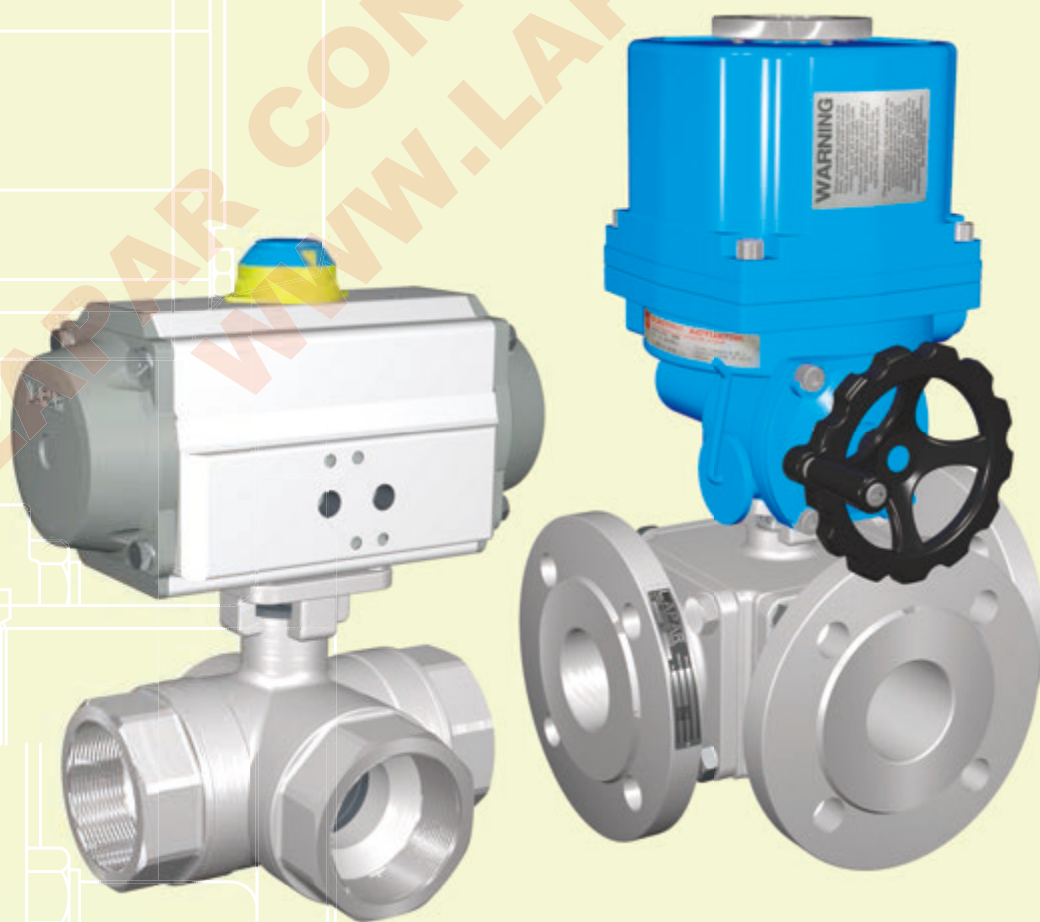
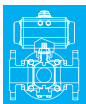


