.m]	290 psi (20 bar) [N.m]	50 psi (3.5 bar) [N.m]	100 psi (6.9 bar) [N.m]	150 psi (10.3 bar) [N.m]	200 psi (13.9 bar) [N.m]	290 psi (20 bar) [N.m]	50 psi (3.5 bar) [N.m]	100 psi (6.9 bar) [N.m]	150 psi (10.3 bar) [N.m]	200 psi (13.9 bar) [N.m]	290 psi (20 bar) [N.m]
2"	20	21	23	25	28	25	26	29	32	35	23	24	27	30	32
2-1/2"	22	23	26	29	31	28	29	33	36	39	26	27	31	34	36
3"	26	28	30	33	36	33	35	38	42	45	31	32	35	39	42
4"	38	41	44	51	55	48	52	55	64	70	45	49	51	59	65
5"	45	47	53	68	81	57	59	67	86	102	53	55	62	80	95
6"	60	62	86	104	127	75	78	109	131	160	70	73	101	122	149
8"	109	121	151	177	242	138	152	190	223	305	128	142	177	208	284
10"	144	167	221	248	351	181	210	278	313	442	169	196	259	292	412
12"	184	247	342	411	584	232	312	431	518	737	216	290	401	482	686
14"	282	403	506	613	863	355	508	638	773	1,088	331	473	594	720	1,013
16"	351	506	638	851	1,213	442	638	805	1,073	1,530	412	594	749	999	1,424
18"	461	659	825	1,103	1,580	581	831	1,040	1,391	1,992	541	774	968	1,295	1,855
20"	674	963	1,203	1,611	2,312	850	1,214	1,517	2,031	2,915	791	1,130	1,412	1,891	2,714
24"	1,152	1,441	1,802	2,414	3,464	1,453	1,817	2,272	3,044	4,367	1,353	1,692	2,115	2,834	4,066

Class 300 711B Series Torque															
Size	RTFE Seat					Metal Seat					Fire safe(RTFE+316SS) Seat				
	Differential Pressure					Differential Pressure					Differential Pressure				
	300 psi (20.7 bar) [N.m]	400 psi (27.6 bar) [N.m]	500 psi (34.5 bar) [N.m]	600 psi (41.4 bar) [N.m]	725 psi (50 bar) [N.m]	300 psi (20.7 bar) [N.m]	400 psi (27.6 bar) [N.m]	500 psi (34.5 bar) [N.m]	600 psi (41.4 bar) [N.m]	725 psi (50 bar) [N.m]	300 psi (20.7 bar) [N.m]	400 psi (27.6 bar) [N.m]	500 psi (34.5 bar) [N.m]	600 psi (41.4 bar) [N.m]	725 psi (50 bar) [N.m]
2"	32	34	36	39	44	51	54	58	62	70	46	49	52	57	64
2-1/2"	36	40	45	50	52	58	64	72	80	83	52	58	65	73	75
3"	44	48	58	67	80	70	77	93	107	128	64	70	84	97	116
4"	68	75	91	107	127	109	120	146	171	203	99	109	132	155	184
5"	86	95	117	138	165	138	152	187	221	264	125	138	170	200	239
6"	124	149	184	219	262	198	238	294	350	419	180	216	267	318	380
8"	226	298	370	442	532	362	477	592	707	851	328	432	537	641	771
10"	377	499	622	744	895	603	798	995	1,190	1,432	547	724	902	1,079	1,298
12"	579	767	955	1,144	1,378	926	1,227	1,528	1,830	2,205	840	1,112	1,385	1,659	1,998
14"	1,005	1,334	1,662	1,991	2,400	1,608	2,134	2,659	3,186	3,840	1,457	1,934	2,410	2,887	3,480
16"	1,266	1,682	2,097	2,513	3,031	2,026	2,691	3,355	4,021	4,850	1,836	2,439	3,041	3,644	4,395
18"	1,615	2,145	2,675	3,205	3,866	2,584	3,432	4,280	5,128	6,186	2,342	3,110	3,879	4,647	5,606
20"	2,252	2,995	3,737	4,480	5,406	3,603	4,792	5,979	7,168	8,650	3,265	4,343	5,419	6,496	7,839
24"	3,568	4,747	5,927	7,106	8,577	5,709	7,595	9,483	11,370	13,723	5,174	6,883	8,594	10,304	12,437

