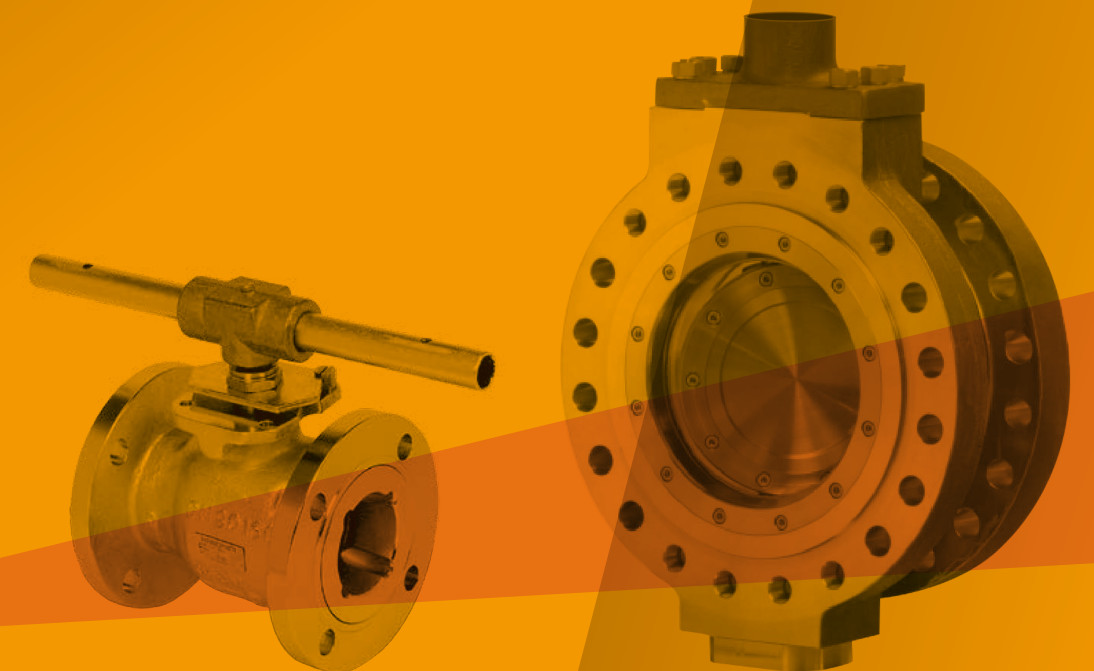




SHUT OFF VALVE

LK-1000 Series Ball Valve | LK-2000 Series Butterfly Valve



LINK CONTROLS INC.

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LK-1000S Series

Floating Soft Seal Ball Valve

Introduction

LINK's rugged flanged valves provide high durability and exceptional performance even under the most extreme conditions. The LINK line of flanged valves includes end connections that comply with ANSI B16.5 class 150 and class 600 (in both standard port and full port) and EN 1092 (DIN flanged valves) PN16 and PN100 in full port.

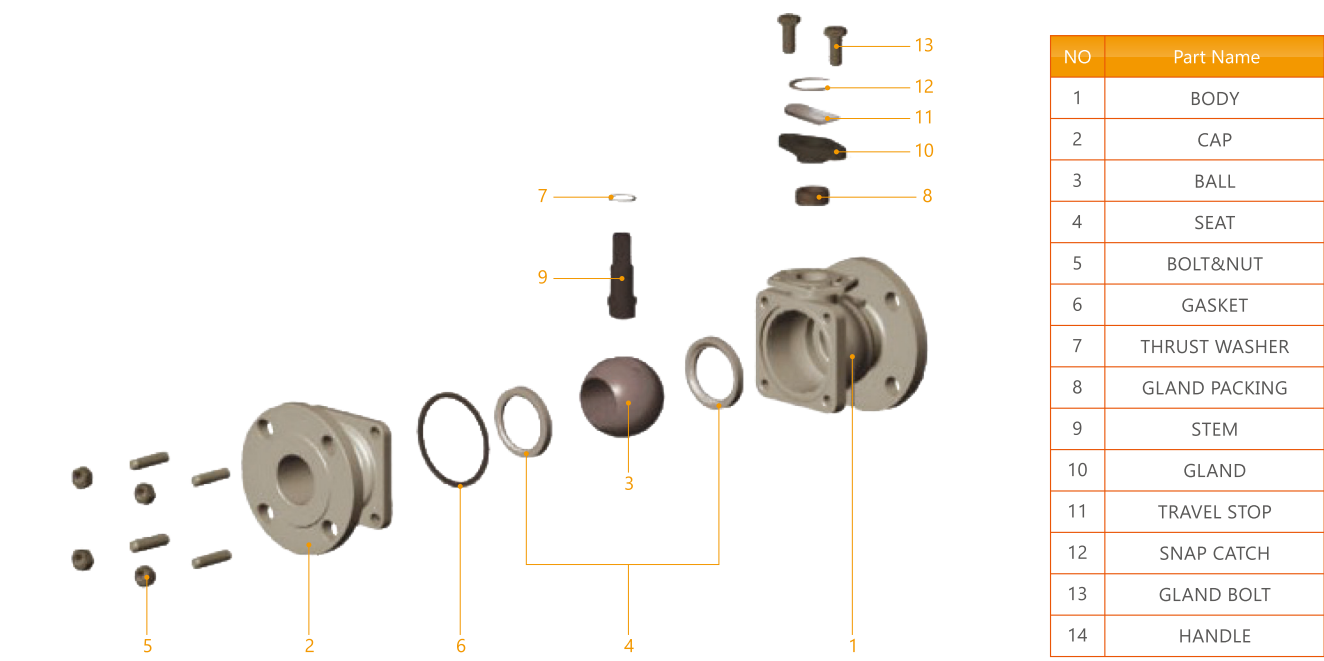
Technical specification

- **Size range:** 1/2”~8”(DN15~DN200)
 - **Pressure range:** CLASS 150~CLASS 600
 - **Temperature range:** -60°C to +260°C(-76°F to +50°F)
 - **Materials:**
Stainless steel A351 CF8M, carbon steel A216 WCB, bronze, alloy C22, alloy C276, duplex, super duplex, 254SMO, inconel 625, monel 400, SS+PFA and more
- **End connections:** Flanged
 - **Operation:**
Lever or gear operated, pneumatic or electric actuated
 - **Service:**
Chemical, petrochemical, oil and gas, energy, pulp & paper and others

Standards of compliance

Factory certification	ISO 9001-2008	Quality management system
Valve design and tests	ANSI B16.34, API 6D/ISO 14313, ISO 17292	Valve design
	ANSI B16.5, EN 1092 Pt 1&2	Flange dimensions
	ANSI B16.10, EN 558	Face-to-Face dimensions
Certifications	NACE MR-0175, ISO 15156-1/2/3	Materials for use in H2S-containing environments in oil and gas production
	EN 12266-1, API 598	Testing of metallic valves - Pressure tests, test procedures and acceptance criteria.
	API 607, ISO 10497	Testing of valves - Fire type-testing requirements
	ISO 15848-1	Industrial valves - measurement, test and qualification procedures for fugitive emissions
	PED 97/23/EC, PED 2014/68/EU Module H	Pressure equipment directive
Documentation	ATEX 94/9/EC	Equipment and protective systems intended for use in potentially explosive atmospheres (optional for actuated unit only)
	IEC 61508-2 SIL 2/3	Safety integrity level - Functional safety of electrical/electronic/programmable electronic safety-related systems (optional for actuated unit only)
	EN 10204 2.2 / 3.1 / 3.2	Metallic materials - types of inspection documents

Partial decomposition of valves



- **Body:**
 - One-and two-piece valve design
 - Cast body-flange connection
 - Full compliance with ASME B16.34 and API 6D
 - Spiral groove flange face to 3.2-6.3 Ra
 - Tongue and groove design for DIN flanges as per EN1092 Pt. 1&2 or Russian GOST standard GOST 12815-80
 - Top mounting platform compliant with ISO 5211 for easy mounting of actuator and other accessories
 - Carbon steel valves are phosphate to MIL-DTL-13924D standard or available in epoxy paint finish upon request
 - Stainless steel and high alloy valves provided with natural finish
 - Steam jacket - upon request
- **Stem:**
 - One-piece solid stem
 - Blowout-proof design
 - Antistatic device
 - Fire-lip
- **HermetiX™ stem seal**
 - ISO 15848-1 certified
 - High endurance up to 500 cycles
 - Graphite-free fire-safe certified stem seal
 - Anti-abrasion mechanism
 - Live loaded
- **Ball:**
 - Mirror polished solid ball
 - Pressure equalizing hole in the stem slot
 - Variety of materials and designs
- **Seats and seals**
 - Flexible seat design
 - Reduced wear
 - Low torque
 - Rate A leakage tightness
 - Self-relief seat (SRS) - upon request
 - Variety of materials and designs

LK-1000M Series Metal Seal Ball Valve

■ Inteoduction

LINK's tough line of metal seated valves excels in the harshest industrial environments, where valve failures can damage plant efficiency, reduce profitability and endanger safety. LINK's meticulously engineered metal seated valve can withstand the harshest applications and process conditions, including extreme high temperature, high pressure and abrasive medium. Careful metallurgical selection of all valve parts, the development of special surface, including and hard coatings, and thorough analyses of mechanical strength and thermal expansion ensure that the LINK MTM line is the best choice for industry's toughest applications.