LAPAR

LPA13/14 Series

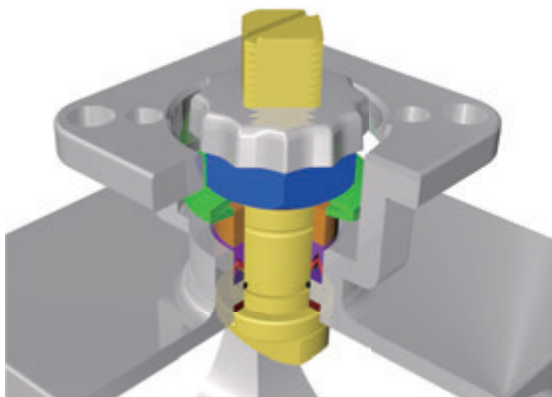
Three-way Ball Valve





LPA13/14— 3-Way Ball Valve Product Description

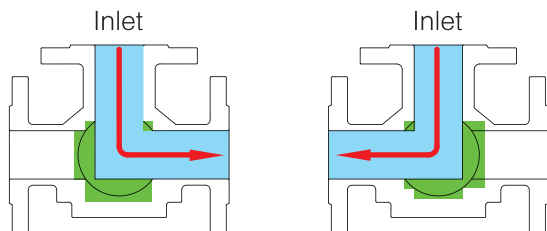
LAPA R
Lapar Control Valve



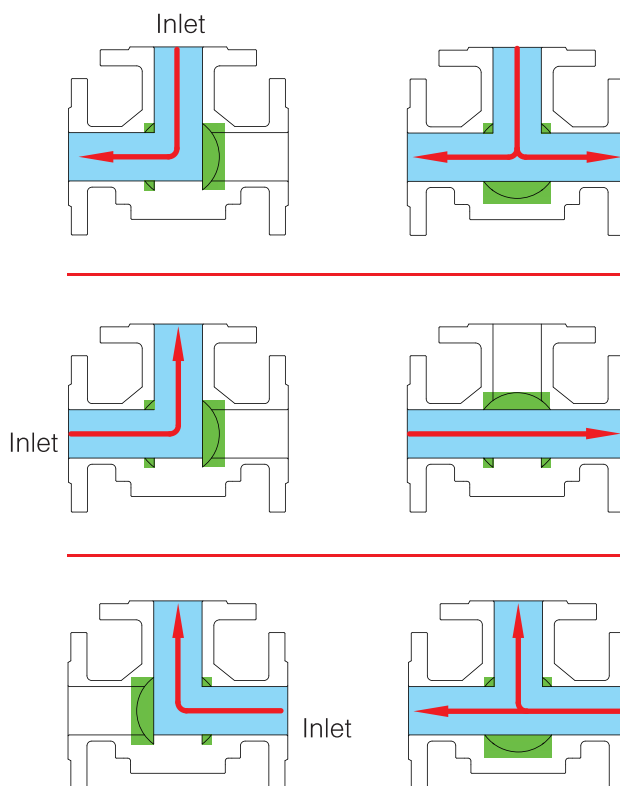
- Built-in ISO 5211 direct mounting pad for easy automation
- Anti-static devices for ball-stem-body
- Blow-out proof stem
- Double wing shrapnel design can guarantee that there is always the prestressing force compression packing
- TA-LUFT design approved

