

MULTI-WAY BALL VALVES



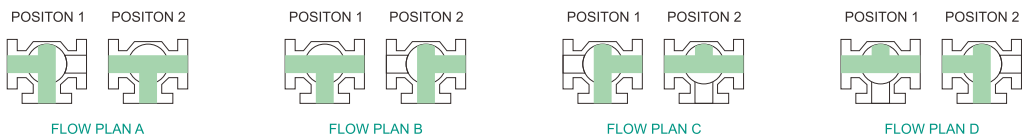
- Blow-out Proof and Anti-static Stem
- Pre-load 2 Belleville Washers to Self-adjust Packing
- Double Stem Sealing Design Has Been Approved for TA-Luft
- Casting Approved by TÜV AD-2000 Merkblatt W0



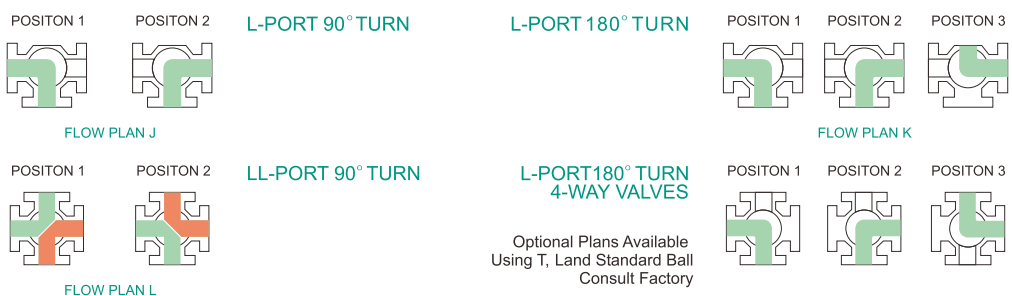
SERIES KV-L50, KV-L5N

FLOW PATTERNS FOR 3 & 4-WAY VALVE

T-PORT 90° TURN



T-PORT 180° TURN



EN PN 10-40 3 & 4-Way Ball Valves, Flanged Ends, Full Port

KV-L5K, KV-L5N (Direct Mount Type)

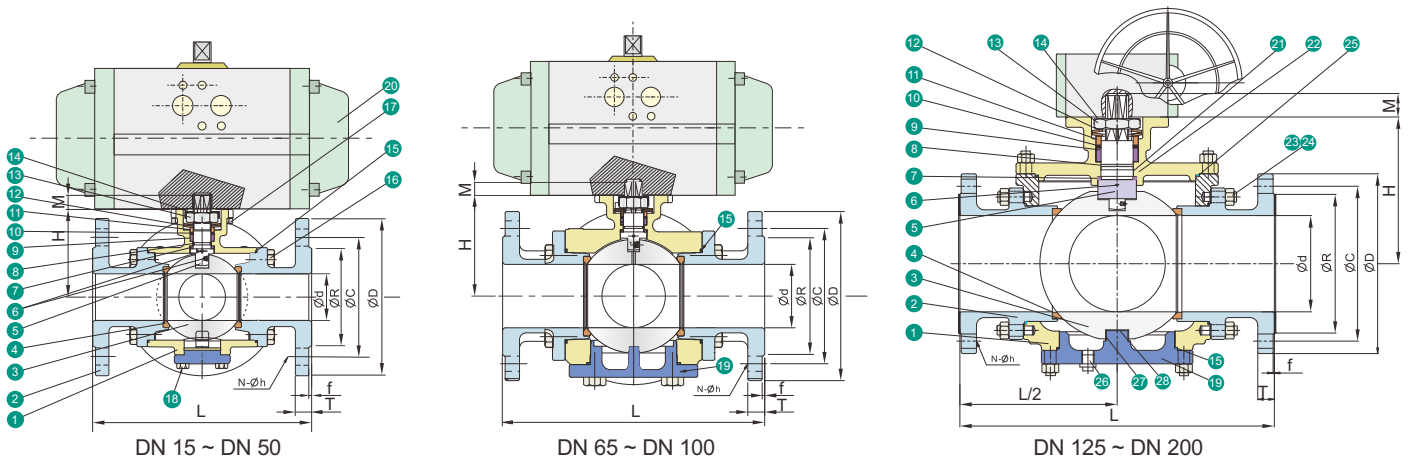
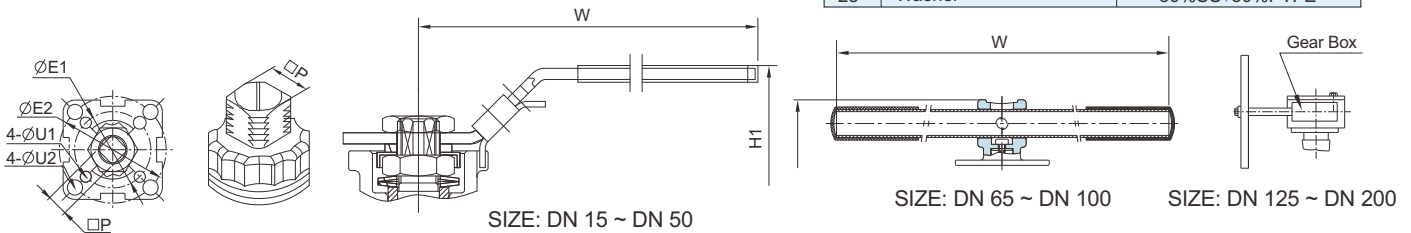
FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- **TA-LUFT** Design Approved
- Top Entry For DN150~DN200
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- KV-L5K/L, KV-L5N/L: L-Port
KV-L5K/T, KV-L5N/T: T-Port
KV-L5K/X, KV-L5N/X: LL-Port
- Options: 1. Actuator 2. Limit Switch 3. Positioner