The lower temperature range from -60°C (-76°F) to 400°C (752°F) undergoes LINK's unique surface treatment, LTPN (Low Temperature Plasma carbo-Nitriding). LTPN is a cost effective hardening system for austenitic stainless steel, which provides a minimum thickness of 40 microns and more than triple (>68HRC) the natural hardness of the base material.

For the higher temperature range from 400°C (752°F) and up to 538°C (1000°F) LINK offers various HVOF spray solutions based on chromium and tungsten carbides.

For the even higher temperature range from 538°C (1000°F) and up to 650°C (1200°F) LINK uses ASME B16.34 listed forged bar material for the construction of the valve pressure-containing elements.

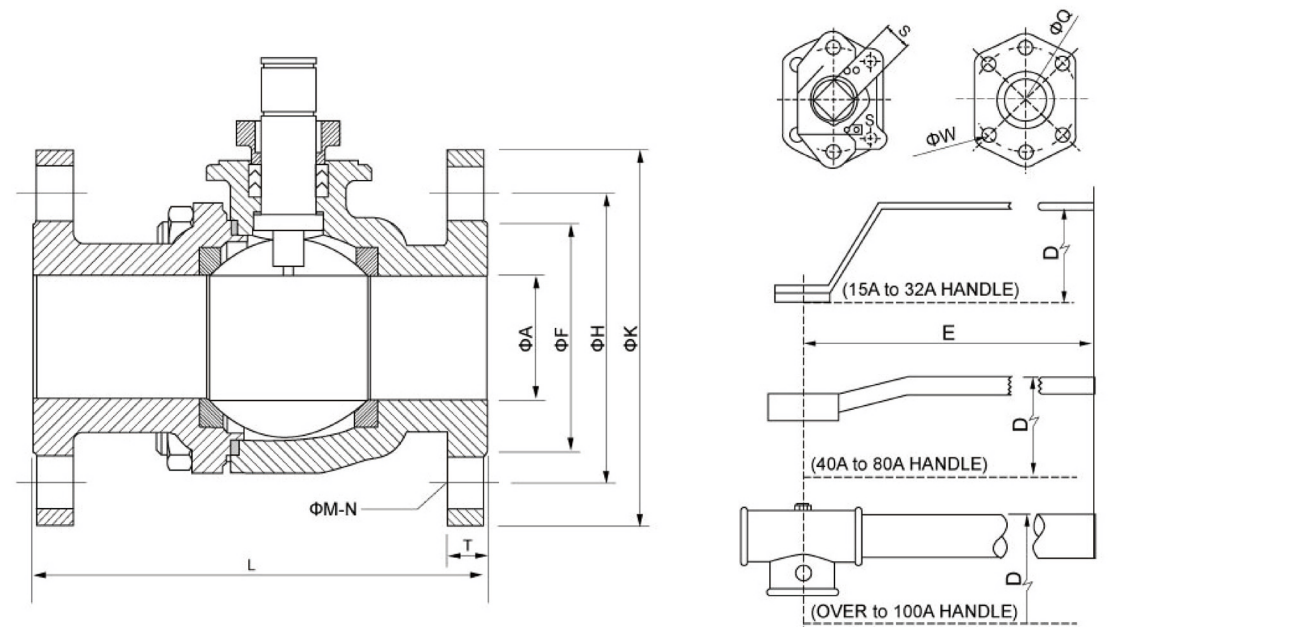
For the severe abrasive conditions of the pulp and paper industry, LINK offers also a minimum of 1.5 mm thick, hard stellite coating. Each coating is specifically engineered to the customer's application in order to provide outstanding resistance to abrasion and corrosion for a lifetime of effective operation in harsh applications.

Each ball and seat sub-assembly is accurately machined, ground and then mate-lapped for a perfect match. The complete valve assembly demonstrates high repeatability in terms of sealing (Rate B - factory tested), low torque and smooth operation at various temperatures and pressures.

LINK uses ASME B16.34 listed cast material for the valve body and ends.

■ Valves design

- **Size range:** 1/4"~8"(DN8~DN200)
- **Pressure range:** CLASS 150~CLASS 600
- **Temperature range:** -60°C to+650°C(-76°F to+752°F)
- **Operation:** Lever or gear operated, pneumatic or electric actuated
- **Materials:** Stainless steel A351 CF8M/CF3M, A479 316/316L, carbon steel A216 WCB, A105, A350 LF2, A479 321/321H, A182 F22
- **End connections:** Threaded, welded, flanged
- **Temperature range:** -60°C to+650°C(-76°F to+752°F)



DIMENSION(LK-1000/S SERIES ANSI-150LB) (M.M.)

SIZE	A	D	S	E	L	K	T	H	F	M	N	Q	W	
15	1/2"	15	63	10	130	108	89	11.2	60.5	35	16	4	42	M5
20	3/4"	20	68	10	130	117	98	11.2	70	43	16	4	42	M5
25	1"	25	76	12	160	127	108	11.2	79.5	51	16	4	50	M6
40	1 1/2"	38	88	17	224	165	127	14.3	98.5	73	16	4	70	M8
50	2"	50	94	17	224	178	152	15.9	120.5	92	19	4	70	M8
65	2 1/2"	65	115	20	324	190	178	17.5	139.5	105	19	4	70	M8
80	3"	76	120	20	324	203	190	19.1	152.5	127	19	8	70	M8
100	4"	100	195	27	400	229	210	23.9	190.5	157	19	8	102	M10
125	5"	125	220	27	550	356	254	23.9	216	186	22	8	102	M10
150	6"	150	240	27	550	394	279	25.4	241.5	216	22	8	102	M12
200	8"	200	300	35	1000	457	343	28.6	298.5	270	22	8	140	M16
250	10"	250	355	35	1000	533	406	30.2	362	324	25	12	140	M16
300	12"	300	-	46	-	610	483	31.8	432	381	25	16	165	M20

DIMENSION(LK-1000/S SERIES ANSI-300LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	140	95	14.3	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	152	117	15.9	82.5	43	19	4	42	M5
25	1"	25	76	12	160	165	124	17.5	89	51	19	4	50	M6
40	1 1/2"	38	88	17	224	190	156	20.6	114.5	73	22	4	70	M8
50	2"	50	94	17	224	216	165	22.3	127	92	19	8	70	M8
65	2 1/2"	65	115	20	324	241	190	25.4	149.2	105	22	8	70	M8
80	3"	76	120	20	324	283	210	28.6	168	127	22	8	70	M8
100	4"	100	195	27	400	305	254	31.8	200	157	22	8	102	M10
150	6"	150	240	27	550	403	318	36.6	269.7	216	22	12	125	M12
200	8"	200	300	35	1000	502	381	41.3	330.2	270	25	12	140	M16
250	10"	250	355	35	1000	568	444	47.7	387.5	324	29	12	140	M16
300	12"	300	-	46	-	648	521	50.8	451	381	32	16	165	M20

DIMENSION(LK-1000/S SERIES ANSI-600LB) (M.M.)