Flow Diagram

Three-way L



Three-way T





LPA13—

Flanged Three-way Ball Valve



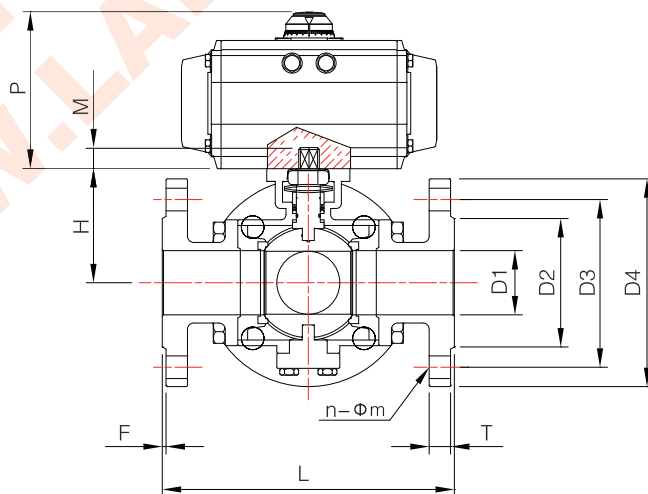
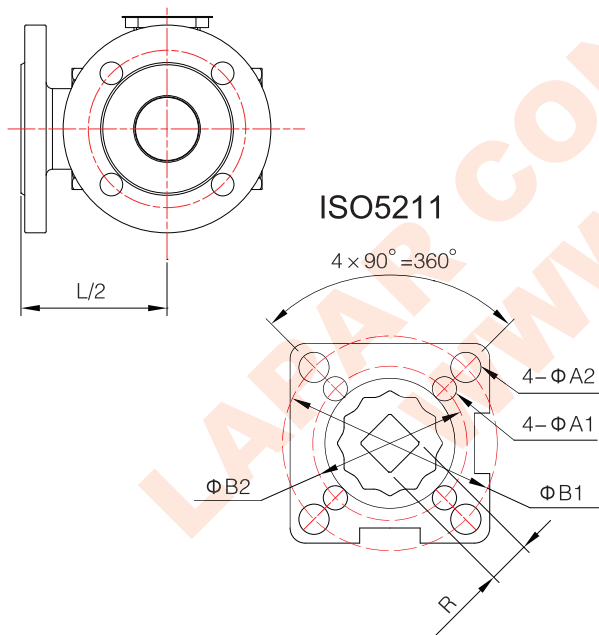
Code	Actuator	Action	Air Fail Position	Control	Structure	Body	Sealing	Ball	Connection DN	PN
LPA13-	1 Pneumatic 2 Pneumatic & Handwheel 3 Electric DC24V 4 Electric AC220V 5 Electric AC380V 7 Handle 8 Turbine 0 Others	D Double-acting S Single-acting 0 Others	1 Normally Open 2 Normally Closed 3 Flexible 4 Held 0 Others	A On-off B Control C Intelligent 0 Others	8 Three-way L 9 Three-way T 0 Others	A 316L B 316 C 304 I 304L D WCB 0 Others	P PTFE Q TFM1600 T EK 0 Others	A 316L B 316 C 304 I 304L 0 Others	1 Flange 0 Others	0 Others

Design Feature

- Lost-wax precision casting
- Built-in ISO 5211 direct mounting pad for easy automation
- Anti-static devices for ball-stem-body
- Blow-out proof stem
- Pressure balance hole in ball slot
- TA-LUFT design approved

Parameter

- DN: 15~100mm
- PN: 1.6~4.0Mpa
- Design:
DIN 3357/1,2, EN 12516-1
ASME B16.34, API 608
- Flange End:
DIN EN1092-1 PN10-PN40
ASME B16.5
JIS B2238
- Inspection & Testing:
DIN 3230/3, EN 12266
API 598, API 6D
JIS B2003, API 598
- Applicable Temperature:
▲ PTFE, TFM1600: -29°C ~ 178°C
▲ EK: -29°C ~ 250°C



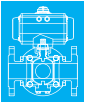
* P: Please refer to the actuator configuration table

DIN PN16/25/40

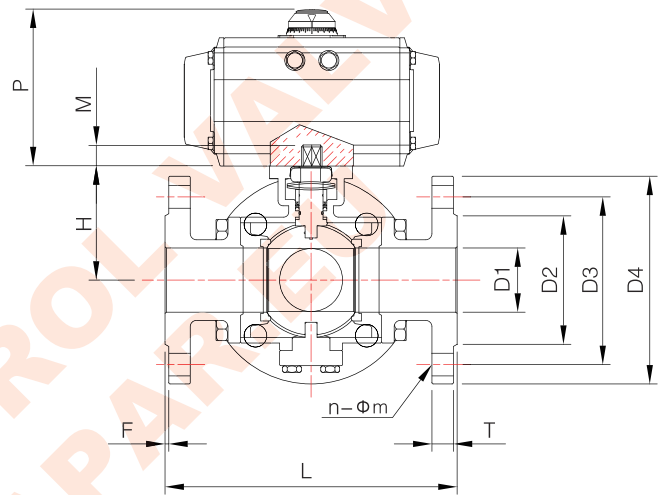
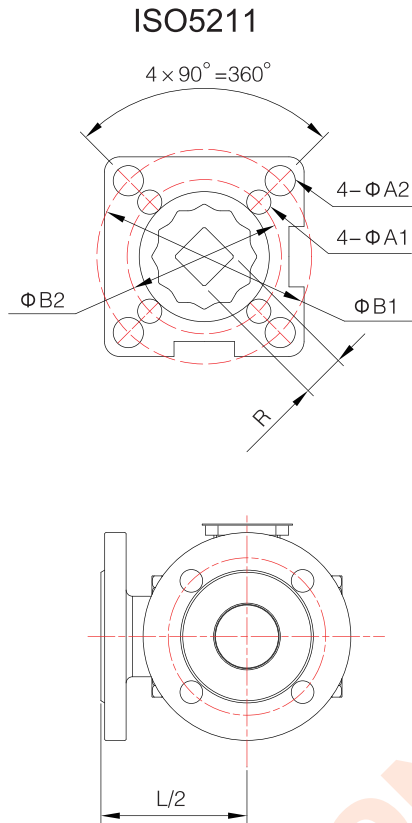
Unit:mm