APPLICABLE STANDARDS:

- Design: DIN 3357/1,2, EN12516-1
- Flanged Ends : EN1092-1 PN10-PN40
- Wall Thickness: ASME16.34
- Inspection & Testing : DIN 3230/3, EN 12266-1

NO.	PART NAME	MATERIALS		
		1.4408	1.4308	1.0619
1	Body	1.4408	1.4308	1.0619
2	Cap	1.4408	1.4308	1.0619
3	Ball	1.4408	1.4308	
4	Ball Seat	TFM1600 / PTFE		
5	Stem	316	304	
6	Anti-Static Device	316	304	
7	Thrust Washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE		
10	Bushing	50%SS+50%PTFE / 304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-cap	304		
15	Body Gasket (1)	PTFE / GRAFOIL		
16	Bolt	A2-70		8.8
17	End Cap	1.4408	1.4308	1.0619
18	Hex Bolting	A2-70 8.8		
19	Bottom Cap	1.4408	1.4308	1.0619
20	Actuator	Pneumatic KP / Electric KQ		
21	Stem Sleeve	50%SS+50%PTFE		
22	Cap(1)	1.4408	1.4308	1.0619
23	Nut	A2-70		8
24	Bolt	A2-70		8.8
25	Body Gasket (2)	PTFE / GRAFOIL		
26	Plug	1.4408	1.4308	
27	Bushing	50%SS+50%PTFE		
28	Washer	50%SS+50%PTFE		



EN PN 10-40 DIMENSION TABLE

Unit: mm

SIZE	PN	d	R	C	D	f	T	L	H1	W	H	M	P	N	h	U1	U2	E1	E2	ISO 5211		
DN15	1/2"	10~40	15	45	65	95	2	16	150	83.3	147	52.5	9	9	4	14	6	36	42	F03-F04		
DN20	3/4"	10~40	20	58	75	105	2	18	165	87.0	147	57.0	9	9	4	14	6	36	50	F03-F05		
DN25	1"	10~40	25	68	85	115	2	18	181	99.0	177	68.0	11	11	4	14	6	42	50	F04-F05		
DN32	1-1/4"	10~40	32	78	100	140	2	18	190	103.0	177	72.0	11	11	4	18	6	42	70	F04-F07		
DN40	1-1/2"	10~40	38	88	110	150	3	18	212	119.0	197	85.0	14	14	4	18	7	50	70	F05-F07		
DN50	2"	10~40	49	102	125	165	3	20	230	126.0	197	92.0	14	14	4	18	7	50	70	F05-F07		
DN65	2-1/2"	10/16	60	122	145	185	3	18	290	172.0	400	107.0	17	17	4	18	9	11	70	102	F07-F10	
		22																				
DN80	3"	10/16	75	138	160	200	3	20	310	185.0	400	119.0	17	17	8	18	9	11	70	102	F07-F10	
		24																				
DN100	4"	10/16	99	158	180	220	3	20	350	221.0	400	150.0	22	22	8	18	N/A	11	N/A	102	F10	
		162		190	235	24		386														
DN125	5"	10/16	125	188	210	250	3	22	460	—	—	215	36	36	8	18	18	22	140	165	F14-F16	
		220			270	26		480														
DN150	6"	10/16	150	212	240	285	3	22	490	—	—	229.0	36	36	8	22	18	22	140	165	F14-F16	
		218		250	300	28		520														
DN200	8"	10	200	268	295	340	3	24	620	—	—	252.0	36	36	8	22	18	22	140	165	F14-F16	
		16																				
		25						30														660
		285						310														360

KV-L5K - PN16

KV-L5N - PN40

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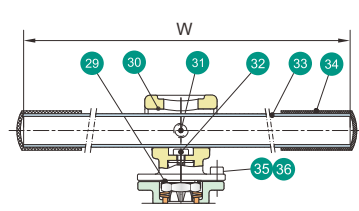
E-mail: atis@armature.si
WWW: www.armature.si

EN PN 10-40 Top Entry, Reduced Port 3 & 4-Way Ball Valves, Flanged Ends

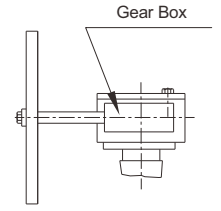
KV-L5J(I), KV-L5K(I), KV-L5M(I), KV-L5N(I)

FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Quarter Turn & Half Turn Operation Are Available for Worm Gear
- Top Entry
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- Multi-Port Configuration
KV-L5J(I)/L, KV-L5K(I)/L, KV-L5M(I)/L, KV-5N(I)/L : L-Port
KV-L5J(I)/T, KV-L5K(I)/T, KV-L5M(I)/T, KV-5N(I)/T : T-Port
KV-L5J(I)/X, KV-L5K(I)/X, KV-L5M(I)/X, KV-5N(I)/X : LL-Port