Class 600 711B Series Torque															
Size	RTFE Seat					Metal Seat					Fire safe(TFM+316SS) Seat				
	Differential Pressure					Differential Pressure					Differential Pressure				
	600 psi (41.4 bar) [N.m]	750 psi (51.7 bar) [N.m]	900 psi (62 bar) [N.m]	1100 psi (75.8 bar) [N.m]	1450 psi (102 bar) [N.m]	600 psi (41.4 bar) [N.m]	750 psi (51.7 bar) [N.m]	900 psi (62 bar) [N.m]	1100 psi (75.8 bar) [N.m]	1450 psi (102 bar) [N.m]	600 psi (41.4 bar) [N.m]	750 psi (51.7 bar) [N.m]	900 psi (62 bar) [N.m]	1100 psi (75.8 bar) [N.m]	1450 psi (102 bar) [N.m]
3"	82	95	113	134	173	148	171	203	241	311	119	138	164	194	251
4"	114	136	159	190	283	205	245	286	342	509	165	197	231	276	410
6"	253	311	369	447	594	455	560	664	805	1,069	367	451	535	648	861
8"	482	597	712	866	1,157	868	1,075	1,282	1,559	2,083	699	866	1,032	1,256	1,678
10"	779	968	1,156	1,409	1,890	1,402	1,742	2,081	2,536	3,402	1,130	1,404	1,676	2,043	2,741
12"	1,321	1,644	1,968	2,401	3,225	2,378	2,959	3,542	4,322	5,805	1,915	2,384	2,854	3,481	4,676
14"	2,135	2,662	3,188	3,893	5,232	3,843	4,792	5,738	7,007	9,418	3,096	3,860	4,623	5,645	7,586
16"	2,813	3,507	4,202	5,133	6,900	5,063	6,313	7,564	9,239	12,420	4,079	5,085	6,093	7,443	10,005
18"	3,527	4,399	5,271	6,438	8,655	6,349	7,918	9,488	11,588	15,579	5,114	6,379	7,643	9,335	12,550
20"	5,298	6,610	7,922	9,680	13,018	9,536	11,898	14,260	17,424	23,432	7,682	9,585	11,487	14,036	18,876
24"	7,800	9,734	11,667	14,257	19,175	14,040	17,521	21,001	25,663	34,515	11,310	14,114	16,917	20,673	27,804

Notes: 1. Torque values shown do not safety factor.

2. Torque valuses are based on water service, If the media is dry, the torque should be 30% geater than the table.

KOSO 日本工装株式会社
NIHON KOSO CO., LTD.

本　　社　〒103-0027　東京都中央区日本橋1−16−7（工装日本橋ビル）
TEL. 03（5202）4300（代表）　FAX. 03（5202）4301

Head Office　1-16-7, Nihombashi, Chuo-ku, Tokyo, 103-0027, Japan
TEL. 81-3-5202-4300　FAX. 81-3-5202-4301

東日本営業部　〒103-0027　東京都中央区日本橋1−16−7（工装日本橋ビル）
TEL. 03（5202）4300（代表）　FAX. 03（5202）4301

西日本営業部　〒564-0062　大阪府吹田市垂水町3−31−29
TEL. 06（6378）7117（代表）　FAX. 06（6378）7050

CSC北海道　〒053-0047　北海道苫小牧市泉町1−1−6
TEL. 0144（31）4400（代表）　FAX. 0144（31）4401

CSC仙台　〒989-2322　宮城県亘理郡亘理町逢隈蕨字卯49−1
TEL. 0223（33）1891（代表）　FAX. 0223（33）1892

CSC福島　〒962-0312　福島県須賀川市大久保字川虫内129
TEL. 0248（65）3128（代表）　FAX. 0248（65）3224

CSC新潟　〒950-0813　新潟県新潟市東区大形本町5−12−36
TEL. 025（275）8461（代表）　FAX. 025（275）8462

CSC鹿島　〒314-0115　茨城県神栖市知手3612−1
TEL. 0299（96）6891（代表）　FAX. 0299（96）6892

CSC関東　〒290-0057　千葉県市原市五井金杉1−42
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TEL. 048（421）5111（代表）　FAX. 048（421）5115

CSC富士　〒416-0909　静岡県富士市松岡14−1
TEL. 0545（66）3191（代表）　FAX. 0545（66）3192

CSC名古屋　〒486-0935　愛知県春日井市森山田町62
TEL. 0568（34）1421（代表）　FAX. 0568（34）1431

CSC大阪　〒564-0062　大阪府吹田市垂水町3−31−29
TEL. 06（6378）7117（代表）　FAX. 06（6378）7050

CSC広島　〒731-5127　広島県広島市佐伯区五日市1−8−25
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CSC九州　〒802-0802　福岡県北九州市小倉南区城野4−5−55
TEL. 093（922）3431（代表）　FAX. 093（951）1435

CSC大分　〒870-0901　大分県大分市西新地1−8−17
TEL. 097（551）4816（代表）　FAX. 097（551）4827

WORLD-WIDE NETWORK (Sales, Manufacturing, Services)

Nihon Koso Co., Ltd., Tokyo Japan	*Tel.* (81)3-5202-4300	*Fax.* (81)3-5202-4301
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Wuxi Koso Valve Casting Co., Ltd., China	*Tel.* (86)510-85117433	*Fax.* (86)510-85117433
Hangzhou Hangyang KOSO P & V Co., Ltd.	*Tel.* (86)571-85869508	*Fax.* (86)571-85343203
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Korea Koso Co., Ltd., Seoul, Korea	*Tel.* (85)2-539-9011	*Fax.* (82)2-566-5119
Korea Koso Engineering Co., Ltd., Seoul, Korea	*Tel.* (85)2-539-9018	*Fax.* (82)2-566-5119
Koso Controls Asia Pte. Ltd., Singapore	*Tel.* (65)67472722	*Fax.* (65)67467677
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Koso Fluid Controls Private Ltd., India	*Tel.* (91)491-2566047	*Fax.* (91)491-2567142

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