SIZE	PN	L	D1	D2	D3	D4	T	F	n	Φm	H	M	R	A1	A2	B1	B2	ISO5211	LT-DA	LT-SR	LU	LH
DN15 1/2"	16	150	15	45	65	95	16	2	4	14	53	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
DN20 3/4"	16	165	20	58	75	105	18	2	4	14	57	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
DN25 1"	16	181	25	68	85	115	18	3	4	14	68	11	11	6	7	42	50	F04-F05	LT 63	LT 75	LU 50	LH 006
DN32 1-1/4"	25	190	32	78	100	140	18	3	4	18	72	11	11	6	7	42	50	F04-F05	LT 75	LT 88	LU 50	LH 006
DN40 1-1/2"	40	212	38	88	110	150	18	3	4	18	85	14	14	7	9	50	70	F05-F07	LT 75	LT 88	LU 50	LH 006
DN50 2"	40	230	50	102	125	165	20	3	4	18	92	14	14	7	9	50	70	F05-F07	LT 88	LT 100	LU 160	LH 008
DN65 2-1/2"	16 25/40	290	63	122	145	185	18 22	3	4 8	18	107	17	17	9	11	70	102	F07-F10	LT 100	LT 125	LU 160	LH 010
DN80 3"	16 25/40	310 340	75	138	160	200	20 24	3	8	18	119	17	17	9	11	70	102	F07-F10	LT 125	LT 160	LU 250	LH 030
DN100 4"	16 25/40	353 386	99	158 162	180 190	220 235	20 24	3	8	18 22	150	22	22	N/A	11	N/A	102	F10	LT 160	LT 180	LU 500	LH 050

Note: D3 is designed to meet DIN EN1092-1



LPA13— Flanged Three-way Ball Valve



* P: Please refer to the actuator configuration table

ASME CLASS150

Unit:mm

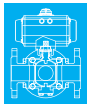
SIZE	L	D1	D2	D3	D4	T	F	n	Φm	H	M	R	A1	A2	B1	B2	ISO5211	LT-DA	LT-SR	LU	LH
1/2"	150	15	35	60.5	89	9.7	2	4	16	53	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
3/4"	165	20	43	70	98.6	10.5	2	4	16	57	9	9	6	7	36	50	F03-F04	LT 50	LT 63	LU 50	LH 006
1"	181	25	51	79.2	108	11.2	2	4	16	68	11	11	6	7	42	50	F04-F05	LT 63	LT 75	LU 50	LH 006
1-1/4"	190	32	63.5	88.9	117	12.7	2	4	16	72	11	11	6	9	42	70	F04-F05	LT 75	LT 88	LU 50	LH 006
1-1/2"	212	38	73.2	98.6	127	14.2	2	4	16	85	14	14	7	9	50	70	F05-F07	LT 75	LT 88	LU 50	LH 006
2"	230	49	92	120.7	152.5	15.9	2	4	19	92	14	14	7	9	50	70	F05-F07	LT 88	LT 100	LU 160	LH 008
2-1/2"	290	63	104.7	139.7	177.8	17.5	2	4	19	107	17	17	9	11	70	102	F07-F10	LT 100	LT 125	LU 160	LH 010
3"	310	75	127	152.4	190.5	19.1	2	4	19	119	17	17	9	11	70	102	F07-F10	LT 125	LT 160	LU 250	LH 030
4"	367	99	157.2	190.5	228.6	23.9	2	8	19	150	22	22	N/A	11	N/A	102	F10	LT 160	LT 180	LU 500	LH 050