SIZE: DN 100



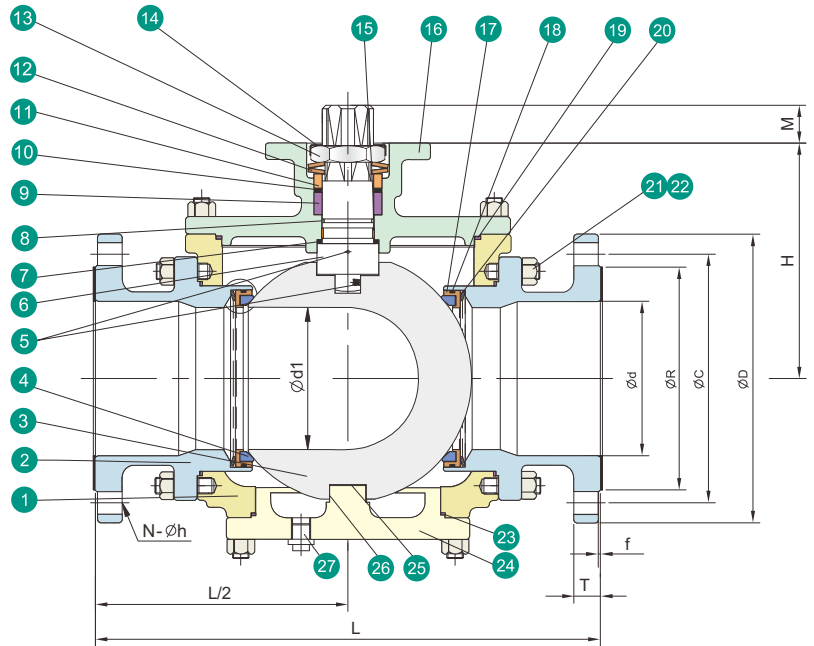
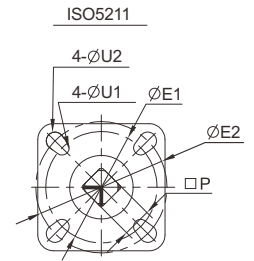
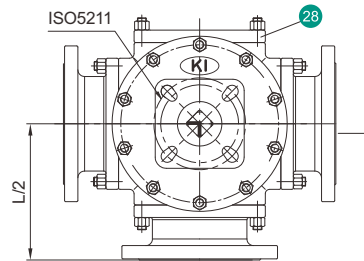
SIZE: DN 125 ~ DN 200

APPLICABLE STANDARDS:

- Design : DIN 3357/1&2, EN12516-1
- Flanged Ends : EN1092-1 PN10-PN40
- Wall Thickness : EN12516-1
- Inspection & Testing : EN 12266-1

MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
1	Body	1.4408	1.4308	1.0619
2	End Cap (1)	1.4408	1.4308	1.0619
3	Ball	1.4408	1.4308	
4	Ball Seat	TFM1600 / TFM4215		
5	Anti-static Device	316	304	
6	Stem	316	304	
7	Thrust Washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE / GRAFOIL		
10	Bushing	50%SS+50%PEFE / 304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-Cap	304		
15	Stem Sleeve	50%SS+50%PTFE		
16	Cap (1)	1.4408	1.4308	1.0619
17	Seat Retainer	316	304	
18	O-Ring	FKM		
19	Body Gasket (1)	PTFE / GRAFOIL		
20	Spring	17-7 PH		
21	Nut	A2-70	8	
22	Bolt	A2-70	8.8	
23	Body Gasket (2)	PTFE / GRAFOIL		
24	Cap (2)	1.4408	1.4308	1.0619
25	Washer	50%SS+50%PTFE		
26	Bushing	50%SS+50%PTFE		
27	Plug	1.4408	1.4308	
28	End Cap (2)	1.4408	1.4308	1.0619
29	Handle Gland	DN100	304	
30	Handle Adapter	DN100	CF8	
31	Set Screwed	DN100	A2-70	
32	Bolt	DN100	A2-70	
33	Handle	DN100	A53+ZnPlated	
34	Handle Sleeve	DN100	VINYL PLASTIC	
35	Stop Bolt	DN100	A2-70	
36	Stop Nut	DN100	A2-70	



EN PN 10-40 DIMENSION TABLE

Unit: mm

SIZE	PN	d	d1	L	R	D	C	f	T	N	h	H	W	P	M	E1	E2	U1	U2	ISO 5211
DN100	PN10/16	100	91	385	158	220	180	3	20	8	18	195.0	600	27	27	125	—	14	—	F12
	PN25/40			398	162	235	190		24		22									
DN125	PN10/16	125	112	460	188	250	210	3	22	8	18	215.0	—	36	36	140	165	18	22	F14-F16
	PN25/40			480		270	220		26		26									
DN150	PN10/16	150	138	490	212	285	240	3	22	8	22	228.5	—	36	36	140	165	18	22	F14-F16
	PN25/40			520	218	300	250		28		26									
DN200	PN10	200	184	620	268	340	295	3	24	8	22	281.5	—	36	36	140	165	18	22	F14-F16
	PN16			30	26															
	PN25			30	26															
	PN40			34	30															

KV-L5J(I) – PN10 KV-L5K(I) – PN16 KV-L5M(I) – PN25 KV-L5N(I) – PN40

ASME CLASS 150/300 3 & 4-Way Ball Valves, Flanged Ends, Full Port

KV-L5U, KV-L5S (Direct Mount Type)