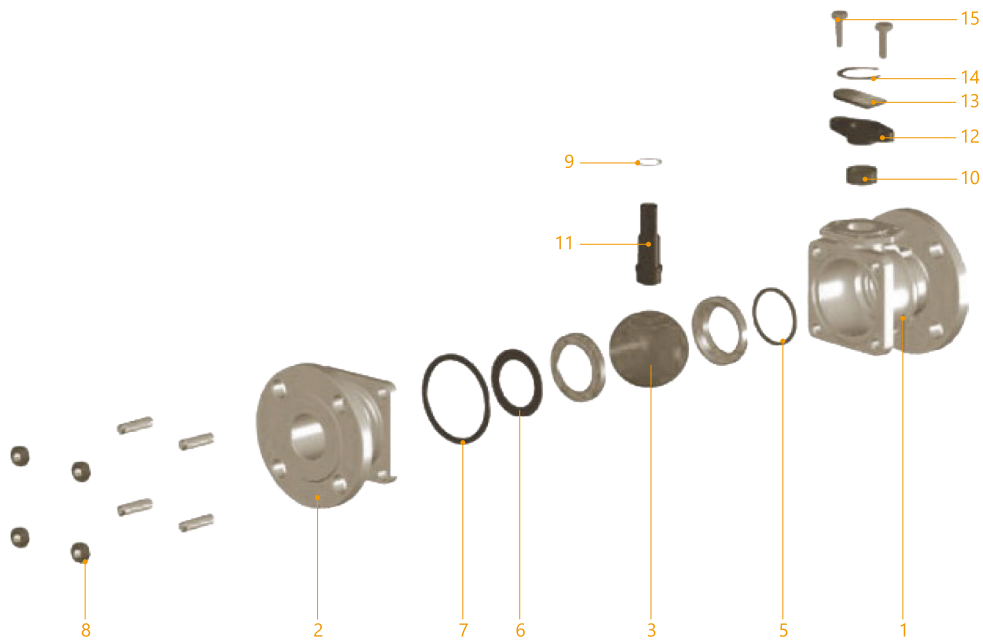
SIZE	A	D	S	E	L	K	T	H	F	M	N	Q	W	
15	1/2"	15	63	10	130	165	95	20.9	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	190	117	22.3	82.5	43	19	4	42	M5
25	1"	25	76	12	160	216	124	23.9	89	51	19	4	50	M6
40	1 1/2"	38	120	17	224	241	156	28.7	114.5	73	22	4	70	M8
50	2"	50	140	17	404	292	165	31.8	127	92	19	8	70	M8
80	3"	76	180	22	445	356	210	38.2	168	127	22	8	102	M10
100	4"	100	240	27	1040	432	273	44.5	216	157	25	8	125	M12
150	6"	150	300	35	550	559	356	54.1	292	216	29	12	140	M16

*other sizes on request

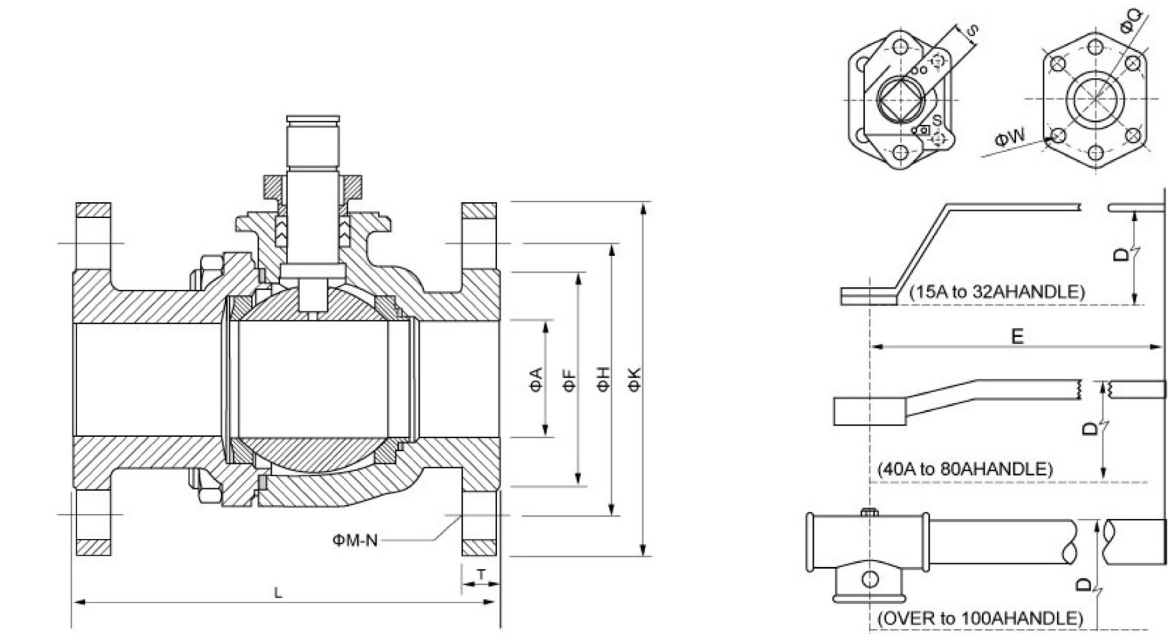
■ Standards of compliance

Factory certification	ISO 9001-2008	Quality management system
Valve design and tests	ANSI B16.34, API 608, API 6D/ ISO 14313, ISO 17292	Valve design
	ANSI B1.20.1	NPT - National Pipe Taper thread
	ISO 7-1, JIS B0203	BSPT - British Standard Pipe Taper thread
	DIN 3852	BSPP
	ANSI B16.11, EN 12760	Socket weld end connection
	ANSI B16.25, EN12627-4	Buttweld end connection (Schedule 5, 10, 40, 80)
	ANSI B16.5, EN 1092 Pt 1&2	Flange dimensions
Certifications	ANSI B16.10, EN 558	Face-to-Face dimensions
	NACE MR-0175, ISO 15156-1/2/3	Materials for use in H2S-containing environments in oil and gas production
	EN 12266-1, API 598, ANSI FCI 70-2	Testing of metallic valves - Pressure tests, test procdures and acceptance criteria.
	API 607, ISO 10497	Testing of valves - Fire type-testing requirements
	PED 97/23/EC, PED 2014/68/EU Module H ATEX 94/9/EC	Pressure equipment directive equipment and protective systems intended for use in potentially explosive atmospheres (optional for actuated unit only)
Documentation	IEC 61508-2 SIL 2/3	Safety integrity level - Functional safety of electrical/ electronic/programmable electronic safety-related systems (optional for actuated unit only)
	EN 10204 2.2 / 3.1 / 3.2	Metallic materials - types of inspection documents

■ Partial decomposition of valves



NO	Part Name
1	BODY
2	CAP
3	BALL
4	SEAT
5	SEAT GASKET
6	SEAT SPRING
7	GASKET
8	BOLT&NUT
9	THRUST WASHER
10	GLAND PACKING
11	STEM
12	GLAND
13	TRAVEL STOP
14	SNAP CATCH
15	GLAND BOLT
16	HANDLE



DIMENSION(LK1000/M SERIES ANSI-150LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	108	95	12	70	51	15	4	42	M5
20	3/4"	20	68	10	130	117	100	14	75	56	15	4	42	M5
25	1"	25	76	12	160	127	125	14	90	67	19	4	50	M6
40	1 1/2"	38	88	17	224	165	140	16	105	81	19	4	70	M8
50	2"	50	94	17	224	178	155	16	120	96	19	4	70	M8
65	2 1/2"	65	115	20	324	190	175	18	140	116	19	4	70	M8
80	3"	76	120	20	324	203	185	18	150	126	19	8	70	M8
100	4"	100	195	27	400	229	210	18	175	151	19	8	102	M10
125	5"	125	220	27	550	356	250	20	210	182	23	8	102	M10
150	6"	150	240	27	550	394	280	22	240	212	23	8	102	M12
200	8"	200	300	35	1000	457	330	22	290	262	23	12	140	M16

DIMENSION(LK1000/M SERIES ANSI-300LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	140	95	14.3	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	152	117	15.9	82.5	43	19	4	42	M5
25	1"	25	76	12	160	165	124	17.5	89	51	19	4	50	M6
40	1 1/2"	38	88	17	224	190	156	20.6	114.5	73	22	4	70	M8
50	2"	50	94	17	224	216	165	22.3	127	92	19	8	70	M8
65	2 1/2"	65	115	20	324	241	190	25.4	149.2	105	22	8	70	M8
80	3"	76	120	20	324	283	210	28.6	168	127	22	8	70	M8
100	4"	100	195	27	400	305	254	31.8	200	157	22	8	102	M10
150	6"	150	240	27	550	403	318	36.6	269.7	216	22	12	125	M12
200	8"	200	300	35	1000	502	381	41.3	330.2	270	25	12	140	M16

DIMENSION(LK1000/M SERIES ANSI-600LB) (M.M.)