ASME CLASS300

Unit:mm

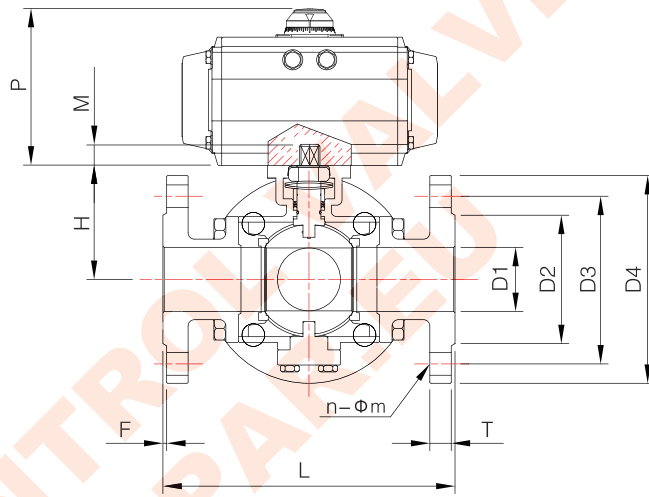
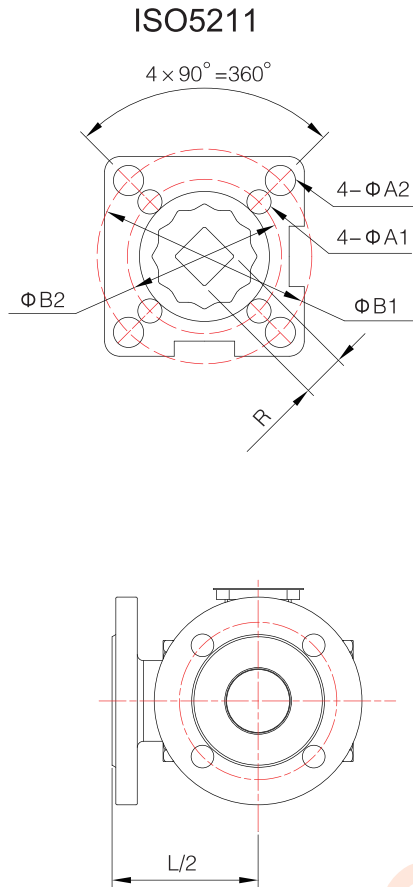
SIZE	L	D1	D2	D3	D4	T	F	n	Φm	H	M	R	A1	A2	B1	B2	ISO5211	LT-DA	LT-SR	LU	LH
1/2"	150	15	35	66.5	95.3	14.3	2	4	16	53	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
3/4"	165	20	43	82.6	117.4	15.9	2	4	19	57	9	9	6	7	36	50	F03-F04	LT 50	LT 63	LU 50	LH 006
1"	181	25	51	88.9	124	17.5	2	4	19	68	11	11	6	7	42	50	F04-F05	LT 63	LT 75	LU 50	LH 006
1-1/4"	207	32	63.5	98.6	133.4	19.1	2	4	19	72	11	11	6	9	42	70	F04-F05	LT 75	LT 88	LU 50	LH 006
1-1/2"	234	38	73.2	114.3	155.5	20.7	2	4	22.3	85	14	14	7	9	50	70	F05-F07	LT 75	LT 88	LU 50	LH 006
2"	258	49	92	127	165.1	22.3	2	4	22.3	92	14	14	7	9	50	70	F05-F07	LT 88	LT 100	LU 160	LH 008
2-1/2"	316	63	104.7	149.4	190.5	25.4	2	4	22.3	107	17	17	9	11	70	102	F07-F10	LT 100	LT 125	LU 160	LH 010
3"	360	75	127	168.1	209.6	28.6	2	4	22.3	119	17	17	9	11	70	102	F07-F10	LT 125	LT 160	LU 250	LH 030
4"	398	99	157.2	200.2	254	31.8	2	8	22.3	150	22	22	N/A	11	N/A	102	F10	LT 160	LT 180	LU 500	LH 050