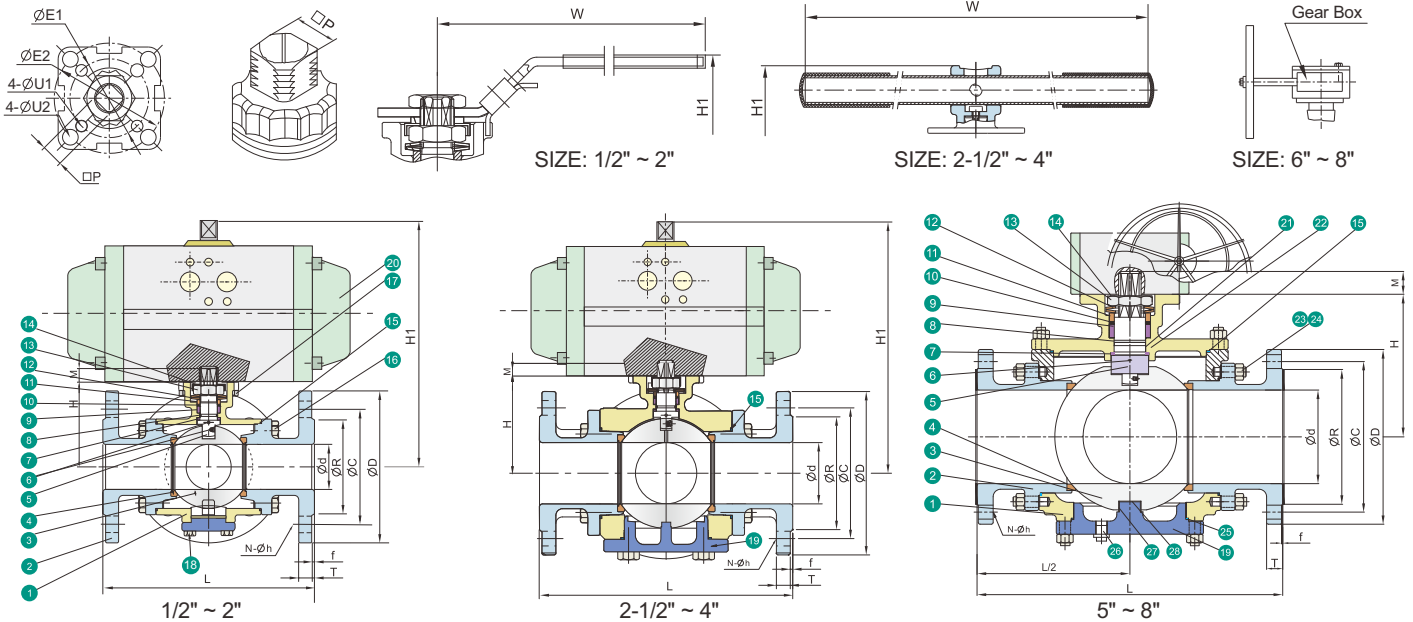
FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- **TA-LUFT** Design Approved
- Top Entry For 6"~8"
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- KV-L5U/L, KV-L5S/L: L-Port
KV-L5U/T, KV-L5S/T: T-Port
KV-L5U/X, KV-L5S/X: LL-Port
- Options: 1. Actuator 2. Limit Switch 3. Positioner

APPLICABLE STANDARDS:

- Design: ASME B16.34
- Flanged Ends: ASME B16.5
- Wall Thickness: ASME B16.34
- Inspection & Testing: API 598

NO.	PART NAME	MATERIALS		
		CF8M	CF8	WCB
1	Body	CF8M	CF8	WCB
2	Cap	CF8M	CF8	WCB
3	Ball	CF8M	CF8	
4	Ball Seat	TFM1600 / PTFE		
5	Stem	316	304	
6	Anti-Static Device	316	304	
7	Thrust Washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE / GRAFOIL		
10	Bushing	50%SS+50%PTFE / 304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-cap	304		
15	Body Gasket (1)	PTFE / GRAFOIL		
16	Bolt	A193-B8	A193-B7	
17	End Cap	CF8M	CF8	WCB
18	Hex Bolting	A193-B8 A193-B7		
19	Bottom Cap	CF8M	CF8	WCB
20	Actuator	Pneumatic KP / Electric KQ		
21	Stem Sleeve	50%SS+50%PTFE		
22	Cap(1)	CF8M	CFB	WCB
23	Nut	A2-70		8
24	Bolt	A2-70		8.8
25	Body Gasket (2)	PTFE / GRAFOIL		
26	Plug	CF8M	CF8	
27	Bushing	50%SS+50%PTFE		
28	Washer	50%SS+50%PTFE		



ASME CLASS 150 DIMENSION TABLE

KV-L5U

Unit: mm

SIZE	d	L	R	D	C	T	f	N	h	H	H1	W	M	P	U1	U2	E1	E2	ISO 5211
1/2"	15	150	35.0	90	60.3	8.0	2	4	16.0	53	83.3	147	9	9	6	6	36	42	F03-F04
3/4"	20	165	43.0	100	69.9	8.9	2	4	16.0	57	87.0	147	9	9	6	7	36	50	F03-F05
1"	25	181	51.0	110	79.4	9.6	2	4	16.0	68	99.0	177	11	11	6	7	42	50	F04-F05
1-1/4"	32	190	63.5	115	88.9	11.2	2	4	16.0	72	103.0	177	11	11	6	9	42	70	F04-F07
1-1/2"	38	212	73.2	125	98.4	12.7	2	4	16.0	85	119.0	197	14	14	7	9	50	70	F05-F07
2"	49	230	92.0	150	120.7	14.3	2	4	19.0	92	126.0	197	14	14	7	9	50	70	F05-F07
2-1/2"	60	290	104.7	180	139.7	15.9	2	4	19.0	107	172.0	400	17	17	9	11	70	102	F07-F10
3"	75	310	127.0	190	152.4	17.5	2	4	19.0	119	185.0	400	17	17	9	11	70	102	F07-F10
4"	99	367	157.0	230	190.5	22.3	2	8	19.0	150	221.0	400	22	22	N/A	11	N/A	102	F10
5"	125	460	186.0	255	215.9	22.3	2	8	22.3	215	—	—	36	36	18	22	140	165	F14-F16
6"	150	490	216.0	280	241.3	23.9	2	8	22.3	229	—	—	36	36	18	22	140	165	F14-F16
8"	200	620	270.0	345	298.5	27.0	2	8	22.3	282	—	—	36	36	18	22	140	165	F14-F16