SIZE		A	D	S	E	L	K	T	H	F	M	N	Q	W
15	1/2"	15	63	10	130	165	95	20.9	66.5	35	16	4	42	M5
20	3/4"	20	68	10	130	190	117	22.3	82.5	43	19	4	42	M5
25	1"	25	76	12	160	216	124	23.9	89	51	19	4	50	M6
40	1 1/2"	38	120	17	224	241	156	28.7	114.5	73	22	4	70	M8
50	2"	50	140	17	224	292	165	31.8	127	92	19	8	70	M8
80	3"	76	180	22	324	356	210	38.2	168	127	22	8	70	M8
100	4"	100	240	27	550	432	273	44.5	216	157	25	8	102	M10

*other sizes on request

LK-1000S/M Series Turnnion Ball Valve

Introduction

The LK-1000S/M high pressure valve series is based on a trunnion ball valve technology, specially built for endurance and reliability with a design pressure of up to ANSI Class 2500 (414 bar / 6000 psi). As standard, the high pressure series is made from forged or rolled bar material. Consequently we are able to ‘sculpture’ the valve to customer specific demands in a very short time.

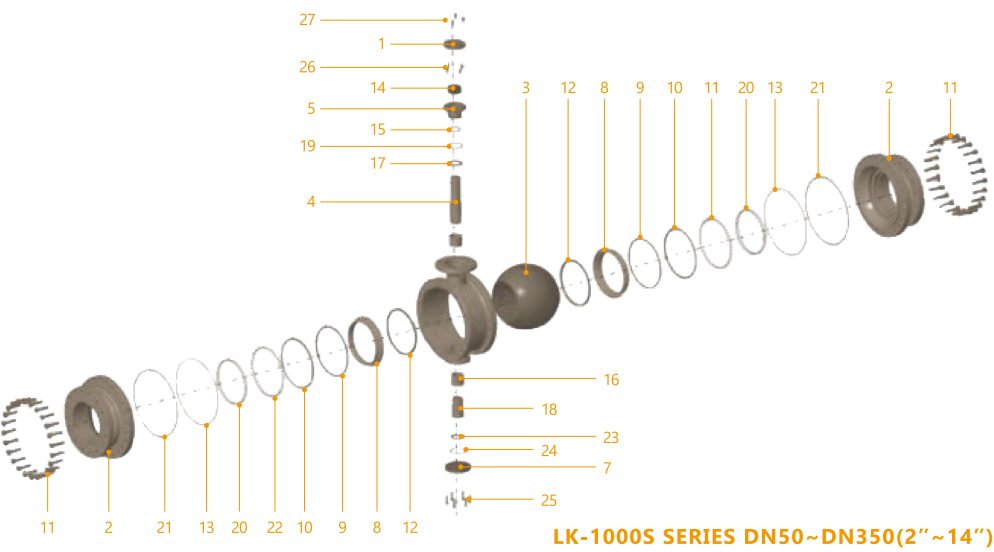
Technical specification

- Body Type:** Trunnion
 - Size:** 0.5 '' To 48.0''
 - Pressure Class:** Up to ANSI CL2500
 - Temperature range:** -196°C to +650°C
 - End Connections:** Flangeless, flanged (integral and separable flange)
- Body Material:** S.StA479 316/316L, C.St.A350 LF2,B473 N08020(Alloy 20),B164 N04400(Monel 400),B574 N06022 (Alloy C22),B574 N10276(Alloy C276),A479 S31254(254 SMO),A479 S31803(Duplex),A479 S32750(Super Duplex)
 - Shaft:** Class IV To Class VI

Standards of compliance

Factory certification	ISO 9001-2008	Quality management system
Valve design and tests	ANSI B16.34, API 6D/ISO 14313, ISO 17292	Valve design
	ANSI B16.5, EN 1092 Pt 1&2	Flange dimensions
	ANSI B16.10, EN 558	Face-to-Face dimensions
Certifications	NACE MR-0175, ISO 15156-1/2/3	Materials for use in H2S-containing environments in oil and gas production
	EN 12266-1, API 598	Testing of metallic valves - Pressure tests, test procedures and acceptance criteria.
	API 607, ISO 10497	Testing of valves - Fire type-testing requirements
	ISO 15848-1	Industrial valves - measurement, test and qualification procedures for fugitive emissions
	PED 97/23/EC, PED 2014/68/EU Module H	Pressure equipment directive
Documentation	ATEX 94/9/EC	Equipment and protective systems intended for use in potentially explosive atmospheres (optional for actuated unit only)
	IEC 61508-2 SIL 2/3	Safety integrity level - Functional safety of electrical/electronic/programmable electronic safety-related systems (optional for actuated unit only)
	EN 10204 2.2 / 3.1 / 3.2	Metallic materials - types of inspection documents

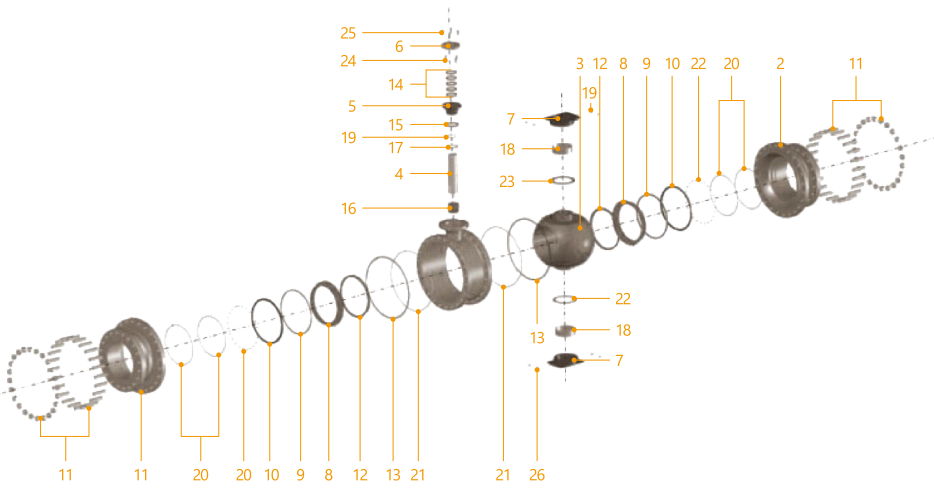
Partial decomposition of valves

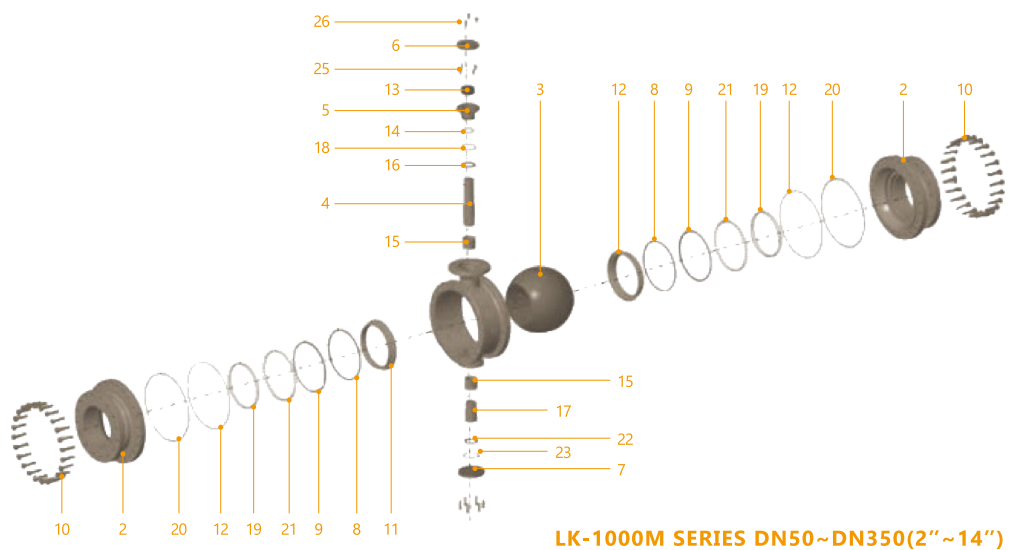


NO	Part Name
1	BODY
2	CAP
3	BALL
4	STEM
5	GLAND BODY
6	GLAND
7	BEARING RETAINER
8	SEAT RING
9	SEAT RING SEAL
10	SEAT RING RETAINER
11	BOLT&NUT
12	SEAT
13	BODY GASKET
14	GLAND PACKING
15	GLAND THEUST WASHER
16	BEARING
17	STEM THEUST WASHER
18	TRUNNION STEM
19	STEM O-RING
20	STEM RING O-RING
21	CAP O-RING
22	SPRING
23	TRUNNION STEM WASHER
24	TRUNNION STEM GASKET
25	RETAINER BOLT
26	GLAND BODY BOLT
27	GLAND BOLT