Note: D3 is designed to meet ANSI 150 B16.5



LPA13—

Flanged Three-way Ball Valve



* P: Please refer to the actuator configuration table

JIS 10K

Unit:mm

SIZE	L	D1	D2	D3	D4	T	F	n	Φm	H	M	R	A1	A2	B1	B2	ISO5211	LT-DA	LT-SR	LU	LH
15A 1/2"	150	15	51	70	95	12	1	4	15	53	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
20A 3/4"	165	20	56	75	100	14	1	4	15	57	9	9	6	7	36	50	F03-F04	LT 50	LT 63	LU 50	LH 006
25A 1"	181	25	67	90	125	14	1	4	19	68	11	11	6	7	42	50	F04-F05	LT 63	LT 75	LU 50	LH 006
32A 1-1/4"	190	32	76	100	135	16	2	4	19	72	11	11	6	9	42	70	F04-F05	LT 75	LT 88	LU 50	LH 006
40A 1-1/2"	212	38	81	105	140	16	2	4	19	85	14	14	7	9	50	70	F05-F07	LT 75	LT 88	LU 50	LH 006
50A 2"	230	50	96	120	155	16	2	4	19	92	14	14	7	9	50	70	F05-F07	LT 88	LT 100	LU 160	LH 008
65A 2-1/2"	290	63	116	140	175	18	2	4	19	107	17	17	9	11	70	102	F07-F10	LT 100	LT 125	LU 160	LH 010
80A 3"	310	75	126	150	185	18	2	8	19	119	17.8	17	9	11	70	102	F07-F10	LT 125	LT 160	LU 250	LH 030
100A 4"	352	99	151	175	210	18	2	8	19	150	22	22	N/A	11	N/A	102	F10	LT 160	LT 180	LU 500	LH 050

JIS 20K

Unit:mm

SIZE	L	D1	D2	D3	D4	T	F	n	Φm	H	M	R	A1	A2	B1	B2	ISO5211	LT-DA	LT-SR	LU	LH
15A 1/2"	150	15	51	70	95	14	1	4	15	53	9	9	6	6	36	42	F03-F04	LT 50	LT 63	LU 50	LH 006
20A 3/4"	165	20	56	75	100	16	1	4	15	57	9	9	6	7	36	50	F03-F04	LT 50	LT 63	LU 50	LH 006
25A 1"	181	25	67	90	125	16	1	4	19	68	11	11	6	7	42	50	F04-F05	LT 63	LT 75	LU 50	LH 006
32A 1-1/4"	190	32	76	100	135	18	2	4	19	72	11	11	6	9	42	70	F04-F05	LT 75	LT 88	LU 50	LH 006
40A 1-1/2"	212	38	81	105	140	18	2	4	19	85	14	14	7	9	50	70	F05-F07	LT 75	LT 88	LU 50	LH 006
50A 2"	230	50	96	120	155	18	2	4	19	92	14	14	7	9	50	70	F05-F07	LT 88	LT 100	LU 160	LH 008
65A 2-1/2"	290	63	116	140	175	20	2	4	19	107	17	17	9	11	70	102	F07-F10	LT 100	LT 125	LU 160	LH 010
80A 3"	340	75	132	160	200	22	2	8	23	119	17.8	17	9	11	70	102	F07-F10	LT 125	LT 160	LU 250	LH 030
100A 4"	386	99	160	185	225	24	2	8	23	150	22	22	N/A	11	N/A	102	F10	LT 160	LT 180	LU 500	LH 050

Note: D3 is designed to meet JIS B2238