ASME CLASS 300 DIMENSION TABLE

KV-L5S

Unit: mm

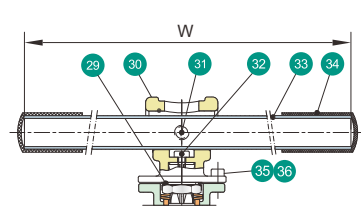
SIZE	d	L	R	D	C	T	f	N	h	H	H1	W	M	P	U1	U2	E1	E2	ISO 5211
1/2"	15	150	35.0	95	66.7	12.7	2	4	16.0	53	83.3	147	9	9	6	6	36	42	F03-F04
3/4"	20	165	43.0	115	82.6	14.3	2	4	19.0	57	87.0	147	9	9	6	7	36	50	F03-F05
1"	25	181	51.0	125	88.9	15.9	2	4	19.0	68	99.0	177	11	11	6	7	42	50	F04-F05
1-1/4"	32	207	63.5	135	98.4	17.5	2	4	19.0	72	103.0	177	11	11	6	9	42	70	F04-F07
1-1/2"	38	234	73.2	155	114.3	19.1	2	4	22.3	85	119.0	197	14	14	7	9	50	70	F05-F07
2"	49	258	92.0	165	127.0	20.7	2	8	19.0	92	126.0	197	14	14	7	9	50	70	F05-F07
2-1/2"	60	316	104.7	190	149.4	23.9	2	8	22.3	107	172.0	400	17	17	9	11	70	102	F07-F10
3"	75	360	127.0	210	168.3	27.0	2	8	22.3	119	185.0	400	17	17	9	11	70	102	F07-F10
4"	99	398	157.2	255	200.0	30.2	2	8	22.3	150	221.0	400	22	22	N/A	11	N/A	102	F10
5"	125	480	186.0	280	235.0	33.4	2	8	22.3	215	—	—	36	36	18	22	140	165	F14-F16
6"	150	520	216.0	320	270.0	35.0	2	12	22.3	229	—	—	36	36	18	22	140	165	F14-F16
8"	200	660	270.0	380	330.0	39.7	2	12	25.4	282	—	—	36	36	18	22	140	165	F14-F16

ASME CLASS 150/300 Top Entry, Reduced Port 3 & 4-Way Ball Valves, Flanged Ends

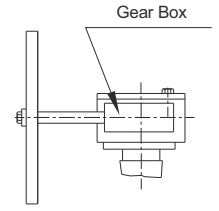
KV-L5U(I), KV-L5S(I)

FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Quarter Turn & Half Turn Operation Are Available for Worm Gear
- Top Entry
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- Multi-Port Configuration
KV-L5U(I)/L, KV-L5S(I)/L:L-Port
KV-L5U(I)/T, KV-L5S(I)/T:T-Port
KV-L5U(I)/X, KV-L5S(I)/X:LL-Port



SIZE: 4"



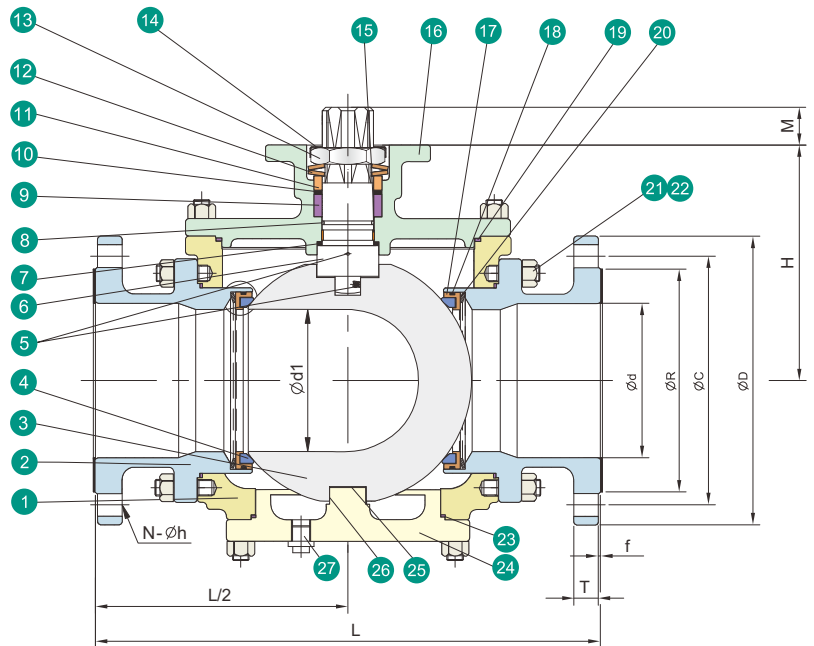
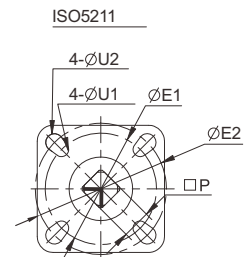
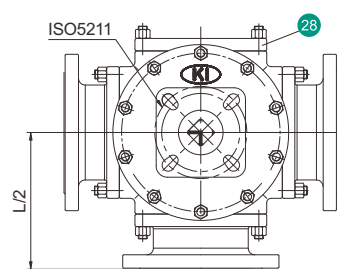
SIZE: 6" ~ 8"

APPLICABLE STANDARDS:

- Design: ASME B16.34
- Flanged Ends: ASME B16.5
- Wall Thickness: ASME B16.34
- Inspection & Testing: API 598

MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
1	Body	CF8M	CF8	WCB
2	End Cap (1)	CF8M	CF8	WCB
3	Ball	CF8M	CF8	
4	Ball Seat	TFM1600/TFM4215		
5	Anti-static Device	316	304	
6	Stem	316	304	
7	Thrust washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE/GRAFOIL		
10	Bushing	50%SS+50%PTFE/304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-Cap	304		
15	Stem Sleeve	50%SS+50%PTFE		
16	Cap(1)	CF8M	CF8	WCB
17	Seat Retainer	316	304	
18	O-Ring	FKM		
19	Body Gasket (1)	PTFE/GRAFOIL		
20	Spring	17-4 PH		
21	Nut	A194-8	A194-2H	
22	Bolt	A193-B8	A193-B7	
23	Body Gasket (2)	PTFE/GRAFOIL		
24	Cap(2)	CF8M	CF8	WCB
25	Washer	50%SS+50%PTFE		
26	Bushing	50%SS+50%PTFE		
27	Plug	CF8M	CF8	
28	End Cap(2)	CF8M	CF8	WCB
29	Handle Gland 4"	304		
30	Handle Adapter 4"	CF8		
31	Set Screwed 4"	A2-70		
32	Bolt 4"	A2-70		
33	Handle 4"	A53+ZnPlated		
34	Handle Sleeve 4"	VINYL PLASTIC		
35	Stop Bolt 4"	A2-70		
36	Stop Nut 4"	A2-70		



ASME CLASS 150 DIMENSION TABLE

Unit: mm

SIZE	d	d1	L	R	D	C	f	T	N	h	H	W	P	M	E1	E2	U1	U2	ISO 5211
4"	100	91	385	157.2	230	190.5	2	22.3	8	19.0	195.0	600	27	27	125	—	14	—	F12
5"	125	112	460	186.0	255	215.9	2	22.3	8	22.3	215.0	—	36	36	140	165	18	22	F14-F16
6"	150	138	490	216.0	280	241.3	2	23.9	8	22.3	228.5	—	36	36	140	165	18	22	F14-F16
8"	200	184	620	270.0	345	298.5	2	27.0	8	22.3	281.5	—	36	36	140	165	18	22	F14-F16

ASME CLASS 300 DIMENSION TABLE

Unit: mm

SIZE	d	d1	L	R	D	C	f	T	N	h	H	W	P	M	E1	E2	U1	U2	ISO 5211
4"	100	91	388	157.2	255	200.0	2	30.2	8	22.3	195.0	600	27	27	125	—	14	—	F12
5"	125	112	480	186.0	280	235.0	2	33.4	8	22.3	215.0	—	36	36	140	165	18	22	F14-F16
6"	150	138	520	216.0	320	269.9	2	35.0	12	22.3	228.5	—	36	36	140	165	18	22	F14-F16
8"	200	184	660	270.0	380	330.2	2	39.7	12	25.4	281.5	—	36	36	140	165	18	22	F14-F16

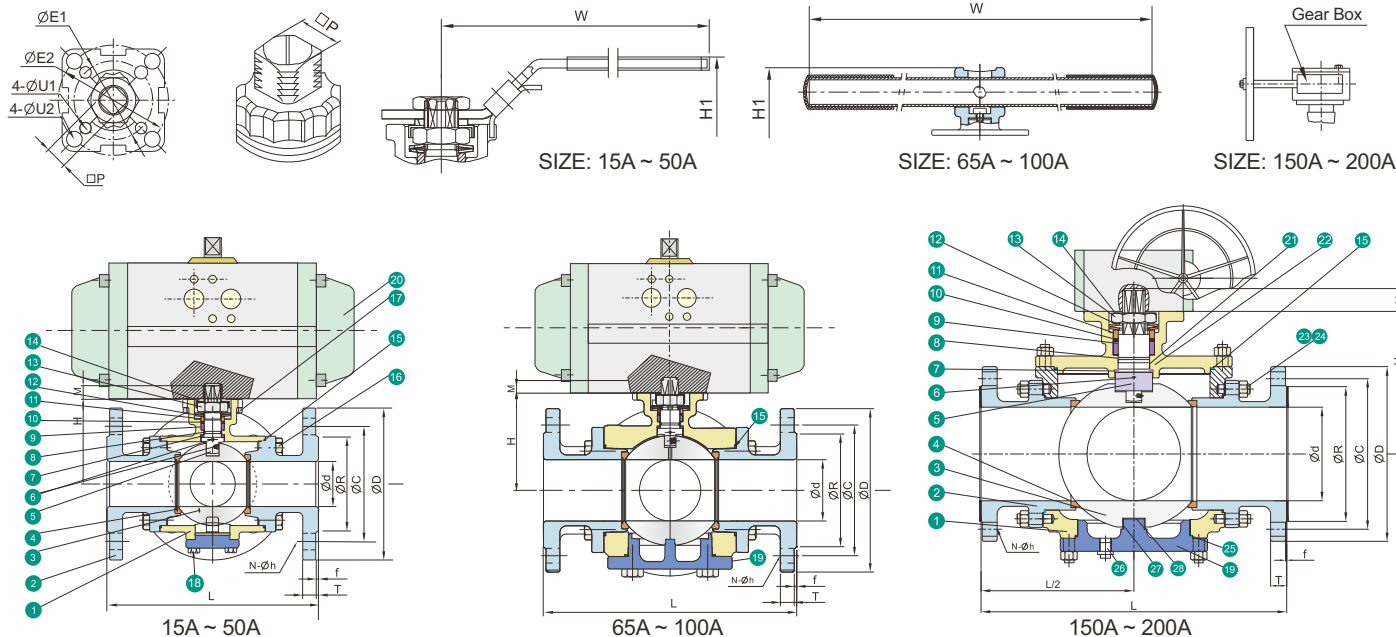
FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- **TA-LUFT** Design Approved
- Top Entry For 150A~200A
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- KV-L5A/L : L-Port KV-L5A/T : T-Port
- Options:1. Actuator 2. Limit Switch 3. Positioner