NO	Part Name
1	BODY
2	CAP
3	BALL
4	STEM
5	GLAND BODY
6	GLAND
7	TRUNNION
8	SEAT RING
9	SEAT RING SEAL
10	SEAT RING RETAINER
11	BOLT&NUT
12	SEAT
13	BODY GASKET
14	GLAND PACKING
15	GLAND THEUST WASHER
16	BEARING
17	STEM THEUST WASHER
18	TRUNNION STEM
19	STEM O-RING
20	STEM RING O-RING
21	CAP O-RING
22	SPRING
23	WASHER
24	GLAND BODY BOLT
25	GLAND BOLT
26	PIN

LK-1000S SERIES DN400~DN600(16''~24'')



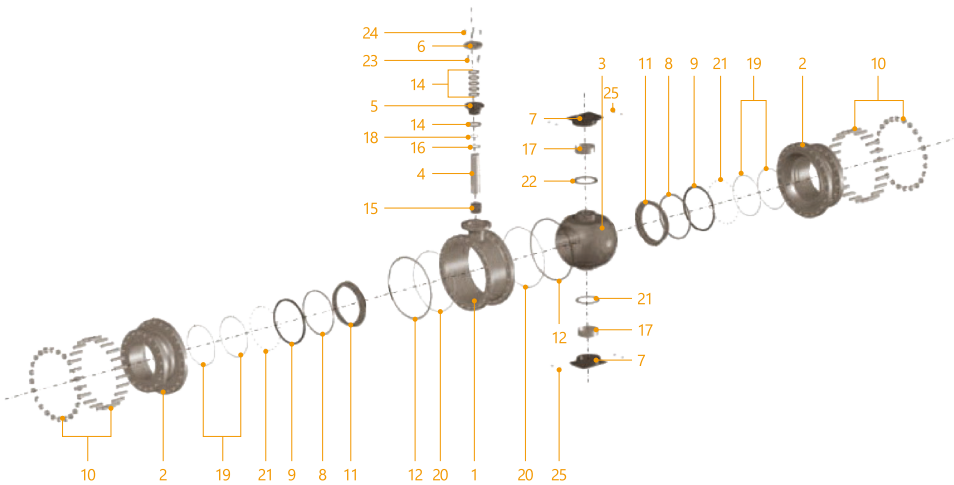


LK-1000M SERIES DN50~DN350(2"~14")

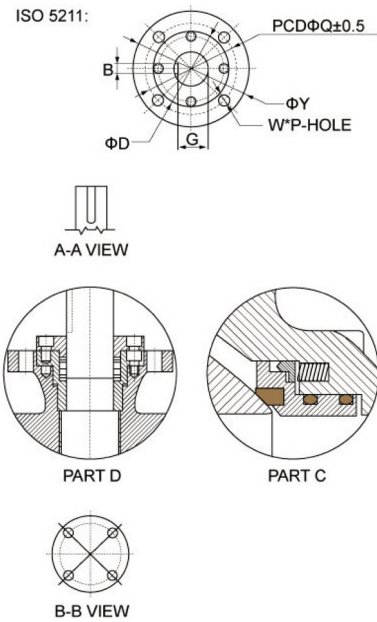
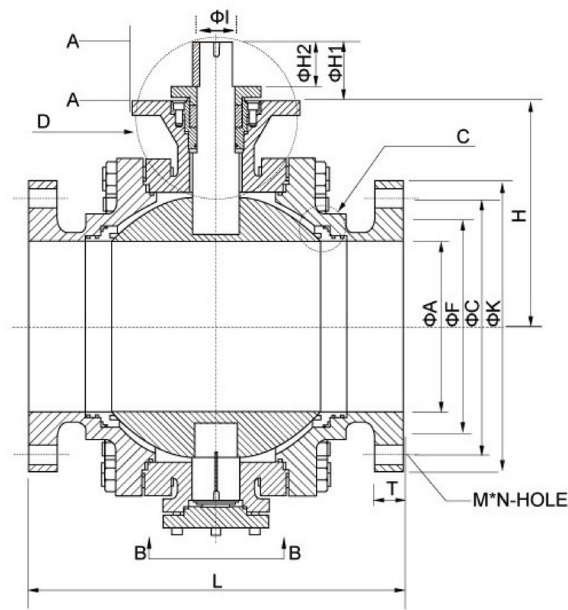
NO	Part Name
1	BODY
2	CAP
3	BALL
4	STEM
5	GLAND BODY
6	GLAND
7	BEARING RETAINER
8	SEAT RING SEAL
9	SEAT RING RETAINER
10	BOLT&NUT
11	SEAT
12	BODY GASKET
13	GLAND PACKING
14	GLAND THEUST WASHER
15	BEARING
16	STEM THEUST WASHER
17	TRUNNION STEM
18	STEM O-RING
19	STEM RING O-RING
20	CAP O-RING
21	SPRING
22	TRUNNION STEM WASHER
23	TRUNNION STEM GASKET
24	RETAINER BOLT
25	GLAND BODY BOLT
26	GLAND BOLT

NO	Part Name
1	BODY
2	CAP
3	BALL
4	STEM
5	GLAND BODY
6	GLAND
7	TRUNNION
8	SEAT RING SEAL
9	SEAT RING RETAINER
10	BOLT&NUT
11	SEAT
12	BODY GASKET
13	GLAND PACKING
14	GLAND THEUST WASHER
15	BEARING
16	STEM THEUST WASHER
17	TRUNNION STEM
18	STEM O-RING
19	STEM RING O-RING
20	CAP O-RING
21	SPRING
22	WASHER
23	GLAND BODY BOLT
24	GLAND BOLT
25	PIN

LK-1000M SERIES DN400~DN600(16"~24")



• LK1000S/M SERIES DN50~DN350(2"~14")



DIMENSION(ANSI-150LB FLANGED)

(M.M.)

SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
50	2"	50	92	120.6	152	177.8	15.9	100	50		19	4	102	M10	25	10	30	4	130	90
80	3"	76	127	152.5	190	203.2	19.1	105.5	55		19	4	102	M10	35	10	30	4	130	90
100	4"	100	157	190.5	228	228.6	23.9	180	74	50	19	8	125	M12	35	10	30	4	180	90
150	6"	150	216	241.5	279	393.7	25.4	215	95	74	22	8	165	M20	45	12	40	4	210	123
200	8"	200	270	298.5	343	457.2	28.6	302	95	74	22	8	165	M20	60	18	53	4	210	123
250	10"	250	324	362	406	533.4	30.2	340	95	74	25	12	165	M20	60	18	53	4	210	137
300	12"	300	381	432	483	609.6	31.8	405	95	77	25	12	254	M16	70	20	62.5	8	290	156
350	14"	400	413	476.5	533	685.8	35.0	450	97	77	29	12	254	M16	75	20	62.5	8	290	170

DIMENSION(ANSI-300LB FLANGED)

(M.M.)

SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
50	2"	50	92	127	165	216	22.3	100	50		19	8	102	M10	25	10	30	4	130	90
80	3"	76	127	168	210	285	28.6	105.5	55		22	8	102	M10	35	10	30	4	130	90
100	4"	100	157	200	254	304.8	31.8	180	74	50	22	8	125	M12	35	10	30	4	180	90
150	6"	150	216	292	318	393.7	36.6	215	95	74	22	12	165	M20	45	12	40	4	210	123
200	8"	200	270	330	381	503	41.3	302	95	74	25	12	165	M20	60	18	53	4	210	123
250	10"	250	324	387.5	444	569	47.7	340	95	74	29	16	165	M20	60	18	53	4	210	137
300	12"	300	381	451	521	647.7	50.8	405	95	77	32	16	254	M16	70	20	62.5	8	290	156
350	14"	400	413	514.5	584	762	54.0	450	97	77	32	20	254	M16	75	20	62.5	8	290	170

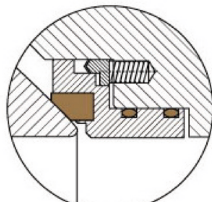
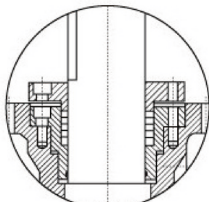
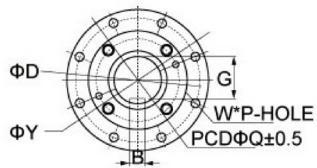
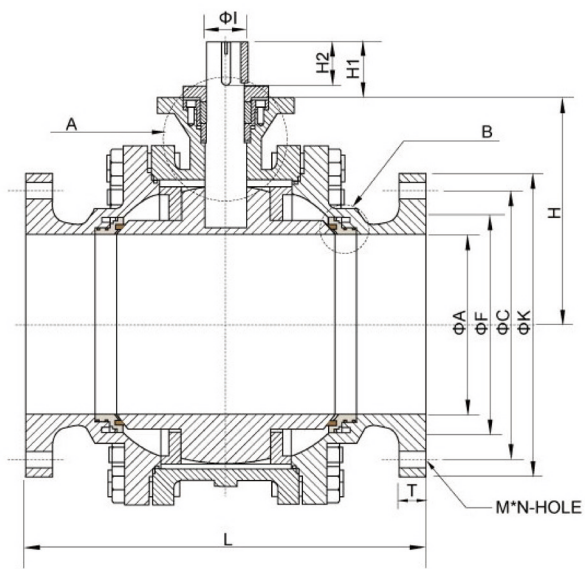
DIMENSION(ANSI-600LB FLANGED)

(M.M.)