APPLICABLE STANDARDS:

- Design: ASME B16.34
- Flanged Ends : JIS B2220
- Wall Thickness: ASME B16.34
- Inspection & Testing: JIS B2003, API 598

NO.	PART NAME	MATERIALS		
		SCS14A	SCS13A	SCPH2
1	Body	SCS14A	SCS13A	SCPH2
2	Cap	SCS14A	SCS13A	SCPH2
3	Ball	SCS14A	SCS13A	
4	Ball Seat	TFM1600 / PTFE		
5	Stem	316	304	
6	Anti-Static Device	316	304	
7	Thrust Washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE / GRAFOIL		
10	Bushing	50%SS+50%PTFE / 304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-cap	304		
15	Body Gasket (1)	PTFE / GRAFOIL		
16	Bolt	A2-70	8.8	
17	End Cap	SCS14A	SCS13A	SCPH2
18	Hex Bolting	A2-70	8.8	
19	Bottom Cap	SCS14A	SCS13A	SCPH2
20	Actuator	Pneumatic KP / Electric KQ		
21	Stem Sleeve	50%SS+50%PTFE		
22	Cap(1)	SCS14A	SCS13A	SCPH2
23	Nut	A2-70	8	
24	Bolt	A2-70	8.8	
25	Body Gasket (2)	PTFE / GRAFOIL		
26	Plug	SCS14A	SCS13A	
27	Bushing	50%SS+50%PTFE		
28	Washer	50%SS+50%PTFE		



■ JIS 10K DIMENSION TABLE

SIZE	d	L	R	D	C	T	f	N	h	H	H1	W	M	P	U1	U2	E1	E2	ISO 5211
15A	15	150	51	95	70	12	1	4	16	53	83.3	147	9.0	9	6	6	36	42	F03-F04
20A	20	165	56	100	75	14	1	4	16	57	87.0	147	9.0	9	6	7	36	50	F03-F05
25A	25	181	67	125	90	14	1	4	16	68	99.0	177	11.0	11	6	7	42	50	F04-F05
32A	32	190	76	135	100	16	2	4	16	72	103.0	177	11.0	11	6	9	42	70	F04-F07
40A	38	212	81	140	105	16	2	4	16	85	119.0	197	14.0	14	7	9	50	70	F05-F07
50A	49	230	96	155	120	16	2	4	19	92	126.0	197	14.0	14	7	9	50	70	F05-F07
65A	60	290	116	175	140	18	2	4	19	107	175.0	400	17.0	17	9	11	70	102	F07-F10
80A	75	310	126	185	150	18	2	8	19	119	187.0	400	17.8	17	9	11	70	102	F07-F10
100A	99	352	151	210	175	18	2	8	19	150	217.0	400	22.0	22	N/A	11	N/A	102	F10
125A	125	460	182	250	210	20	2	8	23	215	—	—	36.0	36	18	22	140	165	F14-F16
150A	150	490	212	280	240	22	2	8	23	229	—	—	36.0	36	18	22	140	165	F14-F16
200A	200	620	262	330	290	22	2	12	23	282	—	—	36.0	36	18	22	140	165	F14-F16

Unit: mm

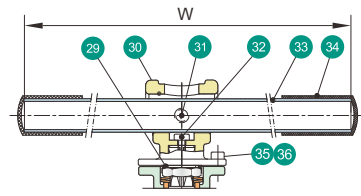
■ JIS 20K DIMENSION TABLE

SIZE	d	L	R	D	C	T	f	N	h	H	H1	W	M	P	U1	U2	E1	E2	ISO 5211
15A	15	150	51	95	70	14	1	4	15	53	83.3	147	9.0	9	6	6	36	42	F03-F04
20A	20	165	56	100	75	16	1	4	15	57	87.0	147	9.0	9	6	7	36	50	F03-F05
25A	25	181	67	125	90	16	1	4	19	68	99.0	177	11.0	11	6	7	42	50	F04-F05
32A	32	190	76	135	100	18	2	4	19	72	103.0	177	11.0	11	6	9	42	70	F04-F07
40A	38	212	81	140	105	18	2	4	19	85	119.0	197	14.0	14	7	9	50	70	F05-F07
50A	49	230	96	155	120	18	2	8	19	92	126.0	197	14.0	14	7	9	50	70	F05-F07
65A	60	290	116	175	140	20	2	8	19	107	175.0	400	17.0	17	9	11	70	102	F07-F10
80A	75	340	132	200	160	22	2	8	23	119	187.0	400	17.8	17	9	11	70	102	F07-F10
100A	99	386	160	225	185	24	2	8	23	150	217.0	400	22.0	22	N/A	11	N/A	102	F10
125A	125	480	195	270	225	26	2	8	25	215	—	—	36.0	36	18	22	140	165	F14-F16
150A	150	520	230	305	260	28	2	12	25	229	—	—	36.0	36	18	22	140	165	F14-F16
200A	200	660	275	350	305	30	2	12	25	282	—	—	36.0	36	18	22	140	165	F14-F16

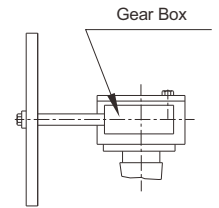
Unit: mm

FEATURES:

- Built-in ISO 5211 Direct Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Quarter Turn & Half Turn Operation Are Available for Worm Gear
- Top Entry
- Positive Position Location At 90° Increments
- Locking in Every 90° Increments
- Multi-Port Configuration
KV-L5A(I)/L, KV-L5C(I)/L: L-Port
KV-L5A(I)/T, KV-L5C(I)/T: T-Port
KV-L5A(I)/X, KV-L5C(I)/X: LL-Port