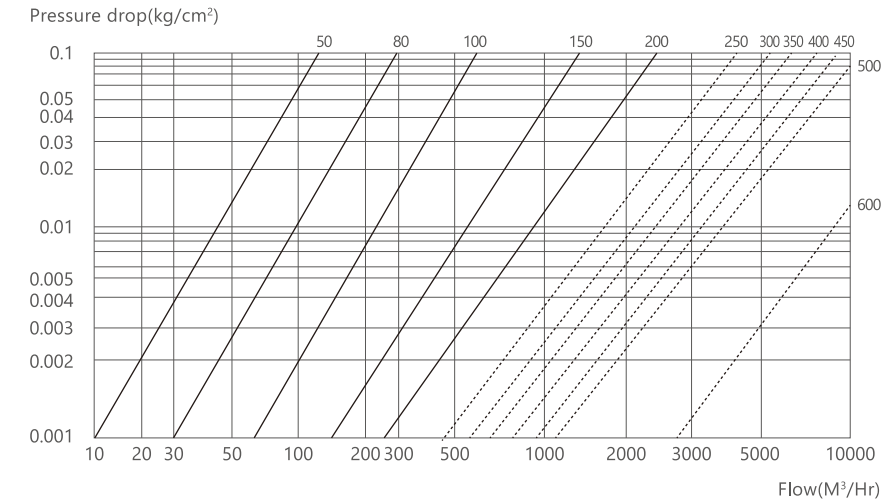
SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
50	2"	50	92	127	165	292.1	31.8	100	50		19	8	102	M10	25	10	30	4	130	90
80	3"	76	127	168	210	356	38.2	105.5	55		22	8	102	M10	35	10	30	4	130	90
100	4"	100	157	200	273	431.8	44.5	180	74	50	22	8	125	M12	35	10	30	4	180	90
150	6"	150	216	292	356	558.8	54.1	215	95	74	22	12	165	M20	45	12	40	4	210	123
200	8"	200	270	330	381	503	41.3	302	95	74	25	12	165	M20	60	18	53	4	210	123
250	10"	250	324	387.5	444	569	47.7	340	95	74	29	16	165	M20	60	18	53	4	210	137
300	12"	300	381	451	521	647.7	50.8	405	95	77	32	16	254	M16	70	20	62.5	8	290	156
350	14"	400	413	514.5	584	762	54.0	450	97	77	32	20	254	M16	75	20	62.5	8	290	170

*other sizes on request

• LK1000S/M SERIES DN400~DN600(16"~24")



• Pressure drop & Flow



• Cv VALUE

SIZE(MM)	50	80	100	150	200	250	300	350	400	450	500	600
150#	500	1350	2500	5300	10500	17500	26300	31850	43300	57300	74500	112300
300#	460	1150	2200	5290	9600	16750	25500	30050	41700	55300	72300	109150
600#	400	1050	1850	4460	8730	14250	22550	28400	38150	50950	65600	98150

DIMENSION(ANSI-150LB FLANGED)

(M.M.)

SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
400	16"	400	470	539.5	597	762	36.6	487	100	77	29	16	254	M16	85	24	77	8	290	179
450	18"	450	533	578	635	863.6	39.7	537	130	99	32	16	254	M16	100	28	90	8	290	200
500	20"	500	584	635	698	914.5	42.9	590	130	110	32	20	298	M20	110	28	100	8	350	210
600	24"	600	692	749.5	813	1067	47.7	640	130	110	35	20	298	M20	120	28	105	8	350	230

DIMENSION(ANSI-300LB FLANGED)

(M.M.)

SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
400	16"	400	470	571.5	648	838.2	57.2	487	100	77	35	20	254	M16	85	24	77	8	290	179
450	18"	450	533	628.5	711	915	60.2	537	130	99	35	24	254	M16	100	28	90	8	290	200
500	20"	500	584	686	775	990.6	63.5	590	130	110	35	24	298	M20	110	28	100	8	350	210
600	24"	600	692	813	914	1092.5	69.9	640	130	110	41	24	298	M20	120	28	105	8	350	230

DIMENSION(ANSI-600LB FLANGED)

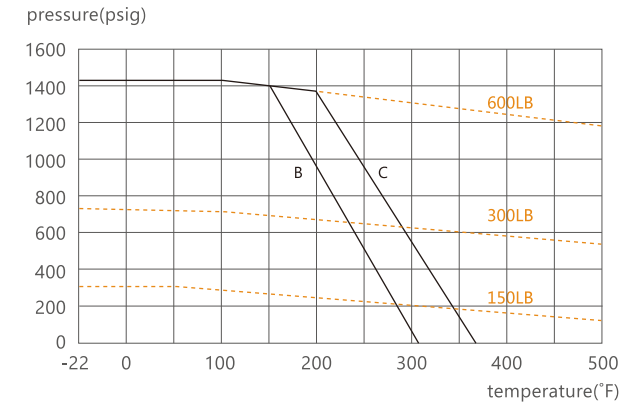
(M.M.)

SIZE	ΦA	ΦF	ΦC	ΦK	L	T	H	H1	H2	M	N	Q	W	ΦI	B	G	P	Y	D	
400	16"	400	470	603	686	990.5	76.2	487	100	77	42	20	254	M16	85	24	77	8	290	179
450	18"	450	533.5	654	743	1092.5	82.5	537	130	99	45	20	254	M16	100	28	90	8	290	200
500	20"	500	584	724	813	1194	88.9	590	130	110	45	24	298	M20	110	28	100	8	350	210
600	24"	600	692	838.5	940	1397	101.6	640	130	110	52	24	298	M20	120	28	105	8	350	230

*other sizes on request

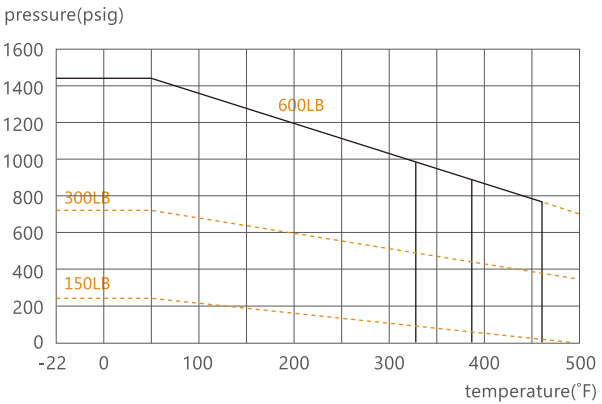
• Pressure & Temperatures

DN50~DN600(Class150&300&600)



B=PTFE+15% Glass Fibre
C=PTFE+15% Carbon Fiber

DN50~DN600(Class150&300&600)

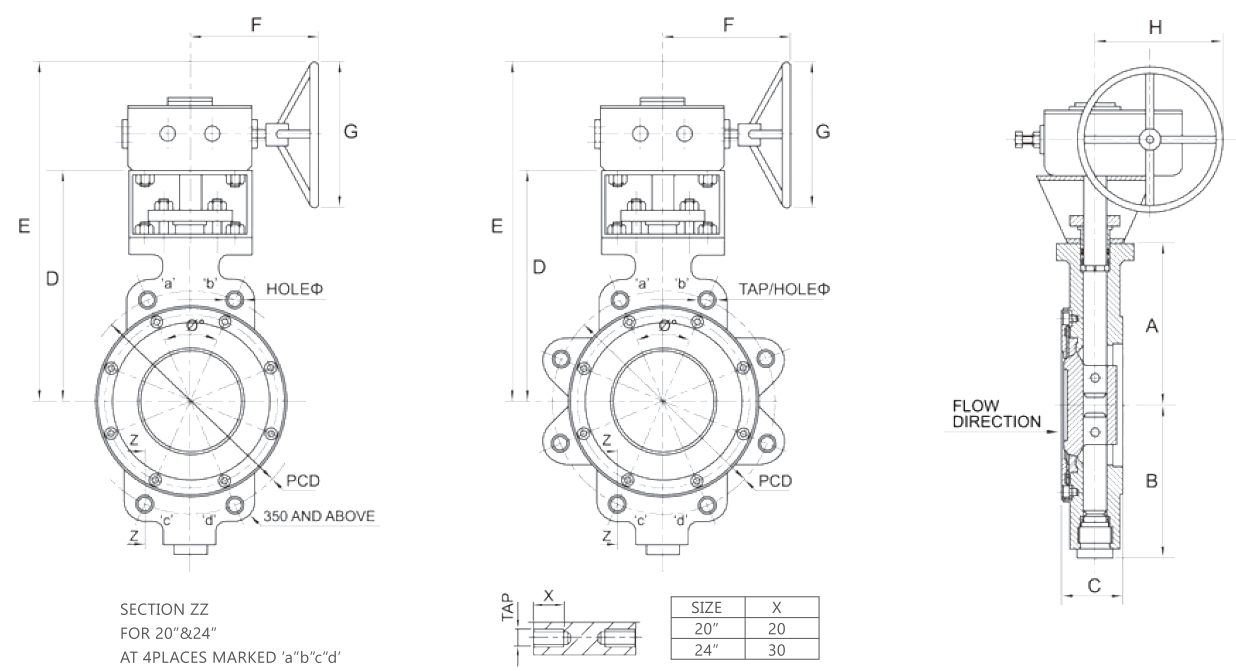


SM=High Temperature 661°F(350°C)
SH=High Temperature 932°F(500°C)
WCB=High Temperature 797°F(425°C)

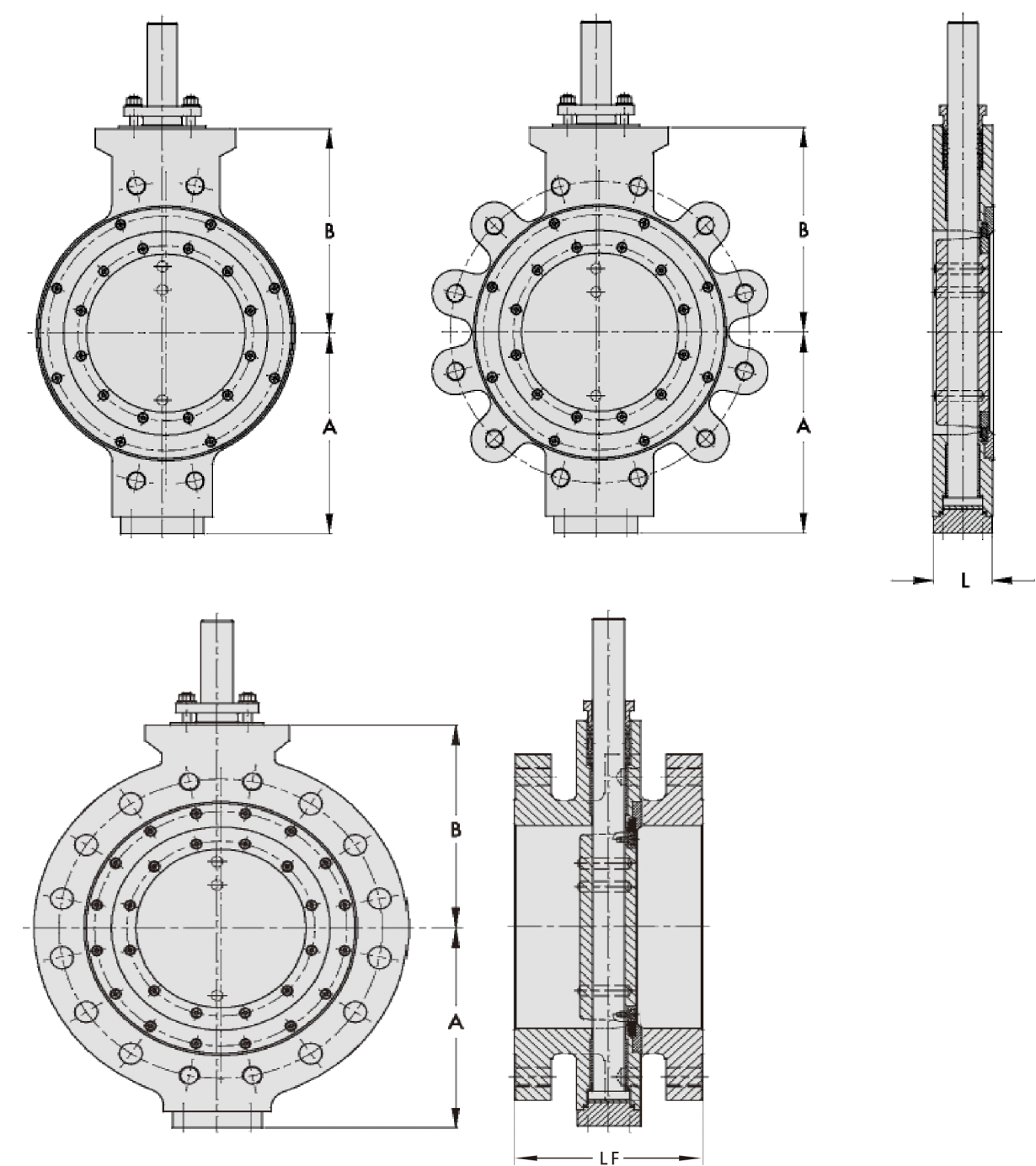
NO	Part Name
1	BODY
2	DISC
3	SEAT
4	SHAFT
5	CLAMPING RING
6	SOC.HD SCREW
7.1	SUPPORT RING
7.2	BACKUP RING-FOR FIRE SAFE
8	TAPER PIN
9	SPLIT RING
10	GLAND PACKING
11	GLAND
12	GLAND FLANGE
13.1	BOTTOM PLUG
13.2	BOTTOM COVERY
14	BOTTOM PACKING
15	BEARING
16	PACKING RING
17	BRACKET
18	HEX BOLT
19	WORM GEAR
20	HANDWHEEL

NO	Part Name
1	BODY
2	DISC
3	SEAT
4	SHAFT
5	CLAMPING RING
6	SOC.HD SCREW
7	TAPER PIN
8	SPLIT RING
9	GLAND PACKING
10	GLAND
11	GLAND FLANGE
12	PACKING RING
13.1	BOTTOM PLUG
13.2	BOTTOM COVER
14	BEACKET
15	BEARING
16	BOTTOM PACKING
17	SCREW
18	WORM GEAR
19	HANDWHEEL

• LK-2000 Double Eccentric (DN80-DN600)



• LK-2000 Triple Eccentric dimension drawing



SIZE TABLE(SOFT SEAL ANSI150LB) (M.M.)

SIZE		A	B	C	D	E	F	G	H	PCD	WAFER HOLEΦ	LUG		Φ*
												TAP	LUGS	
3"	80	130	125	48	193	320	195	175	127	152.4	19.1	M16	4	90
4"	100	145	135	54	205	332	195	175	127	190.5	19.1	M16	8	45
5"	125	157	150	57	217	382	242	250	182	215.9	22.4	M20	8	45
6"	150	175	168	57	235	400	242	250	182	241.3	22.4	M20	8	45
8"	200	200	195	64	260	425	285	250	182	298.5	22.4	M20	8	45
10"	250	265	245	71	325	542	285	350	252	362	25.4	M22	12	30
12"	300	290	272	81	370	586	285	350	252	431.8	25.4	M22	12	30
14"	350	310	290	92	410	755	365	600	388	476.3	28.5	M27	12	30
16"	400	370	360	102	470	842	365	600	432	539.8	28.5	M27	16	22.5
18"	450	390	380	114	490	862	365	600	432	577.9	31.8	M30	16	22.5
20"	500	420	410	127	520	840	395	500	445	635	31.8	M30	20	18
24"	600	500	490	154	600	935	420	500	500	749.3	35.1	M33	20	18

SIZE TABLE(METAL SEAL ANSI150LB) (M.M.)

SIZE		A	B	C	D	E	F	G	H	PCD	WAFER HOLEΦ	LUG		Φ*
												TAP	LUGS	
3"	80	130	125	48	193	320	195	175	127	152.4	19.1	M16	4	90
4"	100	145	135	54	205	332	195	175	127	190.5	19.1	M16	8	45
5"	125	157	150	57	217	382	242	250	182	215.9	22.4	M20	8	45
6"	150	175	168	57	235	400	242	250	182	241.3	22.4	M20	8	45
8"	200	200	195	64	260	476	285	350	252	298.5	22.4	M20	8	45
10"	250	265	245	71	325	542	285	350	252	362	25.4	M22	12	30
12"	300	290	272	81	370	715	365	600	388	431.8	25.4	M22	12	30
14"	350	310	290	92	410	755	365	600	388	476.3	28.5	M27	12	30
16"	400	370	360	102	470	842	365	600	432	539.8	28.5	M27	16	22.5
18"	450	390	380	114	490	862	395	600	432	577.9	31.8	M30	16	22.5
20"	500	420	410	127	520	855	420	500	500	635	M30	M30	20	18
24"	600	500	490	154	600	935	420	500	500	749.3	M33	M33	20	18

*other sizes on request

DIMENSION (ANSI CLASS150-600)

(M.M.)