SIZE: 100A



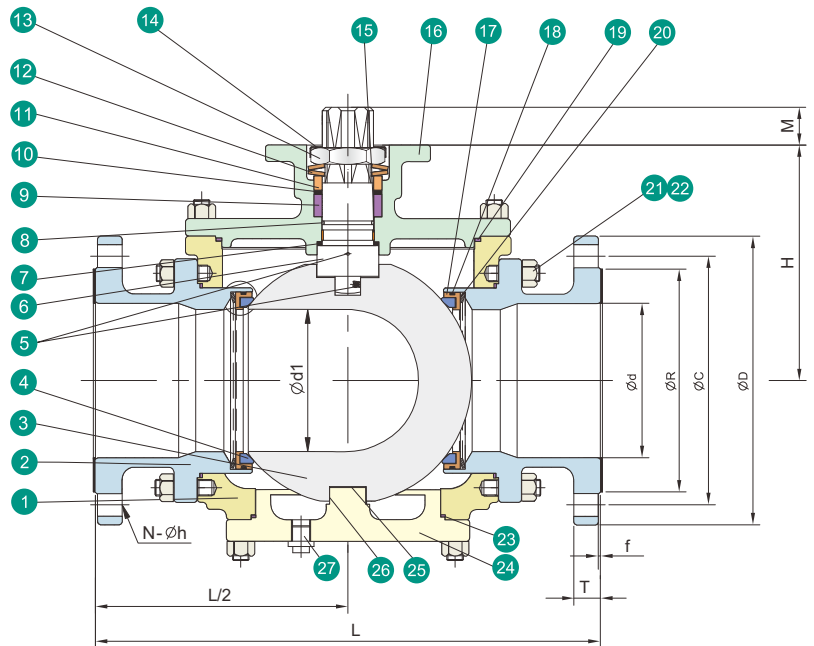
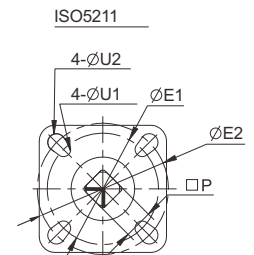
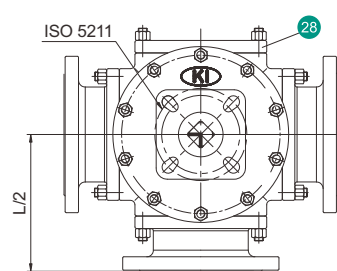
SIZE: 150A ~ 200A

APPLICABLE STANDARDS:

- Design: ASME B16.34
- Flanged Ends: JIS B2220
- Wall Thickness: ASME B16.34
- Inspection & Testing: JIS 2003, API 598

MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
1	Body	SCS14A	SCS13A	SCPH2
2	End Cap(1)	SCS14A	SCS13A	SCPH2
3	Ball	SCS14A	SCS13A	
4	Ball Seat	TFM1600 / TFM4215		
5	Anti-static Device	316	304	
6	Stem	316	304	
7	Thrust washer	PTFE		
8	O-Ring	FKM		
9	Stem Packing	PTFE/GRAFOIL		
10	Bushing	50%SS+50%PTFE/304		
11	Gland	316		
12	Belleville Washer	301		
13	Stem Nut	A194-8		
14	Stop-lock-Cap	304		
15	Stem Sleeve	50%SS+50%PTFE		
16	Cap(1)	SCS14A	SCS13A	SCPH2
17	Seat Retainer	316	304	
18	O-Ring	FKM		
19	Cap Gasket	PTFE/GRAFOIL		
20	Spring	17-4 PH		
21	Nut	A2-70	8	
22	Bolt	A2-70	8.8	
23	Body Gasket	PTFE/GRAFOIL		
24	Cap(2)	SCS14A	SCS13A	SCPH2
25	Washer	50%SS+50%PTFE		
26	Bushing	50%SS+50%PTFE		
27	Plug	SCS14A	SCS13A	
28	End Cap(2)	SCS14A	SCS13A	SCPH2
29	Handle Gland	100A	304	
30	Handle Adapter	100A	CF8	
31	Set Screwed	100A	A2-70	
32	Bolt	100A	A2-70	
33	Handle	100A	A53+ZnPlated	
34	Handle Sleeve	100A	VINYL PLASTIC	
35	Stop Bolt	100A	A2-70	
36	Stop Nut	100A	A2-70	



■ JIS 10K DIMENSION TABLE

Unit: mm

SIZE	d	d1	L	R	D	C	f	T	N	h	H	W	P	M	E1	E2	U1	U2	ISO 5211
100A	100	91	385	151.2	210	175	2	18	8	19	195.0	600	27	27	125	—	14	—	F12
125A	125	112	460	182.0	250	210	2	20	8	23	215.0	—	36	36	140	165	18	22	F14-F16
150A	150	138	490	212.0	280	240	2	22	8	23	228.5	—	36	36	140	165	18	22	F14-F16
200A	200	184	620	262.0	330	290	2	22	12	23	281.5	—	36	36	140	165	18	22	F14-F16

■ JIS 20K DIMENSION TABLE

Unit: mm

SIZE	d	d1	L	R	D	C	f	T	N	h	H	W	P	M	E1	E2	U1	U2	ISO 5211
100A	100	91	388	160.0	255	185	2	24	8	25	195.0	600	27	27	125	—	14	—	F12
125A	125	112	480	195.0	270	225	2	26	8	25	215.0	—	36	36	140	165	18	22	F14-F16
150A	150	138	520	230.0	305	260	2	28	12	25	228.5	—	36	36	140	165	18	22	F14-F16
200A	200	184	660	275.0	350	305	2	30	12	25	281.5	—	36	36	140	165	18	22	F14-F16