SIZE		ANSI 150/PN25				ANSI 300/PN50				ANSI 600/PN100							
in	Mm	A	B	L	LF	A	B	L	LF	A	B	L	LF				
3"	80	120	125	48	114	125	135	48	114	130	135	54	180				
4"	100	150	160	54	127	160	165	54	127	175	180	64	190				
6"	150	190	200	57	140	200	210	59	140	225	235	78	210				
8"	200	220	235	64	152	235	240	73	152	265	275	102	230				
10"	250	250	265	71	165	260	270	83	165	310	320	117	250				
12"	300	290	305	81	178	300	310	92	178	335	340	140	270				
14"	350	320	330	92	190	325	335	117	190	375	385	155	290				
16"	400	350	360	102	216	365	370	133	216	410	420	178	310				
18"	450	375	400	114	222	400	410	149	222	440	450	200	330				
20"	500	415	450	127	229	450	460	159	229	485	490	216	350				
24"	600	450	480	154	267	520	540	181	267	550	610	232	390				
28"	700	515	535	165	292	580	610	209	292	580	640	292	450				
30"	750	580	610	165	318	600	630	241	318	620	670	318	480				
32"	800	590	620	190	318	630	660	241	318	660	700	318	510				
36"	900	640	670	200	330	700	730	260	330	720	740	330	540				
40"	1000	700	730	216	410	720	740	300	410	On request							
48"	1200	800	830	276	470	820	860	320	470								
52"	1300	875	875	350	670	On request											
56"	1400	950	945	390	710												
60"	1500	1030	1020	420	750												

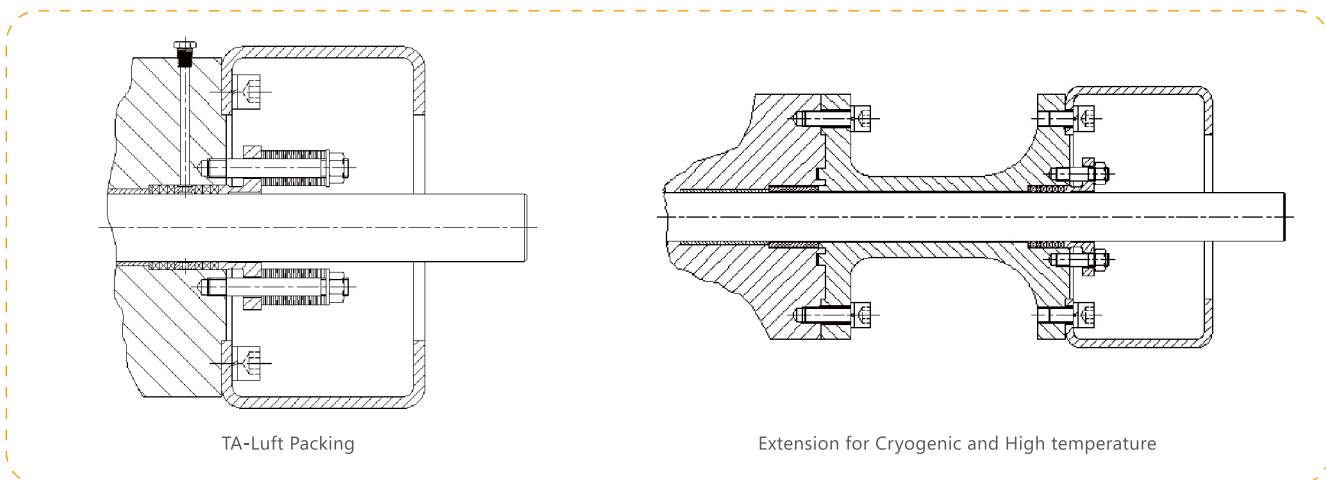
DIMENSION (ANSI CLASS900-1500)

(M.M.)

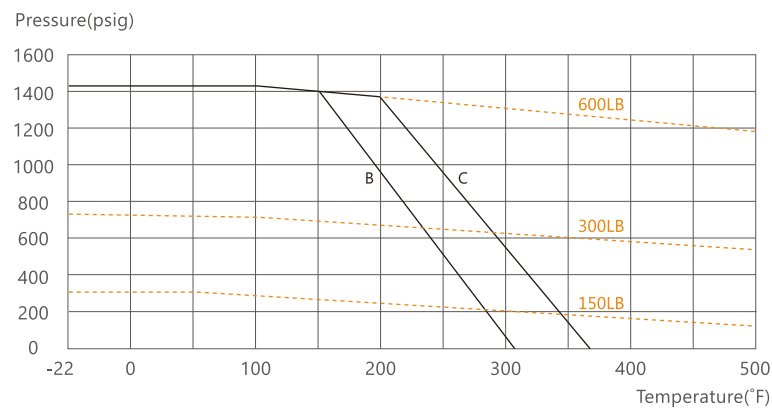
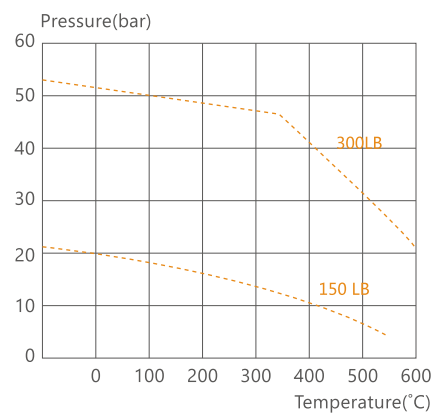
SIZE		ANSI 900/PN160				ANSI 1500/PN250			
in	Mm	A	B	L	LF	A	B	L	LF
3"	80	135	140	64	210				
4"	100	215	225	80	235				
6"	150	265	280	104	250				
8"	200	300	310	112	310	310	320	130	420
10"	250	350	375	135	350	360	385	160	460
12"	300	380	400	170	380	390	430	190	500
14"	350	395	415	190	400	430	470	220	570
16"	400	425	440	202	430	480	510	260	610
18"	450	460	480	230	460	490	530	300	660
20"	500	500	530	252	490	540	580	330	710
24"	600	590	630	312	530	650	680	385	790

*other sizes on request

• Option

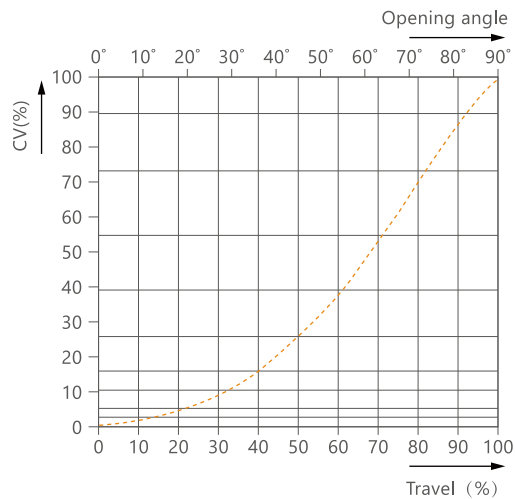


• Pressure & Temperatures



SEAT LEAK REATE		
STANDARD	CLASS	%CVS %KVS
ANSI B16.104	KI.V	0.000005%
IEC 534-4KI .	KI.V	0.000007%
MSS-SP 72	50%	0.000080%
IEC 534-4KI .	KI.V S2	0.000180%
MSS-SP 72	100%	0.000200%
MSS-SP 72	300%	0.000600%
IEC 534-4KI .	KI.V S1	0.004500%
IEC 534-4KI .	KI.IV	0.010000%

• Characteristic data



SIZE	TYPE	CLASS 150		CLASS 300	
		CV	KV	CV	KV
mm	inch				
80	3"	173	148	173	148
100	4"	355	303	258	220
125	5"	655	560	550	470
150	6"	1040	888	890	760
200	8"	1980	1692	1520	1300
250	10"	3150	2692	2520	2154
300	12"	4680	4000	3685	3150
350	14"	6388	5460	5195	4440
400	16"	8312	7104	7120	6085
450	18"	10525	8995	9398	8032
500	20"	13053	11156	11350	9700
600	24"	18610	15906	16180	13830